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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.7 percent in August, with widespread gains in manufacturing. In addition, output growth in July was revised up 0.2 percentage point to 0.4 percent. The upward revision in July was largely the result of higher manufacturing output—especially nondurables. At 121.3 percent of its 1992 average, industrial production in August was 4.7 percent higher than in August 1996. The rate of industrial capacity utilization rose to 83.9 percent—its highest rate since September 1995.

The acceleration in industrial production between July and August was concentrated in manufacturing; much of it was related to the 10 percent jump in the assembly of autos and light trucks, which had dropped 5 percent from June to July. Excluding motor vehicles and parts, manufacturing production rose 0.7 percent in August, as it had in July, with large increases in the output of commercial aircraft, computers, semiconductors, and primary metals. Output at mines, however, declined 0.9 percent, and that at utilities fell 1.1 percent.

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

Industrial Production	Index, 1992=100				Percent change				Aug. 96 to Aug. 97
	1997 May ^r	June ^r	July ^r	Aug. ^p	1997 May ^r	June ^r	July ^r	Aug. ^p	
Total Index	119.5	119.9	120.4	121.3	.1	.3	.4	.7	4.7
Previous estimates	119.3	119.6	119.8		.0	.3	.2		
Major market groups:									
Products, total	115.9	116.1	116.3	117.2	.4	.2	.2	.8	4.4
Consumer goods	112.6	112.5	112.8	113.5	.4	-.1	.3	.6	3.1
Business equipment	136.1	137.5	139.0	141.7	.4	1.0	1.1	1.9	11.0
Construction supplies	120.6	120.3	118.8	119.2	.4	-.2	-1.2	.4	.1
Materials	125.2	125.9	127.0	127.8	-.2	.6	.9	.7	5.2
Major industry groups:									
Manufacturing	121.0	121.6	122.2	123.4	.1	.4	.5	1.0	5.3
Durable	132.7	134.1	134.7	136.8	.3	1.0	.4	1.6	7.4
Nondurable	108.7	108.4	109.0	109.3	.0	-.3	.6	.3	2.9
Mining	108.1	107.4	106.8	105.8	1.9	-.6	-.5	-.9	1.3
Utilities	112.4	112.1	112.7	111.4	-1.0	-.3	.5	-1.1	.5
Percent of capacity									Capacity growth
Capacity Utilization	Average 1967-96	1982- Low	1988-89 High	1996 Aug.	1997 May ^r	June ^r	July ^r	Aug. ^p	Aug. 96 to Aug. 97
Total Industry	82.1	71.1	85.3	83.2	83.5	83.5	83.6	83.9	3.9
Previous estimates					83.3	83.3	83.1		
Manufacturing	81.2	69.0	85.7	82.3	82.4	82.5	82.6	83.1	4.2
Advanced processing	80.6	70.4	84.2	80.4	80.3	80.6	80.7	81.3	5.1
Primary processing	82.3	66.2	88.9	86.5	87.1	86.9	86.9	87.3	2.3
Mining	87.5	80.3	86.8	91.9	94.6	93.9	93.2	92.2	1.0
Utilities	87.2	75.9	92.6	88.5	88.5	88.2	88.5	87.4	1.8

Market Groups

Led by a 2.1 percent advance in the production of durable goods, the overall output of consumer goods grew 0.6 percent in August; the production of nondurable goods advanced 0.3 percent. The gain in consumer durables resulted from the sharp rebound in the output of motor vehicles, which more than offset noticeable declines in the production of appliances and most other consumer durables. Among nondurable consumer goods, the production of non-energy products increased for the second consecutive month, with advances in food and tobacco products and in household chemical and paper products. The output of consumer energy products was unchanged in August because a large gain in the output of automotive gasoline was nearly offset by a drop in residential electricity sales.

The output of business equipment expanded at a 1.9 percent pace, marking a third straight month of sizable gains; this index has increased 11.0 percent since August 1996. While the growth in business equipment was led by solid gains in the output of business vehicles, it was also accompanied by further strong increases in information processing equipment, especially computers and related equipment, and by large gains in commercial aircraft and in farm machinery and equipment. Moreover, after several months of weakness, the production of industrial equipment rebounded with big increases in both July and August. The output of defense and space equipment rose 0.6 percent.

After a drop of 1.2 percent in July, the output of construction supplies recovered partially with a 0.4 percent increase; nevertheless, the August index for this market group was just 0.1 percent above its August 1996 level. Meanwhile, the production of materials posted another sizable gain, led by a 1.5 percent increase in the output of durable goods materials; strong gains in the production of equipment parts, particularly semiconductors, and parts for consumer durables, especially motor vehicles, supplied much of the boost. Energy materials fell 0.9 percent, with noticeable declines in coal mining and electricity generation. The output of nondurable goods materials decreased 0.3 percent; a large gain in container output was more than offset by drops in the other major categories of materials.

Industry Groups

Manufacturing output increased 1.0 percent in August after a 0.5 percent increase in July; excluding motor vehicles and parts, production rose 0.7 percent for a second month. The gains in manufacturing output were largely concentrated in durable goods industries, which increased 1.6 percent. In addition to the gain in motor vehicles and parts, there were strong increases in furniture and fixtures, primary metals, fabricated metals, industrial machinery and computers, electrical machinery, aerospace, and instruments. The output of nondurable goods, which had been weak since the beginning of the year, rebounded 0.6 percent in July and gained another 0.3 percent in August. Only two nondurables industries— apparel and paper— had output losses, while tobacco, petroleum, rubber and plastic products, and leather had substantial gains.

A large drop in coal mining largely accounted for the decline in mining output, and losses in electricity generation and sales reduced utility output.

Led by a 7.3 percentage point increase in the operating rate at auto and light truck factories, the overall factory operating rate increased 0.5 percentage point, to 83.1 percent—its highest level since September 1995. Similarly, the utilization rate for advanced-processing industries increased 0.6 percentage point, to 81.3 percent—also its highest level since September 1995. The rate for primary-processing industries increased 0.4 percentage point, to 87.3 percent, about the same as its level in March. The operating rate at mines decreased 1.0 percentage point, to 92.2 percent, while the rate at utilities decreased 1.1 percentage points, to 87.4 percent.

Industrial Production and Capacity Utilization

(August data, seasonally adjusted)

Industrial production indexes

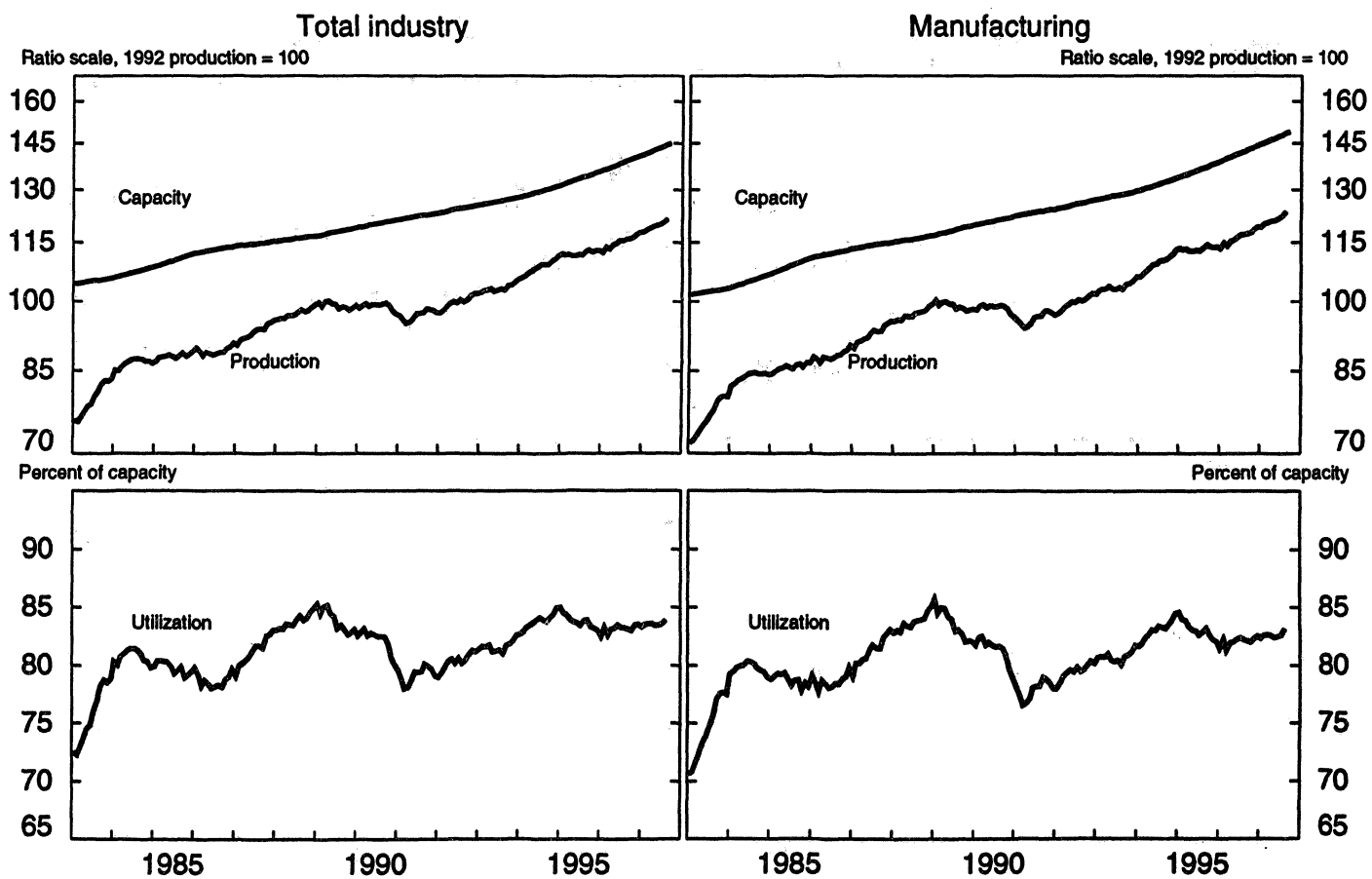
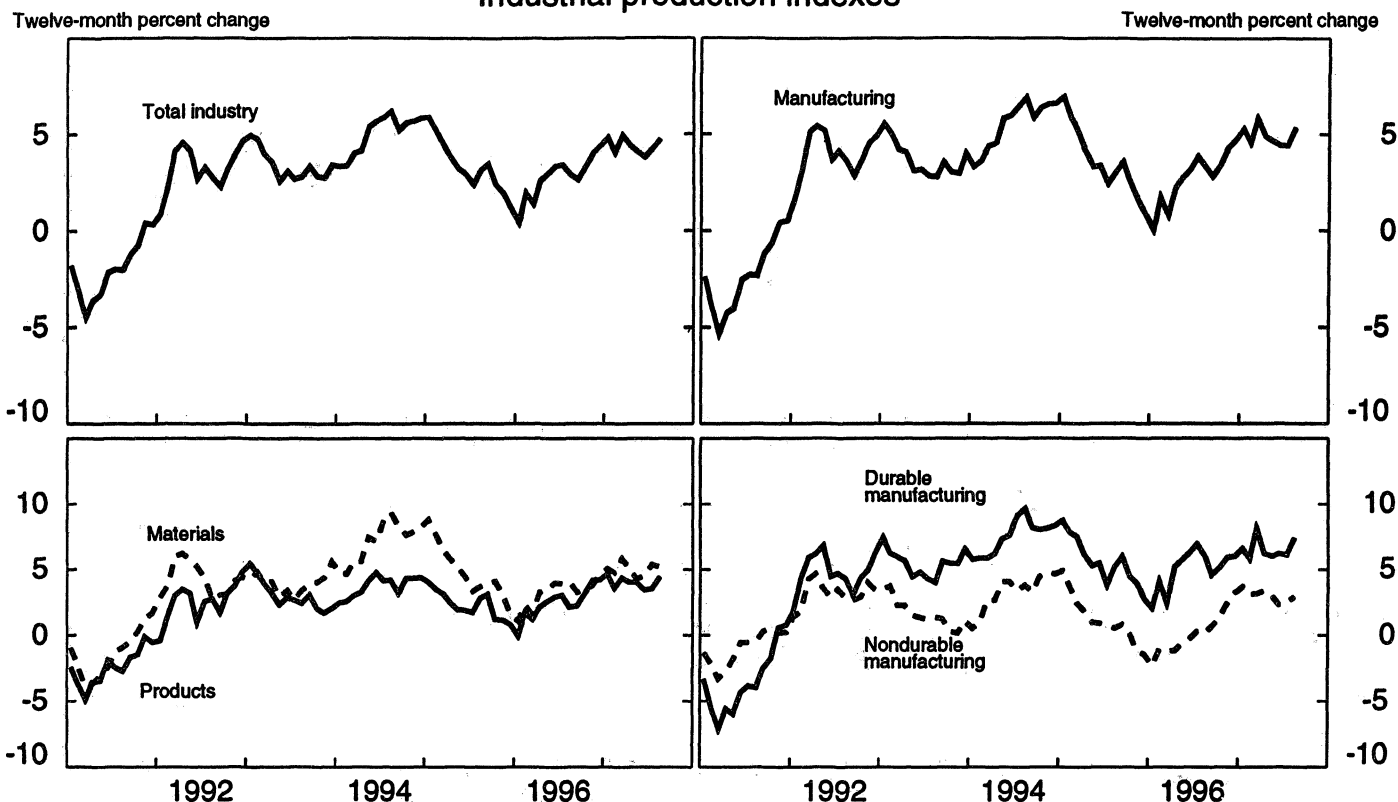


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS

Item	1996 IP Proportion ¹	Index, 1992=100											
		Seasonally Adjusted						Not seasonally adjusted					
		1997 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p	1997 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total index	100.00	118.8	119.3	119.5	119.9	120.4	121.3	118.5	118.4	118.0	121.9	119.0	124.4
Products, total	59.92	115.3	115.4	115.9	116.1	116.3	117.2	114.0	113.6	113.6	118.1	115.9	121.4
Final products	45.14	116.3	116.6	117.1	117.5	117.9	119.1	115.6	115.1	114.9	119.2	116.4	122.9
Consumer goods	28.15	112.1	112.1	112.6	112.5	112.8	113.5	111.2	109.9	109.3	113.8	111.8	118.2
Durable	5.89	131.0	126.9	128.4	130.5	129.1	131.8	133.5	133.5	130.4	134.3	116.3	131.8
Automotive products	2.40	131.7	124.4	126.4	128.4	122.9	130.5	136.1	137.4	133.2	135.1	100.7	130.6
Autos and trucks	1.38	138.9	127.1	130.0	132.6	123.5	137.7	146.9	148.5	143.7	143.5	83.4	137.0
Autos	.67	123.3	116.0	117.7	114.9	118.0	125.7	127.2	132.7	128.8	122.8	79.0	123.6
Trucks	.71	163.8	146.1	150.5	159.5	135.8	158.3	170.0	167.1	161.2	167.8	88.5	152.7
Auto parts and allied goods	1.02	119.7	118.0	118.8	120.1	118.8	118.7	119.8	120.6	117.3	121.6	116.4	119.6
Other durable goods	3.48	130.4	128.6	129.7	131.8	133.3	132.5	131.5	130.6	128.4	133.6	127.1	132.5
Appliances and electronics	1.19	183.6	179.0	181.1	186.9	193.2	193.8	186.0	181.4	179.7	192.6	188.0	191.5
Appliances and air cond.	.55	137.5	128.3	126.1	134.5	137.9	135.8	145.1	140.7	127.9	138.7	126.9	119.3
Home electronics	.65	238.9	241.4	249.8	251.2	261.7	266.5	233.0	228.6	243.3	258.3	266.2	287.5
Carpeting and furniture	.78	111.6	108.6	111.7	114.2	110.3	111.2	111.5	112.6	107.4	116.2	106.4	115.0
Miscellaneous	1.51	109.9	110.0	109.6	109.6	111.6	109.4	110.9	110.9	109.9	109.3	103.8	108.3
Nondurable	22.26	107.4	108.3	108.6	108.0	108.7	109.0	105.8	104.2	104.2	108.7	110.2	114.6
Nonenergy	18.77	107.5	107.6	107.8	107.5	108.2	108.6	103.5	104.5	106.0	111.2	110.9	116.4
Foods and tobacco	9.72	108.7	107.8	107.6	107.0	107.9	108.2	103.4	104.8	105.4	111.0	109.0	116.6
Clothing	1.89	94.2	94.4	94.8	94.3	94.0	94.0	92.3	93.0	95.7	99.1	93.5	98.4
Chemical products	4.40	114.9	117.2	118.0	117.3	118.0	118.3	109.3	109.8	114.3	122.9	128.9	131.5
Paper products	2.76	102.3	102.6	103.4	104.5	105.3	106.2	103.1	104.2	103.1	103.7	104.2	107.1
Energy products	3.49	107.5	113.0	113.5	111.6	112.2	112.2	119.6	102.3	94.0	94.9	105.9	104.3
Fuels	1.06	108.5	110.1	111.9	111.8	110.4	112.9	103.8	108.0	112.6	113.5	111.3	113.2
Utilities	2.43	106.8	114.1	114.0	111.2	112.7	111.6	126.9	99.6	85.3	86.1	103.4	100.1
Equipment, total	17.00	123.5	124.3	124.9	126.3	126.7	128.7	123.2	124.0	124.5	128.6	124.2	131.0
Business equipment	13.81	134.3	135.5	136.1	137.5	139.0	141.7	134.4	135.5	136.2	141.2	136.3	144.6
Information processing & related	5.68	153.6	155.1	156.5	159.6	161.5	163.3	150.5	151.2	153.9	162.8	167.1	170.0
Computer and office	1.55	349.9	358.6	366.5	376.6	388.9	402.5	339.7	341.7	359.5	391.3	414.1	429.6
Industrial	4.49	127.5	130.3	129.3	129.0	131.1	133.4	128.6	128.6	128.7	132.3	129.0	134.9
Transit	2.30	113.1	110.1	112.1	113.5	114.3	119.2	116.7	119.5	118.2	118.9	100.0	117.9
Autos and trucks	1.13	118.3	110.0	111.7	112.0	110.6	116.8	123.4	128.5	123.0	121.2	79.2	117.8
Other	1.33	125.1	128.8	128.2	129.2	129.2	131.1	126.5	128.8	128.1	132.1	120.4	134.6
Defense and space equipment	2.31	75.6	75.2	75.6	76.1	74.9	75.3	75.9	75.5	75.1	75.6	73.5	74.3
Oil and gas well drilling	.64	153.4	152.5	154.2	161.4	149.6	146.8	140.4	140.8	143.6	150.4	148.8	150.9
Manufactured homes	.23	160.9	168.0	166.4	163.1	166.3	166.3	163.0	176.2	170.2	176.5	150.8	181.3
Intermediate products	14.78	112.1	112.0	112.2	111.7	111.3	111.5	109.1	109.2	109.6	114.5	114.5	117.0
Construction supplies	5.72	121.8	120.1	120.6	120.3	118.8	119.2	116.7	119.7	121.5	126.5	121.5	124.7
Business supplies	9.06	106.5	107.2	107.3	106.6	106.9	106.9	104.6	103.0	102.7	107.5	110.4	112.4
Materials	40.08	124.5	125.5	125.2	125.9	127.0	127.8	125.7	125.9	125.0	128.0	123.8	129.0
Durable	23.04	140.2	141.7	141.7	143.3	144.4	146.6	142.0	142.5	142.4	146.4	138.6	147.7
Consumer parts	4.34	129.8	130.5	127.2	130.2	129.8	132.3	138.4	136.7	133.1	138.6	107.4	134.2
Equipment parts	8.63	175.6	178.1	180.4	183.2	186.7	190.0	176.1	177.1	178.8	184.4	184.3	189.3
Other	10.08	120.0	121.0	121.0	121.2	121.4	122.8	119.8	121.0	120.9	123.3	120.3	124.8
Basic metals	3.33	116.4	116.7	118.4	118.8	117.7	120.0	118.6	119.2	118.8	119.2	114.0	117.8
Nondurable	8.92	110.6	111.3	109.8	109.9	111.1	110.7	110.8	113.9	109.9	111.4	109.0	111.5
Textile	.96	104.9	109.5	105.4	107.7	108.5	107.9	107.0	113.5	110.0	109.9	99.9	110.4
Paper	1.61	113.8	114.4	114.8	111.1	116.2	115.5	113.9	115.2	113.6	112.9	114.2	116.6
Chemical	4.39	111.2	111.7	109.7	109.6	110.7	110.1	111.8	114.6	110.3	110.8	110.0	110.1
Other	1.96	108.4	107.8	107.4	109.7	108.3	109.0	107.1	110.5	105.3	111.2	106.0	110.4
Energy	8.12	103.5	103.8	104.1	103.6	104.4	103.4	104.4	100.9	101.7	104.1	105.5	105.2
Primary	5.22	102.3	101.7	102.5	101.7	103.5	102.3	103.5	100.1	101.4	103.1	103.0	102.3
Converted fuel	2.90	105.9	107.6	107.0	107.1	106.2	105.7	106.1	102.6	102.2	106.0	110.1	110.6
SPECIAL AGGREGATES													
Total excluding:													
Autos and trucks	97.48	118.5	119.3	119.4	119.8	120.4	121.1	118.0	117.8	117.5	121.6	119.8	124.2
Motor vehicles and parts	95.20	118.3	119.0	119.3	119.5	120.2	120.8	117.5	117.3	117.2	121.1	120.3	123.9
Computers	97.55	116.0	116.4	116.5	116.8	117.3	118.0	115.8	115.6	115.1	118.7	115.6	120.8
Computers and semiconductors	93.68	112.1	112.4	112.4	112.6	112.9	113.5	111.8	111.6	111.0	114.5	111.3	116.4
Consumer goods excluding:													
Autos and trucks	26.76	110.7	111.1	111.5	111.3	112.0	112.2	109.4	107.9	107.6	112.2	112.5	117.0
Energy	24.65	112.7	111.9	112.4	112.6	112.9	113.7	110.0	110.8	111.4	116.3	112.5	120.0
Business equipment excluding:													
Autos and trucks	12.67	135.9	138.0	138.5	140.1	141.9	144.2	135.5	136.2	137.5	143.2	142.0	147.3
Computer and office equipment	12.26	120.7	121.5	121.7	122.7	123.7	125.8	121.3	122.4	122.1	125.7	119.8	127.5
Materials excluding:													
Energy	31.96	131.0	132.2	131.8	132.8	134.0	135.3	132.3	133.6	132.2	135.4	129.4	136.3

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS

Percent change

Item	1995 Q4 to 1996 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Aug. 96 to Aug. 97
		1996 Q3	1996 Q4	1997 Q1	1997 Q2	1997 May	1997 June	1997 July	1997 Aug	1997 May	1997 June	1997 July	1997 Aug	
Total index	3.9	3.3	4.5	4.4	4.3	.1	.3	.4	.7	-.3	3.3	-2.4	4.5	4.7
Products, total	3.8	3.1	4.8	3.6	3.8	.4	.2	.2	.8	.0	3.9	-1.8	4.7	4.4
Final products	4.1	2.8	4.8	3.9	5.0	.4	.4	.3	1.0	-.1	3.8	-2.4	5.6	5.4
Consumer goods	2.5	.8	5.6	-.4	2.1	.4	-.1	.3	.6	-.5	4.1	-1.7	5.7	3.1
Durable	2.4	2.6	-5.0	8.2	-1.8	1.2	1.6	-1.1	2.1	-2.3	2.9	-13.4	13.3	2.9
Automotive products	.9	5.9	-11.7	17.8	-12.8	1.6	1.6	-4.3	6.2	-3.0	1.4	-25.5	29.8	1.4
Autos and trucks	.5	11.4	-20.9	23.6	-23.4	2.3	2.0	-6.9	11.5	-3.2	-.1	-41.9	64.3	-.7
Autos	-3.8	12.7	-40.4	16.9	-17.3	1.4	-2.4	2.7	6.5	-2.9	-4.7	-35.7	56.5	-5.1
Trucks	7.3	13.1	3.9	29.7	-28.4	3.0	6.0	-14.9	16.6	-3.6	4.1	-47.2	72.4	3.9
Auto parts and allied goods	1.3	-1.4	3.3	10.1	4.1	.7	1.1	-1.1	.0	-2.7	3.6	-4.3	2.7	4.6
Other durable goods	3.4	.3	-.1	1.9	6.7	.9	1.6	1.1	-.6	-1.7	4.0	-4.9	4.3	4.0
Appliances and electronics	10.5	7.1	2.5	-.1	9.8	1.2	3.2	3.4	.3	-.9	7.2	-2.4	1.8	10.1
Appliances and air cond.	1.5	6.2	-14.7	6.4	-2.8	-1.7	6.7	2.5	-1.5	-9.1	8.5	-8.5	-6.0	.8
Home electronics	18.6	8.5	19.0	-5.1	21.0	3.5	.6	4.2	1.8	6.5	6.2	3.1	8.0	18.6
Carpeting and furniture	.3	-8.5	-.1	-4.9	13.0	2.8	2.2	-3.4	.9	-4.6	8.2	-8.5	8.1	.1
Miscellaneous	-.7	-.7	-2.1	7.3	1.3	-.4	.0	1.8	-1.9	-.8	-.6	-5.0	4.3	1.3
Nondurable	2.5	.3	8.6	-2.6	3.1	.3	-.5	.7	.3	.0	4.4	1.4	4.0	3.2
Nonenergy	2.5	2.8	7.9	-.4	.9	.2	-.3	.7	.3	1.4	4.9	-.2	4.9	3.3
Foods and tobacco	2.3	.8	6.1	2.9	-2.5	-.2	-.5	.9	.3	.7	5.3	-1.8	7.0	2.7
Clothing	-2.7	-2.3	-.7	-4.6	2.0	.4	-.5	-.4	.0	2.9	3.6	-5.6	5.3	-1.5
Chemical products	5.3	7.8	17.9	-2.8	4.0	.6	-.6	.7	.2	4.1	7.5	4.9	2.0	6.2
Paper products	2.8	5.7	5.0	-4.9	7.4	.8	1.1	.7	.9	-1.0	.6	.5	2.8	4.3
Energy products	2.5	-12.4	12.7	-13.8	16.4	.4	-1.7	.5	.0	-8.1	.9	11.6	-1.5	2.6
Fuels	3.3	-.2	2.7	-2.7	18.8	1.6	.0	-1.3	2.3	4.3	.7	-1.9	1.7	4.9
Utilities	2.2	-17.3	17.5	-18.3	15.4	-.1	-2.4	1.3	-1.0	-14.4	1.0	20.0	-3.2	1.5
Equipment, total	6.8	6.0	3.4	11.3	9.8	.4	1.1	.4	1.6	.4	3.3	-3.4	5.5	9.2
Business equipment	8.0	8.1	5.6	11.6	9.1	.4	1.0	1.1	1.9	.5	3.6	-3.5	6.1	11.0
Information processing & related	10.8	9.5	7.5	12.0	14.4	.9	2.0	1.2	1.1	1.8	5.8	2.7	1.7	13.0
Computer and office	38.9	44.4	22.1	26.8	31.7	2.2	2.8	3.3	3.5	5.2	8.8	5.8	3.7	31.4
Industrial	-.2	-.1	1.1	2.6	5.3	-.7	-.2	1.6	1.8	.1	2.8	-2.5	4.6	5.3
Transit	21.5	22.2	6.2	26.6	1.1	1.8	1.2	.7	4.3	-1.0	.6	-15.9	17.8	15.6
Autos and trucks	-1.9	8.9	-25.6	19.1	-21.2	1.6	.2	-1.3	5.7	-4.3	-1.5	-34.7	48.8	-3.3
Other	3.6	6.4	12.3	15.2	15.1	-.4	.7	.0	1.5	-.6	3.1	-8.8	11.7	12.9
Defense and space equipment	-1.2	1.8	-6.9	-6.1	2.2	.4	.7	-1.6	.6	-.5	.6	-2.7	1.0	-3.3
Oil and gas well drilling	14.0	-16.1	2.5	84.7	47.2	1.1	4.7	-7.3	-1.9	1.9	4.8	-1.1	1.4	19.7
Manufactured homes	.4	-2.0	-18.5	8.3	14.7	-1.0	-1.9	1.9	.0	-3.4	3.7	-14.6	20.2	-.7
Intermediate products	3.0	4.1	4.8	2.8	.1	.2	-.5	-.3	.1	.4	4.5	.0	2.1	1.4
Construction supplies	5.7	9.3	-.4	3.0	2.4	.4	-.2	-1.2	.4	1.5	4.2	-4.0	2.7	.1
Business supplies	1.3	.8	8.2	2.7	-1.3	.1	-.6	.3	.0	-.4	4.7	2.7	1.8	2.2
Materials	4.0	3.6	4.1	5.6	5.1	-.2	.6	.9	.7	-.7	2.4	-3.3	4.2	5.2
Durable	5.5	6.2	3.9	7.6	8.8	.1	1.1	.8	1.5	-.1	2.8	-5.3	6.6	7.6
Consumer parts	.8	2.2	-6.5	5.2	-3.8	-2.6	2.3	-.3	1.9	-2.6	4.1	-22.5	24.9	-1.2
Equipment parts	11.2	10.6	10.9	18.0	19.9	1.3	1.5	1.9	1.8	1.0	3.1	-.1	2.7	17.5
Other	2.8	4.2	2.7	.1	4.7	.0	.1	.2	1.2	.0	2.0	-2.5	3.7	3.1
Basic metals	2.6	5.2	7.2	.5	7.2	1.4	.3	-.9	1.9	-.4	.4	-4.4	3.3	5.6
Nondurable	2.8	4.2	6.3	6.2	.3	-1.3	.0	1.1	-.3	-3.5	1.3	-2.1	2.3	3.9
Textile	1.1	8.2	-1.8	-4.1	3.9	-3.8	2.2	.7	-.6	-3.1	-.1	-9.1	10.5	.4
Paper	2.5	7.3	9.1	8.9	2.2	.4	-3.2	4.5	-.6	-1.4	-.6	1.2	2.1	6.8
Chemical	4.5	6.4	10.7	7.9	-2.9	-1.8	-.1	1.0	-.5	-3.8	.5	-.7	.0	3.7
Other	.1	-4.2	-1.4	5.4	4.7	-.5	2.2	-1.3	.6	-4.7	5.6	-4.7	4.2	4.1
Energy	1.0	-4.1	2.0	-.6	.2	.3	-.5	.8	-.9	.7	2.4	1.4	-.2	-.5
Primary	-.1	-4.9	-1.1	.6	-.9	.8	-.8	1.7	-1.2	1.3	1.6	.0	-.7	-.9
Converted fuel	2.8	-2.8	7.9	-2.8	2.2	-.6	.1	-.9	-.4	-.4	3.8	3.8	.5	.3
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	4.0	3.1	5.3	4.0	5.1	.1	.3	.6	.5	-.2	3.4	-1.5	3.7	4.9
Motor vehicles and parts	4.2	3.3	5.6	4.0	5.3	.2	.2	.6	.5	-.1	3.3	-.6	3.0	5.0
Computers	3.1	2.4	4.0	3.9	3.6	.1	.3	.4	.7	-.5	3.1	-2.6	4.6	4.0
Computers and semiconductors	2.6	1.9	3.5	2.7	2.4	.0	.1	.2	.6	-.5	3.1	-2.8	4.6	3.0
Consumer goods excluding:														
Autos and trucks	2.6	.2	7.2	-1.5	3.6	.4	-.2	.6	.2	-.3	4.3	.3	4.0	3.4
Energy	2.5	2.8	4.6	1.6	.2	.4	.1	.3	.7	.5	4.4	-3.3	6.7	3.2
Business equipment excluding:														
Autos and trucks	8.9	8.0	9.1	11.0	12.2	.3	1.1	1.3	1.6	.9	4.1	-.8	3.7	12.3
Computer and office equipment	4.4	3.9	3.6	9.6	6.2	.2	.8	.8	1.7	-.2	2.9	-4.7	6.5	8.4
Materials excluding:														
Energy	4.7	5.6	4.6	7.2	6.4	-.3	.8	.9	1.0	-1.0	2.4	-4.4	5.4	6.6

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

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Item	SIC	1996 IP Proportion ¹	Index, 1992=100											
			Seasonally Adjusted						Not seasonally adjusted					
			1997 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p	1997 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total index		100.00	118.8	119.3	119.5	119.9	120.4	121.3	118.5	118.4	118.0	121.9	119.0	124.4
Manufacturing		86.34	120.6	120.9	121.0	121.6	122.2	123.4	119.6	120.7	120.6	124.7	120.5	126.9
Primary processing		27.72	115.6	115.6	115.8	115.7	116.0	116.7	114.8	116.5	115.8	118.0	114.2	118.3
Advanced processing		58.62	123.0	123.5	123.6	124.5	125.2	126.7	122.0	122.7	123.0	127.9	123.5	131.2
Durable		46.79	131.7	132.3	132.7	134.1	134.7	136.8	132.7	133.4	133.2	137.3	129.8	138.5
Lumber and products	24	2.06	113.3	113.6	114.0	114.3	113.4	113.6	111.4	114.0	112.6	117.9	111.7	117.9
Furniture and fixtures	25	1.30	111.0	112.7	113.9	114.5	113.3	114.3	109.7	110.3	110.7	115.4	112.3	121.8
Stone, clay, and glass products	32	2.12	113.5	113.8	112.8	113.2	113.6	113.9	110.2	113.7	114.0	117.2	114.5	118.7
Primary metals	33	3.52	121.3	120.2	123.4	123.4	122.0	124.7	123.3	124.6	124.2	123.9	116.4	122.0
Iron and steel	331,2	1.88	118.7	119.3	123.6	120.3	120.8	123.3	121.0	124.9	124.1	121.4	116.4	119.8
Raw steel		.09	114.2	115.5	115.8	115.1	115.4	118.5	117.3	119.1	115.7	115.1	110.6	114.4
Nonferrous	333-6,9	1.64	124.2	121.3	123.1	126.9	123.3	126.3	126.0	124.2	124.2	126.8	116.4	124.6
Fabricated metal products	34	5.28	120.4	120.8	121.1	120.7	121.0	121.8	119.6	118.3	119.8	122.8	120.0	124.9
Industrial machinery and equipment	35	9.51	167.4	171.3	170.5	171.9	175.3	178.4	169.1	170.2	170.3	177.8	174.6	181.5
Computer and office equip.	357	2.45	354.7	363.8	371.8	382.0	394.4	408.2	344.4	346.6	364.7	396.9	420.1	435.8
Electrical machinery	36	8.58	175.2	176.7	178.1	181.7	185.5	187.4	175.0	175.5	176.4	183.0	182.7	187.7
Semiconductors	3672-9	3.87	302.7	308.1	312.8	321.2	331.8	339.5	304.9	307.0	310.8	323.1	325.5	336.0
Transportation equipment	37	8.41	111.9	110.6	110.2	112.8	111.3	115.7	117.1	118.2	115.8	118.4	93.8	115.8
Motor vehicles and parts	371	4.80	128.9	125.3	123.7	127.6	123.1	130.8	138.9	140.2	134.8	138.7	87.8	132.9
Autos and light trucks		2.29	129.5	119.1	121.6	123.1	116.9	129.1	136.9	139.2	134.8	133.5	79.1	128.7
Aerospace and misc.	372-6,9	3.62	94.8	95.5	96.4	97.7	98.9	100.3	95.7	96.5	96.9	98.3	97.2	98.5
Instruments	38	4.72	104.7	104.4	105.2	105.8	105.3	106.1	103.4	103.1	103.6	107.3	106.8	108.3
Miscellaneous	39	1.29	116.3	116.9	117.0	117.5	118.8	118.5	115.7	116.0	116.3	117.8	113.6	118.9
Nondurable		39.55	108.7	108.7	108.7	108.4	109.0	109.3	105.9	107.4	107.3	111.3	110.4	114.6
Foods	20	9.37	109.2	108.3	108.1	107.9	108.6	108.7	103.7	104.6	106.0	110.2	110.9	115.7
Tobacco products	21	1.16	106.9	105.5	104.2	102.8	104.2	106.0	105.8	108.6	100.3	114.5	89.3	116.9
Textile mill products	22	1.57	108.2	108.6	107.3	109.0	108.8	108.8	107.1	113.3	110.7	115.5	104.6	112.8
Apparel products	23	1.80	96.3	96.1	96.4	96.6	96.1	95.2	95.5	94.5	96.3	98.7	94.1	98.3
Paper and products	26	3.29	112.1	112.2	112.8	111.4	114.7	114.3	111.8	114.4	110.8	112.9	112.6	115.5
Printing and publishing	27	6.44	99.7	99.6	99.8	99.3	99.5	100.0	96.8	97.4	96.8	101.1	103.8	106.5
Chemicals and products	28	10.17	112.0	113.3	112.7	112.3	113.2	113.2	109.9	111.7	111.7	115.7	117.5	119.0
Petroleum products	29	1.75	108.1	110.7	112.1	111.3	110.1	111.4	101.9	107.6	113.6	116.0	115.0	116.1
Rubber and plastics products	30	3.78	124.0	122.3	123.4	124.0	123.7	125.3	123.9	122.8	123.2	126.2	119.9	126.1
Leather and products	31	.20	78.4	78.8	77.0	75.5	74.9	75.6	78.0	78.5	77.0	77.6	71.0	77.0
Mining		5.59	107.5	106.0	108.1	107.4	106.8	105.8	105.1	105.0	107.3	107.9	106.1	107.6
Metal mining	10	.42	104.8	103.5	104.2	105.6	104.3	104.3	104.8	102.7	104.8	108.7	105.3	105.3
Coal mining	12	.87	105.2	104.1	115.9	107.4	114.1	109.8	112.2	103.9	109.9	106.9	104.3	111.6
Oil and gas extraction	13	3.71	105.4	104.5	105.0	105.5	103.8	103.3	103.7	103.3	103.5	103.6	102.6	102.7
Stone and earth minerals	14	.60	128.8	122.3	121.3	123.0	118.9	119.1	104.3	121.2	133.1	140.0	135.9	139.0
Utilities		8.07	109.9	113.6	112.4	112.1	112.7	111.4	117.2	104.1	99.1	103.8	112.9	110.4
Electric	491,3pt	6.26	110.3	113.6	110.5	111.1	112.6	111.0	106.3	101.5	102.6	114.7	127.2	124.3
Gas	492,3pt	1.81	108.7	113.2	119.0	115.6	112.7	112.7	155.2	112.6	86.6	65.6	63.0	61.9
SPECIAL AGGREGATES														
Manufacturing excluding:														
Motor vehicles and parts		81.54	120.0	120.6	120.8	121.2	122.1	122.9	118.5	119.6	119.8	123.8	122.1	126.5
Computer and office equipment		83.89	117.3	117.5	117.6	118.0	118.5	119.6	116.5	117.5	117.2	121.0	116.5	122.8
Computers and semiconductors		80.02	112.7	112.8	112.8	113.1	113.4	114.3	111.8	112.9	112.5	116.0	111.5	117.7
Memo: Motor vehicle assemblies²														
Total			12.3	11.3	11.5	11.7	11.0	12.3	12.4	13.1	12.7	12.0	7.8	11.7
Autos			6.1	5.7	5.8	5.7	5.8	6.1	6.1	6.7	6.5	5.9	4.1	5.8
Trucks			6.2	5.6	5.7	6.0	5.2	6.2	6.2	6.5	6.2	6.2	3.6	5.8
Light			5.9	5.3	5.4	5.8	4.9	6.0	6.0	6.1	5.9	5.9	3.4	5.6
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. The IP proportion data are estimates of the Industries' relative contributions to overall IP growth in the following year.

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	1995 Q4 to 1996 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Aug. 96 to Aug. 97
			1996 Q3	Q4	1997 Q1	Q2 ^r	1997 May ^r	June ^r	July ^r	Aug. ^p	1997 May ^r	June ^r	July ^r	Aug. ^p	
Total index		3.9	3.3	4.5	4.4	4.3	.1	.3	.4	.7	-.3	3.3	-2.4	4.5	4.7
Manufacturing		4.1	5.0	4.3	5.3	4.1	.1	.4	.5	1.0	-.1	3.4	-3.4	5.4	5.3
Primary processing		2.9	5.4	2.3	3.0	3.6	.2	-.1	.2	.6	-.7	2.0	-3.3	3.6	3.2
Advanced processing		4.8	4.8	5.2	6.4	4.3	.1	.7	.6	1.2	.2	4.1	-3.4	6.2	6.3
Durable		5.7	6.0	2.8	8.2	7.5	.3	1.0	.4	1.6	-.1	3.1	-5.5	6.8	7.4
Lumber and products	24	2.7	-1.9	-1.3	4.2	10.0	.3	.3	-.7	.1	-1.2	4.8	-5.3	5.6	1.9
Furniture and fixtures	25	2.5	-2.7	7.1	-.5	12.8	1.1	.5	-1.1	.9	.3	4.3	-2.7	8.5	5.1
Stone, clay, and glass products	32	1.9	11.8	-5.0	4.9	1.3	-.9	.4	.3	.2	.3	2.8	-2.3	3.6	1.8
Primary metals	33	3.7	7.4	4.1	-.3	9.0	2.6	.0	-1.2	2.2	-.3	-.2	-6.0	4.8	5.4
Iron and steel	331,2	2.4	7.4	2.6	-1.1	9.8	3.6	-2.6	.4	2.1	-.6	-2.2	-4.1	2.9	4.3
Raw steel		-1.7	-.4	-7.9	6.8	10.0	.2	-.6	.3	2.7	-2.8	-.5	-3.9	3.4	4.3
Nonferrous	333-6,9	5.2	7.6	6.0	.7	8.2	1.5	3.1	-2.8	2.4	.0	2.0	-8.1	7.0	6.6
Fabricated metal products	34	2.7	3.1	.1	1.4	3.8	.2	-.3	.3	.7	1.3	2.5	-2.3	4.1	2.0
Industrial machinery and equipment	35	10.0	11.6	6.8	12.3	12.6	-.5	.8	1.9	1.8	.0	4.4	-1.8	3.9	11.8
Computer and office equip.	357	37.4	43.0	22.1	25.9	31.9	2.2	2.8	3.3	3.5	5.2	8.8	5.8	3.7	31.3
Electrical machinery	36	7.1	5.6	6.7	12.3	16.5	.8	2.0	2.1	1.0	.5	3.7	-.2	2.7	13.9
Semiconductors	3672-9	16.0	15.3	17.8	33.4	31.0	1.5	2.7	3.3	2.3	1.2	4.0	.7	3.2	29.3
Transportation equipment	37	6.5	7.6	-2.2	14.2	-2.1	-.3	2.3	-1.3	3.9	-2.0	2.2	-20.8	23.4	5.8
Motor vehicles and parts	371	-1.6	2.7	-15.2	14.1	-13.5	-1.3	3.1	-3.5	6.3	-3.9	2.9	-36.7	51.3	-1.4
Autos and light trucks		-.4	11.7	-24.8	22.4	-22.4	2.1	1.2	-5.1	10.5	-3.2	-.9	-40.7	62.7	-1.4
Aerospace and misc.	372-6,9	18.9	14.9	18.1	14.3	13.7	.9	1.3	1.3	1.4	.5	1.4	-1.1	1.3	15.9
Instruments	38	2.7	.3	2.9	2.7	3.6	.8	.6	-.5	.8	.4	3.6	-.5	1.5	3.1
Miscellaneous	39	3.2	1.9	5.9	7.0	2.0	.1	.4	1.1	-.2	.3	1.3	-3.6	4.7	4.9
Nondurable		2.3	3.7	6.0	2.0	.0	.0	-.3	.6	.3	.0	3.7	-.8	3.8	2.9
Foods	20	2.1	.9	6.0	3.6	-1.9	-.2	-.2	.7	.1	1.3	4.0	.6	4.4	3.0
Tobacco products	21	2.6	-4.5	9.1	-1.5	-5.7	-1.2	-1.3	1.3	1.7	-7.6	14.1	-22.0	30.9	1.8
Textile mill products	22	.5	5.4	-1.8	-.9	4.5	-1.2	1.5	-.2	.1	-2.2	4.4	-9.4	7.8	1.1
Apparel products	23	-2.8	-2.9	-3.6	-5.4	1.2	.3	.2	-.6	-.8	1.9	2.6	-4.7	4.5	-3.3
Paper and products	26	1.7	4.2	2.8	5.2	3.4	.6	-1.3	3.0	-.3	-3.1	1.9	-.3	2.6	5.7
Printing and publishing	27	.4	3.8	6.9	1.6	-2.6	.1	-.5	.2	.5	-.6	4.4	2.7	2.6	2.1
Chemicals and products	28	5.0	6.9	12.3	1.8	-.4	-.5	-.3	.8	.0	.0	3.5	1.6	1.2	4.1
Petroleum products	29	3.5	2.4	3.9	1.4	12.8	1.3	-.7	-1.1	1.2	5.5	2.1	-.8	1.0	3.4
Rubber and plastics products	30	2.5	7.8	.3	2.7	1.6	.9	.4	-.2	1.2	.3	2.4	-5.0	5.2	2.7
Leather and products	31	-4.7	-6.2	-5.1	-2.6	-4.8	-2.3	-1.9	-.9	1.0	-1.9	.8	-8.5	8.3	-4.9
Mining		3.4	.8	.5	7.8	5.4	1.9	-.6	-.5	-.9	2.1	.6	-1.6	1.4	1.3
Metal mining	10	1.7	14.5	2.7	2.4	-3.6	.6	1.4	-1.3	.1	2.0	3.7	-3.1	.0	.3
Coal mining	12	4.1	-4.6	9.6	-5.6	8.0	11.4	-7.4	6.2	-3.7	5.8	-2.8	-2.4	7.0	.2
Oil and gas extraction	13	3.0	-.5	-2.1	11.7	7.5	.4	.5	-1.6	-.5	.1	.2	-1.0	.1	2.2
Stone and earth minerals	14	6.9	7.5	2.6	9.0	-4.7	-.8	1.4	-3.3	.1	9.9	5.2	-2.9	2.3	-2.1
Utilities		1.4	-12.0	9.5	-7.1	6.5	-1.0	-.3	.5	-1.1	-4.8	4.8	8.7	-2.2	.5
Electric	491,3pt	.9	-10.8	5.9	-3.4	1.1	-2.8	.6	1.4	-1.4	1.0	11.8	10.9	-2.3	-.4
Gas	492,3pt	3.1	-16.1	23.1	-19.0	27.7	5.1	-2.9	-2.4	.0	-23.0	-24.3	-4.0	-1.8	3.9
SPECIAL AGGREGATES															
Manufacturing excluding:															
Motor vehicles and parts		4.5	5.1	5.6	4.8	5.2	.2	.3	.7	.7	.1	3.4	-1.4	3.6	5.7
Computer and office equipment		3.3	4.0	3.8	4.7	3.2	.1	.4	.4	.9	-.3	3.2	-3.7	5.4	4.6
Computers and semiconductors		2.7	3.4	3.1	3.4	1.9	.0	.2	.3	.9	-.3	3.1	-3.9	5.5	3.4

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	1996 Proportion	1967- 1996 Ave.	1973 High	1978- 1980 High	1982 Low	1988- 1989 High	1990- 1991 Low	1996 Aug.	1997 Mar.	Apr.	May ^f	June ^f	July ^f	Aug. ^p
Total industry		100.00	82.1	89.2	87.3	71.1	85.3	78.1	83.2	83.6	83.6	83.5	83.5	83.6	83.9
Manufacturing		87.43	81.2	88.5	86.9	69.0	85.7	76.6	82.3	82.7	82.6	82.4	82.5	82.6	83.1
Primary processing		26.61	82.3	91.2	88.1	66.2	88.9	77.8	86.5	87.3	87.1	87.1	86.9	86.9	87.3
Advanced processing		60.81	80.6	87.2	86.7	70.4	84.2	76.1	80.4	80.7	80.6	80.3	80.6	80.7	81.3
Durable		47.70	79.5	89.2	87.7	63.9	84.5	73.2	82.5	82.3	82.2	82.0	82.4	82.3	83.2
Lumber and products	24	1.97	82.7	88.7	87.9	60.8	93.6	75.5	86.3	86.3	86.3	86.3	86.3	85.5	85.3
Furniture and fixtures	25	1.32	81.7	96.8	85.5	68.9	86.6	72.5	80.7	81.3	82.4	83.1	83.4	82.3	82.9
Stone, clay, and glass products	32	2.20	78.0	88.8	88.0	64.3	83.6	69.7	79.7	79.9	80.0	79.1	79.2	79.3	79.4
Primary metals	33	3.22	80.8	100.2	94.2	45.1	92.7	73.7	91.2	91.5	90.5	92.5	92.3	91.0	92.7
Iron and steel	331,2	1.75	80.6	105.8	95.8	37.0	95.2	71.8	89.6	87.7	87.9	90.8	88.2	88.3	89.8
Raw steel		.08	80.6	102.7	95.8	35.2	92.7	71.5	92.3	91.5	92.0	91.7	90.6	90.3	92.2
Nonferrous	333-6,9	1.46	81.3	90.8	91.1	60.1	89.3	74.2	93.2	96.3	93.7	94.8	97.5	94.5	96.5
Primary copper	3331	.08	74.1	93.4	81.5	42.1	86.3	73.6	77.6	93.5	94.8	90.3	101.3	99.4	
Primary aluminum	3334	.10	88.5	95.7	97.6	58.6	100.4	97.3	85.8	86.4	86.3	85.7	86.3	85.9	86.3
Fabricated metal products	34	5.18	78.2	87.8	83.9	63.7	82.0	72.2	84.8	84.1	84.2	84.2	83.8	83.8	84.2
Industrial machinery and equipment	35	8.92	81.5	96.0	93.2	64.0	85.4	72.4	90.5	88.8	90.0	88.7	88.5	89.3	90.0
Computer and office equip.	357	2.37	81.5	90.9	92.6	65.5	86.9	66.9	92.9	87.8	87.6	87.0	87.0	87.3	87.9
Electrical machinery	36	8.77	81.1	89.2	89.4	71.6	84.0	75.1	82.0	80.1	79.8	79.4	80.0	80.8	80.6
Transportation equipment	37	9.77	75.7	86.1	84.8	57.2	85.8	68.5	73.9	75.2	74.1	73.8	75.4	74.3	77.1
Motor vehicles and parts	371	5.56	76.4	93.4	95.0	45.5	89.1	55.9	75.4	72.3	70.2	69.2	71.3	68.7	73.0
Autos and light trucks ¹		2.49			94.6	40.6	92.2	53.3	81.4	79.7	73.2	74.6	75.3	71.4	78.7
Aerospace and misc.	372-6,9	4.22	75.3	78.4	81.9	66.6	87.3	79.2	72.0	79.1	79.5	80.0	80.9	81.7	82.6
Instruments	38	4.98	81.9	89.9	92.7	78.4	81.4	77.2	79.3	80.5	80.2	80.9	81.3	80.9	81.5
Miscellaneous	39	1.36	75.3	82.9	79.4	65.4	79.0	71.7	78.1	79.8	80.1	80.0	80.3	81.0	80.7
Nondurable		39.73	83.4	87.8	87.5	76.4	87.3	80.7	82.0	83.1	83.0	82.9	82.6	82.9	83.0
Foods	20	9.48	83.0	86.0	84.6	79.1	85.4	82.7	80.4	82.3	81.5	81.3	81.0	81.4	81.4
Textile mill products	22	1.60	85.5	91.4	91.2	72.3	90.4	77.7	82.7	82.4	82.7	81.7	82.9	82.7	82.7
Apparel products	23	1.99	81.1	84.2	87.5	77.5	85.1	75.5	75.3	73.4	73.2	73.5	73.6	73.2	72.6
Paper and products	26	3.17	89.3	97.1	96.1	80.6	93.5	85.0	88.0	90.6	90.6	91.1	89.8	92.4	92.0
Pulp and paper	261-3	1.26	92.4	97.2	98.3	82.0	98.0	89.9	91.7	93.0	92.6	92.7	90.6	94.5	
Printing and publishing	27	6.55	85.9	89.7	93.9	82.0	91.7	79.6	80.5	82.2	82.2	82.4	82.0	82.2	82.7
Chemicals and products	28	10.69	79.6	87.6	84.6	69.9	86.2	79.3	78.1	79.0	79.6	79.0	78.6	78.9	78.8
Plastics materials	2821	.78	86.6	102.0	90.9	63.4	97.0	74.8	94.9	93.0	93.3	92.5	92.0		
Synthetic fibers	2823,4	.36	85.1	93.8	98.6	64.4	99.7	77.6	87.6	88.5	95.0	83.3	82.6	91.6	
Petroleum products	29	1.50	86.3	96.7	90.0	66.8	88.5	85.1	94.8	94.9	97.0	98.2	97.4	96.2	97.3
Rubber and plastics products	30	3.43	84.9	95.5	91.2	72.7	89.6	77.4	92.1	92.6	91.1	91.6	91.8	91.4	92.3
Leather and products	31	.24	81.2	81.3	92.1	75.8	83.3	76.1	71.1	70.9	71.5	70.0	68.8	68.4	69.2
Mining		5.29	87.5	94.3	96.0	80.3	86.8	86.1	91.9	94.3	92.9	94.6	93.9	93.2	92.2
Metal mining	10	.42	78.5	89.6	87.9	44.4	89.4	79.9	87.6	88.1	87.0	87.5	88.6	87.4	87.3
Coal mining	12	.85	86.9	91.0	99.4	76.6	91.5	83.4	88.7	84.5	83.5	92.9	86.0	91.3	87.8
Oil and gas extraction	13	3.50	88.5	96.9	97.3	82.3	86.6	87.5	92.5	96.5	95.5	95.8	96.1	94.4	93.8
Oil and gas well drilling	138	.65	72.8	93.0	104.3	50.9	60.6	53.7	82.9	104.9	103.6	104.1	108.2	99.7	97.2
Stone and earth minerals	14	.52	85.4	95.0	92.7	63.3	89.1	79.4	96.7	101.1	95.8	94.9	96.0	92.7	92.6
Utilities		7.28	87.2	96.2	89.1	75.9	92.6	83.4	88.5	86.8	89.6	88.5	88.2	88.5	87.4
Electric	491,3pt	5.59	89.1	99.0	88.2	78.9	95.0	87.1	90.2	88.1	90.6	88.0	88.4	89.4	88.0
Gas	492,3pt	1.69	82.4	94.1	93.7	69.1	85.0	67.1	82.5	82.2	85.6	90.0	87.3	85.2	85.1

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

		Percent change								Capacity indexes						
		Annual rate			December to December					Percent of 1992 output						
		1967- 1997 Ave.	1967- 1975 Ave.	1975- 1997 Ave.	1993	1994	1995	1996	1997 ^p	1996 Aug.	1997 Mar.	Apr.	May	June	July	Aug.
Item	SIC															
Total industry		2.8	3.8	2.4	1.8	2.9	3.4	3.7	4.0	139.2	142.2	142.7	143.2	143.6	144.1	144.6
Manufacturing		3.1	4.0	2.8	2.0	3.2	3.8	4.1	4.3	142.5	145.8	146.4	146.9	147.4	147.9	148.5
Primary processing		2.2	4.1	1.4	1.2	2.1	2.1	2.4	2.4	130.7	132.4	132.7	132.9	133.2	133.5	133.7
Advanced processing		3.6	4.0	3.5	2.4	3.8	4.6	4.9	5.3	148.2	152.5	153.2	153.8	154.5	155.2	155.8
Durable		3.5	3.7	3.4	2.6	4.2	5.7	6.2	6.6	154.5	160.1	160.9	161.8	162.7	163.6	164.5
Lumber and products	24	1.8	2.9	1.4	.4	2.6	2.1	2.9	3.2	129.1	131.3	131.7	132.0	132.4	132.7	133.1
Furniture and fixtures	25	2.8	4.5	2.1	1.4	1.4	1.3	2.4	2.3	134.7	136.5	136.8	137.1	137.3	137.6	137.8
Stone, clay, and glass products	32	1.4	2.5	.9	.1	1.0	1.3	2.3	2.4	140.2	142.0	142.3	142.6	142.9	143.2	143.5
Primary metals	33	.3	1.7	-.3	-.1	1.5	1.8	3.5	3.5	129.8	132.5	132.9	133.3	133.7	134.1	134.5
Iron and steel	331,2	-.4	.7	-.8	-.8	3.1	1.8	4.8	3.6	131.9	135.3	135.7	136.0	136.4	136.8	137.2
Raw steel		-.8	.3	-1.2	-4.3	1.4	3.3	.9	6.6	123.1	124.8	125.5	126.3	127.0	127.8	128.5
Nonferrous	333-6,9	1.5	3.8	.6	.9	-.4	1.8	1.9	3.4	127.1	129.0	129.4	129.8	130.2	130.5	130.9
Primary copper	3331	.3	1.8	-.3	5.2	-1.1	2.5	-2.9	.7	128.4	126.7	126.9	127.0	127.1	127.2	127.3
Primary aluminum	3334	1.2	5.2	-.4	.5	.0	.0	.0	.0	103.7	103.7	103.7	103.7	103.7	103.7	103.7
Fabricated metal products	34	1.6	3.1	1.1	1.6	1.4	2.8	2.9	2.7	140.8	143.1	143.4	143.7	144.0	144.3	144.7
Industrial machinery and equipment	35	5.3	4.7	5.6	4.8	6.5	9.2	11.6	12.8	176.3	188.4	190.3	192.3	194.3	196.2	198.1
Computer and office equip.	357	20.4	12.0	24.0	19.4	23.1	29.5	36.7	39.8	334.6	403.8	415.3	427.1	439.3	451.7	464.6
Electrical machinery	36	7.4	5.9	8.1	8.3	12.0	17.0	16.5	15.5	200.6	218.9	221.5	224.2	227.0	229.6	232.4
Transportation equipment	37	2.6	3.0	2.4	.7	3.2	2.8	1.1	1.9	147.9	148.9	149.1	149.4	149.6	149.9	150.2
Motor vehicles and parts	371	3.3	4.4	2.8	3.0	7.9	7.1	3.0	1.3	176.1	178.4	178.6	178.7	178.9	179.1	179.3
Autos and light trucks ¹					-.2	6.2	5.7	1.5	2.2	160.9	162.5	162.8	163.1	163.4	163.7	164.1
Aerospace and misc.	372-6,9	1.5	1.1	1.6	-2.0	-2.1	-2.6	-1.4	2.5	120.2	119.9	120.2	120.5	120.8	121.1	121.4
Instruments	38	4.5	7.6	3.2	.5	.1	.0	.0	.5	129.9	130.0	130.1	130.1	130.2	130.2	130.3
Miscellaneous	39	2.1	4.4	1.2	1.5	1.4	1.4	1.4	1.7	144.5	145.8	146.0	146.2	146.4	146.6	146.8
Nondurable		2.7	4.3	2.0	1.3	1.9	1.6	1.7	1.6	129.6	130.8	130.9	131.1	131.3	131.5	131.6
Foods	20	2.4	3.0	2.1	1.8	2.0	2.1	1.9	1.8	131.2	132.6	132.8	133.0	133.2	133.4	133.6
Textile mill products	22	2.2	4.4	1.3	2.5	3.7	4.1	2.3	.5	130.1	131.3	131.4	131.4	131.5	131.5	131.6
Apparel products	23	1.2	2.3	.7	.5	.4	3.2	1.1	.0	130.8	131.3	131.2	131.2	131.2	131.2	131.2
Paper and products	26	2.7	3.9	2.2	2.3	1.4	2.0	1.5	1.0	122.9	123.7	123.8	123.9	124.0	124.1	124.2
Pulp and paper	261-3	2.4	2.9	2.2	1.8	1.9	3.0	2.2	1.6	119.0	120.3	120.4	120.6	120.7	120.9	121.1
Printing and publishing	27	2.5	3.0	2.3	-.9	.0	-.2	-.6	-.7	121.7	121.3	121.2	121.1	121.1	121.0	120.9
Chemicals and products	28	3.7	6.8	2.5	2.1	3.0	2.0	3.6	3.3	139.2	141.8	142.2	142.6	143.0	143.3	143.7
Plastics materials	2821	6.5	12.7	4.1	-1.6	7.5	5.4	7.1	5.8	131.8	136.8	137.4	138.1	138.7	139.4	140.0
Synthetic fibers	2823,4	3.9	9.7	1.6	.8	1.2	-.2	1.3	4.3	121.6	123.0	123.5	124.0	124.5	125.0	125.5
Petroleum products	29	1.5	4.2	.4	-.5	2.1	-.5	.4	1.0	113.7	114.0	114.1	114.2	114.3	114.4	114.5
Rubber and plastics products	30	5.1	8.4	3.8	3.2	4.4	2.0	1.6	2.9	132.4	134.0	134.3	134.7	135.0	135.4	135.7
Leather and products	31	-.3	-1.5	-3.8	-2.1	-1.7	-1.9	-1.4	-2.8	111.8	110.5	110.3	110.0	109.7	109.5	109.2
Mining		.1	-.1	.2	-.5	.8	-.6	-.3	1.6	113.7	113.9	114.1	114.3	114.4	114.6	114.8
Metal mining	10	1.3	.5	1.6	1.6	-1.8	1.2	1.0	1.0	118.7	119.0	119.1	119.1	119.2	119.3	119.5
Coal mining	12	2.3	2.4	2.3	1.6	4.5	-1.4	1.1	1.3	123.6	124.5	124.6	124.7	124.9	125.0	125.1
Oil and gas extraction	13	-.6	-1.0	-.4	-1.6	.0	-.9	-1.0	1.6	109.3	109.2	109.4	109.6	109.8	110.0	110.1
Oil and gas well drilling	138	.4	.8	.3	-6.7	-.9	-2.2	-4.2	6.3	147.9	146.3	147.2	148.2	149.1	150.1	151.0
Stone and earth minerals	14	1.1	2.6	.5	1.7	1.0	1.9	1.9	2.3	125.8	127.4	127.6	127.9	128.1	128.3	128.6
Utilities		2.8	6.1	1.5	.8	1.2	1.9	2.1	1.5	125.2	126.6	126.8	127.0	127.1	127.3	127.4
Electric	491,3pt	3.9	7.8	2.3	1.3	1.0	2.4	2.6	1.7	123.6	125.2	125.4	125.6	125.8	125.9	126.1
Gas	492,3pt	.3	2.3	-.5	.2	.4	.5	.8	.5	131.6	132.1	132.2	132.3	132.3	132.4	132.4

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																	
1985	.4	.9	.3	.2	.2	-.2	-.4	.6	.6	-.9	.6	.7	3.0	2.8	.3	1.4	1.6
1986	.6	-.7	-1.0	.8	-.2	-.3	.3	.3	-.1	.9	.5	.9	2.0	-1.7	.7	6.5	1.1
1987	-.6	1.2	.4	.4	.4	.9	.6	.1	-.1	1.3	.3	.6	4.3	6.7	5.6	6.9	4.6
1988	.1	.3	.0	.6	.1	.0	.7	.5	-.4	.3	.7	.5	3.1	3.0	3.8	3.6	4.4
1989	.5	-.8	.9	.3	-.6	-.2	-1.0	.4	-.2	-.5	.4	.5	3.8	.5	-4.4	.0	1.8
1990	-.5	.5	.5	-.6	.4	.0	-.1	.2	.1	-.5	-1.3	-.6	1.9	.8	.9	-5.7	-.2
1991	-.5	-.8	-.9	.3	.8	1.2	.1	.1	.9	-.1	-.1	-.6	-8.2	1.3	6.3	1.1	-2.0
1992	.0	.7	.8	.7	.4	-.3	.7	-.4	.5	.8	.6	.1	1.1	6.7	2.2	5.6	3.2
1993	.4	.5	.1	.3	-.6	.2	.3	-.2	1.0	.3	.5	.7	3.7	.8	1.7	5.8	3.4
1994	.3	.5	.7	.4	.6	.5	.5	.0	.1	.6	.6	.9	6.2	6.7	4.4	5.6	5.0
1995	.3	-.2	.1	-.3	.1	.2	.0	.8	.4	-.4	.2	.1	3.9	-.7	3.2	.8	3.3
1996	-.4	1.3	-.5	.9	.4	.6	.0	.3	.1	.2	.8	.4	1.6	6.2	3.3	4.5	2.8
1997	.1	.5	.4	.4	.1	.3	.4	.7					4.4	4.3			
Industrial Production																	
1985	86.9	87.6	87.8	88.0	88.2	88.0	87.6	88.1	88.6	87.9	88.4	89.0	87.4	88.0	88.1	88.4	88.0
1986	89.6	88.9	88.0	88.7	88.5	88.2	88.5	88.7	88.7	89.5	89.9	90.7	88.8	88.5	88.6	90.0	89.0
1987	90.2	91.2	91.5	91.9	92.3	93.1	93.7	93.8	93.7	94.9	95.2	95.8	91.0	92.5	93.7	95.3	93.1
1988	95.8	96.1	96.2	96.7	96.8	96.8	97.4	98.0	97.6	97.9	98.6	99.1	96.0	96.8	97.7	98.5	97.3
1989	99.7	98.9	99.8	100.1	99.5	99.3	98.3	98.7	98.5	98.1	98.5	98.9	99.5	99.6	98.5	98.5	99.0
1990	98.5	99.0	99.4	98.9	99.3	99.3	99.2	99.4	99.5	99.0	97.7	97.1	99.0	99.2	99.4	97.9	98.9
1991	96.7	95.9	95.0	95.3	96.0	97.2	97.2	97.4	98.3	98.2	98.1	97.4	95.8	96.2	97.6	97.9	96.9
1992	97.5	98.1	98.9	99.6	100.0	99.7	100.4	100.1	100.5	101.3	101.9	101.9	98.2	99.8	100.3	101.7	100.0
1993	102.3	102.8	102.8	103.2	102.6	102.8	103.1	102.8	103.9	104.1	104.6	105.4	102.6	102.8	103.3	104.7	103.4
1994	105.7	106.2	107.0	107.4	108.1	108.6	109.1	109.2	109.3	109.9	110.6	111.6	106.3	108.0	109.2	110.7	108.6
1995	111.9	111.6	111.7	111.4	111.5	111.7	111.7	112.6	113.0	112.5	112.7	112.8	111.8	111.6	112.4	112.7	112.1
1996	112.4	113.8	113.2	114.3	114.8	115.5	115.5	115.8	116.0	116.2	117.2	117.7	113.1	114.8	115.8	117.0	115.2
1997	117.8	118.4	118.8	119.3	119.5	119.9	120.4	121.3					118.3	119.6			
Capacity																	
1985	108.7	109.0	109.2	109.5	109.8	110.1	110.4	110.7	111.0	111.3	111.6	111.9	109.0	109.8	110.7	111.6	110.3
1986	112.2	112.3	112.5	112.7	112.8	113.0	113.1	113.3	113.4	113.5	113.7	113.8	112.3	112.8	113.3	113.7	113.0
1987	113.9	114.0	114.1	114.3	114.4	114.5	114.6	114.7	114.8	115.0	115.1	115.2	114.0	114.4	114.7	115.1	114.6
1988	115.3	115.5	115.6	115.7	115.8	115.9	116.0	116.2	116.3	116.4	116.5	116.7	115.5	115.8	116.2	116.5	116.0
1989	116.8	117.0	117.2	117.4	117.6	117.8	118.0	118.2	118.4	118.6	118.8	119.0	117.0	117.6	118.2	118.8	117.9
1990	119.2	119.3	119.5	119.7	119.9	120.0	120.2	120.4	120.6	120.8	121.0	121.2	119.3	119.9	120.4	121.0	120.1
1991	121.4	121.5	121.7	121.9	122.0	122.2	122.4	122.5	122.7	122.8	123.0	123.2	121.5	122.0	122.5	123.0	122.3
1992	123.3	123.6	123.8	124.0	124.2	124.4	124.6	124.7	124.9	125.1	125.3	125.5	123.6	124.2	124.7	125.3	124.4
1993	125.7	125.8	126.0	126.2	126.4	126.6	126.7	126.9	127.1	127.3	127.5	127.7	125.8	126.4	126.9	127.5	126.7
1994	128.0	128.3	128.6	128.9	129.2	129.5	129.8	130.1	130.5	130.8	131.1	131.4	128.3	129.2	130.1	131.1	129.7
1995	131.8	132.1	132.5	132.8	133.2	133.6	134.0	134.3	134.7	135.1	135.5	135.9	132.1	133.2	134.3	135.5	133.8
1996	136.3	136.7	137.1	137.5	137.9	138.4	138.8	139.2	139.6	140.0	140.5	140.9	136.7	137.9	139.2	140.5	138.6
1997	141.3	141.8	142.2	142.7	143.2	143.6	144.1	144.6					141.8	143.2			
Utilization																	
1985	79.9	80.4	80.4	80.3	80.3	79.9	79.4	79.6	79.9	79.0	79.2	79.5	80.2	80.2	79.6	79.2	79.8
1986	79.8	79.2	78.2	78.7	78.4	78.1	78.2	78.3	78.2	78.8	79.1	79.7	79.1	78.4	78.2	79.2	78.7
1987	79.1	80.0	80.2	80.5	80.7	81.3	81.8	81.7	81.6	82.6	82.7	83.1	79.8	80.8	81.7	82.8	81.3
1988	83.1	83.3	83.2	83.6	83.6	83.5	84.0	84.3	84.0	84.1	84.6	85.0	83.2	83.6	84.1	84.6	83.9
1989	85.3	84.5	85.1	85.2	84.6	84.3	83.3	83.5	83.2	82.7	82.9	83.2	85.0	84.7	83.3	82.9	84.0
1990	82.6	82.9	83.2	82.6	82.8	82.7	82.5	82.5	82.5	81.9	80.7	80.1	82.9	82.7	82.5	80.9	82.3
1991	79.6	78.9	78.1	78.2	78.7	79.5	79.5	79.5	80.1	79.9	79.7	79.1	78.9	78.8	79.7	79.6	79.2
1992	79.0	79.4	79.9	80.4	80.6	80.2	80.6	80.2	80.5	81.0	81.3	81.2	79.5	80.4	80.4	81.2	80.4
1993	81.4	81.7	81.6	81.7	81.2	81.2	81.3	81.0	81.7	81.8	82.1	82.5	81.6	81.4	81.3	82.1	81.6
1994	82.6	82.8	83.2	83.3	83.7	83.9	84.1	83.9	83.7	84.1	84.4	84.9	82.9	83.6	83.9	84.4	83.7
1995	84.9	84.5	84.3	83.9	83.7	83.6	83.4	83.8	83.9	83.3	83.2	83.0	84.6	83.7	83.7	83.2	83.8
1996	82.4	83.2	82.6	83.1	83.2	83.5	83.2	83.2	83.1	83.0	83.4	83.5	82.8	83.3	83.2	83.3	83.1
1997	83.3	83.5	83.6	83.6	83.5	83.5	83.6	83.9					83.5	83.5			

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																	
1985	.1	.6	.7	.2	.5	-.3	-.4	.9	.4	-.8	1.1	-.1	2.1	4.2	1.1	1.6	2.3
1986	1.5	-.5	-.9	1.4	-.1	-.3	.3	.6	.0	.8	.4	1.2	4.5	1.7	1.7	6.7	2.8
1987	-.8	1.6	.2	.5	.3	1.0	.7	-.2	.1	1.3	.5	.6	5.0	7.0	5.5	7.6	5.3
1988	-.2	.4	-.1	1.0	-.1	.0	.7	.3	.2	.2	1.0	.6	2.4	4.1	3.7	5.2	4.7
1989	.9	-1.2	.8	.1	-.7	.0	-1.1	.4	-.3	-.6	.4	.1	4.3	-.7	-4.5	-1.4	1.9
1990	-.2	.9	.3	-.8	.4	-.1	.0	.3	.0	-.6	-1.3	-.6	2.9	-.1	.8	-6.3	-.5
1991	-.9	-.7	-1.1	.3	.7	1.4	.2	.2	1.1	-.1	-.2	-.5	-9.7	1.2	7.8	1.7	-2.4
1992	.2	.8	.9	.6	.4	-.1	.7	-.3	.4	.7	.6	-.1	2.3	7.3	2.8	5.1	4.0
1993	.8	.3	.1	.5	-.5	.0	.3	-.3	1.1	.2	.5	.8	4.5	1.4	1.2	6.2	3.7
1994	.1	.6	.9	.7	.7	.2	.8	.1	.2	.7	.7	.9	6.3	8.1	5.0	6.7	5.5
1995	.4	-.4	.1	-.3	-.1	.2	-.1	.7	.7	-.4	-.1	.1	4.2	-1.4	2.6	1.0	3.5
1996	-.4	1.3	-.8	1.1	.4	.7	.5	.1	.2	.2	.8	.6	1.1	6.3	5.0	4.3	2.7
1997	.1	.6	.4	.3	.1	.4	.5	1.0					5.3	4.1			
Industrial Production																	
1985	84.4	84.9	85.4	85.6	86.0	85.7	85.4	86.1	86.4	85.7	86.7	86.6	84.9	85.8	86.0	86.3	85.7
1986	87.9	87.4	86.6	87.8	87.7	87.5	87.7	88.2	88.2	88.9	89.3	90.3	87.3	87.7	88.0	89.5	88.1
1987	89.6	91.0	91.2	91.6	91.9	92.8	93.4	93.3	93.4	94.6	95.0	95.6	90.6	92.1	93.4	95.1	92.8
1988	95.4	95.8	95.7	96.7	96.6	96.6	97.2	97.5	97.7	97.9	98.9	99.4	95.7	96.6	97.5	98.7	97.1
1989	100.3	99.1	99.9	100.0	99.4	99.4	98.3	98.7	98.4	97.9	98.2	98.3	99.8	99.6	98.5	98.1	99.0
1990	98.1	99.0	99.3	98.6	99.0	98.9	98.8	99.1	99.1	98.5	97.2	96.6	98.8	98.8	99.0	97.4	98.5
1991	95.8	95.1	94.1	94.4	95.0	96.3	96.6	96.8	97.8	97.8	97.6	97.1	95.0	95.2	97.0	97.5	96.2
1992	97.2	98.0	98.9	99.5	100.0	99.9	100.5	100.2	100.6	101.4	102.0	101.8	98.0	99.8	100.5	101.7	100.0
1993	102.6	102.9	103.0	103.6	103.0	103.0	103.4	103.0	104.2	104.4	105.0	105.9	102.9	103.2	103.5	105.1	103.7
1994	106.0	106.6	107.5	108.2	109.0	109.2	110.0	110.1	110.3	111.1	111.9	112.9	106.7	108.8	110.2	111.9	109.4
1995	113.3	112.9	113.1	112.7	112.6	112.9	112.7	113.4	114.2	113.8	113.6	113.8	113.1	112.7	113.4	113.7	113.2
1996	113.4	114.8	113.9	115.2	115.7	116.4	117.0	117.2	117.4	117.6	118.5	119.2	114.0	115.8	117.2	118.4	116.3
1997	119.3	120.1	120.6	120.9	121.0	121.6	122.2	123.4					120.0	121.2			
Capacity																	
1985	107.0	107.3	107.6	108.0	108.3	108.7	109.0	109.3	109.7	110.0	110.4	110.7	107.3	108.3	109.3	110.4	108.8
1986	111.0	111.2	111.4	111.6	111.7	111.9	112.1	112.3	112.5	112.7	112.9	113.0	111.2	111.7	112.3	112.9	112.0
1987	113.2	113.4	113.6	113.8	113.9	114.1	114.2	114.4	114.6	114.7	114.9	115.0	113.4	113.9	114.4	114.9	114.1
1988	115.1	115.3	115.4	115.5	115.7	115.8	116.0	116.1	116.3	116.5	116.6	116.8	115.3	115.7	116.1	116.6	115.9
1989	117.0	117.3	117.5	117.8	118.0	118.3	118.5	118.7	119.0	119.2	119.5	119.7	117.3	118.0	118.7	119.5	118.4
1990	119.9	120.1	120.3	120.5	120.7	120.9	121.1	121.3	121.5	121.7	121.9	122.2	120.1	120.7	121.3	121.9	121.0
1991	122.4	122.6	122.7	122.9	123.1	123.3	123.5	123.6	123.8	124.0	124.2	124.3	122.6	123.1	123.6	124.1	123.4
1992	124.5	124.7	125.0	125.2	125.4	125.7	125.9	126.1	126.3	126.5	126.8	127.0	124.7	125.4	126.1	126.8	125.8
1993	127.2	127.4	127.6	127.8	128.0	128.2	128.4	128.6	128.9	129.1	129.3	129.5	127.4	128.0	128.7	129.3	128.3
1994	129.8	130.1	130.5	130.8	131.2	131.5	131.9	132.2	132.6	132.9	133.3	133.6	130.1	131.2	132.2	133.3	131.7
1995	134.0	134.4	134.8	135.2	135.6	136.0	136.5	136.9	137.3	137.8	138.2	138.7	134.4	135.6	136.9	138.2	136.3
1996	139.1	139.6	140.1	140.5	141.0	141.5	142.0	142.5	142.9	143.4	143.9	144.4	139.6	141.0	142.5	143.9	141.7
1997	144.9	145.3	145.8	146.4	146.9	147.4	147.9	148.5					145.3	146.9			
Utilization																	
1985	78.9	79.1	79.3	79.2	79.4	78.9	78.3	78.8	78.8	77.9	78.5	78.2	79.1	79.2	78.6	78.2	78.8
1986	79.1	78.6	77.8	78.7	78.5	78.1	78.2	78.6	78.4	78.9	79.1	79.9	78.5	78.5	78.4	79.3	78.7
1987	79.1	80.2	80.3	80.6	80.7	81.4	81.8	81.5	81.5	82.5	82.8	83.1	79.9	80.9	81.6	82.8	81.3
1988	82.9	83.1	82.9	83.7	83.5	83.4	83.8	84.0	84.0	84.1	84.8	85.1	83.0	83.5	83.9	84.7	83.8
1989	85.7	84.5	85.0	84.9	84.2	84.1	83.0	83.1	82.7	82.1	82.2	82.2	85.1	84.4	82.9	82.1	83.6
1990	81.8	82.4	82.6	81.8	82.0	81.8	81.6	81.7	81.5	80.9	79.7	79.1	82.3	81.9	81.6	79.9	81.4
1991	78.2	77.6	76.6	76.8	77.2	78.1	78.2	78.3	79.0	78.9	78.6	78.1	77.5	77.4	78.5	78.5	78.0
1992	78.1	78.6	79.1	79.5	79.7	79.5	79.9	79.5	79.7	80.1	80.4	80.2	78.6	79.5	79.7	80.2	79.5
1993	80.7	80.8	80.7	81.0	80.5	80.4	80.5	80.1	80.9	80.9	81.2	81.7	80.7	80.6	80.5	81.3	80.8
1994	81.6	81.9	82.4	82.7	83.1	83.0	83.4	83.3	83.2	83.6	84.0	84.5	82.0	83.0	83.3	84.0	83.1
1995	84.6	84.0	83.9	83.4	83.0	83.0	82.6	82.9	83.2	82.6	82.2	82.0	84.2	83.1	82.9	82.3	83.1
1996	81.5	82.2	81.3	82.0	82.0	82.3	82.4	82.3	82.1	82.0	82.4	82.5	81.7	82.1	82.3	82.3	82.1
1997	82.4	82.6	82.7	82.6	82.4	82.5	82.6	83.1					82.5	82.5			

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	1996 IP Proportion	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1997 Feb.	Mar.	Apr.	May ^f	June ^f	July ^f	1997 Feb.	Mar.	Apr.	May ^f	June ^f	July ^f
Metal mining	10	.42	105.7	104.8	103.5	104.2	105.6	104.3	103.8	104.8	102.7	104.8	108.7	105.3
Iron ore	101	.06	122.9	116.2	109.0	108.9	110.7	102.0	111.0	110.4	103.0	114.0	115.8	107.6
Nonferrous ores	102-4,8,9	.36	103.2	103.2	102.9	103.6	105.0	104.8	102.9	104.2	102.9	103.7	107.9	105.2
Copper	102	.12	108.7	111.3	106.4	108.4	111.6	108.6	108.2	108.7	107.3	105.9	115.1	111.2
Coal mining	12	.87	109.6	105.2	104.1	115.9	107.4	114.1	114.0	112.2	103.9	109.9	106.9	104.3
Oil and gas extraction	13	3.71	103.1	105.4	104.5	105.0	105.5	103.8	103.0	103.7	103.3	103.5	103.6	102.6
Crude oil and natural gas	131	2.84	96.0	96.7	96.1	96.4	95.7	95.9	97.3	96.9	96.6	96.4	95.3	94.2
Crude oil, total		1.52	88.4	88.4	88.7	87.2	86.2	87.4	89.5	88.6	88.7	87.5	86.1	86.0
Natural gas		1.32	106.5	108.0	106.3	109.1	108.7		108.2	108.4	107.6	108.6	108.0	
Natural gas liquids	132	.22	114.5	113.6	108.7	107.8	109.1	109.0	112.6	113.5	109.9	108.6	109.5	109.5
Oil and gas well drilling	138	.64	140.7	153.4	152.5	154.2	161.4	149.6	133.4	140.4	140.8	143.6	150.4	148.8
Stone and earth minerals	14	.60	125.0	128.8	122.3	121.3	123.0	118.9	89.3	104.3	121.2	133.1	140.0	135.9
Foods	20	9.37	108.4	109.2	108.3	108.1	107.9	108.6	102.7	103.7	104.6	106.0	110.2	110.9
Meat products	201	1.26	114.0	114.7	112.6	113.9	112.4	114.2	112.4	110.4	113.8	112.6	116.1	110.6
Beef		.48	113.0	114.2	111.4	113.1	108.8	112.0	109.5	105.0	109.5	112.1	116.3	113.2
Pork		.27	101.0	103.5	96.1	95.1	100.5	102.9	99.7	101.4	101.0	91.2	95.6	90.7
Poultry		.49	125.5	124.4	126.6	128.9	125.7	125.6	124.6	122.4	128.0	128.5	130.7	122.1
Miscellaneous meats		.02	91.2	90.4	92.5	93.9	93.1	91.8	97.9	104.9	92.7	89.0	91.3	83.4
Dairy products	202	.81	101.1	99.9	100.2	100.6	102.2	103.4	101.5	104.3	107.9	109.4	110.8	105.1
Butter	2021	.01	76.8	75.1	80.8	76.0	76.4	80.4	94.7	85.2	94.1	80.8	68.3	62.7
Cheese	2022	.19	111.1	108.5	108.7	109.5	111.8	113.5	112.4	112.8	109.9	113.2	114.6	109.0
Concentrated milk	2023	.14	88.5	87.9	91.5	93.1	95.7	101.1	92.6	96.7	109.6	112.0	107.5	98.1
Frozen desserts	2024	.12	104.9	101.9	98.7	97.8	99.0	94.5	95.8	104.4	108.1	110.9	126.7	117.8
Milk and misc. dairy products	2026	.34	101.7	101.7	101.6	101.6	102.6	103.6	102.9	104.6	106.6	106.8	106.2	103.3
Canned and frozen food	203	1.30	108.4	107.7	106.8	105.5	106.7	107.5	96.4	97.6	96.4	99.0	104.3	109.9
Grain mill products	204	1.30	108.1	109.5	108.5	108.7	108.0	109.6	105.0	107.0	105.7	106.2	106.6	108.2
Bakery products	205	1.03	105.7	103.4	102.6	102.3	102.0	104.0	96.0	95.5	96.4	99.7	106.9	113.2
Sugar and confectionery	206	.64	112.3	114.6	114.4	112.7	111.2	109.3	108.1	106.7	98.8	96.9	99.5	97.1
Fats and oils	207	.24	102.0	99.0	98.1	96.9	97.0	95.6	104.7	101.5	98.9	93.5	93.5	87.5
Beverages	208	1.74	110.3	115.1	112.1	111.4	111.5	110.7	101.3	108.6	111.6	113.8	120.5	120.1
Beer and ale	2082,3	.54	100.5	115.9	105.8	105.5			98.0	112.9	115.9	117.7		
Soft drinks	2086,7	.98	116.5	115.9	116.8	116.2	113.6	115.1	102.9	105.5	109.6	113.9	121.5	129.0
Coffee and miscellaneous	209	1.05	107.6	107.5	110.2	110.8	109.8	111.0	102.4	98.0	102.0	106.0	111.7	117.2
Roasted coffee	2095	.17	98.1	98.2	103.4	104.8	95.7		111.1	82.1	93.0	97.2	85.7	
Tobacco products	21	1.16	105.7	106.9	105.5	104.2	102.8	104.2	109.3	105.8	108.6	100.3	114.5	89.3
Textile mill products	22	1.57	106.9	108.2	108.6	107.3	109.0	108.8	105.5	107.1	113.3	110.7	115.5	104.6
Fabrics	221-4	.39	106.8	102.5	111.3	103.4	105.1	104.8	106.9	104.9	115.9	109.3	106.7	94.6
Cotton and synthetic	221,2	.32	109.0	103.3	113.4	103.1	105.1		108.1	104.7	117.2	108.6	105.5	
Narrow fabrics	224	.04	113.1	116.1	116.7	115.4	113.4	115.0	110.4	114.8	115.7	116.5	118.0	108.7
Knit goods	225	.44	111.1	112.1	111.9	113.8	112.3	114.6	103.8	105.5	112.1	118.7	126.8	116.2
Knit garments	2253,4,7-9	.32	112.3	113.4	113.6	116.5	114.7	117.9	105.3	106.0	108.0	119.9	126.9	122.9
Fabric finishing	226	.15	99.8	95.3	99.1	92.7	96.7	95.2	101.8	94.7	104.0	98.3	96.4	84.0
Carpeting	227	.18	92.3	116.8	96.2	102.6	108.0	96.6	90.9	111.5	114.7	95.4	118.6	102.1
Yarns and miscellaneous	228,9	.41	111.9	111.2	112.1	112.4	114.7	117.4	113.9	114.1	115.1	115.4	118.4	111.4
Cotton and synthetic yarns	2281,2,4	.19	104.1	100.0	102.5	102.3	106.4	111.2	108.6	104.8	108.6	108.7	110.8	102.7
Apparel products	23	1.80	95.8	96.3	96.1	96.4	96.6	96.1	93.9	95.5	94.5	96.3	98.7	94.1
Lumber and products	24	2.06	112.0	113.3	113.6	114.0	114.3	113.4	109.6	111.4	114.0	112.6	117.9	111.7
Logging and lumber	241,2	.79	102.3	104.7	103.2	103.1	104.1	102.0	101.8	101.7	102.0	99.6	108.0	101.5
Logging	241	.28	93.8	93.0	95.3	94.2	93.1	92.8	89.1	86.1	86.4	90.0	95.7	97.6
Lumber products	243-5,9	1.27	119.2	119.8	121.5	122.1	121.9	122.0	115.6	118.7	123.0	122.2	125.4	119.4
Millwork and plywood	243	.65	113.0	114.0	114.4	114.3	114.8	115.4	106.8	110.4	113.5	115.4	117.8	116.0
Plywood	2435,6	.15	101.1	100.1	101.1	101.1	103.3	102.0	100.6	100.1	102.0	103.0	105.3	98.8
Manufactured homes	245	.23	163.5	160.9	168.0	166.4	163.1	166.3	155.9	163.0	176.2	170.2	176.5	150.8

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

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

Item	SIC	1996 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Furniture and fixtures	25	1.30	110.3	111.0	112.7	113.9	114.5	113.3	110.7	109.7	110.3	110.7	115.4	112.3
Household furniture	251	.60	111.5	109.9	112.6	114.6	116.2	114.6	114.7	111.5	111.9	111.2	115.5	107.7
Paper and products	26	3.29	111.1	112.1	112.2	112.8	111.4	114.7	112.9	111.8	114.4	110.8	112.9	112.6
Pulp and paper	261-3	1.32	112.1	111.8	111.4	111.8	109.4	114.2	114.3	112.2	112.3	110.8	111.6	112.5
Wood pulp	261	.09	106.1	105.1	102.4	99.7	99.6	102.2	106.7	102.0	104.2	98.0	101.0	104.7
Paper	262	.76	109.0	110.1	110.9	111.5	109.2	113.0	111.1	110.8	110.9	109.2	110.1	110.4
Paperboard	263	.46	119.3	116.9	115.0	115.4	112.4	119.4	121.8	117.1	116.8	116.7	116.5	118.2
Paper products	265,7	1.97	110.5	112.3	112.6	113.6	112.7	115.0	112.0	111.5	115.8	110.8	113.8	112.6
Paperboard containers	265	.73	116.2	116.7	115.5	116.2	120.6	117.3	115.6	114.1	122.9	111.7	122.5	116.2
Converted paper products	267	1.24	107.4	110.0	111.1	112.2	108.3	113.7	109.9	110.0	111.7	110.1	108.9	110.5
Printing and publishing	27	6.44	100.6	99.7	99.6	99.8	99.3	99.5	96.7	96.8	97.4	96.8	101.1	103.8
Newspapers	271	1.41	92.0	89.0	86.6	86.0	85.7	85.7	93.6	90.0	88.5	84.2	86.6	84.1
Periodicals, books, and cards	272,3,7	1.91	99.6	100.5	101.2	101.9	103.4	103.5	99.6	101.9	103.5	102.0	102.6	103.2
Job printing	274-6,8,9	3.12	105.7	104.9	105.7	105.8	104.0	104.4	96.2	96.9	98.2	100.2	108.0	115.0
Chemicals and products	28	10.17	112.8	112.0	113.3	112.7	112.3	113.2	110.1	109.9	111.7	111.7	115.7	117.5
Industrial chemicals and synthetic materials	281,2,6	4.06	109.2	109.1	109.2	106.7	106.4	107.5	110.1	109.6	111.9	107.2	107.7	106.7
Basic chemicals	281	.80	94.0	93.1	93.0	90.4	90.3	89.9	94.8	91.1	93.5	90.2	91.9	87.5
Alkalies and chlorine	2812	.06	117.4	120.9	116.3	112.4	116.2	118.4	117.3	119.3	114.7	110.6	117.3	118.4
Inorganic pigments	2816	.09	101.1	96.0	103.6	96.1	95.6	108.4	101.5	94.7	110.0	98.4	100.3	105.9
Inorganic chemicals, nec	2819	.51	87.3	86.4	86.0	84.0	83.9	81.3	88.0	83.7	85.6	83.4	85.4	78.4
Acids and other		.35	101.6	102.0	101.2	99.0	98.7	99.0	104.6	95.6	99.9	95.6	101.4	95.4
Synthetic materials	282	1.42	121.5	121.7	124.7	120.1	120.0	123.9	124.2	123.8	130.4	121.5	122.9	121.4
Plastics materials	2821	.90	127.1	127.2	128.2	127.7	127.6		129.6	130.0	134.3	128.7	129.6	
Synthetic fibers	2823,4	.38	108.7	108.8	117.3	103.2	102.8	114.5	111.2	107.7	120.1	104.5	106.7	111.7
Industrial organic chemicals	286	1.84	108.5	108.7	107.0	105.8	105.3	105.4	108.4	109.4	108.7	106.2	105.4	106.5
Chemical products	283-5,9	5.50	116.4	114.9	117.1	117.8	117.4	118.3	110.3	110.3	111.6	115.5	123.2	127.8
Drugs and medicines	283	3.05	122.5	121.0	123.2	125.1	122.6	123.4	113.5	113.3	114.8	121.4	129.9	136.6
Soap and toiletries	284	1.36	103.5	102.6	105.1	103.5	106.3	107.1	100.4	101.0	99.8	99.9	108.6	113.4
Paints	285	.50	122.7	122.2	119.9	119.2	118.4	119.1	120.5	123.2	128.6	128.4	134.0	124.0
Agricultural chemicals	287	.61	103.1	103.1	104.2	106.4	105.4	104.6	104.0	103.8	107.4	106.6	103.0	101.5
Petroleum products	29	1.75	108.6	108.1	110.7	112.1	111.3	110.1	100.4	101.9	107.6	113.6	116.0	115.0
Petroleum refining and misc.	291,9	1.57	106.6	106.5	109.4	111.0	110.5	109.2	100.0	101.8	107.0	112.4	114.6	113.4
Miscellaneous petroleum products		.32	111.1	104.7	113.4	115.8	109.2	110.1	94.5	99.6	111.4	121.5	124.8	126.5
Distillate fuel oil		.30	110.1	112.6	111.8	118.6	117.8	115.6	103.9	109.6	110.7	118.6	118.3	115.6
Residual fuel oil		.05	87.1	72.1	70.2	69.1	84.4	76.2	88.4	71.6	69.1	69.2	81.4	73.7
Aviation fuel and kerosene		.15	108.3	111.4	112.3	111.4	114.1	112.5	108.1	105.7	106.2	107.6	112.6	115.1
Automotive gasoline		.75	104.5	106.8	109.4	109.3	109.5	108.4	100.3	101.5	107.1	110.5	111.8	109.8
Paving and roofing materials	295	.19	124.5	120.0	119.6	119.1	116.2	115.5	101.3	100.0	110.0	121.4	125.6	126.6
Rubber and plastics products	30	3.78	123.1	124.0	122.3	123.4	124.0	123.7	123.3	123.9	122.8	123.2	126.2	119.9
Tires	301	.35	121.0	129.8	109.1	113.7	123.1	123.6	132.5	132.3	118.2	114.0	127.4	106.3
Other rubber products	302,5,6	.62	115.0	113.1	115.6	113.3	115.8	115.6	114.7	114.1	112.4	113.6	120.0	116.7
Plastics products, nec	308	2.81	125.3	126.0	125.7	127.2	126.1	125.8	124.2	125.3	126.0	126.8	127.6	122.4
Leather and products	31	.20	77.6	78.4	78.8	77.0	75.5	74.9	75.7	78.0	78.5	77.0	77.6	71.0
Shoes	314	.09	80.1	80.7	79.0	78.5	75.9	74.8	77.5	78.8	77.6	78.2	78.2	71.4
Stone, clay, and glass products	32	2.12	112.5	113.5	113.8	112.8	113.2	113.6	107.5	110.2	113.7	114.0	117.2	114.5
Pressed and blown glass	322	.30	94.5	93.4	95.5	93.3	93.0	96.8	95.8	94.1	96.9	95.7	96.9	98.7
Glass containers	3221	.13	75.5	72.5	72.8	71.4	72.8	73.7	79.2	74.7	76.7	75.2	78.7	77.5
Cement	324	.17	119.6	123.5	113.8	113.4	112.4		82.5	100.4	116.9	125.7	136.5	
Structural clay products	325	.10	128.8	129.3	132.0	130.8	129.9	128.1	125.3	129.3	133.5	135.6	138.5	122.9
Concrete and miscellaneous	326-9	1.26	115.0	116.1	116.4	116.0	117.4	116.4	111.6	113.6	115.7	115.5	118.7	115.6

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

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

Item	SIC	1996 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1997 Feb.	Mar.	Apr.	May ^f	June ^f	July ^f	1997 Feb.	Mar.	Apr.	May ^f	June ^f	July ^f
Primary metals	33	3.52	120.0	121.3	120.2	123.4	123.4	122.0	123.7	123.3	124.6	124.2	123.9	116.4
Iron and steel	331.2	1.88	118.2	118.7	119.3	123.6	120.3	120.8	122.5	121.0	124.9	124.1	121.4	116.4
Basic steel and mill products	331	1.46	119.6	120.5	121.1	127.5	122.8	124.3	124.7	122.2	127.3	128.1	124.3	120.2
Basic iron and steel		.30	106.0	106.8	107.4	109.5	107.4	105.8	108.3	108.7	108.0	108.3	107.0	103.3
Pig iron		.17	105.2	105.7	105.8	109.2	105.8	102.8	107.1	107.5	104.6	106.9	104.9	100.8
Raw steel		.09	112.3	114.2	115.5	115.8	115.1	115.4	116.8	117.3	119.1	115.7	115.1	110.6
Steel mill products		1.16	123.7	124.6	125.1	132.9	127.4	129.8	129.6	126.2	133.0	133.9	129.4	125.2
Consumer durable steel		.19	132.3	137.0	121.4	132.1	125.0	131.8	142.6	136.3	139.4	140.9	128.1	102.9
Equipment steel		.13	123.4	122.4	127.9	138.6	134.4	129.7	133.1	127.6	134.8	136.8	133.8	122.5
Construction steel		.14	138.7	144.8	148.1	157.3	148.8	147.6	138.3	137.4	149.7	158.1	154.2	150.1
Can and closure steel		.04	111.5	102.5	113.3	110.2	108.8	104.9	106.3	105.6	113.0	115.1	111.7	103.0
Miscellaneous steel		.66	120.2	120.3	122.8	129.9	124.8	128.5	125.7	122.8	129.6	128.6	125.8	128.7
Iron and steel foundries	332	.42	113.0	112.3	113.2	110.6	112.1	109.1	115.2	116.6	116.7	111.2	111.9	103.9
Nonferrous metals	333-6.9	1.64	122.1	124.2	121.3	123.1	126.9	123.3	125.1	126.0	124.2	124.2	126.8	116.4
Primary nonferrous metals	333	.24	105.7	105.9	106.7	105.2	110.6	107.8	109.0	109.3	106.9	106.1	107.9	104.1
Copper	3331	.08	120.9	118.5	120.3	114.7	128.7	126.4	124.8	124.8	119.5	116.4	125.4	119.3
Aluminum	3334	.10	89.2	89.6	89.5	88.9	89.5	89.1	89.7	89.7	89.2	88.9	89.4	89.2
Nonferrous products	335.6	1.12	124.3	126.9	122.1	124.2	127.4	123.3	126.9	128.0	125.7	125.7	128.1	115.7
Nonferrous mill products	335	.84	120.8	124.1	117.3	120.0	124.5	119.8	123.8	125.2	122.0	122.2	125.0	112.3
Aluminum	3353-5	.29	103.8	114.6	96.9	101.8	110.4	97.5	109.8	115.2	108.8	104.3	111.2	91.6
Nonferrous foundries	336	.28	136.1	136.2	137.9	138.1	137.3	134.8	137.2	137.2	138.0	137.4	138.2	127.1
Fabricated metal products	34	5.28	119.5	120.4	120.8	121.1	120.7	121.0	117.8	119.6	118.3	119.8	122.8	120.0
Metal containers	341	.16	90.2	93.4	93.4	89.8	89.7	91.0	76.2	88.6	91.5	99.6	106.2	99.2
Hardware, tools, and cutlery	342	.54	118.3	117.6	119.4	119.9	118.0	119.0	117.5	117.4	116.6	118.5	120.9	120.7
Hardware and tools	3423,5.9	.47	118.3	117.4	119.3	119.7	116.9	117.5	117.6	117.1	116.3	118.2	120.2	120.6
Structural metal products	344	1.47	127.3	128.1	128.2	127.8	127.0	127.0	122.8	124.1	125.0	126.5	128.5	127.9
Other fabricated metal products	345-9	2.91	119.3	120.4	120.8	121.2	121.6	122.0	120.4	122.2	119.7	120.7	123.2	119.2
Fasteners, stampings, etc.	345-7	1.67	126.4	127.2	127.9	128.0	128.3	129.2	128.0	130.3	126.4	127.4	131.0	126.8
Industrial machinery and equipment	35	9.51	166.6	167.4	171.3	170.5	171.9	175.3	167.5	169.1	170.2	170.3	177.8	174.6
Engines and turbines	351	.47	121.3	119.5	120.9	123.9	121.9	122.2	121.8	119.6	118.8	120.9	120.8	119.9
Farm	352	.45	144.4	142.0	153.9	147.0	150.1	152.1	162.4	158.5	166.3	155.7	153.6	112.0
Construction and allied	353	.99	156.5	153.9	163.8	160.1	160.4	160.6	165.3	163.5	168.1	164.2	169.5	141.1
Metalworking	354	1.10	124.9	123.7	124.9	124.4	123.1	126.5	123.7	122.3	121.0	122.3	126.1	132.5
Special industry machinery	355	.84	133.2	135.3	136.5	136.2	136.3	137.2	133.4	136.1	135.4	135.2	136.3	133.1
General industrial machinery	356	1.10	116.7	115.9	117.4	116.9	116.5	118.3	116.2	115.4	115.2	115.8	118.9	119.9
Bearings and gears	3562,6.8	.33	116.1	116.8	118.1	117.1	114.8	114.3	117.3	117.6	117.4	116.0	114.9	110.4
Equipment	3561,3-5,7.9	.77	117.0	115.6	117.2	116.9	117.2	120.1	115.7	114.5	114.2	115.7	120.6	124.1
Computer and office equip.	357	2.45	347.8	354.7	363.8	371.8	382.0	394.4	336.1	344.4	346.6	364.7	396.9	420.1
Service industry machines	358	.90	135.2	138.9	134.8	127.1	130.5	129.8	141.7	151.2	149.7	133.6	140.7	122.8
Refrig. and heating equip.	3585	.64	138.3	142.4	136.6	124.6	130.2	128.4	147.8	160.4	158.6	134.5	144.8	120.7
Miscellaneous machinery	359	1.20	135.1	135.1	140.6	138.9	137.6	143.0	133.3	133.4	136.2	136.9	141.6	149.9
Electrical machinery	36	8.58	172.5	175.2	176.7	178.1	181.7	185.5	172.3	175.0	175.5	176.4	183.0	182.7
Major electrical and parts	361.2	.95	109.7	108.0	109.4	107.6	109.1	108.7	106.9	105.6	106.7	106.6	112.2	113.5
Electric distribution equip.	361	.30	102.5	101.9	104.2	104.7	105.0	106.2	100.1	98.8	98.5	101.5	107.2	110.9
Household appliances	363	.51	124.7	132.8	125.3	126.7	133.3	134.6	133.5	133.8	131.6	126.8	136.6	128.5
Cooking equipment	3631	.09	130.4	132.5	117.1	129.0	140.1	150.0	135.6	131.8	120.4	129.6	135.7	145.3
Refrigerators and freezers	3632	.10	125.6	132.0	127.6	129.4	126.5	130.6	134.4	133.3	139.9	138.6	141.4	131.6
Laundry	3633	.11	127.7	155.8	143.8	137.9	152.6	155.3	146.2	155.0	160.5	136.5	157.3	138.9
Miscellaneous	3634,5.9	.21	121.3	123.7	120.6	120.2	125.4	120.7	126.8	126.0	120.6	116.4	126.0	114.9
Electrical housewares	3634	.05	105.7	108.3	109.8	109.2	113.2	105.6	100.0	102.9	104.3	107.5	113.2	102.4
Appliances, nec	3639	.09	139.8	144.3	137.4	138.0	147.7	140.4	151.1	146.5	144.1	135.1	149.6	123.7
Audio and video equipment	365	.19	105.8	96.8	92.4	100.1	92.9	99.8	100.8	95.9	85.2	94.9	91.3	84.5
Communication equipment	366	1.65	122.0	123.0	124.4	124.4	128.5	130.5	121.7	123.0	123.9	123.1	126.3	128.5
Electronic components	367	3.94	287.1	295.0	300.2	304.7	312.6	323.0	287.4	296.8	299.1	302.8	314.3	316.6
Semiconductors	3672-9	3.87	294.1	302.7	308.1	312.8	321.2	331.8	294.6	304.9	307.0	310.8	323.1	325.5
Misc. electrical supplies	369	.69	125.2	128.2	127.7	128.5	125.6	124.7	123.7	125.2	124.8	123.2	126.6	119.1
Storage batteries	3691	.11	110.3	119.0	119.1	121.6	111.0	105.2	103.0	104.7	101.7	98.1	113.6	101.1
Transportation equipment	37	8.41	111.5	111.9	110.6	110.2	112.8	111.3	117.6	117.1	118.2	115.8	118.4	93.8
Motor vehicles and parts	371	4.80	129.6	128.9	125.3	123.7	127.6	123.1	142.1	138.9	140.2	134.8	138.7	87.8
Autos		1.32	110.6	111.5	105.0	106.5	103.9	106.8	125.1	117.6	122.7	119.1	113.5	73.0
Trucks and truck trailers		1.26	153.5	152.4	138.2	142.5	148.9	132.4	170.2	159.8	160.6	154.2	159.3	95.5
Trucks and buses		1.19	155.5	153.8	138.6	142.0	149.3	132.0	172.9	161.2	161.9	154.5	160.1	93.3
Consumer trucks		.71	165.0	163.8	146.1	150.5	159.5	135.8	180.1	170.0	167.1	161.2	167.8	88.5
Business trucks		.48	147.1	144.7	132.4	134.6	139.7	130.5	162.8	148.9	154.6	145.2	149.3	99.6
Motor vehicle parts	3714	2.15	130.3	129.1	133.0	125.7	133.1	130.0	139.3	143.1	141.2	135.8	146.0	93.2
Motor homes	3716	.06	113.9	102.3	114.0	113.7	112.6	100.6	120.3	114.8	139.1	111.9	110.7	102.4
Aerospace and miscellaneous transportation equipment	372-6.9	3.62	93.5	94.8	95.5	96.4	97.7	98.9	93.7	95.7	96.5	96.9	98.3	97.2
Aircraft and parts	372	2.30	94.2	96.0	97.5	98.6	100.2	102.6	95.0	97.4	98.4	99.4	101.1	101.0
Ships and boats	373	.38	86.4	85.4	85.3	85.9	84.7	83.6	84.3	85.5	86.4	85.7	84.4	81.7
Railroad and miscellaneous	374-6.9	.94	92.8	93.6	92.6	93.0	94.5	93.3	92.4	93.7	93.5	93.1	94.7	91.7

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

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

Item	SIC	1996 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Instruments	38	4.72	104.6	104.7	104.4	105.2	105.8	105.3	103.2	103.4	103.1	103.6	107.3	106.8
Scientific and medical	381-4	3.77	101.5	101.2	101.0	101.7	102.0	101.5	99.8	99.7	99.4	99.6	103.7	103.5
Medical instruments	384	1.45	110.2	108.8	108.5	108.4	109.1	108.7	104.2	103.3	103.6	104.4	114.1	118.0
Misc. manufactures	39	1.29	117.1	116.3	116.9	117.0	117.5	118.8	114.8	115.7	116.0	116.3	117.8	113.6
Consumer goods	391,3,4,6	.62	108.6	108.1	109.3	109.2	108.5	110.7	107.0	108.2	108.9	108.3	107.9	102.9
Business supplies	395,9	.67	125.6	124.4	124.5	124.8	126.5	126.9	122.6	123.3	123.1	124.3	127.8	124.3
Electric utilities	491,3pt	6.26	110.9	110.3	113.6	110.5	111.1	112.6	111.5	106.3	101.5	102.6	114.7	127.2
Generation		2.42	111.1	111.5	113.0	108.9	111.4	112.5	114.7	108.0	103.4	105.3	117.8	124.5
Fossil fuel		.91	104.7	107.0	110.9	108.5	108.7		103.7	98.0	97.7	99.5	114.4	
Hydro and nuclear		1.51	116.2	115.3	115.1	110.0	114.0		122.7	115.2	107.7	109.8	120.7	
Sales		3.84	110.8	109.6	114.2	111.6	111.1	112.8	109.5	105.3	100.4	101.0	112.9	129.0
Residential		1.64	110.2	107.9	115.4	111.6	109.4		115.6	104.1	93.1	90.6	107.0	
Nonresidential		2.21	111.4	111.0	113.4	111.7	112.3	112.4	105.2	106.1	105.7	108.4	117.1	123.0
Commercial and other		1.32	114.8	114.8	117.8	115.4	116.2		108.1	108.2	106.5	109.2	121.7	
Industrial		.89	107.0	105.8	107.4	106.7	107.2		101.1	103.2	104.6	107.3	110.8	
Gas utilities	492,3pt	1.81	107.6	108.7	113.2	119.0	115.6	112.7	171.6	155.2	112.6	86.6	65.6	63.0
Residential		.80	101.6	102.6	109.3	116.5			196.3	170.8	111.4	73.7		
Commercial and other		.35	109.1	113.2	118.0	126.4			185.9	170.9	118.7	87.4		
Gas transmission		.48	110.1	108.9	112.2	115.3			142.5	132.2	110.5	97.4		

1. The IP proportion data are estimates of the industries' relative contributions to overall IP growth in the following year.

Table 7
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1992 dollars at annual rates, seasonally adjusted

Item	1992	1996	1996 Q1	Q2	Q3	Q4	1997 Q1	Q2 ^r	1997 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Products, total	2001.9	2261.9	2221.1	2259.7	2274.1	2291.8	2315.2	2334.3	2327.5	2324.7	2337.5	2340.7	2340.5	2367.3
Final products	1552.1	1766.0	1733.5	1765.9	1776.0	1787.9	1808.9	1825.9	1819.6	1816.4	1827.8	1833.6	1835.7	1862.2
Consumer goods	1049.6	1166.0	1152.7	1167.4	1166.7	1176.4	1179.6	1184.5	1184.7	1179.4	1187.3	1186.7	1186.0	1199.0
Durable	238.3	302.7	291.2	307.1	309.3	303.1	310.2	305.9	314.1	301.4	306.0	310.3	304.4	315.0
Automotive products	123.8	157.6	149.9	160.5	163.2	157.0	164.1	157.4	164.8	154.8	157.5	160.0	152.2	163.6
Other durable goods	114.4	145.1	141.4	146.6	146.1	146.1	146.1	148.5	149.3	146.6	148.4	150.3	152.2	151.4
Nondurable	811.3	863.9	861.7	861.4	858.5	873.3	870.2	878.7	871.8	877.8	881.4	877.0	881.3	884.8
Equipment, total	502.5	599.2	580.2	597.7	608.6	610.7	628.6	640.9	634.2	636.4	639.9	646.3	649.2	662.8
Business and defense	483.9	573.9	555.9	571.3	583.0	585.7	600.8	610.7	604.7	606.5	609.9	615.6	620.0	634.1
Business	399.2	509.1	491.5	505.9	517.7	521.4	537.6	547.2	541.3	543.4	546.5	551.8	557.3	570.9
Defense and space	84.7	64.9	64.4	65.4	65.4	64.4	63.3	63.6	63.5	63.3	63.6	64.0	62.9	63.4
Intermediate products	449.9	496.4	488.1	494.4	498.7	504.3	507.0	509.2	508.7	508.9	510.5	508.2	506.1	507.0
Construction supplies	177.2	206.0	199.5	205.3	209.6	209.3	211.1	212.7	215.2	212.0	213.2	212.8	210.0	210.9
Business supplies	272.7	290.2	288.4	288.9	288.9	294.7	295.6	296.3	293.3	296.7	297.1	295.2	295.9	295.8
Commercial energy products	70.4	80.3	79.6	80.5	79.3	81.6	80.5	82.7	80.1	82.8	83.0	82.2	81.6	81.1

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One Month Earlier												
1995	55.3	47.7	50.0	43.2	47.7	50.4	52.7	58.7	54.9	44.7	47.3	47.7
1996	34.5	65.5	54.2	52.7	58.0	64.8	51.5	53.4	50.8	55.3	56.8	57.4
1997	45.5	61.4	54.7	51.9	50.6	51.5	50.8					
Three Months Earlier												
1995	64.0	58.7	49.6	43.6	43.2	47.3	48.5	52.7	58.0	51.9	48.5	45.1
1996	41.3	50.0	53.8	68.9	59.1	63.8	56.4	61.0	53.0	57.2	52.3	56.4
1997	56.4	59.5	56.1	59.5	54.2	52.5	53.4					
Six Months Earlier												
1995	62.1	62.9	64.4	54.9	51.1	44.3	44.3	46.2	51.1	47.3	50.8	53.0
1996	47.3	49.6	49.6	54.2	59.5	67.0	63.6	60.6	61.0	60.2	60.2	58.0
1997	56.1	61.0	63.3	61.7	59.3	55.7	61.9					

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	1992 Billion KWH	Index, 1992 = 100											
				Seasonally adjusted					Not seasonally adjusted						
				1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p	1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p
Total			934.1	106.8	105.3	107.1	106.4	106.4	106.2	103.6	104.0	105.8	106.2	108.3	107.3
MAJOR INDUSTRY GROUPS															
Manufacturing			854.0	107.0	105.6	107.5	106.8	106.6	106.4	103.6	104.2	106.0	106.6	108.7	107.9
Durable			365.8	105.9	104.3	106.8	106.0	106.5	107.4	103.6	104.2	105.7	105.9	108.5	107.7
Nondurable			488.3	107.8	106.6	108.0	107.4	106.7	105.7	103.6	104.2	106.2	107.1	108.9	107.9
Mining			80.1	104.4	102.3	102.4	101.3	102.6	102.3	103.8	101.8	102.9	101.5	102.0	99.0
INDUSTRY GROUPS and SERIES															
Metal mining 10			18.6	117.4	119.7	111.7	112.9	111.3	112.7	113.3	115.8	111.8	113.8	110.2	112.1
Iron ore 101			7.3	129.7	131.3	117.4	116.4	114.1	115.8	121.2	125.7	118.7	118.6	110.8	115.6
Copper ore 102			6.6	115.7	119.0	113.9	117.1	114.1	117.2	114.2	113.8	112.6	115.9	114.7	117.0
Coal mining 12			12.7	95.2	91.8	98.5	97.0	99.3	99.4	108.6	100.4	101.4	94.8	93.8	82.0
Oil and gas extraction 13			36.0	96.2	93.2	94.8	92.2	94.1	93.1	93.5	92.1	94.2	92.0	95.6	93.9
Crude oil and natural gas 131			31.0	97.8	93.3	94.4	92.0	93.9	93.2	95.2	92.5	94.1	92.1	95.2	93.3
Natural gas liquids 132			3.6	75.0	86.5	92.1	89.3	89.0	88.1	71.5	83.6	90.6	89.0	92.1	91.0
Stone and earth minerals 14			12.8	115.2	110.3	110.8	110.1	113.1	111.7	107.3	104.6	111.4	113.7	115.4	112.7
Crushed stone 142			3.5	146.8	144.9	148.0	146.2	146.0	148.6	118.9	119.7	144.1	156.6	155.9	156.2
Sand and gravel 144			2.7	101.9	108.1	106.6	105.9	110.9	111.7	86.5	94.3	104.6	111.6	115.9	117.1
Chemical and fertilizer materials 147			4.7	111.4	101.2	99.7	98.4	103.3	98.3	111.2	102.6	102.2	99.7	102.6	96.9
Foods 20			58.8	115.4	113.8	115.6	114.1	114.4	115.5	107.5	106.4	108.7	110.6	116.6	121.2
Meat products 201			10.3	123.3	121.7	125.0	123.2	121.6	124.9	113.2	113.0	117.8	119.8	127.6	135.1
Dairy products 202			6.8	109.0	105.3	107.6	106.4	105.4	104.3	99.4	98.6	103.8	105.5	113.3	115.5
Canned and frozen food 203			8.1	115.4	114.7	113.8	112.5	113.9	115.6	102.4	103.8	102.5	105.4	111.1	118.0
Grain mill products 204			11.4	122.3	121.8	124.3	121.1	124.7	123.0	120.0	118.8	121.9	121.5	121.7	121.5
Bakery products 205			3.5	111.5	108.7	108.6	108.5	107.8	111.9	101.3	100.3	102.0	105.7	112.9	121.7
Sugar and confectionery 206			4.0	117.9	115.7	114.6	112.7	114.5	116.5	122.6	107.3	97.2	99.0	106.2	109.4
Fats and oils 207			3.9	111.8	111.6	110.8	110.8	112.6	113.8	114.9	111.7	108.9	106.0	109.0	104.7
Beverages 208			6.1	100.9	100.1	101.2	100.6	98.3	99.5	89.1	91.1	94.8	98.5	105.0	111.4
Coffee and miscellaneous 209			4.7	116.9	114.9	119.8	119.0	119.7	121.1	107.4	106.5	111.5	114.8	124.4	131.2
Tobacco products 21			1.5	92.0	93.5	95.7	96.1	97.2	104.0	92.2	90.6	92.1	91.3	98.8	107.9
Textile mill products 22			31.5	110.8	107.7	108.0	106.6	106.0	107.7	104.4	103.1	105.2	109.9	114.9	108.2
Fabrics 221-4			11.8	103.7	100.7	101.8	100.5	98.1	99.8	97.8	96.3	98.9	103.7	106.5	100.7
Knit goods 225			4.1	107.0	108.1	108.3	111.1	109.3	114.1	100.4	101.1	103.0	114.4	121.2	119.1
Fabric finishing 226			2.5	124.4	120.5	128.3	122.9	123.8	125.2	122.6	121.6	127.8	124.7	130.3	118.1
Yarn and thread 228			8.3	114.2	110.9	108.6	107.1	104.7	102.7	107.0	106.1	105.8	111.1	114.4	102.8
Miscellaneous textiles 229			3.4	120.4	116.7	118.1	115.9	120.3	124.8	113.5	112.7	116.4	118.8	128.1	124.1
Apparel products 23			8.2	99.1	99.9	101.6	101.0	98.8	101.2	92.4	92.1	93.5	98.5	106.7	111.0
Men's outerwear 231,2			2.0	93.5	91.1	92.8	92.5	92.5	92.5	84.3	81.7	84.7	90.9	102.8	104.1
Women's outerwear 233			2.5	91.3	96.0	97.4	91.0	87.7	90.4	84.4	87.1	89.0	89.0	95.8	100.1
Lumber and products 24			19.8	119.4	119.5	123.3	122.5	124.4	126.3	122.7	121.1	124.6	121.3	123.6	121.8
Lumber 242			7.7	112.3	111.3	114.3	112.6	114.2	116.7	117.6	113.7	116.3	112.8	112.4	110.2
Millwork and plywood 243			5.6	133.4	130.9	134.9	137.1	139.0	143.4	136.1	132.4	136.7	134.9	139.0	138.1
Furniture and fixtures 25			6.0	115.1	113.4	117.5	118.4	119.6	119.2	116.1	112.6	115.2	115.0	120.1	117.0
Household furniture 251			3.2	113.4	109.3	114.4	116.5	118.1	116.5	116.6	110.8	113.8	113.1	117.4	109.5
Paper and products 26			113.3	100.7	99.8	101.9	100.1	101.5	100.8	99.0	98.5	101.2	99.5	102.3	101.6
Wood pulp 261			8.8	87.8	93.8	90.2	87.0	93.2	100.5	87.2	93.4	87.2	86.8	92.4	98.5
Paper 262			62.3	101.4	100.4	103.7	102.0	103.5	101.4	100.0	99.2	103.3	101.4	103.9	101.9
Paperboard 263			28.3	100.2	97.7	99.9	99.5	95.1	95.4	99.7	97.0	100.0	98.3	97.1	97.6
Paperboard containers 265			5.1	106.0	102.9	98.9	100.1	104.1	106.5	102.2	100.3	98.1	100.2	105.4	108.1
Converted paper products 267			8.9	100.8	99.8	103.5	97.5	100.1	98.7	97.5	97.5	101.2	97.8	102.2	100.6
Printing and publishing 27			17.3	112.4	110.5	112.4	111.8	109.4	112.3	102.8	102.2	104.8	106.4	113.5	123.0
Newspapers 271			3.6	104.7	102.3	101.3	101.1	103.3	108.1	96.7	94.6	94.8	98.6	108.1	118.0
Commercial printing 275			9.2	113.4	110.8	113.5	112.7	108.5	110.4	103.3	102.8	105.6	106.7	112.5	121.5
Chemicals and products 28			171.7	105.2	103.5	103.6	104.3	104.3	100.8	101.7	103.0	103.5	105.5	105.2	102.5
Basic chemicals 281			78.9	100.3	98.6	97.6	98.3	98.7	92.0	96.8	99.4	98.6	100.8	99.0	92.3
Alkalies and chlorine 2812			14.9	78.0	73.8	78.1	76.8	80.5	80.0	75.3	77.0	79.7	78.1	80.3	79.6
Inorganic chemicals, nec 2819			38.3	101.4	97.4	94.6	96.1	95.0	82.9	96.3	99.9	97.6	101.3	95.7	81.9
Acid and fertilizer materials			14.0	100.2	97.1	95.2	102.9	103.9	102.0	97.7	95.1	95.1	101.7	101.7	102.8
Nuclear materials, nondefense			24.3	102.0	97.6	94.3	92.7	90.6	73.5	95.6	102.3	98.8	101.1	92.7	71.6

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

		1992 Billion KWH	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
Item	1987 SIC		1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p	1997 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p
Chemicals and Products (cont.)														
Synthetic materials	282	29.2	109.2	107.6	107.7	107.9	106.8	108.0	106.1	105.0	106.9	107.8	108.8	110.5
Plastics materials	2821	18.3	117.9	116.7	119.7	120.7	116.1	120.4	114.9	115.4	120.1	120.4	118.7	122.6
Drugs and medicines	283	6.7	123.6	122.0	124.4	126.3	123.9	124.7	114.6	114.4	115.9	122.7	131.4	138.1
Soap and toiletries	284	3.0	100.5	99.9	104.5	101.8	104.6	105.1	97.4	98.3	99.2	98.3	106.9	111.3
Industrial organic chemicals	286	39.2	109.0	111.1	111.9	114.5	113.7	117.6	106.6	110.6	111.1	114.0	112.6	117.3
Agricultural chemicals	287	9.7	118.3	116.8	117.1	119.4	116.9	116.6	116.5	115.5	119.0	120.1	116.6	116.4
Petroleum products														
Petroleum products	29	47.0	108.1	110.9	114.5	112.2	106.1	105.9	102.3	106.1	112.6	109.5	108.2	108.3
Rubber and plastics products														
Rubber and plastics products	30	38.0	124.5	121.8	125.3	124.9	123.9	125.8	123.0	122.4	124.2	125.1	127.9	126.8
Tires	301	4.3	101.7	100.7	102.6	103.1	104.2	104.3	100.1	100.1	101.8	101.9	107.3	106.3
Rubber products, nec	306	3.2	110.9	108.0	110.1	106.8	109.2	108.6	110.9	109.3	107.0	107.2	113.1	109.7
Plastics products, nec	308	28.9	131.3	128.2	132.2	132.3	130.3	132.9	129.6	129.1	131.2	132.9	134.5	133.7
Leather and products														
Leather and products	31	1.0	90.2	89.1	93.3	92.3	91.9	94.0	89.0	86.8	90.8	90.5	95.9	94.6
Shoes	314	.3	91.8	87.8	88.1	90.9	91.0	89.8	88.8	83.7	84.0	89.1	95.7	91.6
Stone, clay, & glass products														
Stone, clay, & glass products	32	33.8	111.1	108.7	112.7	110.1	111.0	111.9	103.9	104.1	110.6	111.7	114.0	112.8
Flat glass	321	1.5	108.2	104.7	107.8	104.0	111.2	110.7	104.4	104.0	105.9	104.9	114.5	112.4
Pressed and blown glass	322	7.3	100.3	101.0	104.4	101.7	99.7	105.7	99.1	100.1	103.1	102.4	101.2	105.4
Cement	324	9.6	115.8	108.2	113.3	110.8	111.2	110.5	95.1	95.2	108.1	115.3	117.3	115.0
Structural clay products	325	1.4	117.9	115.6	119.5	113.2	112.0	112.5	113.2	114.0	118.7	114.9	115.0	114.1
Concrete products	327	4.7	106.7	108.0	109.4	108.9	108.8	110.5	101.8	104.4	108.3	109.2	110.4	110.3
Primary metals														
Primary metals	33	150.9	97.8	96.4	97.3	97.0	98.2	98.3	96.0	98.7	98.5	98.3	98.3	95.7
Basic steel and mill products	331	57.0	110.8	109.6	111.6	113.6	113.9	113.8	111.1	113.6	113.5	115.5	113.5	108.1
Iron and steel foundries	332	9.9	115.8	113.9	117.0	113.6	115.3	112.3	118.1	118.2	120.7	114.3	115.1	107.0
Primary nonferrous metals	333	66.2	80.8	79.7	78.8	76.7	78.5	79.0	76.2	80.2	79.0	77.8	79.2	80.1
Aluminum	3334	60.3	69.1	65.4	65.7	63.6	64.7	64.8	63.5	66.2	65.8	66.3	66.1	66.6
Nonferrous foundries	336	2.7	119.6	115.7	118.9	117.1	118.2	117.5	121.0	118.1	120.1	116.4	117.4	112.1
Fabricated metal products														
Fabricated metal products	34	31.4	111.0	110.2	114.0	114.2	113.9	114.6	112.0	111.8	112.4	112.8	115.8	115.7
Metal containers	341	2.9	111.0	108.0	112.6	118.2	111.6	114.4	109.7	109.2	112.7	116.8	114.9	119.2
Hardware, tools, and cutlery	342	2.7	109.7	107.8	112.1	111.2	108.6	109.1	109.1	107.5	109.3	109.8	111.7	112.1
Structural metal products	344	5.4	114.7	115.6	119.8	124.1	121.4	123.0	118.1	117.9	117.7	121.0	120.5	123.1
Fasteners	345	1.7	114.9	113.5	117.4	113.7	117.7	115.9	115.3	114.4	114.8	112.7	119.6	117.8
Metal stampings	346	6.7	123.9	122.8	126.9	127.9	127.0	127.6	125.9	126.8	125.9	127.5	130.5	123.5
Industrial machinery and equipment														
Industrial machinery and equipment	35	33.2	107.0	104.5	108.7	107.4	106.8	110.6	105.6	103.3	105.5	106.1	110.1	115.0
Engines and turbines	351	2.6	94.3	91.6	95.3	92.6	94.0	93.4	94.3	92.3	95.4	93.9	97.0	90.8
Farm	352	2.0	112.9	119.2	123.4	124.3	120.9	130.8	121.7	127.1	127.6	125.8	121.0	122.3
Construction and allied	353	3.8	113.3	109.6	112.7	114.5	111.5	115.0	112.0	108.1	108.1	111.0	114.3	119.9
Metalworking	354	4.1	113.1	111.1	114.0	113.6	112.5	117.5	112.1	110.0	110.6	111.8	115.3	123.2
Special industry	355	2.4	116.2	113.5	119.4	117.4	118.3	118.5	115.0	112.1	115.6	115.2	121.1	125.2
General industrial	356	5.2	108.4	104.5	107.5	106.3	106.3	109.7	107.2	103.6	104.8	105.3	109.5	113.4
Computer and office equip.	357	5.1	87.0	83.7	89.6	87.0	86.5	90.0	84.2	81.4	85.5	85.4	90.0	96.0
Service industry machines	358	3.5	113.8	110.4	114.0	112.2	113.3	118.6	109.5	107.6	110.9	112.8	118.8	123.2
Electrical machinery														
Electrical machinery	36	33.0	117.1	115.6	119.4	118.0	118.3	120.1	112.8	112.6	115.4	116.0	122.3	125.4
Electrical distribution	361	1.3	86.4	85.7	87.5	87.7	87.9	88.7	84.4	83.1	82.7	85.0	89.6	92.6
Electrical industrial	362	4.0	84.6	82.9	83.5	81.2	82.7	81.9	82.3	81.2	82.6	81.2	85.4	85.4
Household appliances	363	2.4	101.7	97.5	103.4	98.3	101.2	99.6	98.5	95.5	99.5	99.7	106.6	104.1
Lighting and wiring products	364	3.0	112.8	109.8	111.5	110.8	110.1	112.0	111.9	109.2	109.4	111.5	115.5	114.4
TV and radio sets	365	.8	135.3	130.8	136.4	133.7	132.3	137.4	131.0	128.5	130.1	130.4	134.1	139.7
Communication equipment	366	3.3	118.4	112.3	113.7	113.8	115.3	115.7	110.7	106.9	109.1	109.9	120.2	125.2
Electronic components	367	14.5	134.7	134.8	139.1	138.4	138.9	142.9	128.6	130.8	134.7	135.7	143.4	149.7
Transportation equipment														
Transportation equipment	37	39.6	107.1	104.9	107.9	107.1	106.5	106.6	104.5	104.1	104.9	106.1	111.5	108.2
Motor vehicles and parts	371	22.8	120.3	117.2	121.0	119.8	118.1	116.8	116.6	116.7	117.3	118.7	124.4	117.1
Aircraft and parts	372	10.7	83.7	82.6	85.3	85.1	86.2	88.9	81.7	80.7	82.7	84.2	90.0	92.2
Ships and boats	373	2.2	86.6	85.0	81.7	87.8	85.9	80.4	88.9	86.1	81.9	84.9	86.2	82.1
Instruments														
Instruments	38	13.7	101.9	99.4	103.1	102.0	100.5	100.8	97.2	96.2	97.5	98.3	104.3	108.2
Photographic equip. & supplies	386	1.8	95.8	90.9	98.2	94.1	91.6	94.9	93.7	92.4	91.2	91.5	93.0	98.3
Miscellaneous manufactures														
Miscellaneous manufactures	39	4.5	130.6	126.2	131.4	129.5	129.6	133.3	127.3	123.2	126.3	127.4	133.7	139.0
SUPPLEMENTARY GROUPS														
Total, excluding nuclear nondefense		909.8	107.0	105.7	107.7	107.1	107.1	107.6	104.0	104.1	106.1	106.5	109.0	108.9
Utility sales to industry		835.3	107.5	105.6	107.4	106.4	107.0	106.9	104.2	104.3	106.1	106.7	109.0	107.7
Industrial generation		98.8	99.3	99.1	102.2	103.2	101.3	100.7	95.3	100.6	100.2	99.7	97.8	100.9

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. The release also includes monthly indexes on the use of electric power in manufacturing and mining. Data in the release and historical data are available under statistical releases at <http://www.bog.frb.fed.us>, the Board's World Wide Web site. These data are also 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; the reference period for the index is 1992. For the period since 1992, the total IP index has been constructed from 264 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 Department of the Interior; 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 as an annually weighted chain-type index since 1977. The components of IP are combined using estimates of value added per unit of output. For months from January to June, the weights are drawn from the year containing the month being estimated and the preceding year; for months from July to December, the weights are drawn from the current and following year. The IP proportions shown in column 1 of tables 1A, 2A, and 6 are estimates of the industries' relative contributions to overall growth in the following year. For example, a 1 percent increase in durable goods manufacturing in 1997 would account for an increase in total IP of nearly 1/2 percent.

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 1996; for other series, the factors were estimated with data through at least June 1996. In some cases, series were preadjusted for the effects of holidays or the business cycle before using X-11 ARIMA. For the data since 1977, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the level of the total IP index, without regard to sign, between the first and the fourth estimates was 0.28 percent during the 1987-96 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 1987-96 period. In most cases (about 81 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.

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 76 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. 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 current-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.

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 1992. 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 1992 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.

References

The annual revision published in January, including a description of the aggregation methods for industrial production and capacity utilization, is described in the *Federal Reserve Bulletin*, vol. 83 (February 1997), pp. 67-92. In addition, the most recent revision to the electric power use data is discussed in that article.

Industrial Production—1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. 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 major revisions to the IP indexes and capacity utilization since 1990 have been described in the *Federal Reserve Bulletin* (April 1990, June 1990, June 1993, March 1994, January 1995, and January 1996). The basic methodology used to estimate capacity and utilization is discussed in the June 1990 *Federal Reserve Bulletin*.

Release Schedule for 1997

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