

FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production declined 0.3 percent in April after a drop in output in the first quarter that was steeper than previously reported. At 144.9 percent of its 1992 average, industrial production in April was 1.0 percent lower than in April 2000. Manufacturing output also fell 0.3 percent in April and has contracted nearly 3.5 percent since its recent peak in September 2000. Manufacturing output excluding motor vehicles and parts declined 0.4 percent in April. Output at utilities moved down 1.0 percent, and production in mining rose 0.6 percent. The rate of capacity utilization for total industry fell further, to 78.5 percent, more than 3-1/2 percentage points below its 1967–2000 average.

Market Groups

The output of consumer goods declined 0.2 percent in April. The production of automotive products edged up 0.6 percent after a stronger gain in March; nonetheless, output remained below the level posted before the industry's downturn that began in October of last year. The production indexes declined for most other consumer durables and for

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

	Index, 1992=100				Percent change				Apr. 00 to Apr. 01
	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	
Industrial Production									
Total index	146.0	145.5	145.3	144.9	-.9	-.4	-.1	-.3	-1.0
Previous estimates	146.4	145.9	146.5		-.6	-.4	.4		
<u>Major market groups:</u>									
Products, total	135.0	134.7	134.8	134.3	-.7	-.2	.1	-.4	-.7
Consumer goods	121.8	122.3	122.4	122.2	-1.1	.4	.1	-.2	-.8
Business equipment	197.4	195.1	196.1	193.8	-.9	-1.2	.5	-1.1	1.4
Construction supplies	140.7	139.7	139.2	138.4	.0	-.7	-.3	-.6	-4.2
Materials	165.9	164.8	164.3	163.9	-1.1	-.6	-.4	-.2	-1.3
<u>Major industry groups:</u>									
Manufacturing	151.3	150.7	150.3	149.8	-.8	-.4	-.2	-.3	-1.6
Durable	192.3	191.0	191.9	190.7	-1.4	-.7	.4	-.6	-.1
Nondurable	114.0	114.0	112.8	112.8	-.1	.0	-1.1	.0	-3.3
Mining	101.0	101.3	102.4	103.1	1.4	.3	1.1	.6	3.2
Utilities	124.0	123.1	123.6	122.3	-3.9	-.7	.4	-1.0	3.1
Percent of capacity									Capacity growth
Capacity Utilization	Average 1967–00	1982 Low	1988–89 High	2000 Apr.	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	Apr. 00 to Apr. 01
Total industry	82.1	71.1	85.4	82.5	79.7	79.2	78.9	78.5	4.0
Manufacturing	81.1	69.0	85.7	81.8	78.4	77.9	77.5	77.1	4.5
Advanced processing	80.6	71.0	84.2	79.8	78.6	78.1	78.1	77.7	2.3
Primary processing	82.2	65.7	88.3	86.2	79.2	78.6	77.6	77.1	8.0
Mining	87.4	80.3	88.0	85.7	87.5	87.8	88.9	89.6	-1.3
Utilities	87.6	75.9	92.6	90.0	91.7	90.7	90.8	89.6	3.5

consumer energy products. The decline in the energy index reflected a drop in utility output for residential use that more than offset a jump in the production of automotive gasoline. The output of nondurable consumer goods excluding energy was unchanged and thus continued the sluggish pattern of production that has been evident over the past year.

The production of business equipment dropped 1.1 percent, more than reversing the gain posted in March; production for this group has fallen more than 3 percent since November. The output of industrial and other equipment fell nearly 2 percent in April, with sharp losses in construction equipment, metalworking machinery, and farm machinery. The output of information processing equipment declined 0.4 percent further, pushed down by continued weakness in the production of communications equipment and computers. The output of transit equipment also declined, largely owing to a rollback in the production of medium and heavy trucks.

Within intermediate products, the output of construction supplies fell 0.6 percent further in April; output for that group is more than 4 percent below its level in April 2000. The production of materials receded 0.2 percent in April, with the losses concentrated in durables. The production of semiconductors and related electronic components fell further, as did the output of basic metals. In addition, the production of semiconductors and related electronic components in the first quarter was revised down significantly, leaving the April level about 6 percent below the December level. The output of nondurable goods materials edged up 0.2 percent in April after a 2 percent decline in March. The production of both chemical and paper materials posted small gains, while the output of textiles fell again. The production of energy materials was up 0.3 percent, as declines at electric and gas utilities were more than offset by gains in the coal and oil and gas extraction industries.

Industry Groups

Manufacturing output fell 0.3 percent in April, the seventh consecutive monthly decline. Most of the losses were posted in the durable goods industries, most notably in high technology, other industrial machinery, and primary metals. The production of nondurable goods was unchanged; both the textile mill products industry and the apparel industry made significant cutbacks in production, while the output of petroleum products jumped sharply.

The factory operating rate edged down further, to 77.1 percent. The utilization rate for primary-processing industries decreased slightly, to 77.1 percent, while the rate for advanced-processing industries edged down to 77.7 percent. Capacity utilization in high-technology industries (computers, communications equipment, and semiconductors) dropped for the ninth successive month, to 73.4 percent, a level more than 6-1/2 percentage points below its July 2000 peak. The operating rate at utilities dipped to 89.6 percent. The operating rate for mining increased for the fourth consecutive month, to 89.6 percent.

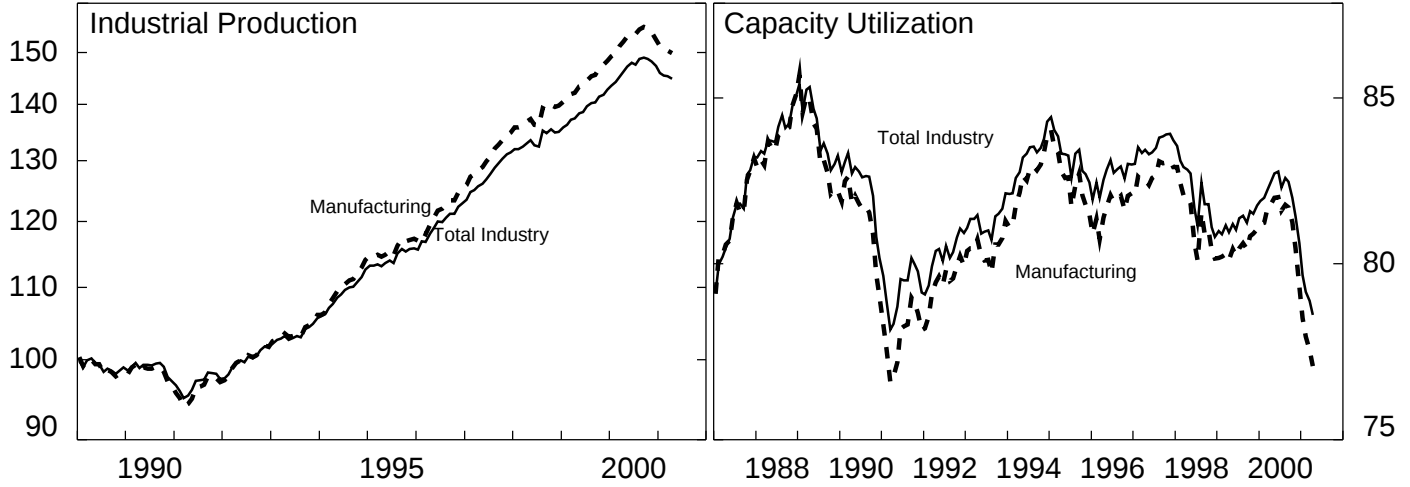
Note: The capacity indexes have been revised in this release beginning with January 2001. Although changes among most industries were offsetting, a significant downward revision to capacity growth at both semiconductor and computer manufacturers has led to a reduction in the overall estimate of capacity growth in 2001 from 3.5 percent to 2.7 percent.

Industrial Production and Capacity Utilization

(April data, seasonally adjusted)

Ratio scale, 1992=100

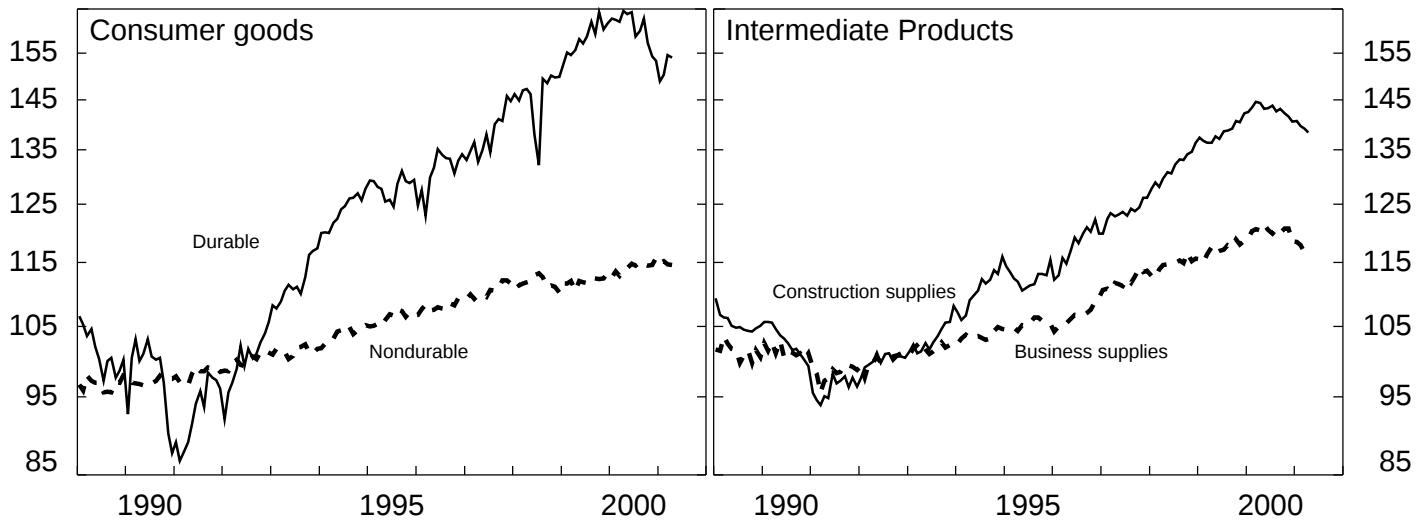
Percent of capacity



Ratio scale, 1992=100

Industrial Production, Market Groups

Ratio scale, 1992=100



Ratio scale, 1992=100

Ratio scale, 1992=100

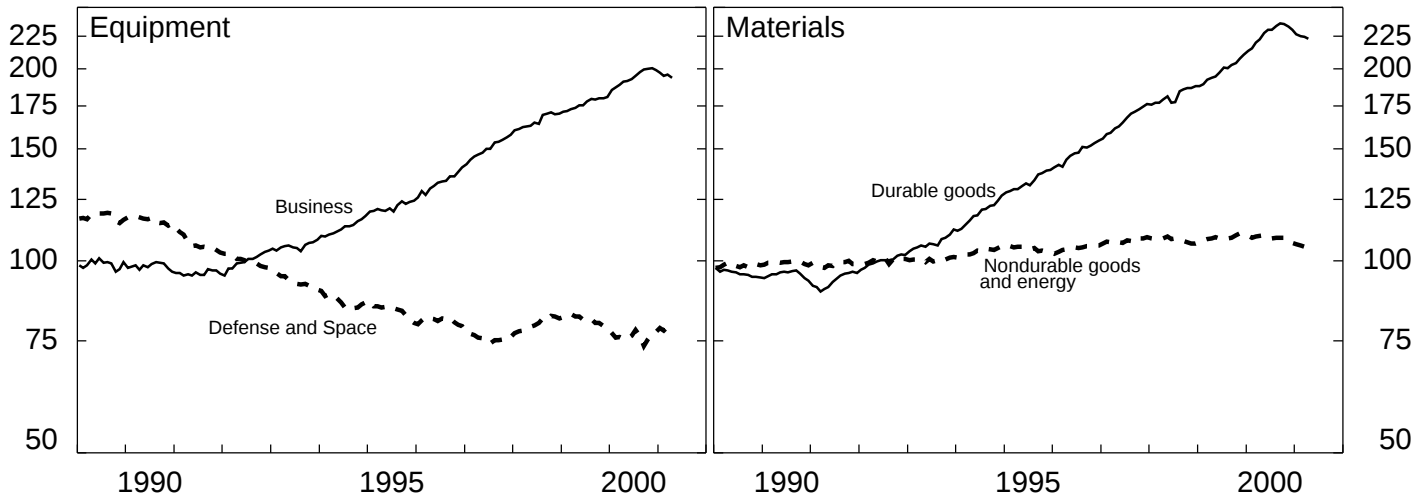


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS

Item	2000 IP Proportion ¹	Index, 1992=100											
		Seasonally Adjusted						Not seasonally adjusted					
		2000 Nov.	Dec.	2001 Jan. [†]	Feb. [†]	Mar. [†]	Apr. [‡]	2000 Nov.	Dec.	2001 Jan. [†]	Feb. [†]	Mar. [†]	Apr. [‡]
Total index	100.00	148.2	147.3	146.0	145.5	145.3	144.9	148.6	146.1	144.9	145.5	146.7	142.8
Products, total	60.78	136.3	136.0	135.0	134.7	134.8	134.3	136.9	134.7	134.9	134.8	135.1	132.4
Final products	45.63	138.8	139.0	137.8	137.7	138.1	137.6	139.9	138.4	139.3	139.6	140.1	135.8
Consumer goods	28.73	122.4	123.1	121.8	122.3	122.4	122.2	121.9	121.5	124.2	124.1	124.1	119.8
Durable	6.10	154.3	153.4	148.9	150.3	154.5	154.0	155.4	144.0	144.2	157.2	164.8	158.9
Automotive products	2.88	143.6	140.7	133.8	136.5	144.9	145.8	140.7	128.0	128.6	145.4	158.7	150.4
Autos and trucks	1.84	153.0	144.1	136.2	141.0	154.5	156.2	149.9	126.5	129.4	156.6	176.3	162.8
Autos	.54	103.0	94.3	99.4	98.7	104.1	102.4	102.3	83.4	94.3	106.3	115.7	105.9
Trucks	1.29	204.3	194.7	175.5	185.2	206.3	210.8	199.1	170.4	166.9	208.5	237.8	220.3
Auto parts and allied goods	1.04	128.2	133.8	128.4	128.2	129.2	129.0	125.7	128.1	125.6	127.7	132.0	131.0
Other durable goods	3.23	163.7	164.7	162.7	162.8	162.9	160.9	168.6	158.5	158.4	167.5	169.5	166.0
Appliances and electronics	.96	332.7	341.7	332.0	329.5	336.4	336.1	357.0	325.2	322.2	347.0	345.0	322.6
Appliances and air cond.	.51	141.8	147.0	147.1	149.6	152.5	151.6	150.2	130.4	139.3	158.4	160.6	150.2
Home electronics	.45	783.0	796.9	749.6	723.1	739.6	743.3	849.4	809.8	744.7	753.3	730.9	683.2
Carpeting and furniture	.86	125.4	127.4	123.9	128.2	126.8	125.0	121.9	117.0	119.7	126.9	125.1	129.4
Miscellaneous	1.41	117.1	115.5	116.5	114.8	114.2	112.0	121.1	115.1	114.2	119.0	123.7	120.9
Nondurable	22.63	114.6	115.7	114.9	115.3	114.7	114.6	113.9	115.6	118.7	116.1	114.7	110.8
Nonenergy	19.19	114.2	113.9	114.3	114.4	113.8	113.8	113.9	109.7	111.5	111.7	111.8	110.8
Foods and tobacco	9.97	110.7	110.1	110.3	110.6	109.9	109.9	110.0	102.5	106.5	106.6	107.0	106.0
Clothing	1.39	83.2	82.4	82.6	80.3	80.3	79.2	83.2	79.8	77.0	78.1	78.0	76.5
Chemical products	4.95	138.5	139.0	139.1	141.6	141.8	142.1	137.0	138.3	139.3	140.4	140.9	139.8
Paper products	2.88	112.5	112.2	113.7	111.2	109.6	109.6	114.4	113.8	112.4	110.9	109.6	109.0
Energy products	3.44	117.3	126.1	119.0	120.5	120.0	119.2	114.5	149.2	159.6	141.4	131.7	111.1
Fuels	1.34	115.5	112.3	112.0	114.7	114.1	116.4	117.8	114.7	107.8	109.0	108.6	116.6
Utilities	2.10	117.6	134.5	122.8	123.5	123.1	120.2	112.3	173.0	195.1	163.7	147.6	107.5
Equipment, total	16.90	169.9	168.9	168.0	166.4	167.4	166.2	171.9	168.2	164.9	166.0	167.8	163.6
Business equipment	14.25	200.6	199.2	197.4	195.1	196.1	193.8	201.9	196.7	192.3	193.3	195.4	189.8
Information processing & related	5.92	336.7	335.9	337.4	331.8	329.9	328.5	344.1	340.5	327.0	316.7	316.4	316.5
Computer and office	1.64	1305.0	1318.3	1310.6	1298.2	1301.3	1300.1	1405.9	1359.5	1260.2	1191.1	1193.8	1230.5
Industrial	4.23	147.4	145.8	145.7	141.5	142.3	139.8	146.2	142.9	143.4	142.7	143.7	136.9
Transit	2.60	121.8	117.4	111.7	112.4	116.7	115.3	121.1	112.3	109.1	117.3	124.0	115.7
Autos and trucks	1.26	130.4	122.0	115.6	119.3	128.8	124.6	127.8	107.2	110.2	130.6	144.5	130.3
Other	1.49	148.6	153.5	149.3	153.8	153.3	149.9	147.6	144.8	142.4	154.5	153.7	149.4
Defense and space equipment	1.94	77.0	77.5	78.5	77.9	78.8	79.8	78.1	79.5	78.3	78.4	79.1	77.7
Oil and gas well drilling	.52	138.9	139.1	146.7	147.9	150.7	155.3	140.4	139.2	145.5	147.1	148.1	153.9
Manufactured homes	.18	90.9	83.5	73.5	81.0	79.6	78.9	87.7	66.8	65.5	79.8	83.0	84.6
Intermediate products	15.15	128.5	126.8	126.7	126.0	125.0	124.5	128.2	123.8	122.4	120.9	120.6	122.4
Construction supplies	6.13	141.6	140.6	140.7	139.7	139.2	138.4	141.8	133.6	130.9	132.3	134.1	137.8
Business supplies	9.02	120.7	118.5	118.4	117.9	116.7	116.3	120.2	117.8	117.2	114.1	112.6	113.4
Materials	39.22	169.9	167.8	165.9	164.8	164.3	163.9	169.9	166.9	162.7	164.9	167.7	161.7
Durable	22.78	232.9	230.3	226.6	224.9	224.3	223.1	234.7	230.4	219.0	223.2	231.3	218.3
Consumer parts	4.49	161.8	157.6	146.1	149.4	153.3	153.7	161.8	141.6	142.9	157.2	165.1	158.8
Equipment parts	8.68	521.4	522.3	517.5	513.7	510.3	506.5	531.3	553.9	494.9	495.5	532.4	471.9
Semiconductors, printed circuit boards, and oth. elec. comps.	3.73	3176.0	3218.0	3130.8	3093.8	3048.7	3023.7	3237.1	3532.6	2820.2	2855.2	3350.8	2632.1
Other	9.61	131.8	129.6	130.1	127.4	126.0	125.0	131.8	127.8	126.1	126.3	125.6	124.6
Basic metals	3.00	124.4	123.6	121.2	118.8	116.7	115.7	124.3	121.3	120.3	120.7	119.9	117.7
Nondurable	8.38	110.7	108.6	107.5	106.8	104.7	104.9	110.2	104.6	106.0	108.2	105.5	106.8
Textile	.73	89.5	90.3	91.0	88.0	87.9	86.2	90.1	82.6	88.1	88.2	88.8	88.1
Paper	1.53	113.4	109.4	110.3	112.1	105.3	105.8	112.0	106.4	111.5	115.1	106.0	106.1
Chemical	4.31	113.7	109.8	108.5	107.7	106.5	106.9	113.3	106.9	106.7	109.4	106.9	109.6
Other	1.80	111.9	113.9	111.0	109.7	108.5	108.6	111.5	108.7	108.5	109.2	110.1	109.9
Energy	8.06	105.4	104.5	104.4	104.2	105.1	105.4	103.6	105.5	106.1	105.2	105.8	103.2
Primary	5.78	99.3	98.6	100.3	99.4	101.0	101.4	98.2	99.5	101.1	101.2	102.1	100.5
Converted fuel	2.28	118.7	117.3	111.8	113.7	112.4	112.5	115.0	118.5	116.0	112.3	111.7	106.5
SPECIAL AGGREGATES													
Total excluding:													
Autos and trucks	96.90	148.4	147.8	146.6	146.0	145.5	145.0	148.9	147.0	145.6	145.5	146.2	142.7
Motor vehicles and parts	94.28	147.7	147.2	146.5	145.6	144.9	144.4	148.2	146.9	145.4	144.9	145.2	141.8
Computers	97.63	140.8	139.9	138.6	138.1	138.0	137.5	140.8	138.5	137.5	138.4	139.5	135.7
Computers and semiconductors ²	93.47	125.0	124.1	123.1	122.7	122.7	122.3	124.9	122.2	122.6	123.3	123.6	121.2
Computers, communications eq. and semiconductors	91.53	122.0	121.1	120.1	119.7	119.7	119.3	121.8	119.0	119.5	120.3	120.6	118.3
Consumer goods excluding:													
Autos and trucks	26.90	120.6	121.9	120.8	121.1	120.7	120.4	120.4	121.1	123.7	122.3	121.4	117.5
Energy	25.29	122.9	122.5	122.0	122.3	122.6	122.5	122.8	117.3	118.8	121.4	122.9	121.0
Business equipment excluding:													
Autos and trucks	12.99	209.4	208.9	207.7	204.6	204.4	202.5	211.0	208.0	202.6	201.0	201.5	197.0
Computer and office equipment	12.61	161.5	159.9	158.4	156.5	157.4	155.3	160.6	156.8	154.4	156.6	158.5	152.7
Materials excluding:													
Energy	31.16	190.4	187.8	185.1	183.8	182.5	181.8	191.3	186.1	179.9	183.4	187.1	179.8

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

2. Semiconductors include related electronic components.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS

Percent change

Item	1999 Q4 to 2000 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Apr. 00 to Apr. 01
		2000 Q2	Q3	Q4	2001 Q1 ^r	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	
Total index	4.2	7.9	3.5	−.9	−6.5	−.9	−.4	−.1	−.3	−.9	.4	.8	−2.6	−1.0
Products, total	3.0	4.9	2.2	−.5	−3.8	−.7	−.2	.1	−.4	.2	−.1	.2	−2.0	−.7
Final products	3.7	6.0	3.5	.1	−3.0	−.9	−.1	.3	−.4	.6	.2	.4	−3.1	.3
Consumer goods	.6	4.3	−.5	−2.4	−1.9	−1.1	.4	.1	−.2	2.2	−.1	.0	−3.5	−.8
Durable	−4.4	4.4	−8.9	−13.1	−9.3	−2.9	.9	2.8	−.4	.2	9.0	4.9	−3.6	−6.5
Automotive products	−6.9	5.5	−10.8	−21.9	−14.9	−4.9	2.1	6.1	.6	.5	13.1	9.2	−5.3	−7.5
Autos and trucks	−10.4	10.9	−15.2	−32.3	−19.8	−5.5	3.5	9.6	1.0	2.2	21.1	12.6	−7.7	−10.1
Autos	−11.5	10.0	−2.0	−45.0	−3.7	5.4	−.7	5.5	−1.7	13.0	12.7	8.9	−8.4	−13.6
Trucks	−9.9	11.3	−20.5	−25.9	−25.8	−9.9	5.5	11.4	2.1	−2.1	24.9	14.1	−7.4	−8.7
Auto parts and allied goods	−.6	−3.7	−2.1	−.5	−6.4	−4.1	−.1	.7	−.1	−2.0	1.6	3.4	−.8	−2.7
Other durable goods	−2.2	3.6	−7.1	−4.5	−4.3	−1.2	.0	.1	−1.2	−.1	5.7	1.2	−2.1	−5.6
Appliances and electronics	−1.3	11.4	−13.4	8.0	−3.5	−2.9	−.7	2.1	−.1	−.9	7.7	−.6	−6.5	−1.5
Appliances and air cond.	−4.5	−5.2	−25.8	−.7	19.1	.1	1.7	1.9	−.6	6.9	13.7	1.4	−6.4	−1.0
Home electronics	2.8	31.8	1.3	17.4	−23.6	−5.9	−3.5	2.3	.5	−8.0	1.2	−3.0	−6.5	−2.3
Carpeting and furniture	.6	5.8	−.7	−9.2	−3.8	−2.7	3.5	−1.1	−1.4	2.3	6.1	−1.5	3.5	−5.2
Miscellaneous	−4.2	−2.9	−6.2	−9.7	−5.1	.9	−1.5	−.5	−1.9	−.8	4.2	4.0	−2.3	−8.7
Nondurable	2.0	4.2	2.0	.6	.1	−.7	.3	−.5	−.1	2.7	−2.2	−1.2	−3.5	.8
Nonenergy	1.2	3.6	1.6	−1.0	.0	.3	.1	−.5	.0	1.7	.2	.1	−.9	.1
Foods and tobacco	.9	.2	1.2	−2.0	−.4	.1	.3	−.7	.1	3.8	.1	.4	−.9	−.8
Clothing	−4.4	−2.4	−9.6	−7.0	−8.0	.2	−2.8	.0	−1.4	−3.5	1.4	.0	−1.9	−9.5
Chemical products	2.5	13.8	.7	1.2	5.9	.1	1.8	.1	.2	.7	.8	.3	−.8	4.1
Paper products	3.1	2.2	10.6	1.5	−4.5	1.3	−2.1	−1.4	.0	−1.3	−1.3	−1.2	−.5	1.3
Energy products	6.7	7.9	4.5	10.0	.7	−5.7	1.3	−.4	−.7	7.0	−11.4	−6.9	−15.7	5.0
Fuels	1.7	5.2	3.6	−.9	.1	−.2	2.4	−.5	2.0	−6.0	1.1	−.4	7.4	3.9
Utilities	9.9	10.2	5.0	17.7	1.1	−8.7	.6	−.4	−2.4	12.8	−16.1	−9.8	−27.2	5.6
Equipment, total	8.9	8.9	10.5	4.3	−4.7	−.5	−1.0	.6	−.7	−2.0	.6	1.1	−2.5	2.1
Business equipment	11.0	10.7	12.1	5.2	−7.3	−.9	−1.2	.5	−1.1	−2.3	.5	1.1	−2.9	1.4
Information processing & related	23.1	20.2	26.5	18.5	−2.3	.5	−1.6	−.6	−.4	−4.0	−3.2	−.1	.0	10.0
Computer and office	45.4	35.1	57.7	28.0	.0	−.6	−.9	.2	−.1	−7.3	−5.5	.2	3.1	22.4
Industrial	7.3	5.2	8.1	1.3	−9.2	−.1	−2.9	.6	−1.8	.4	−.6	.7	−4.7	−2.1
Transit	−8.8	−2.6	−8.2	−20.5	−20.5	−4.9	.6	3.8	−1.2	−2.8	7.5	5.7	−6.7	−12.2
Autos and trucks	−15.1	1.2	−26.8	−35.7	−19.4	−5.2	3.2	8.0	−3.3	2.8	18.6	10.6	−9.8	−20.4
Other	12.5	15.4	6.6	13.4	−.1	−2.8	3.0	−.3	−2.2	−1.7	8.5	−.5	−2.8	2.2
Defense and space equipment	−3.3	−2.8	.7	3.6	9.9	1.4	−.9	1.2	1.2	−1.5	.1	.9	−1.8	5.6
Oil and gas well drilling	18.9	17.6	20.2	8.5	33.3	5.5	.8	1.9	3.0	4.6	1.1	.7	4.0	22.6
Manufactured homes	−37.1	−28.1	−29.0	−59.1	−46.1	−12.0	10.2	−1.8	−.8	−2.0	21.9	4.1	1.9	−38.0
Intermediate products	.9	1.7	−1.7	−2.3	−6.4	−.1	−.5	−.8	−.4	−1.1	−1.2	−.3	1.5	−3.7
Construction supplies	.3	.3	−1.1	−4.7	−4.6	.0	−.7	−.3	−.6	−2.0	1.1	1.4	2.8	−4.2
Business supplies	1.3	2.7	−2.1	−.5	−7.6	−.1	−.4	−1.0	−.3	−.6	−2.6	−1.4	.7	−3.4
Materials	6.2	12.7	5.6	−1.6	−10.4	−1.1	−.6	−.4	−.2	−2.5	1.3	1.7	−3.6	−1.3
Durable	12.1	21.1	11.9	−1.0	−12.2	−1.6	−.8	−.3	−.5	−5.0	1.9	3.7	−5.7	.2
Consumer parts	.2	4.5	−1.8	−6.0	−28.5	−7.3	2.2	2.6	.3	.9	10.0	5.0	−3.8	−5.3
Equipment parts	36.1	57.0	36.2	11.5	−4.5	−.9	−.7	−.7	−.7	−10.6	.1	7.4	−11.4	12.1
Semiconductors, printed circuit boards, and oth. elec. comps.	82.2	136.5	72.2	26.1	−9.2	−2.7	−1.2	−1.5	−.8	−20.2	1.2	17.4	−21.4	23.4
Other	−1.7	1.5	−2.0	−9.8	−11.3	.4	−2.1	−1.1	−.7	−1.3	.2	−.6	−.8	−7.9
Basic metals	−4.0	2.9	−8.1	−11.2	−17.1	−2.0	−2.0	−1.7	−.9	−.8	.3	−.7	−1.8	−12.3
Nondurable	−5.2	−1.1	−7.6	−7.7	−15.4	−1.0	−.6	−2.0	.2	1.3	2.0	−2.4	1.2	−8.9
Textile	−9.7	−1.1	−13.1	−23.8	−9.7	.8	−3.3	−.2	−1.9	6.7	.1	.7	−.8	−14.7
Paper	−4.5	1.4	−13.6	−1.8	−13.6	.8	1.6	−6.1	.5	4.8	3.2	−8.0	.1	−10.8
Chemical	−6.2	−.6	−6.8	−11.7	−18.3	−1.2	−.7	−1.1	.4	−.1	2.5	−2.3	2.5	−9.5
Other	−1.5	−4.5	−1.7	4.9	−12.1	−2.6	−1.2	−1.0	.1	−.2	.6	.8	−.2	−3.5
Energy	1.4	3.7	1.8	3.1	.0	−.1	−.2	.9	.3	.5	−.8	.5	−2.4	1.8
Primary	−.2	6.2	.9	−.6	7.0	1.7	−.8	1.6	.3	1.5	.1	.9	−1.6	2.6
Converted fuel	5.2	−1.9	4.2	12.9	−16.2	−4.6	1.6	−1.1	.1	−2.1	−3.2	−.5	−4.6	−.4
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	4.8	7.9	4.4	.3	−6.1	−.8	−.5	−.3	−.3	−.9	−.1	.5	−2.4	−.5
Motor vehicles and parts	4.9	7.8	4.5	.6	−5.0	−.5	−.6	−.5	−.3	−1.0	−.3	.2	−2.3	−.4
Computers	3.3	7.3	2.4	−1.6	−6.6	−.9	−.4	−.1	−.3	−.7	.6	.8	−2.7	−1.5
Computers and semiconductors ²	.7	3.5	−.2	−2.7	−6.5	−.8	−.3	.0	−.3	.3	.6	.2	−1.9	−2.5
Computers, communications eq. and semiconductors	.0	2.9	−.9	−3.4	−6.7	−.8	−.3	.0	−.3	.5	.6	.2	−1.9	−2.9
Consumer goods excluding:														
Autos and trucks	1.4	3.8	.7	−.1	−.7	−.9	.2	−.4	−.2	2.2	−1.2	−.8	−3.2	−.1
Energy	−.2	3.8	−1.1	−4.0	−2.2	−.4	.3	.2	−.1	1.3	2.2	1.2	−1.5	−1.5
Business equipment excluding:														
Autos and trucks	13.9	11.8	16.8	9.9	−6.3	−.6	−1.5	−.1	−1.0	−2.6	−.8	.3	−2.2	3.7
Computer and office equipment	6.8	7.6	6.7	2.2	−8.4	−1.0	−1.2	.5	−1.3	−1.5	1.4	1.2	−3.6	−1.3
Materials excluding:														
Energy	7.3	14.8	6.4	−2.8	−13.0	−1.4	−.7	−.7	−.4	−3.4	2.0	2.0	−3.9	−2.3

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

1. Semiconductors include related electronic components.

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Item	SIC	2000 IP Proportion ¹	Index, 1992=100											
			Seasonally Adjusted						Not seasonally adjusted					
			2000 Nov.	Dec.	2001 Jan. [†]	Feb. [†]	Mar. [†]	Apr. [‡]	2000 Nov.	Dec.	2001 Jan. [†]	Feb. [†]	Mar. [†]	Apr. [‡]
Total index		100.00	148.2	147.3	146.0	145.5	145.3	144.9	148.6	146.1	144.9	145.5	146.7	142.8
Manufacturing		87.40	154.1	152.6	151.3	150.7	150.3	149.8	155.2	150.0	147.4	149.6	151.4	148.5
Primary processing		34.36	178.8	176.1	173.5	172.9	171.5	170.9	179.6	173.8	167.9	171.1	174.3	169.5
Advanced processing		53.04	140.5	139.6	139.0	138.4	138.5	138.0	140.7	135.9	135.1	136.7	137.8	135.9
Durable		47.81	196.7	195.1	192.3	191.0	191.9	190.7	198.1	192.6	186.2	190.3	195.8	187.9
Lumber and products	24	1.82	113.2	111.5	108.3	109.3	109.9	109.6	112.4	105.4	104.3	107.2	109.0	110.6
Furniture and fixtures	25	1.61	145.0	145.3	144.1	143.6	142.1	142.5	143.5	140.6	136.1	140.0	136.6	140.1
Stone, clay, and glass products	32	2.38	134.6	132.4	135.2	134.3	133.5	132.7	136.1	127.8	127.4	128.9	128.9	134.1
Primary metals	33	3.32	127.3	126.3	124.0	122.1	120.2	119.0	126.8	122.4	123.1	124.3	124.2	121.6
Iron and steel	331,2	1.73	122.0	118.7	116.0	115.2	114.1	112.3	120.0	113.9	114.3	117.5	118.4	116.8
Raw steel		.08	106.3	104.6	108.3	109.1	109.2	106.3	104.4	100.9	108.3	113.5	112.8	110.1
Nonferrous	333-6,9	1.59	133.6	135.2	133.4	130.3	127.4	127.0	134.9	132.3	133.5	132.3	131.0	127.4
Fabricated metal products	34	5.49	134.7	132.9	133.5	130.6	129.8	128.3	135.8	133.7	129.2	128.5	128.3	124.8
Industrial machinery and equipment	35	9.06	261.9	262.3	258.4	255.0	256.4	252.0	265.7	257.0	253.4	256.3	258.8	251.1
Computer and office equip.	357	2.37	1502.8	1508.3	1497.4	1484.6	1485.2	1482.6	1634.6	1573.4	1459.9	1377.2	1365.8	1387.0
Electrical machinery	36	9.02	604.4	610.2	604.3	597.3	591.1	585.6	615.9	636.9	568.6	575.5	613.2	548.4
Semiconductors and related electronic components	3672-9	4.16	2327.1	2353.7	2297.1	2270.9	2239.0	2214.2	2377.8	2575.5	2096.1	2119.5	2445.1	1958.6
Transportation equipment	37	9.25	126.8	122.8	116.0	118.5	124.0	124.2	126.4	114.5	114.2	124.4	133.7	126.1
Motor vehicles and parts	371	5.72	160.1	151.8	138.6	145.3	155.9	155.8	158.7	132.3	135.2	157.3	175.3	162.8
Autos and light trucks		2.80	140.1	131.5	125.9	129.7	141.5	142.6	137.4	115.5	119.5	143.5	160.9	148.4
Aerospace and misc.	372-6,9	3.52	95.4	95.3	94.3	93.0	93.7	94.2	95.9	97.1	94.0	93.4	94.8	91.6
Instruments	38	4.54	124.6	123.1	125.0	123.0	122.7	123.8	123.6	122.6	121.7	120.3	120.5	120.4
Miscellaneous	39	1.31	130.2	129.4	130.4	128.2	126.6	125.2	133.5	131.1	126.4	126.1	126.7	123.3
Nondurable		39.59	115.5	114.1	114.0	114.0	112.8	112.8	116.0	111.3	111.6	112.3	111.4	112.2
Foods	20	8.81	115.0	114.2	114.1	114.9	114.4	114.4	115.4	110.8	109.3	108.8	109.4	110.5
Tobacco products	21	1.71	93.1	94.2	95.2	93.7	91.7	92.3	90.5	71.0	96.5	99.3	98.7	89.2
Textile mill products	22	1.23	92.8	94.5	93.0	92.9	93.1	90.7	91.5	83.0	87.9	91.2	92.0	94.3
Apparel products	23	1.41	89.2	88.2	88.9	86.5	86.9	85.6	89.7	88.1	85.4	85.0	85.5	82.2
Paper and products	26	3.30	114.7	112.7	111.8	112.5	107.3	108.0	113.1	108.6	112.3	115.1	108.4	108.6
Printing and publishing	27	6.58	111.2	109.2	109.6	108.5	107.1	106.7	112.2	107.9	104.3	103.8	101.9	105.3
Chemicals and products	28	10.33	124.8	122.9	121.8	122.4	121.7	121.8	126.8	123.8	124.2	125.6	125.0	125.7
Petroleum products	29	2.39	116.9	114.7	115.1	116.5	116.2	118.7	117.3	113.2	107.0	108.1	109.4	118.6
Rubber and plastics products	30	3.65	139.1	137.3	138.5	136.9	135.3	134.5	140.3	137.9	136.4	136.9	135.6	132.6
Leather and products	31	.17	68.9	66.9	67.1	65.0	63.3	63.3	69.8	67.4	64.7	63.7	63.1	62.0
Mining		6.69	101.1	99.6	101.0	101.3	102.4	103.1	101.3	98.9	98.9	100.1	101.8	103.0
Metal mining	10	.22	93.7	99.5	94.6	92.6	91.1	92.0	94.2	99.9	92.9	93.6	90.8	91.8
Coal mining	12	.55	108.6	106.1	115.2	110.7	116.6	116.8	109.3	103.7	113.1	115.7	119.4	114.7
Oil and gas extraction	13	5.36	96.6	95.2	96.1	96.9	97.6	98.3	96.5	96.3	96.3	97.5	98.3	98.4
Stone and earth minerals	14	.56	123.2	119.3	121.7	121.8	123.3	123.4	127.5	96.6	89.7	89.2	101.4	123.3
Utilities		5.91	121.9	129.1	124.0	123.1	123.6	122.3	116.8	145.9	158.0	140.0	133.2	111.6
Electric	491,3pt	4.45	127.3	131.2	126.7	123.9	125.5	125.3	115.5	128.9	132.2	120.6	118.4	109.8
Gas	492,3pt	1.46	104.5	120.2	113.7	117.6	115.5	111.3	116.4	187.2	222.4	188.1	169.4	114.8
SPECIAL AGGREGATES														
Computers, communications eq. and semiconductors ²		8.47	1358.1	1368.9	1351.7	1338.6	1326.7	1314.0	1413.9	1464.5	1283.2	1263.6	1352.2	1210.7
Manufacturing excluding:														
Motor vehicles and parts		81.67	153.8	152.7	152.2	151.2	150.1	149.6	155.0	151.1	148.2	149.1	149.9	147.6
Computer and office equipment		85.02	145.4	143.9	142.7	142.2	141.8	141.3	146.0	141.1	139.0	141.3	143.1	140.2
Computers and semiconductors ²		80.87	127.1	125.6	124.7	124.3	124.0	123.6	127.4	122.3	121.8	123.9	124.5	123.3
Computers, communications eq. and semiconductors ²		78.92	123.6	122.1	121.1	120.7	120.5	120.2	123.8	118.5	118.2	120.4	121.0	119.9
Memo: Motor vehicle assemblies³														
Total			11.7	11.0	10.5	10.6	11.4	11.6	11.6	9.3	10.5	10.7	13.1	11.7
Autos			5.0	4.7	4.9	4.8	5.1	5.1	5.0	3.9	4.9	4.7	5.7	5.1
Trucks			6.7	6.3	5.6	5.8	6.3	6.5	6.5	5.3	5.6	6.0	7.4	6.6
Light			6.3	6.0	5.3	5.5	6.0	6.3	6.2	5.1	5.3	5.7	7.1	6.4
Heavy and medium			.3	.3	.3	.3	.3	.2	.3	.3	.3	.3	.3	.2

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

2. Semiconductors include related electronic components.

3. 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, stone, clay, and glass products, semiconductors and related electronic components, and motor vehicle parts. 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 except semiconductors and related electronic components, transportation equipment except motor vehicle parts, instruments, and miscellaneous manufactures.

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Percent change

Item	SIC	1999 Q4 to 2000 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Apr. 00 to Apr. 01
			2000 Q2	Q3	Q4	2001 Q1 ^r	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p	
Total index		4.2	7.9	3.5	−.9	−6.5	−.9	−.4	−.1	−.3	−.9	.4	.8	−2.6	−1.0
Manufacturing		4.3	8.0	3.7	−1.6	−7.7	−.8	−.4	−.2	−.3	−1.7	1.5	1.2	−1.9	−1.6
Primary processing		5.6	12.5	3.8	−3.6	−12.9	−1.5	−.3	−.8	−.3	−3.4	1.9	1.9	−2.7	−3.5
Advanced processing		3.4	5.1	3.7	−.2	−4.3	−.4	−.4	.1	−.4	−.6	1.2	.8	−1.4	−.4
Durable		8.4	13.7	8.1	−.4	−9.2	−1.4	−.7	.4	−.6	−3.3	2.2	2.9	−4.0	−.1
Lumber and products	24	−7.3	−6.7	−10.5	−12.4	−13.4	−2.8	.9	.5	−.3	−1.1	2.8	1.7	1.4	−9.9
Furniture and fixtures	25	5.6	6.5	7.2	4.2	−6.8	−.8	−.3	−1.1	.3	−3.1	2.8	−2.4	2.6	1.3
Stone, clay, and glass products	32	.9	.9	7.3	−4.3	−1.4	2.1	−.7	−.6	−.6	−.3	1.2	.0	4.0	−.1
Nonferrous	333−6.9	−2.4	2.2	−3.4	−6.4	−12.3	−1.3	−2.3	−2.2	−.4	.9	−.9	−1.0	−2.8	−8.7
Fabricated metal products	34	1.0	1.5	.5	−4.6	−9.2	.5	−2.2	−.6	−1.1	−3.3	−.6	−.1	−2.7	−5.6
Industrial machinery and equipment	35	14.4	12.4	13.3	7.4	−7.9	−1.5	−1.3	.5	−1.7	−1.4	1.2	1.0	−3.0	1.9
Computer and office equip.	357	42.0	33.0	51.9	24.8	−2.8	−.7	−.9	.0	−.2	−7.2	−5.7	−.8	1.6	19.1
Electrical machinery	36	39.0	58.8	39.1	16.7	−4.2	−1.0	−1.2	−1.0	−.9	−10.7	1.2	6.6	−10.6	13.4
Semiconductors and related electronic components	3672−9	73.4	120.5	66.4	23.3	−8.7	−2.4	−1.1	−1.4	−1.1	−18.6	1.1	15.4	−19.9	20.9
Transportation equipment	37	−4.1	4.7	−6.2	−13.4	−19.9	−5.6	2.2	4.6	.2	−.2	8.9	7.5	−5.7	−6.0
Motor vehicles and parts	371	−6.4	9.9	−11.2	−23.6	−29.0	−8.7	4.8	7.3	.0	2.2	16.4	11.4	−7.1	−10.5
Autos and light trucks		−10.5	10.9	−13.8	−33.9	−18.1	−4.3	3.0	9.1	.7	3.4	20.1	12.1	−7.8	−10.5
Aerospace and misc.	372−6.9	−.4	−3.5	2.9	5.4	−4.5	−1.1	−1.4	.8	.5	−3.2	−.6	1.5	−3.4	1.7
Instruments	38	1.9	5.2	5.1	1.8	−.5	1.5	−1.6	−.3	.9	−.8	−1.1	.2	−.2	1.9
Miscellaneous	39	.0	−.9	1.7	−3.1	−5.5	.8	−1.7	−1.3	−1.0	−3.6	−.3	.5	−2.7	−4.3
Nondurable		−.7	1.2	−1.5	−3.0	−5.9	−.1	.0	−1.1	.0	.3	.6	−.8	.7	−3.3
Foods	20	1.4	1.7	1.1	−.8	−.5	.0	.7	−.4	−.1	−1.3	−.5	.5	1.0	−.3
Tobacco products	21	−2.7	−9.1	3.2	−8.0	−.6	1.1	−1.6	−2.1	.6	35.9	3.0	−.6	−9.7	−3.5
Textile mill products	22	−7.9	−2.4	−13.1	−18.8	−6.9	−1.6	.0	.2	−2.7	5.9	3.8	.8	2.5	−13.1
Apparel products	23	−5.3	−4.2	−9.1	−8.0	−6.2	.9	−2.7	.4	−1.4	−3.1	−.5	.6	−3.9	−9.5
Paper and products	26	−3.1	1.2	−12.7	3.2	−14.2	−.8	.6	−4.6	.7	3.4	2.5	−5.8	.2	−8.8
Printing and publishing	27	1.5	.6	4.1	.8	−8.0	.4	−.9	−1.4	−.3	−3.3	−.5	−1.8	3.3	−2.1
Chemicals and products	28	−1.3	3.3	−1.4	−2.8	−7.8	−.8	.5	−.6	.1	.4	1.1	−.5	.6	−2.8
Petroleum products	29	1.2	8.2	−3.2	−4.5	−.3	.3	1.2	−.2	2.2	−5.4	1.0	1.3	8.4	1.3
Rubber and plastics products	30	−1.9	.1	−1.0	−9.7	−6.4	.9	−1.2	−1.2	−.6	−1.1	.4	−.9	−2.2	−6.3
Leather and products	31	−4.4	−7.5	−2.4	−7.8	−16.6	.2	−3.1	−2.6	.0	−4.1	−1.5	−.9	−1.8	−9.7
Mining		1.3	2.3	2.8	−1.5	5.4	1.4	.3	1.1	.6	.0	1.2	1.6	1.2	3.2
Metal mining	10	−1.5	−10.3	−5.5	2.0	−14.5	−4.9	−2.2	−1.6	1.0	−7.0	.7	−3.0	1.1	−6.9
Coal mining	12	−.1	25.9	−13.2	−2.0	23.5	8.6	−4.0	5.4	.2	9.1	2.4	3.2	−3.9	3.7
Oil and gas extraction	13	2.0	1.5	6.5	−1.1	5.2	1.0	.8	.8	.7	.0	1.2	.8	.1	4.6
Stone and earth minerals	14	−3.1	−7.9	−8.9	−6.4	−.3	2.0	.1	1.2	.1	−7.1	−.6	13.7	21.6	−5.3
Utilities		6.5	11.8	1.0	9.3	−.3	−3.9	−.7	.4	−1.0	8.3	−11.4	−4.8	−16.2	3.1
Electric	491,3pt	6.3	13.1	−1.1	12.1	−6.7	−3.4	−2.2	1.2	−.1	2.6	−8.8	−1.8	−7.3	2.0
Gas	492,3pt	7.5	6.9	8.1	.7	21.2	−5.4	3.5	−1.8	−3.6	18.8	−15.4	−9.9	−32.3	6.6
SPECIAL AGGREGATES															
Computers, communications eq. and semiconductors ¹		55.3	70.4	56.9	25.2	−4.3	−1.3	−1.0	−.9	−1.0	−12.4	−1.5	7.0	−10.5	19.7
Manufacturing excluding:															
Motor vehicles and parts		5.0	7.9	4.9	.1	−6.2	−.3	−.7	−.7	−.4	−1.9	.6	.5	−1.5	−.9
Computer and office equipment		3.2	7.3	2.5	−2.3	−7.9	−.8	−.4	−.2	−.4	−1.5	1.7	1.3	−2.0	−2.2
Computers and semiconductors ¹		.2	3.0	−.5	−3.7	−7.9	−.7	−.3	−.2	−.3	−.4	1.7	.5	−1.0	−3.4
Computers, communications eq. and semiconductors ¹		−.5	2.4	−1.4	−4.5	−8.2	−.8	−.3	−.2	−.3	−.3	1.8	.6	−.9	−3.9

1. Semiconductors include related electronic components.

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	2000 Proportion	1967- 2000 Ave.	1978- 1980 High	1982 Low	1988- 1989 High	1990- 1991 Low	1994- 1995 High	2000 Apr.	2000 Nov.	Dec.	2001 Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^p
Total industry		100.00	82.1	87.3	71.1	85.4	78.1	84.4	82.5	81.4	80.6	79.7	79.2	78.9	78.5
Manufacturing		88.70	81.1	86.9	69.0	85.7	76.6	84.0	81.8	80.5	79.3	78.4	77.9	77.5	77.1
Primary processing		33.89	82.2	88.6	65.7	88.3	76.7	88.7	86.2	82.8	80.9	79.2	78.6	77.6	77.1
Advanced processing		54.81	80.6	86.3	71.0	84.2	76.6	81.3	79.8	79.7	79.0	78.6	78.1	78.1	77.7
Durable		49.19	79.6	87.7	63.9	84.6	73.1	83.6	82.4	80.8	79.5	77.9	77.0	77.0	76.2
Lumber and products	24	1.89	82.6	87.9	60.8	93.6	75.5	88.4	82.6	76.3	75.0	72.9	73.5	73.8	73.6
Furniture and fixtures	25	1.65	81.3	85.5	68.9	86.6	72.5	83.9	79.3	79.6	79.4	78.6	78.2	77.2	
Stone, clay, and glass products	32	2.31	78.9	88.0	64.3	83.5	69.7	82.4	84.1	83.9	82.3	83.9	83.2	82.5	81.9
Non-durable		3.13	81.6	94.2	45.1	92.7	73.7	95.4	90.0	82.9	82.2	80.7	79.5	78.3	77.5
Primary metals	33	1.67	81.4	95.8	37.0	95.2	71.8	98.5	89.4	79.4	77.2	75.5	75.0	74.3	73.2
Iron and steel	331,2	.08	80.9	95.8	35.2	92.7	71.5	98.4	86.9	71.8	70.5	73.1	73.8	73.9	72.1
Raw steel		1.45	82.1	91.1	60.1	89.3	74.2	92.6	90.7	87.1	88.2	86.9	84.9	83.0	82.6
Nonferrous	333-6,9	.03	76.2	81.5	42.1	86.3	73.5	102.1	70.4	73.4	74.2	82.9	80.1	79.0	
Primary copper	3331	.10	88.3	97.6	58.6	100.4	97.3	84.0	89.0	81.1	78.9	69.6	66.1	62.9	
Primary aluminum	3334														
Fabricated metal products	34	5.85	77.9	83.9	63.7	82.0	71.9	85.2	77.7	75.8	74.6	74.8	73.1	72.5	71.6
Industrial machinery and equipment	35	9.34	81.4	93.2	64.0	85.4	72.3	87.3	81.9	82.5	82.1	80.5	79.1	79.2	77.5
Computer and office equip.	357	2.79	81.2	92.6	65.5	86.9	66.9	85.9	76.3	78.4	76.9	75.2	73.6	72.7	71.6
Electrical machinery	36	9.26	81.4	89.4	71.6	84.0	75.0	90.1	89.5	87.1	85.5	82.9	80.5	78.4	76.6
Semiconductors and related electronic components	3672-9	4.36	80.0	91.6	75.7	81.1	75.6	90.8	97.5	88.1	84.7	79.7	76.5	73.5	71.1
Transportation equipment	37	9.75	76.1	84.8	57.2	85.8	68.5	77.0	78.5	75.1	72.7	68.6	70.0	73.2	73.2
Motor vehicles and parts	371	5.74	77.0	95.0	45.5	89.1	55.9	85.9	83.8	76.2	72.1	65.8	68.9	73.8	73.7
Autos and light trucks ¹		2.67		94.6	40.6	92.3	53.3	86.1	89.3	78.2	73.4	70.2	72.3	78.9	79.5
Aerospace and misc.	372-6,9	4.01	75.2	81.9	66.6	87.3	79.2	69.1	70.9	73.3	73.3	72.5	71.5	72.1	72.5
Instruments	38	4.69	81.6	92.7	78.4	81.4	77.2	78.3	79.5	81.1	80.0	81.2	79.9	79.6	80.3
Miscellaneous	39	1.32	75.9	79.4	65.4	79.0	71.7	79.5	81.5	80.5	79.9	80.5	79.0	77.9	77.0
Nondurable		39.52	83.2	87.5	76.4	87.3	80.7	84.6	81.0	79.9	78.9	78.8	78.8	78.0	78.0
Foods	20	8.94	82.8	84.6	79.1	85.4	82.7	84.1	81.1	81.2	80.6	80.6	81.1	80.7	80.6
Textile mill products	22	1.26	85.5	91.2	72.3	90.4	77.7	92.6	84.1	75.6	77.1	76.0	76.2	76.6	74.8
Apparel products	23	1.64	80.6	87.5	77.5	85.1	75.5	85.9	72.9	69.7	69.0	69.7	67.9	68.3	67.3
Paper and products	26	3.18	88.7	96.1	80.6	93.5	85.0	91.6	86.4	83.2	81.7	81.0	81.3	77.5	78.0
Pulp and paper	261-3	1.10	92.3	98.3	82.0	98.0	89.9	96.8	93.7	89.0	85.9	86.0	86.9	82.9	
Printing and publishing	27	6.59	85.4	93.9	82.0	91.7	79.6	82.5	80.8	82.4	80.9	81.2	80.4	79.3	79.1
Chemicals and products	28	10.56	79.3	84.6	69.9	86.2	79.3	80.1	77.0	75.7	74.5	73.8	74.2	73.7	73.8
Plastics materials	2821	.88	86.9	90.9	63.4	97.0	74.8	103.0	91.5	87.7	79.8				
Synthetic fibers	2823,4	.26	85.1	98.6	64.4	99.7	77.6	90.7	88.3	83.6	75.3	77.5	78.0	78.5	
Petroleum products	29	1.97	87.3	90.0	66.8	88.5	85.1	93.0	95.1	94.9	93.2	93.5	94.6	94.4	96.4
Rubber and plastics products	30	3.58	84.7	91.2	72.7	89.6	77.4	91.3	85.0	80.8	79.5	80.1	79.0	78.0	77.4
Leather and products	31	.20	80.6	92.1	75.8	83.3	76.1	85.7	69.3	70.0	68.3	68.8	66.9	65.5	65.8
Mining		5.96	87.4	96.0	80.3	88.0	87.0	89.1	85.7	87.3	86.1	87.5	87.8	88.9	89.6
Metal mining	10	.23	79.4	87.9	44.4	89.4	79.9	90.3	80.8	77.5	82.5	78.6	77.0	75.9	76.7
Coal mining	12	.54	86.7	99.4	76.6	91.5	83.4	88.4	88.5	85.1	83.1	90.2	86.5	91.1	91.2
Oil and gas extraction	13	4.67	88.3	97.3	82.3	88.2	88.7	89.8	85.2	88.4	87.2	88.2	89.1	89.9	90.7
Oil and gas well drilling	138	.56	73.9	104.3	50.9	69.3	60.0	76.4	73.1	80.2	80.3	84.7	85.4	87.0	89.6
Stone and earth minerals	14	.53	84.8	92.7	63.3	89.0	79.4	91.7	89.4	84.5	81.8	83.4	83.6	84.6	84.7
Utilities		5.33	87.6	89.1	75.9	92.6	83.4	92.7	90.0	90.7	95.7	91.7	90.7	90.8	89.6
Electric	491,3pt	3.90	89.7	88.2	78.9	95.0	87.1	96.0	94.2	95.1	97.7	94.0	91.6	92.4	92.0
Gas	492,3pt	1.43	81.9	93.7	69.1	85.0	67.1	87.8	76.8	76.9	88.5	83.6	86.5	84.7	81.6
SPECIAL AGGREGATES															
Computers, communications eq. and semiconductors ²		9.18	80.4	90.9	77.3	81.9	72.4	87.9	87.2	85.3	83.1	80.0	77.5	75.4	73.4
Manufacturing ex. computers, communications eq., and semiconductors ²		79.52	81.2	87.0	68.0	86.1	76.8	83.8	81.1	79.6	78.5	77.9	77.6	77.4	77.2

1. Series begins in 1977.

2. Semiconductors include related electronic components.

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, stone, clay, and glass products, semiconductors and related electronic components, and motor vehicle parts. 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 except semiconductors and related electronic components, transportation equipment except motor vehicle parts, instruments, and miscellaneous manufactures.

Table 4
INDUSTRIAL CAPACITY: MANUFACTURING, MINING, AND UTILITIES

Item		SIC		Percent change						Capacity indexes								
				Annual rate			Fourth quarter to fourth quarter			Percent of 1992 output								
				1967- 2001 Ave.	1967- 1975 Ave.	1975- 2001 Ave.	1997	1998	1999	2000	2001 ^p	2000 Apr.	2000 Nov.	Dec.	2001 Jan.	Feb.	Mar.	Apr.
Total industry				3.2	3.8	3.0	5.9	6.5	4.6	4.6	2.4	177.4	182.1	182.8	183.3	183.7	184.2	184.5
Manufacturing				3.6	4.0	3.4	6.5	7.2	5.1	5.0	2.7	186.1	191.5	192.3	192.9	193.5	194.0	194.4
Primary processing				3.9	4.4	3.7	8.5	9.4	4.9	8.0	4.2	205.5	216.0	217.7	219.0	220.1	221.0	221.8
Advanced processing				3.3	3.7	3.2	4.9	5.7	5.2	3.0	1.8	173.7	176.2	176.6	176.9	177.2	177.4	177.7
Durable				4.3	3.7	4.6	9.3	10.2	8.4	8.8	4.9	231.7	243.6	245.4	246.8	248.1	249.3	250.3
Lumber and products 24				1.9	2.9	1.6	3.3	3.7	1.6	1.2	.6	147.3	148.4	148.6	148.7	148.7	148.8	148.9
Furniture and fixtures 25				3.3	4.5	2.9	5.4	10.0	2.9	3.9	1.9	177.5	182.2	182.9	183.4	183.8	184.1	184.5
Stone, clay, and glass products 32				1.6	2.5	1.3	3.5	3.9	2.1	2.4	2.2	158.1	160.4	160.8	161.1	161.4	161.7	162.0
Primary metals 33				.6	1.7	.2	3.4	5.1	3.3	.6	−2	153.2	153.5	153.6	153.6	153.5	153.5	153.5
Iron and steel 331,2				−.1	.7	−.3	3.9	5.8	3.1	.9	−1.1	153.0	153.6	153.7	153.7	153.6	153.5	153.3
Raw steel				−.4	.3	−.7	6.1	6.5	2.8	1.7	−2.6	146.6	148.1	148.3	148.2	148.0	147.7	147.4
Nonferrous 333−6,9				1.8	3.8	1.1	2.9	4.4	3.4	.4	.8	153.3	153.4	153.4	153.4	153.5	153.6	153.7
Primary copper 3331				−.1	1.8	−.7	1.0	−1.1	−3.1	−2.9	−4.7	122.5	120.4	120.2	119.7	119.3	118.9	118.4
Primary aluminum 3334				1.1	5.2	−.3	.1	.7	1.5	1.3	−1.9	106.7	107.5	107.6	107.5	107.4	107.3	107.1
Fabricated metal products 34				2.1	3.1	1.7	6.3	6.0	1.8	2.5	1.8	174.8	177.7	178.1	178.4	178.8	179.0	179.3
Industrial machinery and equipment 35				6.2	4.7	6.7	11.4	11.8	18.1	10.6	4.9	301.9	317.3	319.5	321.0	322.5	323.9	325.3
Computer and office equip. 357				22.9	12.0	27.0	44.3	37.0	72.7	39.0	16.1	1630.9	1917.0	1962.0	1990.5	2017.7	2044.2	2070.6
Electrical machinery 36				10.3	5.9	11.9	26.5	28.2	18.4	33.3	17.0	577.3	693.9	713.6	728.7	742.2	754.2	764.7
Semiconductors and related electronic components 3672−9				22.2	13.1	25.4	46.3	55.2	31.8	70.1	26.2	1879.1	2642.5	2780.2	2880.9	2969.8	3047.1	3112.3
Transportation equipment 37				2.6	3.0	2.5	3.6	4.1	2.2	1.1	1.1	168.2	169.0	169.1	169.2	169.3	169.4	169.6
Motor vehicles and parts 371				3.4	4.4	3.0	6.2	4.7	2.7	2.1	1.4	207.8	210.1	210.4	210.7	210.9	211.2	211.4
Autos and light trucks ¹							5.2	4.4	.5	.8	.2	178.4	179.1	179.2	179.2	179.3	179.3	179.3
Aerospace and misc. 372−6,9				1.5	1.1	1.6	.6	3.1	1.6	−.4	.4	130.7	130.2	130.1	130.0	130.0	130.0	130.1
Instruments 38				4.5	7.6	3.4	1.1	3.4	5.8	1.8	.9	152.7	153.7	153.8	153.9	154.0	154.1	154.2
Miscellaneous 39				2.2	4.4	1.4	1.7	2.9	2.4	1.3	1.9	160.5	161.7	161.8	162.0	162.3	162.5	162.8
Nondurable				2.6	4.3	2.1	3.4	4.1	1.3	.8	−.1	144.0	144.6	144.7	144.7	144.7	144.6	144.6
Foods 20				2.3	3.0	2.0	2.3	2.8	2.2	.4	.8	141.5	141.6	141.7	141.7	141.8	141.9	141.9
Textile mill products 22				1.6	4.4	.7	−.2	−.2	−.5	−1.6	−3.5	124.1	122.8	122.6	122.3	122.0	121.6	121.3
Apparel products 23				.9	2.3	.5	.8	.8	−.9	−2.2	−1.1	129.8	128.0	127.8	127.6	127.4	127.3	127.2
Paper and products 26				2.7	3.9	2.3	3.3	4.3	.9	.8	.9	137.1	137.9	138.0	138.1	138.3	138.4	138.5
Pulp and paper 261−3				2.2	2.9	2.0	1.6	.3	.9	.7	1.2	124.0	124.4	124.5	124.6	124.7	124.8	124.9
Printing and publishing 27				2.6	3.0	2.4	3.0	3.5	.9	−.1	.3	135.0	135.0	134.9	135.0	135.0	135.0	135.0
Chemicals and products 28				3.7	6.8	2.6	5.5	7.0	1.4	2.4	.0	162.6	164.8	165.0	165.0	165.0	165.0	165.0
Plastics materials 2821				6.0	12.7	3.8	6.8	9.6	1.3	.5	1.2	151.5	152.3	152.4	152.6	152.7	152.9	153.0
Synthetic fibers 2823,4				3.3	9.7	1.2	2.0	2.8	−1.5	1.4	1.0	119.4	120.9	121.1	121.3	121.4	121.5	121.6
Petroleum products 29				1.5	4.2	.6	2.4	2.4	1.9	.0	.5	123.3	123.1	123.1	123.1	123.1	123.1	123.2
Rubber and plastics products 30				5.3	8.4	4.2	5.2	5.7	3.8	3.5	1.9	168.7	172.2	172.6	173.0	173.3	173.6	173.8
Leather and products 31				−3.2	−1.5	−3.8	−.6	−2.0	−3.5	−4.4	−5.4	101.0	98.3	98.0	97.5	97.1	96.6	96.2
Mining				.0	−.1	.1	1.9	−.1	−1.5	−.8	−1.3	116.6	115.8	115.7	115.5	115.3	115.2	115.1
Metal mining 10				1.1	.5	1.4	3.0	.8	−.1	−1.8	−1.2	122.3	120.8	120.5	120.4	120.2	120.1	119.9
Coal mining 12				2.1	2.4	2.0	.9	.3	.8	.6	1.0	127.3	127.7	127.7	127.8	127.9	128.0	128.1
Oil and gas extraction 13				−.6	−1.0	−.5	1.5	−.8	−2.4	−1.2	−1.7	110.3	109.3	109.1	108.9	108.7	108.6	108.4
Oil and gas well drilling 138				.5	.8	.5	3.5	1.4	−1.9	−.4	.0	173.3	173.2	173.2	173.2	173.3	173.3	173.3
Stone and earth minerals 14				1.3	2.6	.8	4.8	2.0	.4	.0	−.2	145.9	145.8	145.8	145.8	145.8	145.8	145.7
Utilities				2.8	6.1	1.6	1.0	1.1	2.4	3.3	4.1	131.9	134.5	134.8	135.3	135.7	136.1	136.6
Electric 491,3pt				3.7	7.8	2.3	.2	1.1	3.2	4.4	4.5	130.4	133.8	134.3	134.8	135.3	135.8	136.3
Gas 492,3pt				.4	2.3	−.2	1.1	.5	.1	−.1	1.8	135.9	135.8	135.8	135.9	136.1	136.2	136.4
SPECIAL AGGREGATES																		
Computers, communications eq. and semiconductors ²				18.0	9.5	21.0	40.3	39.5	37.8	47.6	21.5	1258.3	1591.5	1647.6	1688.6	1726.1	1760.2	1790.7
Manufacturing ex. computers, communications eq., and semiconductors ²				2.4	3.7	1.9	3.6	4.4	2.1	1.3	.6	154.3	155.3	155.4	155.5	155.6	155.6	155.7

p. Preliminary estimate for current year.

1. Series begins in 1977.

2. Semiconductors include related electronic components.

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																	
1989	.6	-.8	.9	.2	-.6	-.2	-1.0	.4	-.2	-.5	.4	.5	3.8	.5	-4.4	-.1	1.8
1990	-.5	.5	.5	-.6	.4	.0	.0	.2	.1	-.6	-1.3	-.6	2.0	.6	1.0	-5.8	-.2
1991	-.5	-.8	-.9	.3	.8	1.2	.1	.1	1.0	-.1	-.1	-.6	-8.3	1.5	6.2	1.1	-2.0
1992	.1	.5	.9	.7	.3	-.2	.7	-.3	.4	.7	.5	.0	1.0	6.5	2.4	5.0	3.1
1993	.4	.5	.2	.3	-.5	.3	.2	-.2	1.1	.3	.4	.8	3.8	1.5	1.9	6.2	3.5
1994	.2	.3	.8	.5	.8	.4	.6	.3	.1	.5	.7	1.0	5.5	7.7	5.8	6.3	5.4
1995	.6	-.1	.2	-.2	.4	.4	-.4	1.3	.6	-.4	.3	.1	6.0	1.1	4.4	2.9	4.8
1996	-.2	1.1	-.1	1.1	.8	.8	.0	.6	.5	.0	1.0	.4	2.8	9.2	5.4	5.3	4.6
1997	.5	1.0	.2	.6	.3	.6	.7	.9	.6	.6	.6	.3	7.6	6.1	7.9	7.3	6.8
1998	.4	.0	.3	.5	.4	-.7	-.1	2.1	-.3	.5	-.4	.1	3.6	3.0	3.4	2.9	4.9
1999	.6	.3	.7	.1	.7	.2	.8	.4	.1	.8	.3	.7	3.9	4.9	5.8	5.7	4.2
2000	.5	.5	.7	.7	.7	.5	-.2	.7	.2	-.2	-.3	-.6	6.7	7.9	3.5	-.9	5.6
2001	-.9	-.4	-.1	-.3									-6.5				
Industrial Production																	
1989	99.8	99.0	100.0	100.2	99.6	99.4	98.4	98.8	98.6	98.2	98.6	99.0	99.6	99.7	98.6	98.6	99.1
1990	98.6	99.1	99.6	99.0	99.4	99.3	99.3	99.5	99.6	99.1	97.7	97.2	99.1	99.2	99.5	98.0	98.9
1991	96.7	95.9	95.0	95.4	96.1	97.2	97.3	97.4	98.4	98.3	98.1	97.5	95.9	96.2	97.7	98.0	97.0
1992	97.6	98.1	99.0	99.7	100.0	99.7	100.4	100.2	100.5	101.3	101.8	101.8	98.2	99.8	100.4	101.6	100.0
1993	102.2	102.7	102.9	103.2	102.7	102.9	103.2	103.0	104.1	104.4	104.9	105.7	102.6	102.9	103.4	105.0	103.5
1994	105.9	106.2	107.1	107.6	108.5	109.0	109.6	110.0	110.2	110.7	111.5	112.6	106.4	108.4	109.9	111.6	109.1
1995	113.3	113.2	113.4	113.1	113.6	114.0	113.6	115.1	115.7	115.3	115.7	115.9	113.3	113.6	114.8	115.6	114.3
1996	115.6	116.9	116.8	118.1	119.0	120.0	119.9	120.6	121.2	121.2	122.4	122.9	116.4	119.0	120.6	122.2	119.6
1997	123.5	124.8	125.0	125.8	126.2	126.9	127.7	128.8	129.5	130.3	131.1	131.5	124.4	126.3	128.7	131.0	127.7
1998	132.0	132.0	132.4	133.1	133.6	132.7	132.5	135.3	134.9	135.5	135.0	135.1	132.1	133.1	134.2	135.2	134.0
1999	135.9	136.3	137.3	137.4	138.4	138.6	139.7	140.3	140.4	141.5	141.9	142.8	136.5	138.1	140.1	142.1	139.6
2000	143.6	144.3	145.2	146.3	147.2	147.9	147.6	148.6	149.0	148.7	148.2	147.3	144.4	147.1	148.4	148.1	147.5
2001	146.0	145.5	145.3	144.9									145.6				
Capacity																	
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	120.1	120.2	120.4	120.6	120.8	121.0	121.2	119.3	119.9	120.4	121.0	120.2
1991	121.4	121.6	121.7	121.9	122.1	122.2	122.4	122.6	122.7	122.9	123.0	123.2	121.6	122.1	122.6	123.0	122.3
1992	123.4	123.6	123.8	124.1	124.3	124.5	124.7	124.9	125.2	125.4	125.6	125.8	123.6	124.3	124.9	125.6	124.6
1993	126.0	126.3	126.5	126.7	126.9	127.2	127.4	127.7	127.9	128.2	128.5	128.8	126.3	126.9	127.7	128.5	127.3
1994	129.1	129.4	129.7	130.1	130.5	130.9	131.3	131.8	132.2	132.7	133.2	133.7	129.4	130.5	131.8	133.2	131.2
1995	134.2	134.7	135.3	135.8	136.4	137.0	137.6	138.2	138.8	139.4	140.0	140.6	134.7	136.4	138.2	140.0	137.3
1996	141.2	141.9	142.5	143.1	143.8	144.4	145.0	145.6	146.2	146.9	147.5	148.1	141.9	143.8	145.6	147.5	144.7
1997	148.8	149.4	150.1	150.8	151.5	152.3	153.0	153.8	154.6	155.4	156.2	157.1	149.4	151.5	153.8	156.2	152.7
1998	158.0	158.9	159.8	160.7	161.6	162.5	163.4	164.2	165.0	165.7	166.5	167.2	158.9	161.6	164.2	166.5	162.8
1999	167.9	168.6	169.2	169.9	170.5	171.1	171.7	172.3	172.9	173.5	174.1	174.8	168.6	170.5	172.3	174.1	171.4
2000	175.4	176.1	176.7	177.4	178.1	178.7	179.4	180.1	180.7	181.4	182.1	182.8	176.1	178.1	180.1	182.1	179.1
2001	183.3	183.7	184.2	184.5									183.7				
Utilization																	
1989	85.4	84.6	85.3	85.3	84.7	84.4	83.4	83.6	83.3	82.8	83.0	83.2	85.1	84.8	83.4	83.0	84.1
1990	82.7	83.0	83.3	82.7	82.9	82.7	82.6	82.6	82.6	82.0	80.8	80.2	83.0	82.8	82.6	81.0	82.3
1991	79.6	78.9	78.1	78.2	78.7	79.6	79.5	79.5	80.2	80.0	79.8	79.2	78.9	78.8	79.7	79.6	79.3
1992	79.1	79.4	79.9	80.4	80.4	80.1	80.5	80.2	80.3	80.8	81.0	80.9	79.5	80.3	80.3	80.9	80.2
1993	81.0	81.3	81.3	81.4	80.9	80.9	81.0	80.7	81.4	81.5	81.6	82.1	81.2	81.1	81.0	81.7	81.3
1994	82.1	82.1	82.5	82.7	83.2	83.3	83.5	83.5	83.3	83.5	83.7	84.3	82.2	83.1	83.4	83.8	83.1
1995	84.4	84.0	83.8	83.3	83.3	83.2	82.5	83.3	83.4	82.8	82.7	82.4	84.1	83.3	83.1	82.6	83.3
1996	81.9	82.4	82.0	82.5	82.8	83.1	82.7	82.8	82.9	82.5	83.0	83.0	82.1	82.8	82.8	82.8	82.6
1997	83.0	83.5	83.3	83.4	83.3	83.3	83.5	83.8	83.8	83.9	83.9	83.7	83.3	83.3	83.7	83.8	83.5
1998	83.5	83.1	82.9	82.8	82.7	81.6	81.1	82.4	81.8	81.8	81.1	80.8	83.2	82.4	81.8	81.2	82.1
1999	81.0	80.9	81.1	80.9	81.2	81.0	81.3	81.4	81.2	81.5	81.5	81.7	81.0	81.0	81.3	81.6	81.2
2000	81.9	82.0	82.2	82.5	82.7	82.7	82.3	82.6	82.4	82.0	81.4	80.6	82.0	82.6	82.4	81.3	82.1
2001	79.7	79.2	78.9	78.5									79.3				

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																	
1989	.9	-1.2	.8	.1	-.7	.0	-1.1	.3	-.3	-.6	.4	.1	4.3	-.7	-4.5	-1.4	1.9
1990	-.2	.9	.3	-.8	.4	-.1	.0	.3	-.1	-.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	.3	.6	1.0	.6	.4	-.1	.7	-.2	.3	.7	.5	-.1	2.4	7.3	3.0	4.5	4.0
1993	.7	.3	.2	.5	-.4	.0	.2	-.2	1.3	.2	.5	.9	4.4	2.0	1.5	6.6	3.7
1994	.0	.4	1.0	.8	.9	.2	.8	.5	.2	.6	.9	1.0	5.6	9.4	6.6	7.6	6.0
1995	.6	-.2	.3	-.3	.2	.5	-.6	1.3	.9	-.3	.2	.1	6.5	.7	3.9	3.6	5.3
1996	-.2	1.0	-.2	1.3	.9	.9	.2	.6	.6	.0	1.0	.6	2.3	10.1	7.1	5.7	4.9
1997	.5	1.2	.4	.5	.3	.8	.6	1.1	.5	.6	.7	.4	8.5	6.7	9.0	7.7	7.8
1998	.6	.0	.2	.6	.3	-.8	-.1	2.3	-.2	.7	-.2	.2	4.8	2.8	3.9	4.7	5.6
1999	.5	.5	.5	.2	.8	.2	.6	.6	.1	.9	.5	.6	4.1	5.4	6.0	6.8	4.8
2000	.6	.4	.9	.6	.6	.4	-.1	.6	.3	-.1	-.5	-1.0	7.1	8.0	3.7	-1.6	6.1
2001	-.8	-.4	-.2	-.3									-7.7				
Industrial Production																	
1989	100.3	99.1	99.9	100.0	99.4	99.4	98.3	98.7	98.4	97.8	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	99.0	98.4	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	97.3	97.9	98.9	99.5	99.9	99.9	100.6	100.4	100.6	101.3	101.9	101.7	98.1	99.8	100.5	101.6	100.0
1993	102.5	102.8	103.0	103.5	103.1	103.1	103.4	103.1	104.4	104.6	105.1	106.1	102.7	103.2	103.6	105.3	103.7
1994	106.1	106.5	107.6	108.4	109.4	109.6	110.5	111.0	111.3	111.9	112.9	114.1	106.7	109.2	110.9	113.0	109.9
1995	114.8	114.6	114.9	114.6	114.9	115.4	114.8	116.2	117.3	116.9	117.1	117.3	114.8	115.0	116.1	117.1	115.7
1996	117.1	118.3	118.0	119.5	120.6	121.7	122.0	122.7	123.4	123.4	124.6	125.3	117.8	120.6	122.7	124.4	121.4
1997	125.9	127.3	127.8	128.4	128.9	129.9	130.7	132.1	132.8	133.6	134.5	135.0	127.0	129.1	131.9	134.4	130.8
1998	135.8	135.9	136.1	136.9	137.4	136.3	136.2	139.4	139.0	139.9	139.6	139.8	135.9	136.9	138.2	139.8	138.2
1999	140.5	141.2	141.9	142.2	143.4	143.6	144.5	145.3	145.6	146.8	147.5	148.4	141.2	143.1	145.1	147.6	144.8
2000	149.2	149.9	151.3	152.2	153.1	153.8	153.7	154.6	155.1	154.9	154.1	152.6	150.1	153.0	154.4	153.8	153.6
2001	151.3	150.7	150.3	149.8									150.8				
Capacity																	
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	122.0	122.2	120.1	120.7	121.3	122.0	121.0
1991	122.4	122.6	122.8	123.0	123.1	123.3	123.5	123.7	123.8	124.0	124.2	124.3	122.6	123.1	123.7	124.2	123.4
1992	124.6	124.8	125.0	125.3	125.5	125.8	126.0	126.3	126.5	126.7	127.0	127.2	124.8	125.5	126.3	127.0	125.9
1993	127.5	127.7	128.0	128.2	128.5	128.8	129.0	129.3	129.6	129.9	130.2	130.5	127.7	128.5	129.3	130.2	128.9
1994	130.9	131.3	131.6	132.1	132.5	132.9	133.4	133.9	134.4	134.9	135.5	136.1	131.3	132.5	133.9	135.5	133.3
1995	136.6	137.3	137.9	138.5	139.2	139.8	140.5	141.2	141.9	142.6	143.3	144.0	137.3	139.2	141.2	143.3	140.2
1996	144.7	145.4	146.2	146.9	147.7	148.4	149.1	149.8	150.5	151.2	151.9	152.7	145.4	147.7	149.8	151.9	148.7
1997	153.4	154.2	154.9	155.7	156.5	157.4	158.2	159.1	160.0	160.9	161.9	162.9	154.2	156.5	159.1	161.9	157.9
1998	163.9	164.9	165.9	167.0	168.0	169.0	170.0	171.0	171.9	172.8	173.6	174.5	164.9	168.0	171.0	173.6	169.4
1999	175.3	176.0	176.8	177.5	178.3	179.0	179.7	180.3	181.0	181.7	182.4	183.1	176.0	178.3	180.3	182.4	179.3
2000	183.8	184.6	185.3	186.1	186.9	187.6	188.4	189.1	189.9	190.7	191.5	192.3	184.6	186.9	189.2	191.5	188.0
2001	192.9	193.5	194.0	194.4									193.5				
Utilization																	
1989	85.7	84.5	85.0	85.0	84.2	84.1	83.0	83.1	82.7	82.1	82.2	82.1	85.1	84.4	82.9	82.1	83.6
1990	81.8	82.5	82.6	81.8	82.0	81.8	81.6	81.7	81.5	80.9	79.7	79.0	82.3	81.9	81.6	79.9	81.4
1991	78.2	77.5	76.6	76.8	77.1	78.1	78.2	78.2	79.0	78.9	78.6	78.1	77.5	77.3	78.5	78.5	77.9
1992	78.1	78.5	79.1	79.5	79.6	79.4	79.8	79.5	79.6	79.9	80.2	79.9	78.6	79.5	79.6	80.0	79.4
1993	80.4	80.4	80.4	80.7	80.2	80.1	80.1	79.7	80.6	80.6	80.7	81.3	80.4	80.3	80.1	80.9	80.4
1994	81.1	81.1	81.7	82.1	82.6	82.5	82.8	82.9	82.8	83.0	83.3	83.8	81.3	82.4	82.8	83.4	82.5
1995	84.0	83.5	83.3	82.7	82.5	82.6	81.7	82.3	82.7	82.0	81.7	81.4	83.6	82.6	82.2	81.7	82.5
1996	80.9	81.3	80.7	81.4	81.7	82.0	81.8	81.9	82.0	81.6	82.0	82.1	81.0	81.7	81.9	81.9	81.6
1997	82.1	82.6	82.5	82.5	82.3	82.5	82.6	83.1	83.0	83.0	83.1	82.9	82.4	82.5	82.9	83.0	82.7
1998	82.9	82.4	82.0	82.0	81.8	80.6	80.1	81.5	80.9	81.0	80.4	80.2	82.4	81.5	80.8	80.5	81.3
1999	80.2	80.2	80.3	80.1	80.4	80.2	80.4	80.6	80.4	80.8	80.9	81.0	80.2	80.3	80.5	80.9	80.5
2000	81.2	81.2	81.6	81.8	81.9	82.0	81.6	81.7	81.7	81.2	80.5	79.3	81.3	81.9	81.7	80.3	81.3
2001	78.4	77.9	77.5	77.1									77.9				

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	2000 IP Proportion	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			2000 Oct.	Nov.	Dec.	2001 Jan. ¹	Feb. ¹	Mar. ¹	2000 Oct.	Nov.	Dec.	2001 Jan. ¹	Feb. ¹	Mar. ¹
Metal mining	10	.22	96.3	93.7	99.5	94.6	92.6	91.1	95.8	94.2	99.9	92.9	93.6	90.8
Iron ore	101	.04	111.7	104.6	107.7	88.7	82.1		108.1	105.1	108.8	84.8	80.5	
Nonferrous ores	102-4,8,9	.19	93.8	91.9	98.2	95.6	94.3	92.4	93.8	92.4	98.5	94.2	95.7	92.7
Copper	102	.07	86.1	87.0	89.6	82.2			85.3	87.8	88.0	81.5		
Coal mining	12	.55	110.2	108.6	106.1	115.2	110.7	116.6	112.8	109.3	103.7	113.1	115.7	119.4
Oil and gas extraction	13	5.36	95.1	96.6	95.2	96.1	96.9	97.6	95.0	96.5	96.3	96.3	97.5	98.3
Crude oil and natural gas	131	4.50	89.7	91.2	90.6	91.8	91.4	92.6	89.4	91.0	91.9	92.3	92.1	93.5
Crude oil, total		2.28	77.8	78.9	78.4	78.9	78.1	80.2	78.4	79.1	78.8	78.7	78.8	80.5
Natural gas		2.23	106.0	108.3	107.5	109.7	109.8	109.8	104.6	107.3	110.0	111.0	110.5	111.4
Natural gas liquids	132	.33	113.4	111.7	94.5	80.6	101.3	92.0	114.5	112.0	93.1	79.0	102.2	93.6
Oil and gas well drilling	138	.52	136.5	138.9	139.1	146.7	147.9	150.7	137.6	140.4	139.2	145.5	147.1	148.1
Stone and earth minerals	14	.56	124.6	123.2	119.3	121.7	121.8	123.3	145.6	127.5	96.6	89.7	89.2	101.4
Foods	20	8.81	114.8	115.0	114.2	114.1	114.9	114.4	120.4	115.4	110.8	109.3	108.8	109.4
Meat products	201	1.53	123.0	125.7	123.5	119.3	119.4	120.9	128.6	124.4	117.9	119.9	120.6	121.0
Beef		.41	119.8	118.0	116.5	110.5	107.2	111.3	122.5	113.3	106.6	110.6	107.3	108.3
Pork		.29	111.7	112.7	108.6	111.1	111.6	109.1	119.8	119.6	112.8	113.5	113.2	111.2
Poultry		.81	136.4	142.8	140.7	134.5	136.4	138.4	142.2	138.8	132.1	133.9	137.4	138.4
Miscellaneous meats		.01	64.9	68.4	71.9	67.5	65.2	65.5	66.7	70.5	75.8	65.6	67.3	72.3
Dairy products	202	.81	112.5	110.8	109.2	107.8	110.9	107.7	104.9	103.6	105.9	106.1	114.3	113.8
Butter	2021	.01	122.1	112.2	117.6	104.3	101.3	91.4	112.1	111.0	125.0	131.3	127.1	105.5
Cheese	2022	.22	130.5	126.5	126.5	129.4	129.6	128.1	128.0	128.5	127.7	127.1	129.6	132.2
Concentrated milk	2023	.20	125.4	126.1	120.2	112.2	126.1	118.0	107.6	109.5	122.1	116.9	139.1	129.7
Frozen desserts	2024	.09	99.1	95.1	96.2	94.4	95.1	90.3	85.9	73.1	68.0	73.4	90.0	95.9
Milk and misc. dairy products	2026	.30	100.4	99.5	98.4	98.3	98.4	97.4	96.3	95.9	96.6	98.4	100.4	101.2
Canned and frozen food	203	1.10	100.2	102.9	104.9	104.4	104.6	104.4	113.6	104.4	99.4	94.7	92.2	92.8
Grain mill products	204	.93	113.5	111.5	111.1	113.2	111.2	110.0	116.7	115.2	113.5	110.4	107.6	108.5
Bakery products	205	1.04	116.3	118.8	117.4	114.3	117.7	114.1	121.3	117.0	111.8	106.8	106.2	104.2
Sugar and confectionery	206	.60	118.9	116.6	117.7	120.4	118.8	119.7	137.9	137.0	134.8	123.7	116.0	113.4
Fats and oils	207	.16	120.1	111.4	110.5	113.6	116.9	116.5	126.2	118.3	112.4	114.1	120.5	119.9
Beverages	208	1.73	119.4	118.0	117.7	120.5	121.3	121.0	123.5	115.6	107.3	110.9	111.2	115.7
Beer and ale	2082,3	.50	102.0	99.4	96.8				95.1	89.2	79.7			
Soft drinks	2086,7	.99	136.3	135.1	136.5	136.8	139.2	138.8	143.3	131.6	127.1	125.5	122.8	124.5
Coffee and miscellaneous	209	.92	113.4	114.1	110.8	112.7	114.1	115.6	119.2	113.9	109.3	106.8	103.2	102.7
Roasted coffee	2095	.11	96.9	102.5	90.9	96.2	95.2		105.3	111.7	109.1	104.1	109.1	
Tobacco products	21	1.71	93.7	93.1	94.2	95.2	93.7	91.7	105.8	90.5	71.0	96.5	99.3	98.7
Textile mill products	22	1.23	96.7	92.8	94.5	93.0	92.9	93.1	102.3	91.5	83.0	87.9	91.2	92.0
Fabrics	221-4	.28	86.3	82.3	78.6	87.6	82.2	81.0	90.3	82.1	73.3	83.3	81.7	82.5
Cotton and synthetic	221,2	.23	87.9	82.8	78.0				93.2	82.8	71.9			
Narrow fabrics	224	.03	103.2	101.1	102.3	103.4	102.8	104.2	103.9	102.4	101.7	101.8	102.6	105.0
Knit goods	225	.30	94.8	95.9	94.8	92.7	90.9	92.9	101.5	93.3	84.4	77.9	85.7	87.7
Knit garments	2253,4,7-9	.21	92.6	93.7	92.0	89.7	87.8	90.5	96.1	91.1	85.0	74.5	81.7	82.9
Fabric finishing	226	.12	65.1	64.8	63.1	62.1	61.1	61.1	68.3	67.4	53.3	59.2	62.8	60.7
Carpeting	227	.20	112.7	102.9	113.4	102.8	118.7	117.3	125.8	95.9	83.5	106.0	115.4	114.7
Yarns and miscellaneous	228,9	.34	116.5	109.2	116.0	109.3	107.6	108.5	119.6	109.3	107.3	107.8	107.4	109.6
Cotton and synthetic yarns	2281,2,4	.16	106.0	93.2	108.8	98.6	96.6	99.9	111.1	93.0	91.0	98.2	98.9	102.5
Apparel products	23	1.41	89.2	89.2	88.2	88.9	86.5	86.9	90.9	89.7	88.1	85.4	85.0	85.5
Lumber and products	24	1.82	114.8	113.2	111.5	108.3	109.3	109.9	119.1	112.4	105.4	104.3	107.2	109.0
Logging and lumber	241,2	.62	105.1	104.8	106.2	103.4	98.5	102.0	110.5	103.2	98.6	98.4	98.2	101.9
Logging	241	.20	85.0	83.7	86.2	87.6	85.6	85.6	91.7	85.6	84.5	83.3	81.1	78.7
Lumber products	243-5,9	1.20	122.5	120.0	116.4	113.0	117.4	116.3	126.2	119.7	111.2	109.5	114.3	115.0
Millwork and plywood	243	.67	127.6	126.8	123.4	120.5	125.2	123.0	130.2	127.6	121.4	116.3	118.9	119.6
Plywood	2435,6	.11	96.6	94.6	88.4	85.1	92.0	90.0	99.7	92.6	77.8	82.8	92.9	91.4
Manufactured homes	245	.18	98.8	90.9	83.5	73.5	81.0		108.1	87.7	66.8	65.5	79.8	

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	2000 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f	2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f
Furniture and fixtures	25	1.61	147.2	145.0	145.3	144.1	143.6	142.1	151.0	143.5	140.6	136.1	140.0	136.6
Household furniture	251	.65	135.8	133.3	132.2	131.3	131.5	130.0	138.1	131.2	128.9	124.5	130.9	128.7
Paper and products	26	3.30	117.1	114.7	112.7	111.8	112.5	107.3	118.9	113.1	108.6	112.3	115.1	108.4
Pulp and paper	261-3	1.22	112.7	110.7	107.0	107.1	108.4	103.5	113.2	109.6	104.2	108.0	111.3	103.8
Wood pulp	261	.07	96.3	94.9	94.9	93.4	92.4	91.1	95.1	95.2	92.8	93.7	94.2	89.4
Paper	262	.68	114.3	110.7	106.7	107.8	109.3	102.4	114.5	110.4	105.5	108.5	112.3	102.7
Paperboard	263	.47	115.2	115.4	111.2	110.5	111.6	109.0	116.0	112.4	105.8	111.5	114.5	109.5
Paper products	265,7	2.08	119.9	117.2	116.3	114.8	115.0	109.7	122.5	115.2	111.4	115.0	117.4	111.2
Paperboard containers	265	.79	114.3	110.4	115.7	108.7	106.8	104.4	121.7	105.9	105.1	106.6	107.6	106.3
Converted paper products	267	1.29	123.4	121.5	116.4	118.5	120.2	113.0	122.7	121.0	115.2	120.3	123.6	114.1
Printing and publishing	27	6.58	111.6	111.2	109.2	109.6	108.5	107.1	116.6	112.2	107.9	104.3	103.8	101.9
Newspapers	271	1.57	97.4	97.8	96.5	94.1	93.4	93.2	106.9	102.9	96.5	89.7	93.5	89.6
Periodicals, books, and cards	272,3,7	2.09	116.8	115.1	114.4	116.1	112.4	110.2	116.2	116.9	116.7	113.9	111.6	109.9
Job printing	274-6,8,9	2.92	116.2	116.2	112.7	113.9	114.7	112.9	122.3	114.0	108.1	106.0	104.0	103.2
Chemicals and products	28	10.33	125.8	124.8	122.9	121.8	122.4	121.7	130.0	126.8	123.8	124.2	125.6	125.0
Industrial chemicals and synthetic materials	281,2,6	3.96	114.9	113.5	108.7	106.5	105.8	104.5	115.8	113.8	106.7	105.6	108.1	105.5
Basic chemicals	281	.97	106.9	107.5	104.2	98.9	97.7	95.8	109.7	109.2	101.0	96.9	104.1	97.7
Alkalies and chlorine	2812	.06	72.9	75.3	70.9	73.0	74.6	69.1	72.0	75.2	71.8	73.9	75.7	70.3
Inorganic pigments	2816	.08	103.0	105.4	94.1	108.3	100.2		102.0	97.5	93.4	107.0	103.5	
Inorganic chemicals, nec	2819	.72	106.3	107.1	104.5	95.8	94.9	92.9	110.5	110.3	100.9	93.8	103.1	95.3
Acids and other		.62	133.1	132.8	132.1	128.3	125.5	123.6	136.3	133.6	121.3	120.9	134.4	121.2
Synthetic materials	282	1.35	124.3	122.0	110.7	115.8	119.4	119.4	125.9	121.0	106.3	113.5	122.3	121.8
Plastics materials	2821	.97	137.8	133.5	121.7				139.6	134.2	117.0			
Synthetic fibers	2823,4	.27	101.1	101.0	91.2	94.0	94.7	95.4	102.8	96.3	85.9	92.4	99.2	97.3
Industrial organic chemicals	286	1.63	112.3	110.3	109.6	103.9	100.2	98.3	111.8	110.8	110.5	105.0	99.5	98.0
Chemical products	283-5,9	5.91	135.2	134.5	134.7	134.8	136.5	136.4	136.1	132.0	132.3	134.0	134.7	135.8
Drugs and medicines	283	3.39	144.3	142.5	144.5	143.6	147.6	148.6	143.4	143.9	146.1	146.8	149.5	150.0
Soap and toiletries	284	1.56	128.4	130.1	127.7	130.0	129.3	127.9	132.9	123.1	122.5	124.0	121.9	122.3
Paints	285	.37	107.6	105.2	104.1	101.7	100.5	100.1	108.4	91.9	79.1	87.9	99.9	103.9
Agricultural chemicals	287	.47	100.1	99.1	98.9	95.6	95.4	92.8	100.0	99.9	97.1	96.8	95.1	93.1
Petroleum products	29	2.39	116.5	116.9	114.7	115.1	116.5	116.2	117.6	117.3	113.2	107.0	108.1	109.4
Petroleum refining and misc.	291,9	2.16	111.4	111.9	109.8	109.8	111.7	111.7	111.4	111.7	108.6	103.0	104.3	106.1
Miscellaneous petroleum products		.61	107.8	106.9	106.0	107.9	108.5	108.5	107.6	99.7	93.9	91.5	95.6	101.8
Distillate fuel oil		.35	123.9	122.1	127.2	128.3	127.6		127.0	126.8	130.4	121.3	121.8	
Residual fuel oil		.04	88.7	86.2	81.1	88.4	82.4		84.7	87.7	87.4	91.3	83.3	
Aviation fuel and kerosene		.19	123.3	114.4	116.1	108.3	113.0		120.4	117.8	122.3	111.8	109.1	
Automotive gasoline		.97	109.2	113.2	107.3	106.7	110.4		109.0	114.8	109.6	103.5	104.6	
Paving and roofing materials	295	.23	159.0	157.5	155.8	161.9	155.4	151.4	174.0	166.0	148.7	136.7	133.7	129.2
Rubber and plastics products	30	3.65	141.3	139.1	137.3	138.5	136.9	135.3	142.9	140.3	137.9	136.4	136.9	135.6
Tires	301	.31	130.8	120.9	128.5	120.7	122.2	122.3	137.8	120.4	110.9	122.7	131.5	130.2
Other rubber products	302,5,6	.61	136.6	136.1	134.1	135.8	131.5	129.2	140.8	135.9	131.5	126.4	130.8	126.9
Plastics products, nec	308	2.73	143.9	142.3	139.4	141.6	140.3	138.6	144.3	144.0	142.9	140.7	139.2	138.6
Leather and products	31	.17	68.6	68.9	66.9	67.1	65.0	63.3	70.1	69.8	67.4	64.7	63.7	63.1
Shoes	314	.04	48.9	50.1	47.5	47.0	45.9	45.2	49.8	51.0	47.4	45.9	44.1	44.5
Stone, clay, and glass products	32	2.38	137.3	134.6	132.4	135.2	134.3	133.5	141.8	136.1	127.8	127.4	128.9	128.9
Pressed and blown glass	322	.29	111.2	109.7	108.8	109.2	109.9	107.8	113.1	111.6	99.9	104.7	110.1	108.1
Glass containers	3221	.11	85.8	82.8	81.4	80.0	79.6	77.5	86.6	82.7	63.3	76.2	83.7	81.5
Cement	324	.20	131.2	127.2	118.5	141.4	137.0		156.9	122.7	92.3	90.8	102.7	
Structural clay products	325	.11	125.9	124.8	124.3	122.1	120.3	122.7	129.4	124.2	115.5	113.4	120.4	126.3
Concrete and miscellaneous	326-9	1.49	144.6	141.2	139.4	141.2	140.9	140.4	146.5	143.4	139.2	138.6	137.3	135.0

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	2000 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f	2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f
Primary metals	33	3.32	129.0	127.3	126.3	124.0	122.1	120.2	129.2	126.8	122.4	123.1	124.3	124.2
Iron and steel	331,2	1.73	123.7	122.0	118.7	116.0	115.2	114.1	123.8	120.0	113.9	114.3	117.5	118.4
Basic steel and mill products	331	1.28	122.9	119.8	115.7	112.5	111.8	111.5	122.3	115.8	110.3	112.0	114.4	115.8
Basic iron and steel		.24	101.0	93.0	91.7	93.1	96.1	98.6	100.4	92.6	91.0	93.2	98.3	100.7
Pig iron		.13	97.7	88.8	87.9	88.8	93.6	97.4	96.8	88.8	88.4	89.0	95.5	99.5
Raw steel		.08	115.6	106.3	104.6	108.3	109.1	109.2	114.4	104.4	100.9	108.3	113.5	112.8
Steel mill products		1.04	129.3	127.8	122.7	118.2	116.4	115.3	128.7	122.7	116.0	117.5	119.1	120.3
Consumer durable steel		.16	134.2	122.0	110.6	109.5	110.3	111.1	136.1	119.7	101.0	110.2	118.6	123.5
Equipment steel		.10	107.0	106.1	108.0	104.0	106.9	108.0	107.7	101.0	99.9	105.9	109.8	113.3
Construction steel		.13	142.2	147.1	146.6	160.4	160.5	157.2	150.6	148.0	141.8	150.8	154.2	147.6
Can and closure steel		.03	98.5	98.7	82.0	88.6	82.9	80.6	95.3	90.5	83.5	84.0	80.6	86.8
Miscellaneous steel		.62	132.5	132.4	127.7	118.0	114.6	113.2	129.3	125.3	120.7	118.1	117.5	118.4
Iron and steel foundries	332	.45	127.0	128.9	128.4	126.8	125.8	122.3	128.6	132.6	124.9	121.4	127.2	126.3
Nonferrous metals	333-6,9	1.59	135.3	133.6	135.2	133.4	130.3	127.4	135.6	134.9	132.3	133.5	132.3	131.0
Primary nonferrous metals	333	.19	99.0	100.0	99.4	93.8	90.3	87.4	100.0	100.6	98.7	94.2	92.5	90.4
Copper	3331	.03	87.2	88.4	89.1	99.2	95.6	93.9	89.9	91.4	91.0	96.5	99.7	97.1
Aluminum	3334	.10	87.8	87.2	84.9	74.8	71.0	67.5	87.5	87.1	85.0	74.8	71.2	67.8
Nonferrous products	335,6	1.19	143.5	141.3	143.6	142.9	139.4	136.4	143.2	142.0	140.1	143.8	141.1	140.6
Nonferrous mill products	335	.89	134.3	131.4	136.1	135.1	132.4	128.5	133.6	131.9	129.9	135.9	134.1	133.4
Aluminum	3353-5	.34	104.8	101.5	117.1	112.6	110.6	107.7	105.6	98.0	103.1	111.9	114.9	117.4
Nonferrous foundries	336	.30	175.0	175.4	169.0	169.0	162.5	163.2	176.1	177.2	175.7	169.9	164.0	164.4
Fabricated metal products	34	5.49	136.0	134.7	132.9	133.5	130.6	129.8	138.7	135.8	133.7	129.2	128.5	128.3
Metal containers	341	.17	96.5	100.2	100.5	100.1	98.0	98.9	92.9	88.7	93.9	88.0	82.7	95.9
Hardware, tools, and cutlery	342	.51	121.1	119.5	117.9	117.5	115.5	115.1	124.6	119.0	114.0	109.7	113.9	112.5
Hardware and tools	3423,5,9	.45	123.8	121.3	119.8	119.0	117.4	117.7	127.3	120.2	114.6	110.2	115.7	115.0
Structural metal products	344	1.58	145.3	144.9	144.2	146.4	144.8	143.3	148.0	147.7	148.0	143.6	140.7	139.9
Other fabricated metal products	345-9	3.00	136.5	134.5	132.0	132.2	128.4	127.5	138.0	135.1	132.4	129.1	129.1	128.1
Fasteners, stampings, etc.	345-7	1.79	143.4	141.2	138.5	137.6	131.9	130.3	146.2	141.3	136.3	132.1	133.1	131.1
Industrial machinery and equipment	35	9.06	261.5	261.9	262.3	258.4	255.0	256.4	267.4	265.7	257.0	253.4	256.3	258.8
Engines and turbines	351	.47	140.0	142.6	136.5	141.9	143.0	143.1	139.9	145.0	142.4	144.9	143.7	143.1
Farm	352	.44	178.9	163.1	177.3	162.6	181.3	183.9	145.7	165.7	142.9	160.4	221.8	247.9
Construction and allied	353	1.07	196.0	201.1	199.8	187.8	188.5	199.1	208.1	195.6	179.0	188.6	196.8	209.1
Metalworking	354	.95	128.8	127.9	125.3	126.8	121.2	119.7	128.4	128.6	129.1	127.8	122.4	120.7
Special industry machinery	355	.81	165.9	164.0	162.6	165.0	157.1	154.6	165.5	165.2	167.8	165.2	157.9	155.8
General industrial machinery	356	.97	122.1	122.6	122.9	121.7	115.6	114.1	121.7	120.1	119.3	116.3	114.9	113.0
Bearings and gears	3562,6,8	.28	107.6	108.5	108.9	102.9	98.1	96.8	103.2	106.4	110.5	106.1	102.5	100.6
Bearings	3562	.16	119.0	123.1	123.9	112.8			111.5	117.9	123.7	117.6		
Equipment	3561,3-5,7,9	.69	128.7	128.9	129.1	130.3	123.5	121.9	130.1	126.3	123.1	120.9	120.5	118.5
Computer and office equip.	357	2.37	1487.4	1502.8	1508.3	1497.4	1484.6	1485.2	1614.6	1634.6	1573.4	1459.9	1377.2	1365.8
Service industry machines	358	.85	143.9	147.1	157.3	148.7	151.5	152.4	139.7	136.1	138.2	142.8	166.4	166.1
Refrig. and heating equip.	3585	.61	149.6	154.5	171.4	157.2	161.4	164.1	142.8	137.0	140.9	148.9	183.7	184.9
Miscellaneous machinery	359	1.13	153.0	151.2	145.5	146.0	140.6	142.1	155.7	146.4	138.5	135.7	135.2	136.5
Electrical machinery	36	9.02	597.4	604.4	610.2	604.3	597.3	591.1	600.4	615.9	636.9	568.6	575.5	613.2
Major electrical and parts	361,2	.88	132.8	130.7	129.4	131.1	129.7	128.1	133.5	127.4	125.0	123.9	125.1	125.4
Electric distribution equip.	361	.32	134.4	136.1	131.6	137.7	133.9	131.3	136.8	131.3	127.8	125.8	128.3	126.0
Household appliances	363	.48	137.0	137.4	141.2	142.4	144.4	148.3	159.2	148.2	124.4	134.5	149.4	153.4
Cooking equipment	3631	.07	131.3	127.3	109.0	129.2	132.7	161.7	142.9	128.0	88.4	130.1	141.9	168.7
Refrigerators and freezers	3632	.09	139.0	134.4	141.6	139.9	140.6	138.3	144.8	126.2	100.7	133.3	160.4	148.7
Laundry	3633	.10	154.9	158.5	174.5	154.4	156.2	155.5	165.7	155.9	148.7	156.5	181.2	176.4
Miscellaneous	3634,5,9	.22	129.5	131.8	136.8	141.1	143.1	143.0	165.2	158.1	134.1	126.4	133.9	139.7
Electrical housewares	3634	.07	130.8	132.5	133.7	164.8	158.8	164.4	234.2	216.4	130.1	109.1	102.5	126.5
Appliances, nec	3639	.09	104.2	106.7	115.9	104.6	112.4	108.2	109.3	105.2	108.9	103.5	124.8	122.6
Audio and video equipment	365	.18	99.0	101.4	110.6	96.9	89.4	96.4	111.0	101.5	97.5	86.5	99.9	101.6
Communication equipment	366	1.94	390.0	398.6	400.9	403.2	400.1	396.5	394.5	408.7	420.2	401.2	394.2	392.6
Electronic components	367	4.21	2158.3	2197.0	2225.7	2175.8	2151.4	2123.6	2110.0	2247.4	2424.4	1983.4	2006.5	2310.3
Semiconductors and related electronic components	3672-9	4.16	2282.9	2327.1	2353.7	2297.1	2270.9	2239.0	2225.4	2377.8	2575.5	2096.1	2119.5	2445.1
Misc. electrical supplies	369	.63	145.4	145.3	147.1	146.9	143.9	142.5	149.4	147.9	151.1	144.0	141.5	141.8
Storage batteries	3691	.08	127.4	119.7	145.2	132.0			143.9	124.5	143.4	109.2		
Transportation equipment	37	9.25	129.2	126.8	122.8	116.0	118.5	124.0	137.5	126.4	114.5	114.2	124.4	133.7
Motor vehicles and parts	371	5.72	167.2	160.1	151.8	138.6	145.3	155.9	184.2	158.7	132.3	135.2	157.3	175.3
Autos		1.05	101.6	97.1	88.9	93.7	93.0	98.1	114.3	96.4	78.6	88.9	100.2	109.0
Trucks and truck trailers		2.14	199.6	194.9	185.5	165.0	174.6	193.1	223.8	189.9	162.6	157.1	195.0	220.4
Trucks and buses		2.04	203.1	199.6	190.0	169.6	179.4	198.9	228.4	194.2	166.2	161.5	200.8	227.6
Consumer trucks		1.29	212.0	204.3	194.7	175.5	185.2	206.3	238.4	199.1	170.4	166.9	208.5	237.8
Business trucks		.75	187.6	191.3	181.6	159.3	169.2	186.0	211.0	185.4	158.5	152.0	187.3	209.6
Motor vehicle parts	3714	2.48	201.0	190.0	180.8	159.8	169.9	179.1	217.2	191.5	156.2	161.0	180.2	199.9
Motor homes	3716	.06	95.9	87.4	112.4	78.7	91.0	100.7	103.3	75.9	96.7	75.4	93.1	116.0
Aerospace and miscellaneous transportation equipment	372-6,9	3.52	93.6	95.4	95.3	94.3	93.0	93.7	93.9	95.9	97.1	94.0	93.4	94.8
Aircraft and parts	372	2.20	94.0	95.7	95.2	93.2	92.6	93.5	94.2	96.3	97.6	92.9	92.6	94.5
Ships and boats	373	.42	96.6	101.3	99.6	100.7	97.3	100.1	97.7	102.5	103.1	100.6	99.8	101.4
Railroad and miscellaneous	374-6,9	.90	90.9	91.8	93.4	93.7	91.8	91.1	90.8	91.6	92.6	93.2	92.1	92.3

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	2000 IP Proportion ¹	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f	2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f
Instruments	38	4.54	123.5	124.6	123.1	125.0	123.0	122.7	124.7	123.6	122.6	121.7	120.3	120.5
Scientific and medical	381-4	3.94	127.7	128.9	127.5	130.0	128.1	128.0	129.0	127.4	126.8	126.3	125.1	125.6
Medical instruments	384	1.68	150.9	151.4	147.4	151.1	146.1	145.0	155.1	145.5	140.3	141.1	137.1	137.3
Misc. manufactures	39	1.31	131.1	130.2	129.4	130.4	128.2	126.6	134.7	133.5	131.1	126.4	126.1	126.7
Consumer goods	391,3,4,6	.55	117.8	117.4	117.1	119.2	118.0	116.2	121.2	122.1	119.6	114.8	116.2	117.1
Business supplies	395,9	.77	144.2	142.7	141.5	141.6	138.6	137.0	147.8	144.9	142.4	137.8	136.0	136.5
Electric utilities	491,3pt	4.45	124.2	127.3	131.2	126.7	123.9	125.5	116.6	115.5	128.9	132.2	120.6	118.4
Generation		1.48	120.8	123.8	126.2	123.4	120.9	122.2	109.8	114.6	124.7	126.8	121.4	117.5
Fossil fuel		.76	129.4	132.6	136.7	132.5			123.3	121.7	132.4	132.3		
Hydro and nuclear		.72	112.5	115.3	116.0	114.5			96.6	107.7	117.2	121.4		
Sales		2.97	126.1	129.3	133.9	128.6	125.7	127.4	120.4	116.2	131.3	135.3	120.5	119.2
Residential		1.28	126.5	131.0	145.7	133.5			112.5	108.7	145.2	153.6		
Nonresidential		1.69	125.7	127.9	125.1	124.9	123.3	124.8	126.3	121.9	121.0	121.7	114.1	117.4
Commercial and other		1.11	135.3	139.1	135.4	135.0			135.0	130.0	130.5	132.5		
Industrial		.58	111.1	110.9	109.5	109.5			113.3	109.8	106.7	105.4		
Gas utilities	492,3pt	1.46	105.8	104.5	120.2	113.7	117.6	115.5	71.5	116.4	187.2	222.4	188.1	169.4
Residential		.82	97.7	95.0	114.0	103.4	110.4	107.4	55.5	109.3	195.8	233.4	195.5	170.1
Commercial and other		.29	116.6	114.6	130.4	131.5	128.4	129.8	82.0	126.5	192.5	240.5	203.3	188.4
Gas transmission		.27	112.5	114.1	124.0	121.3	123.4	119.5	94.1	117.0	150.7	170.6	148.5	144.0

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 1996 dollars at annual rates, seasonally adjusted

Item	1992	2000	1999 Q4	2000 Q1	Q2	Q3	Q4	2001 Q1 ^f	2000 Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^f	Apr. ^p
Products, total	2102.7	2878.0	2807.0	2842.8	2875.0	2879.2	2860.3	2823.9	2863.2	2850.2	2818.1	2820.1	2833.5	2823.6
Final products	1595.7	2216.7	2154.6	2180.0	2209.0	2217.1	2202.4	2176.8	2203.7	2198.2	2167.1	2172.9	2190.3	2182.5
Consumer goods	1085.2	1342.8	1335.8	1338.6	1351.6	1347.1	1332.9	1321.3	1331.2	1332.8	1312.2	1321.7	1330.1	1330.0
Durable	231.5	372.3	378.7	377.3	382.4	371.5	355.0	344.6	353.7	349.5	336.7	341.5	355.6	355.1
Automotive products	125.0	195.0	197.6	198.6	201.7	195.3	181.9	174.0	181.6	176.3	167.2	171.4	183.4	184.7
Other durable goods	106.5	177.9	181.9	179.1	181.0	176.7	175.0	173.1	173.8	175.9	172.8	172.9	173.6	171.4
Nondurable	855.5	970.6	958.0	962.0	970.1	975.3	975.8	973.6	975.3	980.4	971.6	976.5	972.8	973.0
Equipment, total	512.0	872.7	821.7	846.8	863.9	878.9	879.7	864.4	883.3	874.9	864.8	859.3	869.0	859.9
Business and defense	492.6	850.4	798.3	823.6	841.2	856.4	859.2	843.7	862.8	855.0	844.9	838.4	848.0	838.2
Business	405.0	788.7	736.8	765.5	784.1	800.3	802.2	784.6	805.5	796.9	785.5	779.7	788.6	777.5
Defense and space	88.6	65.9	68.7	66.4	65.7	65.3	66.1	67.3	66.4	66.8	67.6	66.8	67.6	68.3
Intermediate products	507.8	661.3	651.4	661.7	664.9	661.2	656.9	646.3	658.6	651.2	649.9	646.4	642.6	640.6
Construction supplies	200.0	285.4	282.1	286.9	286.6	284.9	281.3	277.6	281.4	279.8	279.3	277.0	276.5	275.1
Business supplies	308.1	375.6	369.0	374.4	377.9	375.9	375.2	368.3	376.8	371.0	370.2	368.9	365.7	365.1
Commercial energy products	75.7	95.8	90.1	93.9	97.1	96.8	95.9	95.7	95.7	95.9	95.3	95.3	96.5	96.7

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One Month Earlier												
1999	53.6	56.5	55.4	59.4	55.1	50.7	58.2	55.8	48.6	64.5	53.3	59.8
2000	58.7	50.4	56.5	51.4	51.4	56.2	54.2	43.5	54.0	43.5	45.7	37.9
2001	46.7	36.8	43.1									
Three Months Earlier												
1999	52.9	56.9	56.5	56.5	55.8	58.0	56.2	63.4	58.0	62.0	58.3	62.7
2000	61.2	62.0	59.8	56.2	54.0	52.9	49.6	44.9	48.9	43.1	45.3	42.4
2001	38.9	33.0	36.2									
Six Months Earlier												
1999	59.1	53.3	56.2	54.3	58.0	59.8	60.1	60.1	61.6	67.4	62.7	62.7
2000	68.1	65.9	68.1	64.1	60.0	55.4	49.6	43.8	47.5	44.9	41.7	39.5
2001	40.9	36.2	32.6									

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

Item1987 SIC		1992 Billion KWH	Index, 1992 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^p	2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^p
Total		933.2	109.8	109.7	108.2	106.8	106.4	105.1	111.5	109.4	107.1	104.2	103.2	103.0
MAJOR INDUSTRY GROUPS														
Manufacturing		853.2	110.7	110.4	109.0	107.6	107.0	105.7	112.6	110.0	107.5	104.6	103.6	103.5
Durable		366.0	111.4	110.3	109.9	109.4	108.2	106.7	113.0	109.3	107.4	105.5	105.6	105.3
Nondurable		487.2	110.1	110.5	108.3	106.2	105.9	105.0	112.2	110.6	107.6	103.8	101.9	102.0
Mining		80.1	97.5	99.6	97.5	95.2	97.9	96.6	97.0	100.9	101.1	99.3	97.8	96.8
INDUSTRY GROUPS and SERIES														
Metal mining 10		18.6	98.5	108.5	109.1	100.3	103.7	98.3	98.8	109.8	112.0	103.3	100.5	100.2
Iron ore101		7.3	103.1	112.2	114.1	100.0	110.2	99.6	104.9	112.6	120.9	103.5	104.7	105.5
Copper ore102		6.6	103.6	116.0	113.0	104.1	105.3	101.3	102.8	117.5	113.0	107.5	103.0	99.4
Coal mining 12		12.7	98.8	97.0	95.3	97.7	98.2	97.2	95.4	98.0	102.7	107.7	105.8	105.3
Oil and gas extraction 13		36.0	90.4	90.4	86.9	85.3	89.2	88.7	89.5	89.8	89.6	89.6	89.1	86.8
Crude oil and natural gas131		31.0	91.2	90.5	86.3	85.1	89.2	89.3	90.1	90.6	89.7	89.4	89.9	87.4
Natural gas liquids132		3.6	70.3	69.7	70.5	67.1	69.3	67.6	70.6	68.6	73.4	69.0	63.4	65.9
Stone and earth minerals 14		12.8	111.1	110.9	107.2	107.5	109.1	111.9	113.7	117.1	109.3	105.4	103.8	104.4
Crushed stone142		3.5	156.9	147.0	148.1	152.3	161.2	158.8	168.7	161.8	152.9	136.5	136.1	135.1
Sand and gravel144		2.7	116.8	120.8	116.4	117.8	121.2	120.2	127.7	131.2	115.6	106.0	104.1	102.3
Chemical and fertilizer materials147		4.7	91.9	94.6	89.6	88.5	88.2	93.1	89.0	97.7	92.3	93.9	91.1	93.1
Foods 20		58.8	130.0	130.5	130.0	131.0	131.6	130.5	136.2	131.3	126.0	125.2	121.9	121.1
Meat products201		10.4	152.3	153.2	151.7	151.9	156.6	154.5	157.2	151.9	146.5	144.0	142.8	142.1
Dairy products202		6.8	126.5	126.6	122.4	123.6	122.1	123.3	127.9	123.3	116.7	117.5	113.2	115.4
Canned and frozen food203		8.0	121.7	124.1	126.1	127.2	127.3	126.5	137.8	125.8	119.3	115.3	112.0	112.3
Grain mill products204		11.4	129.4	128.8	129.3	129.0	128.4	128.0	134.5	132.8	126.7	128.9	124.7	122.7
Bakery products205		3.5	128.8	132.5	131.1	128.3	131.9	128.0	134.4	130.4	124.7	119.8	119.0	116.8
Sugar and confectionery206		4.0	156.4	158.7	156.0	172.2	160.1	154.5	160.1	171.1	169.9	175.8	172.8	157.5
Fats and oils207		3.9	127.4	126.6	126.6	126.2	127.7	126.3	126.6	135.6	135.7	134.3	128.8	124.2
Beverages208		6.1	114.6	112.9	113.4	113.9	115.8	115.1	120.4	109.9	105.6	104.4	102.1	103.2
Coffee and miscellaneous209		4.7	120.0	119.3	117.0	119.0	120.4	121.6	125.8	117.6	112.3	110.7	105.2	108.7
Tobacco products 21		1.5	86.4	89.7	88.6	85.6	86.3	87.1	93.4	90.5	83.4	78.4	83.1	81.6
Textile mill products 22		31.5	102.3	103.6	96.4	98.0	98.6	97.4	103.7	101.7	92.5	85.3	94.7	91.2
Fabrics221-4		11.9	92.1	94.1	86.9	86.6	89.9	89.4	92.7	92.5	83.6	75.5	86.8	84.1
Knit goods225		4.1	97.4	98.7	96.8	94.4	92.4	95.3	101.2	96.1	89.5	78.4	86.1	87.4
Fabric finishing226		2.5	97.5	98.8	92.9	89.7	91.6	91.8	99.7	101.8	92.0	82.0	89.8	90.2
Yarn and thread228		8.3	101.0	103.4	88.3	94.1	92.4	88.4	100.2	101.5	85.9	81.8	90.1	83.2
Miscellaneous textiles229		3.3	120.2	120.2	119.3	121.8	120.0	119.2	126.6	117.4	114.0	107.3	113.9	110.4
Apparel products 23		8.2	101.9	102.3	103.5	104.0	102.8	102.0	107.1	98.8	94.0	90.3	94.0	92.0
Men's outerwear231,2		2.0	90.0	89.5	91.8	92.6	92.2	90.7	94.8	85.1	80.5	77.3	81.7	79.9
Women's outerwear233		2.5	108.0	107.6	106.2	103.3	103.5	103.5	111.8	102.8	97.0	90.0	94.2	93.4
Lumber and products 24		19.7	124.5	121.8	122.5	123.3	120.1	120.2	123.0	121.7	120.8	120.7	121.5	120.0
Lumber242		7.7	119.6	114.9	117.0	117.3	115.4	116.3	116.2	116.4	117.2	118.0	119.4	118.1
Millwork and plywood243		5.6	127.6	126.0	127.4	129.6	121.8	122.7	127.0	125.3	125.0	125.9	122.6	121.9
Furniture and fixtures 25		6.0	130.4	128.3	129.0	127.5	125.9	124.0	133.9	126.7	124.5	119.7	123.4	120.1
Household furniture251		3.2	125.5	123.1	122.9	121.5	120.4	119.2	127.6	121.1	119.7	115.1	119.9	117.9
Paper and products 26		112.3	102.8	102.2	101.3	101.9	103.1	101.6	105.2	103.3	101.8	101.2	98.9	98.3
Wood pulp261		8.8	93.1	94.1	94.9	95.1	97.7	94.2	95.2	104.9	98.7	94.6	89.5	89.0
Paper262		61.5	95.1	94.8	92.2	92.9	92.8	92.3	97.8	94.8	92.6	93.0	88.9	88.8
Paperboard263		28.1	122.3	119.5	121.5	120.3	123.2	122.8	121.4	120.5	126.3	122.5	122.2	122.9
Paperboard containers265		5.0	120.2	121.9	120.8	125.7	125.9	122.3	124.3	122.3	117.2	119.3	120.0	117.6
Converted paper products267		8.9	120.9	117.3	122.2	123.0	126.9	121.1	122.9	118.7	119.8	116.3	122.9	118.8
Printing and publishing 27		17.3	116.3	117.0	115.5	117.0	116.7	114.9	122.0	114.5	111.1	109.3	105.8	105.0
Newspapers271		3.7	109.5	112.2	115.5	115.5	114.4	112.8	113.0	108.2	112.5	110.1	101.9	102.2
Commercial printing275		9.2	124.4	124.0	120.6	121.8	122.4	120.5	131.2	122.0	115.9	113.4	112.2	111.0
Chemicals and products 28		171.6	104.3	105.7	102.1	95.5	97.1	95.6	105.6	106.2	103.6	96.7	94.9	96.0
Basic chemicals281		78.9	98.6	100.2	96.6	85.4	88.1	86.2	100.1	102.1	100.3	88.6	87.2	89.8
Alkalies and chlorine2812		14.9	87.0	82.7	90.5	89.3	82.9	85.9	88.5	82.3	88.5	88.5	81.7	86.8
Inorganic chemicals, nec2819		38.3	101.5	103.4	96.9	74.3	78.5	77.2	103.4	108.8	105.4	80.9	80.3	84.8

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

Item		1987 SIC	1992 Billion KWH	Index, 1992 = 100												
				Seasonally adjusted						Not seasonally adjusted						
				2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^p	2000 Oct.	Nov.	Dec.	2001 Jan. ^f	Feb. ^f	Mar. ^p	
Chemicals and Products (cont.)																
Synthetic materials	282	29.1	103.4	104.3	98.7	97.9	98.1	97.7	102.9	103.6	98.3	96.9	96.1	93.6		
Plastics materials	2821	18.2	134.4	137.4	131.9	131.1	129.7	124.9	134.7	136.8	132.7	128.6	128.0	122.6		
Drugs and medicines	283	6.6	138.7	140.1	137.1	141.9	140.4	139.6	142.9	134.2	131.4	131.5	129.3	130.9		
Soap and toiletries	284	3.0	115.5	117.6	115.7	117.8	116.6	115.5	119.6	111.3	111.0	112.5	110.1	110.5		
Industrial organic chemicals	286	39.2	120.4	125.1	119.5	122.5	125.8	125.6	124.8	124.1	118.2	122.7	123.3	119.2		
Agricultural chemicals	287	9.7	109.3	110.9	110.8	108.1	109.5	105.2	108.8	111.4	109.3	109.9	105.7	103.1		
Petroleum products	29	47.0	111.9	111.1	112.6	113.8	105.8	108.5	111.5	110.5	111.8	114.4	101.6	104.1		
Rubber and plastics products	30	37.9	136.1	133.5	131.8	133.5	129.8	127.6	139.1	132.7	127.3	122.6	127.7	125.6		
Tires	301	4.3	113.8	114.3	111.7	115.1	108.6	110.5	119.2	113.6	103.0	103.6	106.4	105.8		
Rubber products, nec	306	3.2	122.7	122.1	120.0	121.7	117.5	115.4	126.5	121.9	117.7	113.2	117.1	113.3		
Plastics products, nec	308	28.9	143.8	140.0	138.6	139.9	137.0	133.7	146.0	139.2	134.7	128.7	134.6	132.3		
Leather and products	31	1.0	79.5	80.4	82.1	81.1	78.6	77.8	81.0	77.6	77.7	76.3	76.5	73.3		
Shoes	314	.3	67.3	67.1	66.7	66.9	64.3	64.0	68.3	64.7	61.0	61.4	60.7	59.3		
Stone, clay, & glass products	32	33.7	117.9	117.3	117.1	118.5	119.0	119.0	121.1	119.5	117.8	114.4	112.5	111.3		
Flat glass	321	1.5	113.4	106.4	105.0	110.0	108.6	104.9	114.2	108.4	106.7	105.0	104.8	101.1		
Pressed and blown glass	322	7.3	104.3	104.2	103.7	105.1	106.3	104.5	106.7	107.2	103.7	101.3	103.6	102.0		
Cement	324	9.6	120.3	123.6	125.7	126.7	131.5	133.5	127.2	126.0	129.5	120.1	113.8	113.6		
Structural clay products	325	1.4	114.3	114.3	111.7	112.8	106.5	107.3	114.1	115.2	112.9	108.0	102.2	103.3		
Concrete products	327	4.7	148.6	145.0	144.8	145.8	146.5	147.4	150.5	147.7	146.9	141.9	140.5	139.8		
Primary metals	33	150.8	102.3	101.0	100.4	98.4	98.7	95.7	102.6	100.2	99.2	97.7	97.9	97.9		
Basic steel and mill products	331	57.0	102.3	100.8	102.0	99.0	100.7	97.5	102.0	98.6	99.4	99.4	99.7	101.3		
Iron and steel foundries	332	9.9	117.9	119.7	119.2	117.7	116.8	113.5	119.2	122.9	115.7	112.5	117.8	117.0		
Primary nonferrous metals	333	66.2	88.7	86.3	84.7	82.4	83.3	79.3	88.7	85.5	85.3	82.3	80.2	79.5		
Aluminum	3334	60.3	73.0	71.6	69.4	66.9	64.9	60.6	73.9	72.1	68.6	65.5	62.9	58.9		
Nonferrous foundries	336	2.7	165.4	161.7	169.3	164.3	158.2	157.5	170.3	164.3	166.2	155.8	160.0	158.5		
Fabricated metal products	34	31.6	121.1	119.5	119.7	121.4	117.5	115.8	123.5	118.8	116.3	115.4	116.4	115.2		
Metal containers	341	2.9	105.9	100.5	100.5	102.1	103.3	97.9	103.6	98.1	99.7	99.0	100.7	98.3		
Hardware, tools, and cutlery	342	2.6	115.1	112.9	111.9	111.0	109.0	109.8	118.3	111.9	107.1	102.8	107.5	107.2		
Structural metal products	344	5.5	138.1	137.2	141.4	146.1	141.3	136.9	140.8	137.4	138.7	143.0	140.9	137.2		
Fasteners	345	1.7	127.2	128.4	122.4	121.1	121.0	117.5	131.1	127.9	117.5	113.1	119.0	115.6		
Metal stampings	346	6.7	116.8	115.5	114.2	113.0	108.8	107.6	120.6	115.3	110.1	105.2	109.7	108.1		
Industrial machinery and equipment	35	33.2	117.3	117.1	115.6	116.1	110.9	111.4	119.1	114.5	109.7	108.4	107.3	107.4		
Engines and turbines	351	2.6	97.9	101.4	106.2	103.7	100.3	98.9	97.0	103.5	100.2	97.5	101.7	99.0		
Farm	352	2.0	93.2	94.2	86.2	92.0	89.1	91.7	91.5	92.1	84.1	90.3	90.3	92.5		
Construction and allied	353	3.9	119.7	117.7	119.2	119.7	117.2	119.5	122.6	115.9	112.0	112.6	113.6	113.3		
Metalworking	354	4.1	125.4	127.7	124.0	127.2	122.5	121.3	127.5	124.2	118.9	118.6	119.2	117.2		
Special industry	355	2.4	126.1	131.3	121.4	129.8	118.5	115.8	128.1	127.1	117.2	121.8	115.1	112.1		
General industrial	356	5.2	123.5	121.7	121.7	123.0	117.0	115.4	124.8	119.2	116.1	114.1	114.2	112.3		
Computer and office equip.	357	5.1	102.1	100.1	97.5	93.5	86.4	91.4	104.6	97.5	92.1	89.4	81.6	86.7		
Service industry machines	358	3.4	118.9	117.2	123.2	123.1	122.8	118.4	121.1	113.9	114.4	109.6	115.6	113.4		
Electrical machinery	36	33.0	112.9	113.4	113.2	113.0	112.6	112.2	115.4	111.2	109.9	106.9	107.6	108.0		
Electrical distribution	361	1.3	110.1	111.3	107.7	112.3	108.9	107.0	112.0	107.4	104.6	102.6	104.4	102.7		
Electrical industrial	362	3.9	95.1	91.8	92.0	91.1	90.9	89.9	94.6	89.8	88.4	87.7	87.7	88.8		
Household appliances	363	2.4	105.2	105.6	106.3	103.7	101.3	98.5	106.8	101.2	96.5	94.9	97.5	95.8		
Lighting and wiring products	364	3.0	136.6	135.6	134.3	136.0	134.2	129.6	139.6	134.5	130.8	125.6	132.2	125.8		
TV and radio sets	365	.8	134.3	138.2	127.4	128.0	131.5	128.7	139.2	134.8	122.2	122.1	123.4	122.7		
Communication equipment	366	3.3	106.0	110.1	105.3	110.6	111.9	113.9	109.2	106.2	103.3	102.8	105.2	107.4		
Electronic components	367	14.6	118.9	119.7	121.2	120.6	120.5	120.2	121.5	117.3	118.0	115.4	114.3	115.5		
Transportation equipment	37	39.8	113.3	111.4	111.7	110.7	109.1	107.8	116.8	110.1	107.4	103.8	105.5	105.1		
Motor vehicles and parts	371	22.8	128.5	128.8	128.9	125.6	125.5	124.2	132.9	127.4	123.6	117.2	121.4	121.3		
Aircraft and parts	372	10.7	88.5	80.5	81.8	84.8	80.1	77.9	91.3	79.6	79.1	79.6	76.7	75.4		
Ships and boats	373	2.2	91.3	92.0	96.2	96.9	96.7	98.2	90.2	91.0	95.8	97.9	98.2	97.2		
Instruments	38	13.6	109.9	108.4	104.0	105.5	102.8	104.3	111.2	103.5	99.0	100.3	97.2	100.8		
Photographic equip. & supplies	386	1.8	114.8	108.0	104.9	107.6	104.4	111.8	111.7	101.7	100.0	106.3	100.3	113.1		
Miscellaneous manufactures	39	4.5	156.2	157.4	161.6	166.1	158.0	155.1	160.6	154.1	153.4	151.7	151.7	147.5		
SUPPLEMENTARY GROUPS																
Total, excluding nuclear nondefense		908.9	110.2	109.9	108.8	108.7	108.1	106.9	111.8	109.2	107.1	105.7	104.5	104.1		
Utility sales to industry		835.5	110.3	110.1	108.5	106.9	106.5	104.8	111.9	109.8	107.1	103.9	103.5	102.9		
Industrial generation		97.7	102.9	104.2	103.3	105.3	103.0	104.0	105.3	103.5	106.7	108.7	97.9	104.8		

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. Files containing data in the release and historical data are available under “Research and Data” at www.federalreserve.gov, the Board’s World Wide Web site. For paid access to these files through the Department of Commerce’s Economic Bulletin Board or World Wide Web site, please call STAT-USA at 1-800-STAT-USA or (202) 452-1986. 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 1997, the total IP index has been constructed from 276 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; 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 U.S. Geological Survey; 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 a chain-type index since 1977. The components of IP are combined using annual estimates of value added per unit of output; for the data since 1992, the annual unit-value-added estimates are linearly interpolated to get monthly weights. 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 2000; for other series, the factors were estimated with data through at least June 2000. Series are preadjusted for the effects of holidays or the business cycle where appropriate. 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 0.27 percent during the 1987–99 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 1987–99

period. In most cases (about 83 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 on December 5, 2000 will be described more completely in an upcoming *Federal Reserve Bulletin*.

A description of the aggregation methods for industrial production and capacity utilization is included in an article in the *Federal Reserve Bulletin*, vol. 83 (February 1997), pp. 67–92. *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 basic methodology used to estimate capacity and utilization was discussed in an article in the *Federal Reserve Bulletin*, vol. 86 (March 2000), pp. 188–205. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the *Federal Reserve Bulletin* (April 1990, June 1990, June 1993, March 1994, January 1995, January 1996, February 1997, February 1998, January 1999, and March 2000).

Release Schedule for 2001

At 9:15 a.m. on:

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