

FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production, which rose 0.4 percent in July, increased 0.2 percent in August. The production of business equipment and durable goods materials rose sharply. However, the production of defense and space equipment and of durable consumer goods declined further, and the output of energy materials decreased because of the continuing strike in the coal industry. At 111.1 percent of its 1987 annual average, total industrial production was 0.7 percentage point above its level in the second quarter and 4.2 percent above its year-earlier level. For a second month, utilization of total industrial capacity remained at 81.8 percent, just above its level in the spring.

Market Groups

The output of consumer goods decreased 0.2 percent, reversing the gain in July. Among consumer durable goods, the output of automotive products declined about 1/2 percent and was 8-1/2 percent below its April level; the output of other durable consumer goods fell 1 percent as the production of appliances retraced much of its July rise. The output of consumer nondurables was unchanged and has been flat, on balance, since late last year; the production of electricity for

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

Industrial Production	Index, 1987=100				Percent change				Aug. 92 to Aug. 93
	1993 May ^r	June ^r	July ^r	Aug. ^p	1993 May ^r	June ^r	July ^r	Aug. ^p	
Total index	110.2	110.4	110.9	111.1	-.2	.2	.4	.2	4.2
Previous estimates	110.2	110.2	110.6		-.2	-.1	.4		
Major market groups:									
Products,*total	109.3	109.3	109.9	110.0	-.3	.0	.5	.2	3.9
Consumer goods	107.3	107.3	107.5	107.3	-.7	.0	.2	-.2	2.1
Business equipment	135.4	135.7	136.7	137.6	.5	.2	.7	.7	9.1
Construction supplies	97.7	96.7	97.6	97.8	1.3	-1.0	1.0	.2	3.9
Materials	111.6	112.0	112.5	112.7	.0	.4	.4	.2	4.7
Major industry groups:									
Manufacturing	111.3	111.3	111.5	111.9	-.1	.0	.2	.3	4.5
Durable	114.9	114.5	115.2	115.6	-.1	-.3	.6	.4	6.6
Nondurable	106.9	107.3	107.0	107.2	-.1	.4	-.3	.2	1.9
Mining	97.3	97.5	97.2	96.3	.9	.2	-.3	-1.0	-.8
Utilities	112.1	114.9	118.7	118.7	-2.0	2.5	3.3	.0	7.5
Percent of Capacity									Capacity growth
Capacity Utilization	Average 1967-92	1982 Low	1988-89 High	1992 Aug.	1993 May^r	June^r	July^r	Aug.^p	Aug. 92 to Aug. 93
Total industry	81.9	71.8	84.8	79.7	81.5	81.5	81.8	81.8	1.6
Manufacturing	81.2	70.0	85.1	78.7	80.7	80.6	80.7	80.8	1.8
Advanced processing	80.7	71.4	83.3	77.3	79.3	79.0	79.1	79.2	2.2
Primary processing	82.2	66.8	89.1	81.9	84.2	84.4	84.5	84.7	.9
Mining	87.4	80.6	87.0	86.4	87.2	87.5	87.3	86.5	-.9
Utilities	86.7	76.2	92.6	84.1	84.6	86.6	89.4	89.3	1.2

residential use, which surged in July, was little changed in August because of the continued above-normal demand for air-conditioning.

The production of equipment rose more than 1/2 percent despite a further decline in output of defense and space equipment. Oil and gas well drilling, which has picked up recently, rose more than 8 percent. The output of business equipment advanced 0.7 percent, primarily because of the sustained uptrend in the production of information-processing equipment; output of business equipment excluding computers rose only 0.1 percent in August and was 2-3/4 percent above the level of a year ago.

The output of construction supplies, which grew sharply in July, increased 0.2 percent. Over the past year, production of construction supplies has risen about 4 percent, but it has changed little, on balance, since February. The output of industrial materials, which had been held back since May by strikes in mining, rose 0.2 percent in August. Among the major components, the overall production of durable goods materials, which had been sluggish during the late spring and earlier summer months, rose 0.7 percent. Output of parts for equipment increased further, and production of parts for consumer durables picked up. Also, output of basic metals rose despite a strike in iron ore mining and a cutback in aluminum production. Production of nondurable materials, such as chemicals and paper, has changed little recently. Output of energy materials, which had been boosted in July by a spurt in electricity generation, fell back because of the further strike-related curtailments in coal mining.

Industry Groups

Within manufacturing, output increased 0.3 percent in August. Among durable manufacturing industries, the most notable increases occurred in machinery and steel. The gain in output in nondurable manufacturing reflected mainly an increase in food. The utilization of manufacturing capacity, which was 80.8 percent in August, has inched up since June to a level near the upper end of the range that has prevailed for most of this year. The operating rate for advanced processing industries edged up to 79.2 percent in August but was still 1.5 percentage points below its longer-run average; industries that remain at relatively low operating rates include transportation equipment and instruments. The rate for primary processing industries, at 84.7 percent, also was only a bit above its July level but 2.5 percentage points above its long-term average, with most major industries operating at above average rates.

The output at mines fell 1.0 percent because of strikes in the coal and iron ore industries. The output at utilities, which had posted gains averaging nearly 3 percent in June and July, was unchanged.

NOTICE

Selected indexes of industrial electric power use shown in table 9 have been revised back to October 1992. The series affected include the total index, manufacturing, nondurable manufacturing, chemicals and products (SIC 28), and the supplementary group identified as total, excluding nuclear nondefense. Revised indexes through January 1993 are shown below, and data for subsequent months are shown in table 9.

Electric Power Use: Manufacturing and Mining

	Seasonally adjusted				Not seasonally adjusted			
	Oct.	Nov.	Dec.	Jan.	Oct.	Nov.	Dec.	Jan.
Total	111.1	111.0	112.1	110.5	112.8	110.3	109.5	107.0
Manufacturing	111.1	111.2	112.2	110.8	113.0	110.4	109.3	106.7
Nondurable	114.6	116.3	117.7	115.3	117.6	115.0	114.0	111.2
Chemicals and products	119.3	120.6	119.2	117.3	120.6	118.5	117.8	116.5
Total, excl. nuclear nondefense	109.5	109.7	110.3	108.8	111.2	108.9	108.0	105.4

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

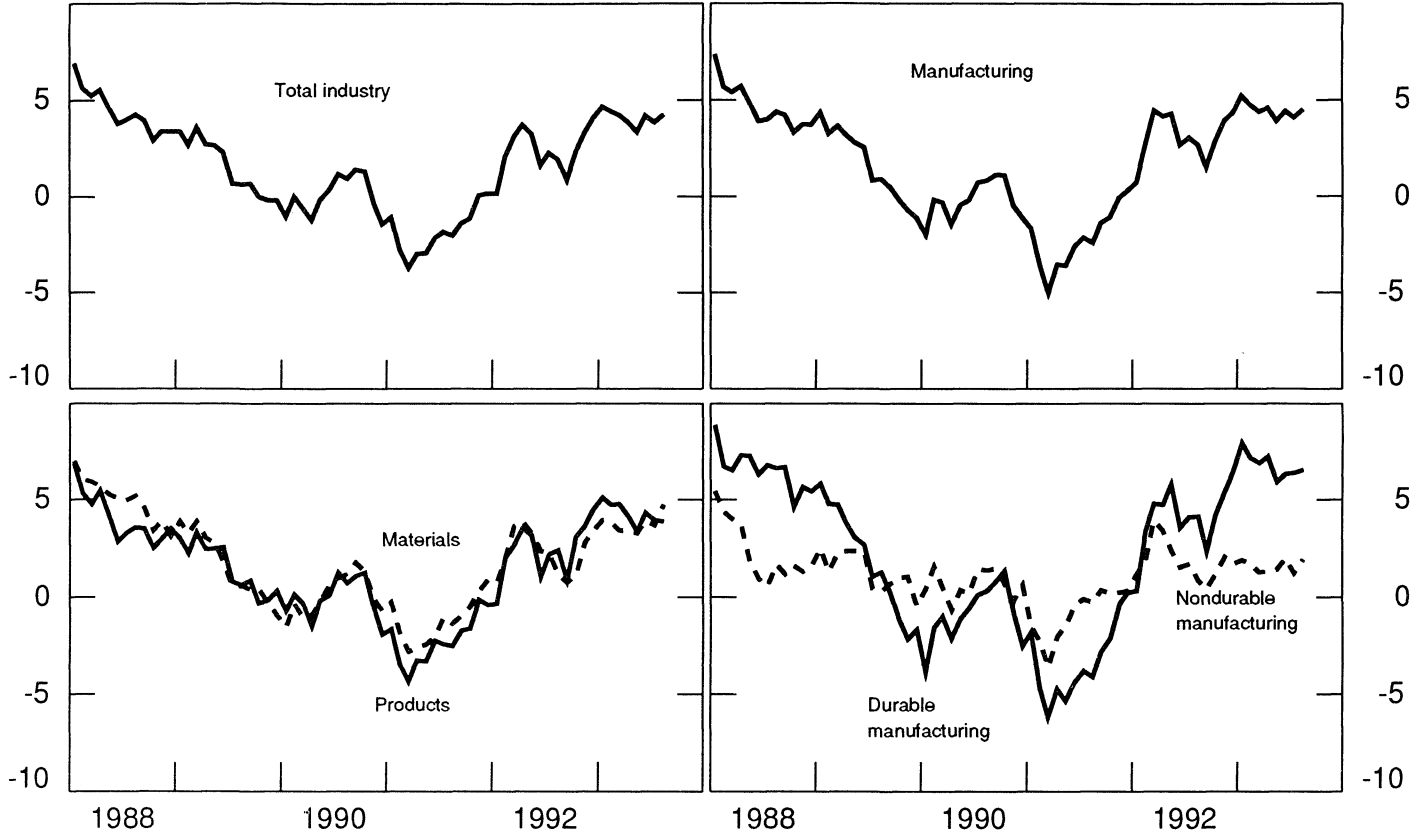
Seasonally adjusted

August data

Industrial production indexes

Twelve-month percent change

Twelve-month percent change

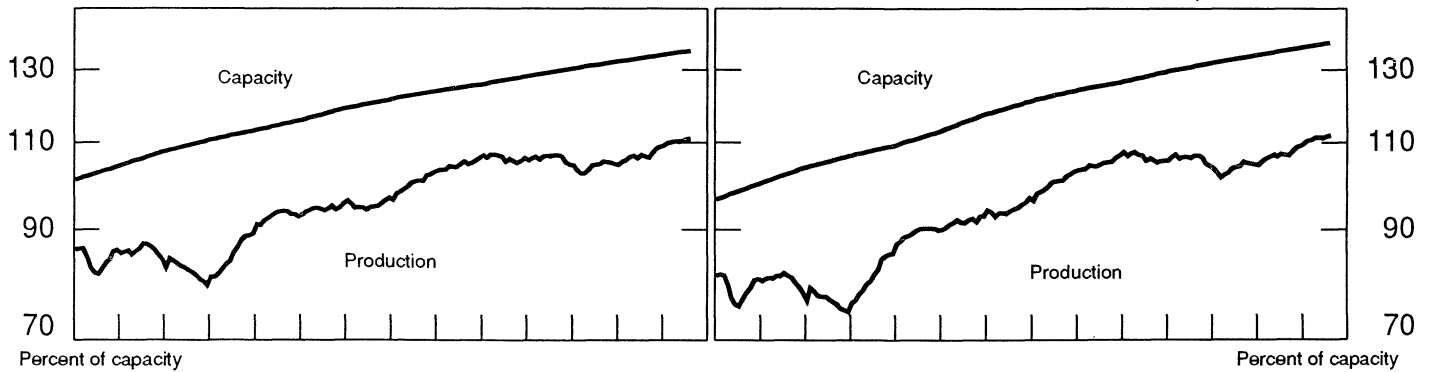


Total industry

Manufacturing

Ratio scale, 1987 production = 100

Ratio scale, 1987 production = 100



Percent of capacity

Percent of capacity

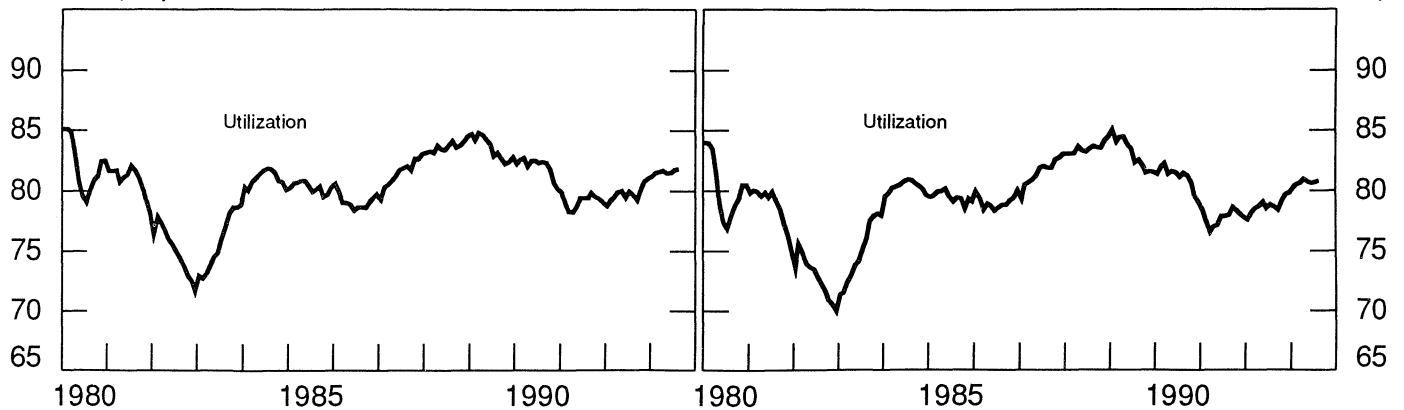


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS

Item	Proportion in Total IP		Index, 1987=100											
			Seasonally Adjusted						Not seasonally adjusted					
	1987	1992	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total index	100.0	100.0	110.1	110.4	110.2	110.4	110.9	111.1	109.4	108.3	108.8	112.5	109.9	114.2
Products, total	59.5	59.0	109.5	109.6	109.3	109.3	109.9	110.0	108.2	106.8	107.7	111.9	108.9	114.4
Final products	44.8	45.6	112.7	112.8	112.5	112.6	112.9	113.1	112.0	109.8	110.9	115.2	110.9	117.5
Consumer goods	26.5	26.2	108.6	108.1	107.3	107.3	107.5	107.3	107.8	105.0	105.2	109.5	105.0	112.0
Durable	5.8	5.6	111.5	112.2	110.8	107.8	107.7	106.8	115.4	112.2	114.5	114.4	92.4	108.9
Automotive products	2.7	2.6	111.2	112.1	109.7	105.4	103.3	102.6	118.4	114.1	117.5	117.1	80.3	104.2
Autos and trucks	1.7	1.6	113.4	114.3	110.1	105.0	100.3	99.2	124.5	116.4	123.3	123.0	65.8	100.4
Autos	1.1	.8	90.5	90.2	86.5	83.5	78.2	71.8	96.1	92.1	97.9	96.5	51.1	72.6
Trucks	.6	.8	153.1	155.9	150.9	142.3	138.6	146.7	173.6	158.6	167.4	168.8	91.3	148.5
Auto parts and allied goods	1.0	1.0	107.5	108.5	109.1	106.1	108.3	108.4	108.3	110.1	107.7	107.2	104.8	110.6
Other durable goods	3.1	3.1	111.7	112.3	111.8	109.9	111.6	110.4	112.7	110.6	111.9	112.0	103.0	113.0
Appliances, TVs, and air-cond.	.8	.8	125.0	124.3	121.1	116.1	121.0	117.3	130.9	119.9	122.1	119.4	103.5	120.3
Carpeting and furniture	.9	.9	104.5	106.2	108.9	108.1	109.4	109.8	105.0	107.4	109.1	111.5	103.1	114.2
Miscellaneous	1.4	1.4	108.9	109.6	108.4	107.5	107.7	106.9	107.3	107.4	108.0	108.1	102.6	108.0
Nondurable	20.7	20.5	107.7	106.9	106.3	107.1	107.4	107.4	105.6	102.9	102.6	108.2	108.6	112.8
Foods and tobacco	9.1	9.0	104.3	103.9	104.3	104.8	104.8	105.1	100.4	99.7	102.0	108.1	104.9	112.5
Clothing	2.6	2.3	94.6	94.9	94.2	94.0	94.0	94.2	93.0	92.0	93.7	97.8	93.7	99.1
Chemical products	3.6	4.0	123.7	123.1	122.6	123.0	123.5	123.1	115.4	117.3	120.4	130.0	133.9	135.9
Paper products	2.6	2.5	102.1	101.7	101.8	102.8	101.6	101.0	103.8	102.3	101.2	101.9	100.4	101.1
Energy products	2.7	2.8	116.0	111.5	107.4	110.4	113.1	112.7	123.8	105.8	90.8	95.5	109.5	107.7
Fuels	.8	.7	107.1	106.6	106.5	105.8	105.7	104.1	101.4	104.7	106.6	108.6	109.1	107.0
Utilities	2.0	2.0	119.5	113.4	107.7	112.2	116.0	116.0	132.4	106.3	84.7	90.4	109.6	108.0
Equipment, total	18.3	19.4	118.7	119.7	119.9	120.2	120.8	121.6	118.0	116.8	119.1	123.3	119.3	125.4
Business equipment	13.2	15.3	133.4	134.8	135.4	135.7	136.7	137.6	132.6	131.5	134.6	140.3	135.1	143.0
Information processing & related	5.5	7.0	149.1	150.6	153.5	155.4	158.3	160.7	146.0	145.8	150.3	159.9	162.1	170.3
Computer and office	1.9	3.0	203.3	209.5	216.5	222.0	228.5	234.5	197.6	198.8	210.2	231.4	236.2	255.8
Industrial	3.9	4.0	113.7	115.0	115.0	114.9	116.1	115.9	112.9	112.0	113.1	117.2	116.8	118.7
Transit	2.0	2.6	145.0	145.0	142.5	138.0	133.3	133.0	151.3	145.0	150.5	149.3	111.0	133.3
Autos and trucks	1.0	1.1	135.8	136.2	133.1	127.2	118.9	119.6	148.5	139.4	148.9	148.2	79.6	121.1
Other	1.8	1.7	114.9	117.5	116.2	117.7	118.3	119.1	113.5	114.5	115.4	120.1	118.8	122.1
Defense and space equipment	4.4	3.5	80.7	80.5	79.5	78.5	78.4	77.7	80.8	79.1	78.6	78.0	76.8	76.9
Oil and gas well drilling	.6	.4	71.1	72.4	75.1	82.4	81.0	87.8	67.0	66.8	69.2	76.1	80.9	87.1
Manufactured homes	.2	.2	116.2	114.9	112.1	113.6	118.5	118.6	114.5	122.2	121.2	129.4	114.2	139.0
Intermediate products	14.7	13.5	99.6	100.0	99.7	99.6	100.6	100.7	96.9	97.6	98.2	102.1	102.8	105.3
Construction supplies	5.9	5.2	96.4	96.4	97.7	96.7	97.6	97.8	94.0	96.2	98.8	101.5	100.1	101.2
Business supplies	8.8	8.3	101.8	102.5	101.0	101.5	102.5	102.6	98.8	98.6	97.8	102.5	104.6	108.0
Materials	40.5	41.0	110.9	111.5	111.6	112.0	112.5	112.7	111.0	110.6	110.4	113.3	111.3	113.7
Durable	20.5	21.0	114.1	114.9	114.8	115.0	115.4	116.2	113.8	113.9	114.7	117.1	113.9	117.2
Consumer parts	4.1	3.9	112.2	112.6	111.6	111.4	110.8	111.6	111.8	111.7	112.8	113.9	106.5	110.8
Equipment parts	7.4	8.1	121.3	122.7	123.5	124.2	125.1	126.4	121.5	121.3	122.5	125.4	123.6	126.6
Other	9.0	9.0	108.9	109.5	109.2	108.9	109.5	109.8	108.4	108.7	109.2	111.8	109.3	112.4
Basic metals	3.1	3.1	109.9	110.3	111.1	111.1	111.7	112.0	111.9	112.1	111.4	113.1	109.7	111.4
Nondurable	9.0	9.4	112.8	113.8	114.1	114.8	114.4	114.6	113.2	115.2	113.5	116.5	112.4	115.2
Textile	1.2	1.1	104.2	102.7	104.3	104.9	105.2	105.8	106.0	104.7	107.7	106.9	98.0	107.8
Paper	2.0	2.0	112.8	115.3	114.1	115.9	114.4	114.2	113.2	114.4	111.0	116.7	111.9	115.0
Chemical	3.8	4.1	115.6	116.1	117.2	118.6	118.0	118.2	115.8	118.6	116.5	119.7	117.6	117.4
Other	2.0	2.1	112.6	114.2	113.6	112.5	113.1	113.1	112.4	115.6	113.4	116.0	111.5	115.5
Energy	11.0	10.6	103.5	103.4	103.4	104.2	105.3	104.4	103.9	100.6	99.9	103.6	105.5	106.0
Primary	7.3	6.8	97.4	99.9	101.6	100.4	100.8	99.6	98.0	97.8	99.1	100.2	99.3	100.1
Converted fuel	3.7	3.8	115.4	110.3	106.8	111.7	114.1	113.8	115.5	106.0	101.4	110.2	117.7	117.6
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	97.2	97.3	109.7	110.1	110.0	110.4	111.0	111.2	108.7	107.9	108.1	111.9	111.0	114.3
Motor vehicles and parts	95.2	95.3	109.6	109.9	109.8	110.2	110.9	111.1	108.5	107.6	107.9	111.8	110.9	114.3
Computer and office equipment	97.7	96.3	107.8	108.0	107.7	107.8	108.1	108.2	107.2	106.2	106.4	109.6	106.8	110.8
Consumer goods excluding:														
Autos and trucks	24.8	24.6	108.2	107.6	107.1	107.4	108.0	107.8	106.6	104.2	104.0	108.6	107.7	112.8
Energy	23.8	23.4	107.7	107.6	107.3	106.9	106.8	106.6	105.9	104.9	106.9	111.2	104.5	112.4
Business equipment excluding:														
Autos and trucks	12.2	14.1	133.2	134.6	135.6	136.5	138.2	139.2	131.2	130.8	133.4	139.6	139.9	144.8
Computer and office equipment	11.3	12.3	121.6	122.2	121.8	121.2	121.2	121.3	121.7	120.1	121.9	125.0	118.1	124.0
Materials excluding:														
Energy	29.5	30.3	113.7	114.6	114.6	114.9	115.1	115.7	113.6	114.3	114.4	116.9	113.5	116.6

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS

Percent change

Item	1991 Q4 to 1992 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Aug. 92 to Aug. 93
		1992 Q3	1993 Q4	1993 Q1	1993 Q2 ^r	1993 May ^r	June ^r	July ^r	Aug. ^p	1993 May ^r	June ^r	July ^r	Aug. ^p	
Total index	3.2	.8	6.7	5.5	2.3	-.2	.2	.4	.2	.4	3.4	-2.3	3.9	4.2
Products, total	3.7	1.5	7.9	5.1	1.4	-.3	.0	.5	.2	.9	3.9	-2.7	5.1	3.9
Final products	4.4	2.4	9.6	5.4	1.0	-.3	.1	.3	.2	.9	3.9	-3.7	6.0	3.9
Consumer goods	2.8	-1.1	8.9	4.6	-2.5	-.7	.0	.2	-.2	.2	4.1	-4.1	6.6	2.1
Durable	6.6	-5.8	16.8	21.7	-3.4	-1.3	-2.7	-.1	-.9	2.1	-.2	-19.2	17.8	4.8
Automotive products	10.9	-7.0	30.5	27.7	-9.8	-2.1	-3.9	-2.0	-.6	3.0	-.4	-31.4	29.7	3.2
Autos and trucks	15.0	-14.4	51.7	41.6	-16.7	-3.7	-4.6	-4.5	-1.1	5.9	-.3	-46.5	52.5	3.4
Autos	8.4	-17.7	16.0	41.3	-10.0	-4.1	-3.5	-6.4	-8.1	6.3	-1.4	-47.1	42.2	-6.7
Trucks	22.2	-10.5	100.4	41.8	-22.9	-3.2	-5.7	-2.6	5.8	5.5	.9	-45.9	62.6	13.9
Auto parts and allied goods	4.6	6.0	2.5	6.7	3.7	.6	-2.8	2.1	.0	-2.2	-.5	-2.2	5.6	2.9
Other durable goods	3.1	-4.9	6.3	16.7	2.7	-.5	-1.7	1.5	-1.1	1.2	.0	-8.0	9.7	6.2
Appliances, TVs, and air-cond.	1.7	-4.7	-1.8	35.9	3.3	-2.5	-4.2	4.2	-3.1	1.9	-2.3	-13.3	16.3	5.6
Carpeting and furniture	8.3	-5.4	14.2	12.4	8.4	2.5	-.7	1.2	.4	1.5	2.2	-7.5	10.8	12.5
Miscellaneous	1.0	-4.6	6.6	9.0	-1.1	-1.1	-.7	.2	-.8	.5	.0	-5.0	5.2	2.7
Nondurable	1.8	.3	6.8	.1	-2.2	-.5	.7	.3	.0	-.4	5.4	.4	3.9	1.3
Foods and tobacco	1.5	5.3	-1.2	-2.0	-1.7	.4	.5	.0	.3	2.3	6.0	-2.9	7.3	-1.7
Clothing	-.5	-2.4	4.2	-1.7	-2.9	-.7	-.3	.0	.2	1.8	4.3	-4.1	5.7	.2
Chemical products	5.2	-2.6	16.5	1.1	1.8	-.4	.3	.4	-.3	2.6	8.0	3.0	1.5	5.7
Paper products	-1.5	-2.8	1.6	2.9	3.0	.0	1.0	-1.2	-.5	-1.1	.7	-1.5	.7	.8
Energy products	2.6	-6.6	29.0	4.4	-13.0	-3.7	2.8	2.4	-.4	-14.2	5.2	14.7	-1.6	6.7
Fuels	3.9	-9.1	24.3	-1.4	-4.3	-.1	-.6	-.1	-1.5	1.8	1.9	.5	-1.9	5.2
Utilities	2.1	-5.6	30.8	6.5	-16.0	-5.0	4.2	3.4	.0	-20.3	6.7	21.2	-1.5	7.2
Equipment, total	6.6	7.2	10.5	6.6	5.7	.2	.2	.5	.6	1.9	3.6	-3.2	5.1	6.4
Business equipment	9.8	11.7	12.6	11.0	10.0	.5	.2	.7	.7	2.4	4.2	-3.7	5.8	9.1
Information processing & related	16.2	20.4	14.4	11.0	19.4	1.9	1.3	1.9	1.5	3.1	6.4	1.4	5.1	16.0
Computer and office	31.1	32.8	25.2	31.5	42.3	3.3	2.5	2.9	2.6	5.7	10.1	2.1	8.3	35.0
Industrial	6.1	5.0	8.3	5.6	7.1	.0	.0	1.0	-.2	.9	3.6	-.3	1.7	6.2
Transit	1.1	4.9	8.8	16.4	-11.2	-1.8	-3.2	-3.4	-.2	3.8	-.8	-25.7	20.1	-7.2
Autos and trucks	9.0	-14.5	40.7	39.0	-11.9	-2.3	-4.4	-6.5	.6	6.9	-.5	-46.3	52.2	2.0
Other	7.8	4.1	21.5	15.9	12.8	-1.2	1.3	.5	.7	.8	4.1	-1.1	2.8	12.8
Defense and space equipment	-7.8	-10.7	-7.5	-7.7	-8.9	-1.2	-1.3	-.1	-.9	-.6	-.8	-1.5	.2	-8.0
Oil and gas well drilling	9.0	3.2	76.6	-30.0	-13.0	3.7	9.8	-1.7	8.4	3.6	10.0	6.2	7.7	16.0
Manufactured homes	48.6	38.4	104.5	18.0	-30.2	-2.5	1.3	4.3	.1	-.8	6.8	-11.8	21.8	22.4
Intermediate products	1.6	-1.3	2.3	4.1	2.9	-.4	-.1	1.0	.2	.6	4.0	.7	2.4	3.8
Construction supplies	4.4	-1.5	4.2	6.5	2.8	1.3	-1.0	1.0	.2	2.7	2.7	-1.4	1.1	3.9
Business supplies	-.2	-1.2	1.1	2.7	3.0	-1.4	.5	1.0	.1	-.9	4.8	2.0	3.2	3.7
Materials	2.4	-.3	4.9	6.1	3.5	.0	.4	.4	.2	-.1	2.6	-1.8	2.2	4.7
Durable	4.0	-.8	8.7	11.1	3.7	-.1	.1	.4	.7	.7	2.1	-2.7	2.9	6.7
Consumer parts	3.9	-5.9	18.6	29.9	1.1	-.9	-.2	-.5	.7	1.0	.9	-6.5	4.1	10.1
Equipment parts	5.7	3.7	7.2	6.3	8.7	.6	.6	.7	1.0	1.0	2.3	-1.4	2.4	7.9
Other	2.5	-2.5	6.1	7.9	.5	-.3	-.3	.6	.3	.4	2.4	-2.2	2.8	4.1
Basic metals	1.1	-4.7	5.9	8.4	-1.3	.7	.0	.6	.3	-.7	1.5	-3.0	1.5	4.0
Nondurable	2.2	-.5	.4	3.8	6.5	.3	.7	-.3	.1	-1.5	2.7	-3.5	2.5	3.5
Textile	4.9	7.3	-4.6	3.4	.5	1.5	.5	.3	.5	2.9	-.8	-8.4	10.0	4.1
Paper	.5	-.1	-1.6	6.8	12.4	-1.0	1.6	-1.3	-.1	-2.9	5.1	-4.0	2.7	5.1
Chemical	2.4	-1.8	1.7	.7	8.0	1.0	1.1	-.5	.2	-1.7	2.7	-1.7	-.2	3.2
Other	2.1	-2.3	2.5	7.6	1.3	-.5	-1.0	.5	.0	-1.9	2.2	-3.8	3.6	2.3
Energy	-.3	.8	1.7	-1.5	.4	-.1	.8	1.0	-.8	-.7	3.7	1.9	.5	1.9
Primary	-1.2	1.4	1.9	-6.0	8.0	1.7	-1.2	.4	-1.1	1.3	1.1	-.9	.8	.3
Converted fuel	1.4	-.3	1.4	6.8	-11.6	-3.2	4.6	2.2	-.3	-4.4	8.7	6.7	-.1	4.8
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	3.0	1.2	5.7	4.6	2.8	-.1	.3	.6	.2	.3	3.5	-.9	3.0	4.3
Motor vehicles and parts	2.9	1.2	5.5	4.0	2.9	-.1	.3	.6	.2	.2	3.6	-.8	3.1	4.1
Computer and office equipment	2.3	-.3	6.0	4.5	.7	-.3	.1	.3	.0	.2	3.0	-2.6	3.7	3.0
Consumer goods excluding:														
Autos and trucks	2.0	-.2	6.6	2.3	-1.4	-.4	.3	.5	-.2	-.2	4.5	-.8	4.7	2.0
Energy	2.8	-.4	6.7	4.6	-1.2	-.3	-.4	-.1	-.2	1.9	4.0	-6.0	7.6	1.5
Business equipment excluding:														
Autos and trucks	9.9	14.1	10.6	8.9	12.1	.7	.6	1.3	.7	2.0	4.7	.2	3.5	9.7
Computer and office equipment	5.4	7.0	9.6	6.1	2.2	-.4	-.4	.0	.1	1.5	2.5	-5.5	5.0	2.7
Materials excluding:														
Energy	3.4	-.7	6.1	8.9	4.5	.0	.3	.2	.5	.1	2.3	-3.0	2.8	5.7

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

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Item		SIC		Proportion in Total IP		Index, 1987=100											
						Seasonally Adjusted						Not seasonally adjusted					
				1987	1992	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total index				100.0	100.0	110.1	110.4	110.2	110.4	110.9	111.1	109.4	108.3	108.8	112.5	109.9	114.2
Manufacturing				84.3	84.6	110.8	111.4	111.3	111.3	111.5	111.9	109.6	109.6	110.8	114.4	110.3	115.3
Primary processing				27.1	26.4	106.4	107.1	107.1	107.4	107.6	107.9	106.0	107.2	107.1	109.9	106.5	109.6
Advanced processing				57.1	58.1	112.9	113.4	113.3	113.1	113.4	113.7	111.3	110.8	112.5	116.5	112.1	118.0
Durable				46.5	47.2	114.1	115.0	114.9	114.5	115.2	115.6	114.2	113.5	115.0	117.9	112.3	118.1
Lumber and products		24		2.1	1.9	98.0	98.1	97.4	96.0	97.7	97.9	97.7	98.0	98.0	100.4	97.3	102.9
Furniture and fixtures		25		1.5	1.4	107.3	108.8	108.4	108.9	109.8	110.7	104.8	107.0	106.3	110.7	105.4	116.2
Stone, clay, and glass products		32		2.4	2.2	98.6	99.8	99.6	99.9	100.9	101.0	96.0	99.7	100.9	103.0	102.1	105.4
Primary metals		33		3.3	3.2	104.2	104.4	104.2	105.6	105.6	107.1	106.2	106.4	104.8	107.3	103.1	105.9
Iron and steel		331,2		1.9	1.9	107.6	108.4	108.1	110.9	111.9	113.4	109.8	110.8	108.9	112.6	110.0	111.4
Raw steel				.1	.1	102.0	102.6	105.1	106.8	108.2	109.8	106.2	106.2	107.1	107.2	104.6	107.1
Nonferrous		333-6,9		1.4	1.3	99.4	98.9	98.9	98.4	97.0	98.4	101.2	100.3	99.1	99.9	93.6	98.3
Fabricated metal products		34		5.4	4.9	100.3	101.4	100.6	100.2	101.0	101.5	99.4	99.3	100.6	103.2	100.6	103.4
Industrial and commercial machinery and computer equip.		35		8.5	10.0	139.6	142.8	144.2	145.1	148.3	150.0	138.1	138.0	142.2	150.2	151.2	157.5
Computer and office equip.		357		2.3	3.7	203.3	209.5	216.5	222.0	228.5	234.5	197.6	198.8	210.2	231.4	236.2	255.8
Electrical machinery		36		6.9	7.8	128.5	129.0	129.7	129.5	130.8	131.6	128.4	127.0	128.5	130.9	127.5	132.5
Transportation equipment		37		9.9	9.5	106.9	106.9	105.5	103.3	101.5	101.1	110.3	107.1	109.5	109.0	89.4	100.3
Motor vehicles and parts		371		4.8	4.7	120.1	120.4	118.1	115.0	111.6	111.6	126.9	122.1	127.4	127.1	89.1	111.5
Autos and light trucks				2.2	2.1	116.9	117.5	113.1	108.2	102.8	99.9	127.3	119.8	127.0	126.3	67.4	101.0
Aerospace and misc.		372-6,9		5.1	4.8	94.6	94.2	93.7	92.3	92.0	91.1	94.8	93.1	92.8	91.9	89.7	89.8
Instruments		38		5.1	5.0	103.3	102.6	102.5	102.3	102.3	101.9	101.9	101.0	101.0	103.5	103.1	104.2
Miscellaneous		39		1.3	1.3	112.6	114.3	113.1	112.0	112.2	112.4	111.6	112.4	112.2	112.5	108.7	114.0
Nondurable				37.8	37.4	106.6	106.9	106.9	107.3	107.0	107.2	104.0	104.8	105.5	110.1	107.8	112.0
Foods		20		8.8	8.8	106.7	106.7	106.7	107.2	107.1	107.9	102.1	102.2	104.3	109.4	108.5	114.4
Tobacco products		21		1.0	1.0	92.4	90.2	92.1	92.1	90.3	90.0	95.9	86.2	88.3	99.8	75.2	95.4
Textile mill products		22		1.8	1.8	105.4	104.2	106.9	106.9	107.5	107.9	105.3	106.2	109.6	111.5	103.9	112.0
Apparel products		23		2.3	2.0	92.1	92.0	91.2	90.9	91.0	91.1	90.7	88.9	90.5	93.0	89.7	94.3
Paper and products		26		3.6	3.7	111.1	113.1	112.1	114.2	113.3	113.4	111.9	113.5	109.3	114.8	111.3	114.2
Printing and publishing		27		6.5	5.8	94.7	95.6	94.7	94.9	94.5	94.3	91.3	93.0	93.0	96.5	96.9	100.0
Chemicals and products		28		8.8	9.5	117.6	117.8	118.1	119.1	118.7	118.8	114.3	116.9	117.2	123.0	123.1	124.4
Petroleum products		29		1.3	1.3	104.7	104.3	103.6	103.7	102.6	101.2	97.8	100.8	104.6	108.7	109.1	107.0
Rubber and plastics products		30		3.2	3.3	112.9	113.6	113.8	112.4	113.0	113.0	112.6	112.7	113.8	115.2	109.1	114.4
Leather and products		31		.3	.3	99.1	100.1	98.2	96.9	98.0	99.3	96.8	96.1	97.6	100.3	94.0	102.1
Mining				8.0	7.3	95.3	96.4	97.3	97.5	97.2	96.3	95.4	95.7	95.6	96.5	94.9	96.3
Metal mining		10		.3	.5	158.2	162.5	169.3	163.2	165.5	156.3	160.3	165.2	172.1	168.1	164.6	161.5
Coal mining		12		1.2	1.2	102.3	108.2	106.4	103.7	101.0	93.6	104.7	105.3	100.4	102.7	93.5	100.4
Oil and gas extraction		13		5.8	5.0	90.4	90.5	91.6	93.1	92.9	93.6	90.7	90.2	89.9	90.8	90.5	91.0
Stone and earth minerals		14		.7	.6	93.4	92.3	94.0	91.7	93.3	93.9	86.1	91.7	97.9	98.5	100.0	101.5
Utilities				7.7	8.1	117.8	114.4	112.1	114.9	118.7	118.7	121.2	107.8	101.3	108.6	120.9	120.0
Electric		491,3pt		6.1	6.4	116.3	114.5	114.0	115.6	120.3	120.4	110.5	104.3	106.3	118.3	134.0	133.3
Gas		492,3pt		1.6	1.7	123.3	113.9	104.9	112.2	112.6	112.6	161.0	120.5	82.8	72.9	72.4	70.7
SPECIAL AGGREGATES																	
Manufacturing excluding:																	
Motor vehicles and parts				79.5	79.8	110.2	110.8	110.9	111.0	111.5	111.9	108.6	108.8	109.8	113.6	111.5	115.6
Computer and office equipment				81.9	80.9	108.1	108.6	108.3	108.1	108.2	108.4	107.1	107.1	107.9	111.0	106.7	111.3
Memo: Motor vehicle assemblies¹																	
Total						11.0	11.1	10.7	10.2	9.6	9.5	12.8	11.5	11.6	12.1	6.4	9.8
Autos						6.3	6.3	6.0	5.8	5.4	5.0	7.1	6.5	6.6	6.8	3.6	5.1
Trucks						4.8	4.8	4.7	4.4	4.2	4.5	5.7	5.0	5.1	5.3	2.8	4.7
Light						4.5	4.6	4.4	4.2	4.0	4.3	5.4	4.7	4.7	5.0	2.7	4.4
Heavy and medium						0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3

1. Millions of units at an annual rate.

Note—Primary processing manufacturing includes textile mill products, paper and products, industrial chemicals, synthetic materials, and fertilizers,

petroleum products, rubber and plastics products, lumber and products, primary metals, fabricated metals, and stone, clay, and glass products.

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

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Percent change

Item	SIC	1991 Q4 to 1992 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Aug. 92 to Aug. 93
			1992 Q3	Q4	1993 Q1	Q2 ^r	1993 May ^r	June ^r	July ^r	Aug. ^p	1993 May ^r	June ^r	July ^r	Aug. ^p	
Total index		3.2	.8	6.7	5.5	2.3	-.2	.2	.4	.2	.4	3.4	-2.3	3.9	4.2
Manufacturing		3.7	1.1	6.5	6.4	3.4	-.1	.0	.2	.3	1.1	3.2	-3.6	4.6	4.5
Primary processing		2.9	-.7	4.0	6.6	3.1	.0	.4	.1	.3	-.1	2.7	-3.1	3.0	4.2
Advanced processing		4.1	1.7	8.1	6.3	3.4	-.2	-.2	.3	.3	1.6	3.5	-3.8	5.3	4.7
Durable		5.4	2.0	9.7	10.3	4.3	-.1	-.3	.6	.4	1.4	2.5	-4.7	5.1	6.6
Lumber and products	24	7.1	3.9	11.2	4.7	-9.8	-.8	-1.4	1.9	.1	.0	2.5	-3.1	5.8	1.3
Furniture and fixtures	25	6.6	3.5	13.3	16.4	9.9	-.4	.5	.8	.8	-.7	4.1	-4.8	10.3	11.6
Stone, clay, and glass products	32	5.9	2.1	4.8	2.9	6.7	-.3	.3	1.0	.1	1.2	2.1	-.8	3.2	5.5
Primary metals	33	.9	-6.3	7.4	14.5	-.9	-.1	1.4	.0	1.4	-1.5	2.4	-3.9	2.7	6.5
Iron and steel	331,2	1.3	-4.7	6.1	16.6	-.1	-.2	2.6	.9	1.3	-1.7	3.4	-2.4	1.3	9.3
Raw steel		1.8	-.9	10.4	5.5	4.2	2.4	1.6	1.3	1.5	.9	.1	-2.5	2.4	10.8
Nonferrous	333-6,9	.4	-8.7	9.5	11.3	-2.1	.0	-.5	-1.5	1.5	-1.2	.8	-6.2	5.0	2.4
Fabricated metal products	34	2.3	-.8	3.4	9.8	3.2	-.8	-.4	.8	.4	1.3	2.6	-2.5	2.8	4.6
Industrial and commercial machinery and computer equip.	35	15.2	14.4	18.8	15.1	21.8	1.0	.6	2.2	1.2	3.0	5.7	.7	4.1	18.2
Computer and office equip.	357	31.1	32.8	25.2	31.5	42.3	3.3	2.5	2.9	2.6	5.7	10.1	2.1	8.3	35.0
Electrical machinery	36	8.1	6.8	10.4	10.7	7.3	.6	-.2	1.0	.6	1.2	1.8	-2.6	3.9	9.1
Transportation equipment	37	.2	-7.6	11.8	13.8	-8.9	-1.3	-2.1	-1.7	-.4	2.2	-.5	-17.9	12.2	-1.3
Motor vehicles and parts	371	10.2	-8.0	33.7	37.4	-8.7	-1.9	-2.6	-2.9	.0	4.3	-.2	-29.9	25.1	6.3
Autos and light trucks		8.5	-17.4	38.9	40.9	-15.1	-3.8	-4.3	-5.0	-2.9	6.0	-.6	-46.6	49.9	.2
Aerospace and misc.	372-6,9	-8.7	-7.2	-6.9	-7.9	-9.2	-.6	-1.4	-.3	-1.0	-.3	-1.0	-2.4	.1	-8.8
Instruments	38	-1.6	-1.9	-2.9	-2.7	-1.5	-.1	-.1	-.1	-.4	.0	2.5	-.4	1.1	-2.3
Miscellaneous	39	3.6	1.1	5.3	2.1	4.9	-1.1	-1.0	.1	.2	-.2	.3	-3.4	4.9	3.0
Nondurable		1.7	.0	2.6	1.5	2.2	-.1	.4	-.3	.2	.7	4.3	-2.1	3.9	1.9
Foods	20	.8	.3	2.2	.0	1.5	.0	.5	-.2	.8	2.0	4.9	-.8	5.5	1.5
Tobacco products	21	9.0	42.7	-21.1	-10.4	-22.4	2.1	.0	-1.9	-.3	2.4	13.1	-24.7	27.0	-22.0
Textile mill products	22	4.4	2.4	-.1	3.7	-.6	2.5	.0	.6	.3	3.1	1.8	-6.8	7.8	4.2
Apparel products	23	-1.6	-4.4	2.6	.8	-5.2	-1.0	-.3	.1	.1	1.8	2.7	-3.6	5.2	-.2
Paper and products	26	-.1	-.5	-2.3	8.0	11.8	-.9	1.9	-.8	.0	-3.7	5.0	-3.1	2.6	5.8
Printing and publishing	27	-1.9	-3.5	-.1	.2	2.4	-.9	.2	-.4	-.2	.1	3.8	.4	3.2	.8
Chemicals and products	28	3.8	-.2	7.7	.0	5.1	.3	.8	-.3	.1	.3	5.0	.0	1.0	3.9
Petroleum products	29	2.8	-9.4	17.0	-.1	-1.2	-.6	.1	-1.1	-1.3	3.8	3.9	.3	-1.9	3.3
Rubber and plastics products	30	3.8	.9	3.3	8.3	.8	.1	-1.2	.5	.0	1.0	1.3	-5.3	4.9	2.1
Leather and products	31	8.5	6.2	13.6	9.6	.1	-1.9	-1.3	1.1	1.3	1.5	2.7	-6.2	8.6	8.0
Mining		-.9	-1.0	1.5	-5.7	2.5	.9	.2	-.3	-1.0	-.2	1.0	-1.7	1.5	-.8
Metal mining	10	6.5	-3.4	14.1	-6.9	5.0	4.2	-3.6	1.4	-5.5	4.2	-2.3	-2.1	-1.9	-5.5
Coal mining	12	-2.7	-3.1	-.4	-3.8	8.1	-1.7	-2.5	-2.6	-7.3	-4.6	2.2	-9.0	7.4	-9.9
Oil and gas extraction	13	-1.3	.4	.9	-6.9	1.9	1.2	1.6	-.2	.8	-.3	1.1	-.3	.5	1.8
Stone and earth minerals	14	1.0	-6.4	1.1	2.8	-6.1	1.9	-2.4	1.7	.6	6.7	.6	1.5	1.5	.1
Utilities		2.0	-.5	14.4	4.6	-7.5	-2.0	2.5	3.3	.0	-6.0	7.2	11.3	-.8	7.5
Electric	491,3pt	1.9	-.3	14.4	3.2	-1.8	-.4	1.4	4.1	.0	1.9	11.3	13.3	-.5	9.5
Gas	492,3pt	2.2	-.9	14.8	9.9	-26.1	-7.9	6.9	.4	.0	-31.3	-11.9	-.7	-2.3	.5
SPECIAL AGGREGATES															
Manufacturing excluding:															
Motor vehicles and parts		3.3	1.7	5.1	4.7	4.2	.0	.2	.4	.3	.9	3.5	-1.8	3.6	4.4
Computer and office equipment		2.7	-.1	5.7	5.2	1.6	-.3	-.1	.0	.2	.8	2.9	-3.9	4.4	3.1

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	1992 Proportion	1967- 1992 Ave.	1973 High	1978- 1980 High	1982 Low	1988- 1989 High	1990- 1991 Low	1992 Aug.	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total industry		100.0	81.9	89.2	87.3	71.8	84.8	78.3	79.7	81.6	81.7	81.5	81.5	81.8	81.8
Manufacturing		85.8	81.2	88.9	87.3	70.0	85.1	76.6	78.7	80.6	80.9	80.7	80.6	80.7	80.8
Primary processing		25.3	82.2	92.2	89.7	66.8	89.1	77.9	81.9	83.8	84.3	84.2	84.4	84.5	84.7
Advanced processing		60.6	80.7	87.5	86.3	71.4	83.3	76.1	77.3	79.3	79.5	79.3	79.0	79.1	79.2
Durable		50.1	79.1	88.8	86.9	65.0	83.9	73.8	76.5	79.5	79.9	79.7	79.3	79.6	79.8
Lumber and products	24	1.7	83.0	90.1	87.6	60.9	93.3	76.8	86.0	87.0	87.1	86.4	85.1	86.6	86.7
Furniture and fixtures	25	1.4	81.8	96.8	86.6	68.9	86.8	71.7	77.6	83.4	84.5	84.1	84.4	85.0	85.6
Stone, clay, and glass products	32	2.3	78.0	89.2	87.0	63.1	83.7	71.0	76.3	78.6	79.6	79.4	79.6	80.4	80.5
Non-durable		35.8	83.5	87.9	87.0	76.9	86.8	80.4	81.7	82.2	82.3	82.2	82.4	82.1	82.1
Foods	20	8.6	82.4	86.0	84.3	78.8	83.3	80.8	81.3	80.9	80.8	80.7	80.9	80.7	81.2
Textile mill products	22	1.6	86.0	92.0	91.7	73.8	92.1	78.7	88.8	90.1	89.0	91.2	91.2	91.7	92.0
Apparel products	23	2.1	81.1	84.2	86.0	78.9	84.2	74.6	77.5	78.5	78.4	77.7	77.5	77.6	77.7
Paper and products	26	3.3	89.7	96.9	94.2	82.0	94.9	86.0	88.0	90.6	92.2	91.2	92.8	92.0	91.9
Pulp and paper	261-3	1.5	92.2	97.1	98.2	82.1	98.1	90.2	90.2	92.4	93.8	93.0	94.4	93.3	
Printing and publishing	27	5.8	86.5	89.7	92.2	83.0	92.3	78.4	76.6	77.3	78.0	77.2	77.3	76.9	76.7
Chemicals and products	28	9.2	79.9	87.9	85.1	70.1	85.9	78.5	80.2	81.3	81.2	81.3	81.7	81.3	81.2
Plastics materials	2821	0.7	85.5	102.0	90.9	63.4	97.0	75.5	85.4	87.4	87.7	85.7	86.7		
Synthetic fibers	2823,4	0.4	84.8	93.8	98.5	64.4	99.7	77.3	87.4	88.4	85.7	87.3	89.6	86.3	
Petroleum products	29	1.2	85.3	96.7	89.5	68.2	88.5	84.2	84.1	90.4	90.1	89.6	89.8	88.8	87.7
Rubber and plastics products	30	3.0	83.6	94.0	90.4	73.5	90.5	78.5	82.7	83.0	83.4	83.3	82.1	82.3	82.2
Leather and products	31	0.3	81.9	81.3	92.4	78.1	83.8	75.4	81.5	88.2	89.1	87.4	86.3	87.3	88.5
Mining		6.7	87.4	94.4	96.6	80.6	87.0	86.8	86.4	85.3	86.4	87.2	87.5	87.3	86.5
Metal mining	10	0.4	77.9	90.3	87.6	43.4	87.5	79.5	87.3	82.8	84.9	88.3	85.0	86.0	81.2
Coal mining	12	1.2	87.2	90.8	95.7	75.4	91.4	83.1	80.9	79.1	83.5	82.0	79.9	77.7	71.9
Oil and gas extraction	13	4.5	88.2	96.6	96.9	82.5	86.9	87.8	88.6	88.1	88.4	89.5	91.1	91.0	91.9
Oil and gas well drilling	138	0.6	72.7	93.0	104.3	50.8	60.7	54.0	55.4	54.8	56.2	58.7	64.9	64.3	70.2
Stone and earth minerals	14	0.6	84.0	93.7	93.3	63.3	90.0	77.6	79.7	79.5	78.5	80.0	78.0	79.4	79.9
Utilities		7.5	86.7	95.6	88.3	76.2	92.6	83.4	84.1	89.0	86.4	84.6	86.6	89.4	89.3
Electric	491,3pt	5.7	88.9	99.0	88.3	78.7	94.8	87.4	85.9	90.0	88.6	88.1	89.2	92.8	92.7
Gas	492,3pt	1.7	82.6	93.2	93.6	70.8	85.5	68.3	77.8	85.6	79.1	72.9	77.9	78.2	78.2

1. Series begins in 1977.

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

Table 4
INDUSTRIAL CAPACITY: MANUFACTURING, MINING, AND UTILITIES

Item	SIC	Percent change								Capacity indexes						
		Annual rate			December to December					Percent of 1987 output						
		1967-1992 Ave.	1967-1975 Ave.	1975-1992 Ave.	1988	1989	1990	1991	1992	1992 Aug.	1993 Mar.	Apr.	May	June	July	Aug.
Total industry		2.8	3.7	2.4	1.5	1.9	1.8	1.6	1.5	133.7	134.9	135.1	135.3	135.5	135.7	135.9
Manufacturing		3.2	3.9	2.9	2.0	2.4	2.1	1.8	1.8	136.0	137.4	137.6	137.8	138.0	138.3	138.5
Primary processing		2.1	4.0	1.2	1.6	1.9	1.6	.9	.7	126.4	126.9	127.0	127.1	127.2	127.3	127.4
Advanced processing		3.8	3.9	3.7	2.1	2.6	2.2	2.2	2.2	140.6	142.4	142.6	142.9	143.2	143.4	143.7
Durable		3.5	3.7	3.3	2.0	2.4	2.0	1.9	2.1	141.9	143.6	143.9	144.1	144.4	144.6	144.9
Lumber and products	24	1.7	2.9	1.0	1.1	1.0	.0	-1.1	.3	112.4	112.6	112.7	112.7	112.8	112.8	112.9
Furniture and fixtures	25	3.1	4.5	2.3	2.7	2.7	2.0	.5	1.1	127.8	128.7	128.8	128.9	129.1	129.2	129.4
Stone, clay, and glass products	32	1.3	2.5	.7	.2	.4	.4	-.4	.0	125.4	125.5	125.5	125.5	125.5	125.5	125.5
Non-durable		-.1	1.7	-1.1	.8	1.4	.5	-.8	-1.0	125.3	124.9	124.9	124.9	124.9	124.9	124.9
Primary metals	33	-.9	.7	-1.8	1.3	2.1	.8	-1.4	-1.4	130.4	129.8	129.9	130.0	130.0	130.1	130.1
Iron and steel	331,2	-1.1	.3	-1.9	1.3	1.7	-.2	-1.7	-1.1	126.5	126.1	126.1	126.2	126.2	126.2	126.3
Raw steel		1.3	3.6	.1	.1	.2	.0	.1	-.4	118.3	118.0	117.9	117.9	117.8	117.8	117.7
Nonferrous	333-6,9	-.4	1.8	-1.6	-.3	2.4	.3	.3	.0	131.6	131.9	132.1	132.2	132.4	132.5	132.7
Primary copper	3331	1.4	5.2	-.5	1.3	1.2	.4	.6	.3	124.3	124.5	124.6	124.6	124.7	124.7	124.8
Primary aluminum	3334															
Fabricated metal products	34	1.6	3.1	.8	.5	.5	.5	.0	.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
Industrial and commercial machinery and computer equip.	35	6.4	4.7	7.3	1.9	2.5	3.1	4.6	3.9	160.6	164.3	164.9	165.5	166.1	166.7	167.3
Electrical machinery	36	5.2	6.1	4.8	4.1	4.3	4.1	3.0	3.6	151.3	154.6	155.2	155.7	156.2	156.8	157.3
Transportation equipment		2.7	3.0	2.6	2.2	3.0	1.5	1.9	2.2	144.0	145.6	145.7	145.8	145.9	146.1	146.2
Motor vehicles and parts	371	3.2	4.5	2.5	2.3	3.2	1.8	2.9	4.4	152.9	156.2	156.5	156.8	157.1	157.4	157.7
Autos and light trucks ¹					-.8	2.0	-.1	.4	4.8	142.5	145.9	146.3	146.6	146.9	147.3	147.6
Aerospace and misc.	372-6,9	2.1	1.3	2.5	2.2	2.7	1.2	.8	.0	135.7	135.6	135.6	135.5	135.5	135.4	135.4
Instruments	38	5.4	7.6	4.3	2.5	2.9	2.2	1.9	1.6	141.0	142.2	142.4	142.5	142.7	142.8	143.0
Miscellaneous	39	2.1	4.4	.9	1.7	1.4	1.9	1.5	1.5	143.4	144.8	145.1	145.4	145.6	145.9	146.1
Nondurable		2.9	4.3	2.2	1.9	2.3	2.1	1.6	1.3	128.7	129.8	129.9	130.1	130.3	130.4	130.6
Foods	20	2.5	3.0	2.3	1.1	1.1	1.3	1.4	1.5	130.8	131.9	132.1	132.3	132.5	132.6	132.8
Textile mill products	22	2.0	4.3	.8	1.1	1.8	1.2	.8	.5	116.6	117.0	117.0	117.1	117.2	117.2	117.3
Apparel products	23	1.3	2.3	.8	-.7	.5	.2	-.5	-.6	117.8	117.4	117.4	117.4	117.3	117.3	117.3
Paper and products	26	2.7	3.9	2.1	2.8	2.8	2.6	2.1	1.3	121.7	122.6	122.8	122.9	123.0	123.2	123.3
Pulp and paper	261-3	2.4	3.0	2.1	3.5	2.3	2.8	3.0	1.9	120.1	121.4	121.6	121.7	121.9	122.1	122.3
Printing and publishing	27	3.2	3.0	3.3	2.4	3.1	2.7	1.3	.4	122.2	122.5	122.6	122.7	122.8	122.8	122.9
Chemicals and products		3.9	6.8	2.4	3.5	3.6	2.9	2.6	2.5	142.6	144.7	145.0	145.4	145.7	146.0	146.3
Plastics materials	2821	7.0	12.7	4.1	9.2	6.4	2.5	2.6	1.5	128.3	129.8	130.2	130.5	130.8	131.2	131.5
Synthetic fibers	2823,4	4.4	9.7	1.8	4.1	2.5	.8	2.4	6.3	126.5	130.2	130.6	130.9	131.2	131.5	131.9
Petroleum products	29	1.6	4.2	.3	-.2	-.7	1.0	-1.0	-1.3	116.6	115.8	115.7	115.7	115.6	115.5	115.4
Rubber and plastics products	30	5.5	8.6	4.0	2.8	3.8	4.0	3.0	2.5	133.9	136.0	136.3	136.6	136.9	137.2	137.6
Leather and products	31	-3.2	-1.5	-4.0	-5.1	-3.4	-3.1	-1.0	-.8	112.8	112.4	112.4	112.3	112.3	112.2	112.2
Mining		.0	-.1	.1	-4.3	-2.0	-1.3	-.6	-1.0	112.3	111.7	111.6	111.5	111.4	111.4	111.3
Metal mining	10	1.4	.7	1.8	9.2	10.9	4.8	2.3	1.3	189.5	191.2	191.5	191.7	192.0	192.3	192.6
Coal mining	12	2.6	2.5	2.6	1.9	2.1	2.1	2.1	1.2	128.4	129.4	129.5	129.7	129.9	130.0	130.2
Oil and gas extraction	13	-.6	-1.0	-.4	-7.0	-4.2	-2.9	-1.6	-1.9	103.8	102.6	102.5	102.3	102.2	102.0	101.9
Oil and gas well drilling	138	.7	.8	.7	-25.9	-9.7	-9.5	-5.5	-8.2	136.5	129.7	128.8	127.9	127.0	126.0	125.1
Stone and earth minerals	14	.9	2.6	.0	.8	.3	-.2	-.5	-.1	117.7	117.6	117.6	117.6	117.6	117.5	117.5
Utilities		3.1	6.0	1.5	2.3	.7	1.8	1.0	1.3	131.4	132.3	132.4	132.5	132.6	132.8	132.9
Electric	491,3pt	4.2	7.8	2.4	2.4	1.0	2.4	1.3	1.7	127.9	129.1	129.3	129.4	129.6	129.7	129.9
Gas	492,3pt	.3	2.3	-.7	2.0	.1	.0	.0	.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0

1. Series begins in 1977.

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

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
Industrial Production, Percent Change¹																	
1981	-8	.3	.4	-9	.7	.6	1.2	-1	-5	-8	-1.1	-8	1.5	.4	6.2	-8.5	1.9
1982	-2.0	2.1	-5	-6	-6	-3	-6	-5	-7	-9	-3	-9	-6.8	-3.1	-6.0	-8.0	-4.4
1983	1.9	.0	.8	1.2	1.1	.6	1.8	1.4	1.7	.8	.2	.5	5.7	11.1	17.8	11.2	3.7
1984	2.0	-1	1.0	.6	.7	.5	.4	.1	-1	-7	.0	-6	11.2	7.7	4.0	-3.4	9.3
1985	.4	.7	.3	.4	.2	-3	-3	.5	.5	-8	.4	1.0	2.4	3.8	.1	1.2	1.7
1986	.5	-7	-9	.2	.0	-5	.5	.2	.1	.7	.7	.6	2.4	-3.4	1.3	5.8	.9
1987	-3	1.4	.4	.5	.6	.9	.4	.3	-2	1.3	.1	.7	5.5	8.1	5.2	6.5	4.9
1988	.3	.2	.0	.8	-3	.0	.6	.6	-5	.3	.6	.6	3.8	3.0	2.9	3.0	4.4
1989	.3	-5	.9	.0	-3	-3	-1.0	.5	-4	-4	.4	.7	3.9	.3	-4.4	-2	1.5
1990	-5	.5	.3	-7	.7	.2	-2	.3	.0	-5	-1.3	-4	2.1	1.1	1.6	-5.2	.0
1991	-2	-1.1	-7	.1	.8	1.0	.2	.1	.7	-2	-1	-3	-7.2	.3	5.5	.3	-1.8
1992	-2	.8	.3	.7	.3	-6	.8	-2	-4	1.2	.9	.5	.8	4.7	.8	6.7	2.3
1993	.3	.5	.2	.3	-2	.2	.4	.2					5.5	2.3			
Industrial Production																	
1981	85.2	85.4	85.7	85.0	85.6	86.1	87.1	86.9	86.5	85.8	84.8	84.1	85.5	85.5	86.8	84.9	85.7
1982	82.4	84.2	83.7	83.2	82.7	82.4	82.0	81.6	81.0	80.3	80.0	79.3	83.4	82.8	81.5	79.8	81.9
1983	80.8	80.7	81.3	82.3	83.2	83.7	85.3	86.5	87.9	88.6	88.8	89.2	80.9	83.1	86.6	88.9	84.9
1984	91.0	90.9	91.9	92.4	93.0	93.5	93.9	94.0	93.9	93.2	93.3	92.8	91.3	93.0	93.9	93.1	92.8
1985	93.1	93.8	94.1	94.5	94.7	94.4	94.1	94.5	95.0	94.2	94.6	95.6	93.6	94.5	94.6	94.8	94.4
1986	96.1	95.5	94.6	94.8	94.7	94.3	94.8	94.9	95.0	95.6	96.3	96.8	95.4	94.6	94.9	96.2	95.3
1987	96.5	97.9	98.2	98.8	99.4	100.3	100.6	100.9	100.7	102.1	102.2	102.8	97.5	99.5	100.8	102.3	100.0
1988	103.2	103.4	103.4	104.3	104.0	104.0	104.6	105.2	104.7	105.0	105.6	106.3	103.3	104.1	104.8	105.6	104.4
1989	106.6	106.2	107.1	107.1	106.7	106.4	105.3	105.8	105.4	105.0	105.4	106.1	106.6	106.7	105.5	105.5	106.0
1990	105.5	106.1	106.4	105.7	106.5	106.7	106.5	106.8	106.8	106.3	105.0	104.5	106.0	106.3	106.7	105.3	106.0
1991	104.4	103.2	102.5	102.6	103.3	104.4	104.5	104.6	105.3	105.1	105.0	104.7	103.3	103.4	104.8	104.9	104.1
1992	104.5	105.3	105.6	106.3	106.7	106.0	106.8	106.6	106.2	107.5	108.4	108.9	105.1	106.3	106.5	108.3	106.5
1993	109.3	109.9	110.1	110.4	110.2	110.4	110.9	111.1					109.7	110.4			
Capacity																	
1981	104.3	104.6	104.9	105.2	105.5	105.8	106.1	106.4	106.7	107.0	107.3	107.6	104.6	105.5	106.4	107.3	106.0
1982	107.8	108.1	108.3	108.6	108.8	109.0	109.3	109.5	109.8	110.0	110.2	110.5	108.1	108.8	109.5	110.2	109.2
1983	110.7	110.9	111.1	111.3	111.6	111.8	112.0	112.2	112.4	112.6	112.8	113.1	110.9	111.6	112.2	112.8	111.9
1984	113.3	113.5	113.7	113.9	114.2	114.4	114.6	114.8	115.0	115.3	115.5	115.7	113.5	114.2	114.8	115.5	114.5
1985	116.0	116.2	116.5	116.8	117.1	117.3	117.6	117.9	118.2	118.4	118.7	119.0	116.2	117.1	117.9	118.7	117.5
1986	119.2	119.4	119.6	119.8	120.0	120.2	120.4	120.6	120.8	121.0	121.2	121.4	119.4	120.0	120.6	121.2	120.3
1987	121.6	121.8	122.0	122.2	122.4	122.6	122.8	123.0	123.2	123.4	123.6	123.8	121.8	122.4	123.0	123.6	122.7
1988	124.0	124.1	124.3	124.4	124.6	124.7	124.9	125.0	125.2	125.3	125.5	125.6	124.1	124.6	125.0	125.5	124.8
1989	125.8	126.0	126.2	126.4	126.6	126.8	127.0	127.2	127.4	127.6	127.8	128.0	126.0	126.6	127.2	127.8	126.9
1990	128.2	128.4	128.6	128.8	129.0	129.2	129.4	129.6	129.8	129.9	130.1	130.3	128.4	129.0	129.6	130.1	129.3
1991	130.5	130.7	130.8	131.0	131.2	131.4	131.5	131.7	131.9	132.0	132.2	132.4	130.7	131.2	131.7	132.2	131.4
1992	132.5	132.7	132.9	133.1	133.2	133.4	133.6	133.7	133.9	134.1	134.2	134.4	132.7	133.2	133.7	134.2	133.5
1993	134.6	134.8	134.9	135.1	135.3	135.5	135.7	135.9					134.8	135.3			
Utilization																	
1981	81.6	81.7	81.7	80.7	81.1	81.3	82.1	81.7	81.1	80.2	79.1	78.2	81.7	81.1	81.6	79.2	80.9
1982	76.4	77.9	77.3	76.7	76.0	75.6	75.0	74.5	73.8	73.0	72.6	71.8	77.2	76.1	74.4	72.4	75.0
1983	73.0	72.8	73.2	73.9	74.6	74.9	76.1	77.1	78.2	78.7	78.7	78.9	73.0	74.5	77.2	78.8	75.8
1984	80.4	80.1	80.8	81.1	81.5	81.8	81.9	81.8	81.6	80.9	80.8	80.2	80.4	81.4	81.8	80.6	81.1
1985	80.3	80.7	80.7	80.9	80.9	80.5	80.0	80.2	80.4	79.6	79.7	80.4	80.6	80.7	80.2	79.9	80.3
1986	80.6	79.9	79.1	79.1	78.9	78.4	78.7	78.7	78.7	79.1	79.4	79.8	79.9	78.8	78.7	79.4	79.2
1987	79.3	80.3	80.5	80.8	81.2	81.8	81.9	82.0	81.8	82.7	82.7	83.1	80.1	81.3	81.9	82.8	81.5
1988	83.2	83.3	83.2	83.8	83.5	83.4	83.8	84.2	83.6	83.8	84.2	84.6	83.2	83.6	83.9	84.2	83.7
1989	84.8	84.3	84.8	84.7	84.3	83.9	82.9	83.2	82.7	82.3	82.4	82.8	84.6	84.3	82.9	82.5	83.6
1990	82.3	82.6	82.8	82.1	82.5	82.6	82.3	82.4	82.3	81.8	80.7	80.2	82.6	82.4	82.4	80.9	82.1
1991	80.0	78.9	78.3	78.3	78.8	79.5	79.5	79.4	79.9	79.6	79.4	79.1	79.1	78.8	79.6	79.4	79.2
1992	78.8	79.3	79.5	79.9	80.1	79.5	80.0	79.7	79.3	80.2	80.8	81.0	79.2	79.8	79.7	80.7	79.8
1993	81.2	81.5	81.6	81.7	81.5	81.5	81.8	81.8					81.4	81.6			

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.	Sep.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
Industrial Production, Percent Change¹																	
1981	-5	.6	.2	-1	.7	-2	.8	-6	-5	-1.1	-1.0	-1.4	2.9	2.2	1.4	-10.6	1.9
1982	-1.6	2.9	-7	-1.0	-2	.0	-6	-6	-6	-9	-4	-5	-4.9	-2.8	-4.8	-7.5	-4.6
1983	2.2	.4	1.4	1.0	1.4	.8	1.5	1.3	2.2	.8	.5	.1	10.4	13.8	17.5	12.5	5.6
1984	2.3	.6	.9	.4	.5	.6	.4	.2	-1	.0	.0	-4	13.3	6.9	4.7	-3	10.4
1985	.1	.6	.7	.3	.6	-5	-2	.8	.2	-7	1.3	.1	1.7	5.1	1.0	2.4	2.6
1986	1.3	-.4	-1.0	.9	.0	-.3	.6	.5	.3	.7	.5	1.0	4.6	.1	3.5	7.2	2.9
1987	-.6	1.7	.5	.4	.7	.9	.4	.0	.2	1.0	.4	.6	6.3	8.6	5.6	6.8	6.0
1988	.2	.1	.2	.7	-.1	.0	.5	.4	.0	.1	.9	.6	3.6	3.3	3.0	4.4	4.7
1989	.8	-.9	.6	.2	-.5	-.2	-1.2	.4	-.4	-.5	.3	.2	4.3	-.3	-5.3	-1.3	1.6
1990	-.1	.9	.4	-.9	.5	.0	-.3	.5	-.1	-.6	-1.2	-.5	3.7	.2	1.0	-5.5	-.3
1991	-.6	-1.1	-1.0	.7	.4	1.1	.2	.3	1.0	-.2	-.2	-.1	-9.1	.9	6.3	1.2	-2.2
1992	-.2	.9	.6	.4	.5	-.5	.5	-.1	-.2	1.1	.8	.3	2.0	5.3	1.1	6.5	3.1
1993	.7	.5	.3	.6	-.1	.0	.2	.3					6.4	3.4			
Industrial Production																	
1981	80.0	80.5	80.6	80.5	81.0	80.9	81.5	81.1	80.6	79.7	78.9	77.9	80.4	80.8	81.1	78.8	80.3
1982	76.6	78.8	78.2	77.4	77.3	77.2	76.8	76.4	75.9	75.2	74.9	74.5	77.9	77.3	76.4	74.9	76.6
1983	76.2	76.5	77.6	78.3	79.4	80.0	81.2	82.3	84.1	84.7	85.1	85.2	76.8	79.3	82.5	85.0	80.9
1984	87.1	87.6	88.3	88.7	89.1	89.7	90.1	90.3	90.2	90.2	90.2	89.8	87.7	89.2	90.2	90.1	89.3
1985	89.9	90.4	91.1	91.4	92.0	91.5	91.3	92.0	92.3	91.6	92.8	92.8	90.5	91.6	91.9	92.4	91.6
1986	94.0	93.6	92.7	93.5	93.6	93.3	93.9	94.4	94.6	95.3	95.8	96.7	93.5	93.5	94.3	95.9	94.3
1987	96.2	97.8	98.3	98.7	99.4	100.3	100.7	100.7	100.9	102.0	102.4	103.0	97.4	99.4	100.8	102.5	100.0
1988	103.2	103.4	103.6	104.3	104.2	104.2	104.7	105.1	105.2	105.3	106.2	106.8	103.4	104.2	105.0	106.1	104.7
1989	107.7	106.7	107.3	107.6	107.1	106.8	105.5	106.0	105.6	105.1	105.4	105.6	107.2	107.2	105.7	105.4	106.4
1990	105.5	106.5	107.0	106.0	106.6	106.6	106.3	106.9	106.8	106.2	104.9	104.4	106.3	106.4	106.6	105.1	106.1
1991	103.8	102.6	101.6	102.2	102.7	103.8	104.0	104.3	105.2	105.0	104.8	104.6	102.7	102.9	104.5	104.8	103.7
1992	104.5	105.4	106.1	106.5	107.1	106.5	107.1	107.0	106.8	108.0	108.9	109.2	105.3	106.7	107.0	108.7	106.9
1993	109.9	110.5	110.8	111.4	111.3	111.3	111.5	111.9					110.4	111.3			
Capacity																	
1981	100.2	100.5	100.9	101.2	101.5	101.8	102.1	102.4	102.7	103.0	103.3	103.7	100.5	101.5	102.4	103.3	101.9
1982	103.9	104.2	104.4	104.6	104.9	105.1	105.3	105.6	105.8	106.0	106.3	106.5	104.2	104.9	105.6	106.3	105.2
1983	106.7	106.9	107.2	107.4	107.6	107.8	108.0	108.3	108.5	108.7	108.9	109.1	106.9	107.6	108.3	108.9	107.9
1984	109.4	109.7	110.0	110.3	110.6	110.9	111.2	111.5	111.8	112.1	112.4	112.7	109.7	110.6	111.5	112.4	111.1
1985	113.1	113.4	113.8	114.2	114.6	115.0	115.3	115.7	116.1	116.5	116.9	117.2	113.4	114.6	115.7	116.9	115.2
1986	117.6	117.9	118.2	118.5	118.8	119.1	119.3	119.6	119.9	120.2	120.5	120.8	117.9	118.8	119.6	120.5	119.2
1987	121.2	121.5	121.7	121.9	122.2	122.4	122.7	122.9	123.2	123.4	123.7	123.9	121.5	122.2	122.9	123.7	122.6
1988	124.2	124.4	124.6	124.8	125.0	125.2	125.4	125.6	125.8	126.0	126.2	126.4	124.4	125.0	125.6	126.2	125.3
1989	126.6	126.9	127.1	127.4	127.6	127.9	128.1	128.4	128.6	128.9	129.1	129.4	126.9	127.6	128.4	129.1	128.0
1990	129.6	129.8	130.0	130.3	130.5	130.7	130.9	131.2	131.4	131.6	131.8	132.0	129.8	130.5	131.2	131.8	130.8
1991	132.2	132.4	132.6	132.8	133.0	133.2	133.4	133.6	133.8	134.0	134.2	134.4	132.4	133.0	133.6	134.2	133.3
1992	134.6	134.8	135.0	135.2	135.4	135.6	135.8	136.0	136.2	136.4	136.6	136.8	134.8	135.4	136.0	136.6	135.7
1993	137.0	137.2	137.4	137.6	137.8	138.0	138.3	138.5					137.2	137.8			
Utilization																	
1981	79.8	80.0	79.9	79.6	79.8	79.5	79.9	79.1	78.5	77.4	76.4	75.1	79.9	79.6	79.2	76.3	78.8
1982	73.7	75.6	74.9	74.0	73.7	73.5	72.9	72.3	71.7	70.9	70.5	70.0	74.7	73.7	72.3	70.5	72.8
1983	71.4	71.5	72.4	73.0	73.8	74.2	75.2	76.0	77.5	77.9	78.1	78.0	71.8	73.7	76.2	78.0	74.9
1984	79.6	79.9	80.3	80.4	80.6	80.9	81.0	80.9	80.7	80.5	80.3	79.7	79.9	80.6	80.9	80.2	80.4
1985	79.5	79.7	80.0	80.0	80.3	79.6	79.2	79.5	79.5	78.6	79.4	79.2	79.8	80.0	79.4	79.1	79.5
1986	80.0	79.4	78.5	79.0	78.8	78.4	78.7	78.9	78.9	79.3	79.5	80.0	79.3	78.7	78.8	79.6	79.1
1987	79.3	80.5	80.7	81.0	81.3	81.9	82.1	81.9	81.9	82.6	82.8	83.1	80.2	81.4	82.0	82.8	81.6
1988	83.1	83.1	83.1	83.7	83.4	83.2	83.5	83.7	83.6	83.6	84.2	84.5	83.1	83.4	83.6	84.1	83.6
1989	85.1	84.1	84.5	84.6	83.9	83.5	82.4	82.6	82.1	81.5	81.6	81.6	84.5	84.0	82.4	81.6	83.1
1990	81.4	82.0	82.3	81.4	81.6	81.5	81.2	81.5	81.3	80.7	79.6	79.0	81.9	81.5	81.3	79.8	81.1
1991	78.5	77.5	76.6	77.0	77.2	77.9	77.9	78.0	78.6	78.4	78.0	77.9	77.5	77.4	78.2	78.1	77.8
1992	77.6	78.2	78.6	78.8	79.1	78.6	78.9	78.7	78.4	79.2	79.7	79.8	78.1	78.8	78.7	79.6	78.8
1993	80.3	80.5	80.6	80.9	80.7	80.6	80.7	80.8					80.5	80.8			

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	Proportion in total IP		Index, 1987 = 100											
				Seasonally adjusted						Not seasonally adjusted					
		1987	1992	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Metal mining	10	.33	.51	163.0	158.2	162.5	169.3	163.2	165.5	166.9	160.3	165.2	172.1	168.1	164.6
Iron ore	101	.06	.06	123.9	130.1	123.5	134.7	135.9	145.6	124.4	122.1	129.8	144.5	148.7	151.2
Nonferrous ores	102-4,8,9	.28	.44	170.8	164.3	170.5	176.3	168.4	169.7	175.4	168.0	172.3	177.7	172.0	167.3
Copper	102	.09	.12	144.2	136.0	143.5	145.3	141.5		141.2	136.6	143.3	149.8	144.8	
Coal mining	12	1.23	1.22	101.7	102.3	108.2	106.4	103.7	101.0	107.1	104.7	105.3	100.4	102.7	93.5
Oil and gas extraction	13	5.79	5.03	90.9	90.4	90.5	91.6	93.1	92.9	93.0	90.7	90.2	89.9	90.8	90.5
Crude oil and natural gas	131	4.91	4.31	91.1	91.1	91.3	92.5	93.2	93.2	93.9	92.1	91.4	91.0	91.3	90.5
Crude oil, total		3.12	2.51	81.8	82.4	81.5	81.9	81.2	80.7	83.1	83.4	82.3	81.5	80.6	79.9
Natural gas		1.80	1.80	107.4	106.1	108.3	110.9	114.0	115.0	112.7	107.2	107.2	107.5	109.8	109.0
Natural gas liquids	132	.29	.30	112.0	115.1	115.4	110.7	113.3	111.3	113.5	116.0	115.7	111.1	112.5	109.9
Oil and gas well drilling	138	.58	.43	77.9	71.1	72.4	75.1	82.4	81.0	75.1	67.0	66.8	69.2	76.1	80.9
Stone and earth minerals	14	.67	.59	95.2	93.4	92.3	94.0	91.7	93.3	81.8	86.1	91.7	97.9	98.5	100.0
Foods	20	8.80	8.76	106.9	106.7	106.7	106.7	107.2	107.1	101.9	102.1	102.2	104.3	109.4	108.5
Meat products	201	1.00	1.07	114.7	113.4	116.5	114.6	120.3	116.0	112.2	112.2	114.5	112.8	121.0	111.6
Beef		.40	.36	97.0	95.1	96.4	97.2	99.4	98.6	93.5	91.2	91.1	96.9	104.8	99.3
Pork		.28	.32	116.7	115.3	121.2	119.0	124.8	123.0	117.6	118.8	122.4	111.7	115.1	107.3
Poultry		.31	.38	137.5	136.8	139.9	134.6	144.6	133.8	133.2	134.5	139.0	136.0	149.4	133.5
Miscellaneous meats		.02	.01	79.6	84.8	85.5	84.2	92.5	85.5	82.8	91.8	85.8	79.2	87.4	77.5
Dairy products	202	.86	.82	101.1	98.6	101.0	102.6	102.7	103.7	102.6	102.7	108.3	110.8	110.9	105.4
Butter	2021	.01	.01	125.9	118.3	110.3	112.3	115.3	112.4	154.3	135.7	126.0	119.2	105.1	86.3
Cheese	2022	.19	.21	118.9	116.2	120.4	119.8	120.3	121.1	118.7	118.7	124.6	124.1	125.1	118.0
Concentrated milk	2023	.17	.15	95.4	87.9	90.0	96.4	94.7	98.5	103.3	95.0	106.5	112.9	106.7	98.0
Frozen desserts	2024	.09	.10	110.4	112.9	120.0	121.5	119.9	120.1	100.1	118.3	128.4	137.7	152.5	147.6
Milk and misc. dairy products	2026	.39	.34	92.3	91.1	91.8	92.4	93.4	93.5	93.8	94.0	96.0	97.0	96.4	93.2
Canned and frozen food	203	1.25	1.37	118.8	122.9	121.1	119.2	122.4	120.1	107.1	109.9	108.6	110.7	118.7	122.4
Grain mill products	204	1.11	1.10	105.8	106.7	106.4	104.2	103.8	105.1	102.9	103.0	101.7	102.7	105.4	103.3
Bakery products	205	1.10	.93	88.9	91.7	92.2	91.6	91.1	92.9	81.5	84.8	86.1	89.1	95.4	100.2
Sugar and confectionery	206	.62	.63	107.6	106.4	103.8	101.8	103.2	103.3	103.9	97.2	89.9	88.6	93.0	91.3
Fats and oils	207	.23	.26	123.4	121.5	120.3	121.3	123.7	121.0	123.9	125.3	118.9	117.9	122.2	113.5
Beverages	208	1.64	1.62	105.3	103.7	104.0	107.0	106.0	104.9	97.7	100.3	103.8	107.9	115.1	112.3
Beer and ale	2082,3	.54	.56	114.8	107.7	109.1	122.4			114.7	111.5	116.5	128.9		
Soft drinks	2086,7	.86	.84	101.4	101.8	101.9	99.8	102.8	104.1	89.6	92.9	96.8	97.8	110.1	115.3
Coffee and miscellaneous	209	.99	.97	108.8	106.1	102.7	103.9	101.0	107.0	106.1	100.1	96.4	101.1	101.9	108.7
Roasted coffee	2095	.19	.16	95.6	89.5	86.9	100.4	83.9	107.4	105.1	78.6	76.0	89.6	74.8	83.3
Tobacco products	21	1.03	.96	99.3	92.4	90.2	92.1	92.1	90.3	102.7	95.9	86.2	88.3	99.8	75.2
Textile mill products	22	1.85	1.82	106.2	105.4	104.2	106.9	106.9	107.5	104.9	105.3	106.2	109.6	111.5	103.9
Fabrics	221-4	.53	.52	105.8	109.4	104.6	103.7	108.0	107.1	106.9	111.0	108.3	107.7	109.5	98.6
Cotton and synthetic	221,2	.45	.45	105.5	109.9	104.9	104.2	109.5	108.2	106.6	111.1	108.2	107.9	110.4	98.7
Narrow fabrics	224	.04	.04	103.8	102.3	102.2	103.0	102.5	104.1	103.2	102.2	102.3	102.2	103.8	97.9
Knit goods	225	.45	.48	114.9	114.1	113.3	113.2	113.3	113.8	108.1	108.9	113.2	114.8	124.7	115.5
Knit garments	2253,4,7-9	.33	.35	116.0	116.0	114.8	114.6	114.8	115.6	106.7	108.2	110.1	117.2	127.8	119.2
Fabric finishing	226	.17	.15	94.3	93.9	91.6	93.0	93.2	96.2	96.9	95.4	93.2	96.9	95.8	85.5
Carpeting	227	.22	.20	104.0	93.7	94.6	108.8	105.4	107.2	99.8	94.2	100.3	108.5	108.7	111.6
Yarns and miscellaneous	228,9	.48	.47	103.8	102.0	104.5	108.8	105.4	106.5	104.9	104.2	104.6	111.6	108.0	101.7
Cotton and synthetic yarns	2281,2,4	.28	.26	98.8	96.4	99.1	106.1	101.2	102.0	102.2	101.1	100.2	111.3	104.2	96.2
Apparel products	23	2.33	2.02	92.5	92.1	92.0	91.2	90.9	91.0	90.7	90.7	88.9	90.5	93.0	89.7
Lumber and products	24	2.07	1.87	101.8	98.0	98.1	97.4	96.0	97.7	98.7	97.7	98.0	98.0	100.4	97.3
Logging and lumber	241,2	.85	.74	94.3	88.1	89.9	90.5	88.3	89.9	93.9	89.6	88.2	89.5	92.6	89.0
Logging	241	.29	.21	79.1	75.9	73.8	73.1	72.4	74.1	73.4	69.2	65.3	70.9	75.8	79.4
Lumber products	243-5,9	1.22	1.14	106.6	105.1	103.7	101.9	101.2	103.3	102.0	103.4	104.8	103.8	105.8	103.0
Millwork and plywood	243	.72	.60	94.8	93.4	91.1	90.4	89.8	91.5	89.5	90.3	89.9	91.5	93.1	93.8
Plywood	2435,6	.20	.16	88.5	89.0	86.6	85.2	85.8	85.8	88.0	88.6	86.3	86.4	86.6	83.9
Manufactured homes	245	.18	.17	127.1	116.2	114.9	112.1	113.6	118.5	114.1	114.5	122.2	121.2	129.4	114.2

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

Item	SIC	Proportion in total IP		Index, 1987 = 100											
				Seasonally adjusted						Not seasonally adjusted					
		1987	1992	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Furniture and fixtures	25	1.47	1.36	106.0	107.3	108.8	108.4	108.9	109.8	106.1	104.8	107.0	106.3	110.7	105.4
Household furniture	251	.69	.65	107.5	108.0	110.0	108.9	109.1	110.1	108.5	108.4	109.7	109.3	112.4	100.3
Paper and products	26	3.65	3.71	110.4	111.1	113.1	112.1	114.2	113.3	112.2	111.9	113.5	109.3	114.8	111.3
Pulp and paper	261-3	1.68	1.73	111.5	112.2	114.1	113.2	115.1	113.9	113.6	112.8	113.6	110.0	115.5	112.3
Wood pulp	261	.16	.17	108.0	107.4					110.4	106.9				
Paper	262	1.01	1.04	110.9	112.3	115.2	113.4	116.0	114.0	112.9	112.8	114.7	110.0	116.0	111.4
Paperboard	263	.50	.52	114.0	113.4	113.5	114.5	115.8	116.0	116.1	114.7	112.4	112.4	117.2	115.1
Paper products	265,7	1.97	1.98	109.6	110.5	112.4	111.1	113.4	112.8	111.0	111.0	113.4	108.7	114.1	110.4
Paperboard containers	265	.71	.74	116.6	116.3	116.8	116.5	115.0	116.6	115.3	115.3	121.9	114.6	117.6	116.5
Converted paper products	267	1.26	1.23	105.7	107.2	110.0	108.1	112.5	110.6	108.5	108.6	108.7	105.5	112.2	106.9
Printing and publishing	27	6.51	5.81	94.0	94.7	95.6	94.7	94.9	94.5	89.7	91.3	93.0	93.0	96.5	96.9
Newspapers	271	1.76	1.36	80.3	81.9	82.1	81.1	81.5	81.1	78.3	80.4	82.5	81.7	81.8	75.6
Periodicals, books, and cards	272,3,7	1.79	1.67	100.2	99.8	100.3	99.5	100.7	99.3	99.8	101.5	101.1	98.9	99.2	98.6
Job printing	274-6,8,9	2.97	2.78	98.7	99.5	101.0	99.9	99.0	99.4	90.4	91.6	94.3	96.2	103.6	108.5
Chemicals and products	28	8.76	9.46	116.2	117.6	117.8	118.1	119.1	118.7	113.3	114.3	116.9	117.2	123.0	123.1
Industrial chemicals and synthetic materials	281,2,6	3.66	3.97	116.9	117.8	118.0	119.3	120.9	119.7	118.1	117.8	120.2	118.5	122.0	119.2
Basic chemicals	281	.81	.98	125.4	125.4	127.0	127.6	128.4	124.7	131.4	125.9	128.2	126.9	130.8	123.1
Alkalies and chlorine	2812	.05	.05	107.9	105.8	112.1	108.3	106.9	106.3	108.8	107.4	110.2	105.5	107.7	109.7
Inorganic pigments	2816	.10	.11	121.5	128.5	114.8	106.8	116.9	108.3	125.7	131.3	116.5	110.3	119.4	108.2
Inorganic chemicals, nec	2819	.54	.69	126.5	125.2	129.1	131.5	131.0	127.2	134.0	125.0	130.3	129.9	134.0	124.7
Acids and other		.33	.41	123.0	121.5	128.1	131.8	132.5		136.4	119.4	129.5	126.8	136.6	
Synthetic materials	282	1.29	1.33	113.6	115.4	114.5	114.1	116.2	115.3	114.7	115.7	117.8	113.1	117.5	114.4
Plastics materials	2821	.79	.80	110.5	113.5	114.2	111.8	113.4		111.5	114.9	116.3	111.5	114.1	
Synthetic fibers	2823,4	.41	.43	115.1	115.1	111.9	114.2	117.6	113.6	115.8	111.7	116.6	112.8	121.2	114.1
Industrial organic chemicals	286	1.56	1.66	115.2	115.8	116.2	119.2	120.8	120.6	114.0	115.2	118.1	118.7	121.1	121.2
Chemical products	283-5,9	4.65	4.95	115.0	116.7	116.5	115.9	116.3	116.9	108.1	110.2	112.5	114.8	123.2	125.8
Drugs and medicines	283	2.04	2.47	133.8	137.3	137.7	136.8	135.5	137.0	123.0	125.4	130.5	134.9	145.1	149.3
Soap and toiletries	284	1.57	1.54	105.2	106.3	104.2	104.1	106.7	105.9	100.7	102.4	100.1	101.5	110.4	113.8
Paints	285	.45	.40	91.5	91.0	91.8	92.4	92.1	91.1	88.3	91.7	98.9	100.6	105.9	98.2
Agricultural chemicals	287	.46	.53	126.4	127.9	130.2	129.2	129.3	129.6	127.3	127.9	134.6	130.4	129.1	126.6
Petroleum products	29	1.34	1.28	104.7	104.7	104.3	103.6	103.7	102.6	96.9	97.8	100.8	104.6	108.7	109.1
Petroleum refining and misc.	291,9	1.13	1.10	107.0	107.2	106.9	105.7	105.4	104.3	100.7	101.5	104.0	106.3	109.8	110.1
Miscellaneous petroleum products		.23	.22	104.5	109.6	106.4	101.7	102.0	101.6	90.3	101.8	104.9	108.0	117.1	118.8
Distillate fuel oil		.20	.21	110.2	114.3	112.3	108.5	112.7	112.9	103.1	107.0	110.3	107.4	113.4	115.2
Residual fuel oil		.05	.05	89.9	89.3	104.4	104.8	90.8	89.3	95.0	92.5	100.2	101.2	90.0	84.2
Aviation fuel and kerosene		.11	.10	103.8	110.5	109.7	107.3	116.2	107.5	105.4	106.1	99.0	102.1	110.9	108.5
Automotive gasoline		.54	.53	109.0	104.6	104.8	106.0	103.4	103.0	103.9	99.2	102.6	106.5	107.1	107.3
Paving and roofing materials	295	.21	.18	93.6	92.2	90.8	94.2	94.8	93.5	76.3	77.9	83.3	95.5	102.8	103.5
Rubber and plastics products	30	3.21	3.31	112.7	112.9	113.6	113.8	112.4	113.0	112.3	112.6	112.7	113.8	115.2	109.1
Tires	301	.40	.45	125.9	125.0	127.7	132.4	125.2	127.7	136.9	133.8	130.0	132.5	127.0	107.1
Other rubber products	302,5,6	.56	.54	102.8	104.4	104.0	104.1	103.5	104.4	102.4	103.0	102.8	103.2	107.7	103.1
Plastics products, nec	308	2.25	2.31	113.1	113.0	113.8	112.7	112.4	112.4	110.4	111.3	112.0	113.1	115.0	110.9
Leather and products	31	.32	.28	99.0	99.1	100.1	98.2	96.9	98.0	96.7	96.8	96.1	97.6	100.3	94.0
Shoes	314	.16	.13	95.1	94.0	97.9	94.3	91.4	92.2	92.0	90.4	91.2	94.2	95.4	91.1
Stone, clay, and glass products	32	2.41	2.17	98.9	98.6	99.8	99.6	99.9	100.9	94.7	96.0	99.7	100.9	103.0	102.1
Pressed and blown glass	322	.37	.35	101.9	103.4	108.3	101.3	104.5	105.5	102.9	105.4	110.5	105.5	107.7	108.6
Glass containers	3221	.20	.18	93.5	95.2	103.7	91.1	94.8	97.1	97.2	99.6	108.8	96.0	100.4	101.0
Cement	324	.17	.14	87.2	88.1	90.7	90.0	88.7	97.5	62.4	73.4	91.3	98.8	107.1	112.1
Structural clay products	325	.13	.11	97.4	98.4	103.2	105.9	106.4	104.9	94.3	96.3	101.8	106.3	109.2	98.8
Concrete and miscellaneous	326-9	1.43	1.25	95.8	95.0	95.7	97.8	97.8	98.1	92.9	92.8	95.6	97.5	99.0	98.4

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

Item	SIC	Proportion in total IP		Index, 1987 = 100											
		1987	1992	Seasonally adjusted							Not seasonally adjusted				
				1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Primary metals	33	3.33	3.16	108.0	104.2	104.4	104.2	105.6	105.6	109.1	106.2	106.4	104.8	107.3	103.1
Iron and steel	331,2	1.93	1.90	112.9	107.6	108.4	108.1	110.9	111.9	114.1	109.8	110.8	108.9	112.6	110.0
Basic steel and mill products	331	1.48	1.49	117.1	109.8	111.8	111.7	115.3	116.6	118.5	112.1	114.5	112.6	116.5	115.1
Basic iron and steel		.35	.34	106.9	102.5	103.2	106.0	106.0	106.4	107.5	104.8	104.9	106.2	105.5	105.3
Pig iron		.20	.20	112.9	106.9	107.6	111.1	110.1	110.0	112.5	108.5	109.0	111.0	109.5	110.2
Raw steel		.10	.10	105.9	102.0	102.6	105.1	106.8	108.2	108.4	106.2	106.2	107.1	107.2	104.6
Steel mill products		1.13	1.15	120.2	112.1	114.5	113.5	118.2	119.8	122.0	114.4	117.4	114.5	119.9	118.1
Consumer durable steel		.19	.18	115.4	108.8	110.3	105.9	112.2	103.2	117.9	112.5	113.8	113.3	115.7	90.2
Equipment steel		.14	.12	98.7	96.0	96.6	95.0	103.5	106.8	107.2	98.8	103.5	96.8	102.3	100.1
Construction steel		.12	.12	121.0	111.3	118.9	119.9	126.0	126.8	120.1	108.3	118.9	121.6	127.7	130.2
Can and closure steel		.06	.05	116.1	99.1	97.2	92.0	97.7	111.9	101.7	97.6	98.6	98.4	106.3	117.6
Miscellaneous steel		.62	.68	126.9	118.2	120.6	120.9	123.8	127.2	128.8	121.4	123.3	119.1	124.9	128.6
Iron and steel foundries	332	.45	.41	99.5	100.0	97.0	95.8	95.8	96.7	99.4	102.1	98.8	96.9	100.0	93.2
Nonferrous metals	333-6,9	1.40	1.27	101.4	99.4	98.9	98.9	98.4	97.0	102.4	101.2	100.3	99.1	99.9	93.6
Primary nonferrous metals	333	.22	.24	117.1	116.8	118.3	118.2	121.0	108.5	119.6	120.1	118.6	117.6	118.3	106.2
Copper	3331	.03	.03	121.9	122.2	126.9	118.0	125.8	114.1	124.1	125.5	123.2	114.9	122.7	109.1
Aluminum	3334	.14	.16	113.3	112.9	113.9	114.0	114.2	111.7	113.8	113.7	113.9	114.4	114.4	111.1
Nonferrous products	335.6	.99	.82	95.6	93.4	91.7	91.6	91.2	92.1	96.1	95.0	93.0	92.3	93.1	88.9
Nonferrous mill products	335	.75	.61	96.1	93.0	91.2	91.3	90.9	92.6	97.0	95.2	93.3	92.1	93.1	89.3
Aluminum	3353-5	.24	.22	112.9	100.3	100.5	102.6	92.8	103.5	114.7	106.3	107.2	104.6	96.9	102.8
Nonferrous foundries	336	.25	.21	93.9	94.6	93.1	92.5	91.9	90.5	93.1	94.3	92.2	92.8	93.3	87.8
Fabricated metal products	34	5.42	4.92	99.7	100.3	101.4	100.6	100.2	101.0	98.1	99.4	99.3	100.6	103.2	100.6
Metal containers	341	.30	.31	107.4	104.0	106.3	113.1	107.0	108.0	100.6	102.4	108.9	124.8	126.8	118.1
Metal cans	3411	.28	.28	107.1	103.3	106.3	114.1	107.4		99.8	101.5	108.8	126.5	128.7	
Hardware, tools, and cutlery	342	.58	.50	93.3	94.1	94.2	94.1	94.3	94.8	93.5	92.7	92.1	92.2	96.5	94.5
Hardware and tools	3423,5,9	.52	.45	92.1	92.9	93.0	92.8	92.8	93.3	92.3	91.3	91.1	90.9	95.5	93.7
Structural metal products	344	1.35	1.19	96.0	96.3	97.0	95.8	96.7	97.4	91.6	92.5	93.0	95.1	97.9	98.3
Other fabricated metal products	345-9	2.98	2.73	102.1	103.3	104.5	103.2	102.8	103.8	101.8	103.9	102.9	102.7	104.9	101.3
Fasteners, stampings, etc.	345-7	1.63	1.50	104.6	107.3	109.4	108.0	107.0	107.4	104.3	108.2	107.2	107.4	110.6	105.9
Industrial and commercial machinery and computer equip.	35	8.54	10.01	136.7	139.6	142.8	144.2	145.1	148.3	135.6	138.1	138.0	142.2	150.2	151.2
Engines and turbines	351	.51	.51	109.8	111.7	115.8	112.3	112.6	116.4	111.4	111.4	111.9	111.5	111.1	114.0
Farm	352	.41	.46	127.4	129.1	135.7	132.6	137.9	137.8	135.2	137.3	137.5	137.0	136.9	124.8
Construction and allied	353	.82	.78	109.8	109.9	111.5	111.4	110.3	113.7	109.1	109.0	109.2	111.2	112.7	113.8
Metalworking	354	1.00	1.02	113.2	115.9	118.5	118.3	117.8	118.8	112.9	114.9	113.9	114.9	121.0	122.5
Special industry machinery	355	.70	.70	111.3	111.7	111.9	113.2	113.1	114.7	110.9	112.6	111.3	112.8	113.8	111.3
General industrial machinery	356	1.00	1.04	113.3	115.4	116.4	114.9	116.0	115.2	112.9	115.0	114.0	113.2	118.4	116.2
Bearings and gears	3562,6,8	.32	.29	102.0	101.1	101.6	100.0	98.5	98.7	102.4	101.4	100.0	99.6	98.9	95.4
Equipment	3561,3-5,7,9	.67	.75	118.7	122.3	123.5	122.0	124.4	123.1	117.9	121.5	120.6	119.8	127.7	126.1
Computer and office equip.	357	2.34	3.69	198.0	203.3	209.5	216.5	222.0	228.5	194.2	197.6	198.8	210.2	231.4	236.2
Service industry machines	358	.83	.79	109.2	112.9	112.2	113.4	108.1	109.8	107.2	113.1	111.5	118.3	118.7	118.0
Miscellaneous machinery	359	.95	1.02	120.6	122.9	125.6	124.5	124.0	125.0	118.4	120.8	120.7	121.7	127.9	131.1
Electrical machinery	36	6.92	7.79	127.1	128.5	129.0	129.7	129.5	130.8	126.3	128.4	127.0	128.5	130.9	127.5
Major electrical and parts	361,2	.97	.95	106.5	105.2	106.3	106.2	106.3	106.2	102.8	104.3	104.0	104.4	110.3	109.9
Electric distribution equip.	361	.33	.30	94.7	95.2	93.2	93.8	92.9	95.7	92.1	93.6	90.1	90.7	97.5	97.9
Household appliances	363	.54	.54	115.7	117.8	115.9	116.6	111.5	118.7	120.0	122.0	116.0	117.1	115.4	105.2
Cooking equipment	3631	.09	.08	107.5	97.3	112.1	106.1	96.8	100.5	104.7	103.5	108.8	102.2	88.4	80.8
Refrigerators and freezers	3632	.10	.11	113.0	123.3	114.9	119.9	105.4	111.9	123.1	131.8	125.5	133.3	125.9	113.6
Laundry	3633	.10	.10	119.5	121.6	114.5	112.6	112.8	135.3	128.7	131.2	116.5	120.5	120.4	94.1
Miscellaneous	3634,5,9	.24	.24	118.5	121.7	118.5	121.0	119.2	121.6	120.8	120.9	114.3	114.3	119.1	115.6
Electrical housewares	3634	.10	.10	112.4	115.2	112.9	114.1	112.5	114.8	102.3	106.4	106.2	111.9	114.0	110.5
Appliances, nec	3639	.09	.08	104.7	110.3	99.2	102.8	100.3	107.2	113.2	113.8	106.0	103.3	107.4	88.1
Audio and video equipment	365	.22	.26	134.1	152.7	155.1	143.3	139.4	139.6	137.3	158.2	132.9	140.8	140.3	110.6
Communication equipment	366	1.44	1.61	126.8	126.3	125.6	125.0	124.8	126.2	126.1	126.1	124.4	124.5	124.9	124.7
Electronic components	367	2.23	2.95	152.5	154.2	156.4	160.0	161.2	162.9	152.1	154.1	156.0	159.7	161.9	159.5
Misc. electrical supplies	369	.78	.82	116.6	117.5	116.7	116.7	116.2	114.8	113.3	114.6	112.0	112.7	115.4	110.6
Storage batteries	3691	.12	.10	95.5	105.6	97.6	92.8	86.0	91.3	79.9	90.3	78.0	78.3	84.7	85.4
Transportation equipment	37	9.90	9.54	107.8	106.9	106.9	105.5	103.3	101.5	108.7	110.3	107.1	109.5	109.0	89.4
Motor vehicles and parts	371	4.79	4.72	120.7	120.1	120.4	118.1	115.0	111.6	122.5	126.9	122.1	127.4	127.1	89.1
Autos		1.62	1.39	102.6	102.9	102.6	98.4	95.0	88.9	105.7	109.3	104.7	111.4	109.8	58.1
Trucks and truck trailers		1.22	1.40	150.1	147.1	148.9	146.2	138.4	133.4	155.2	165.5	152.0	161.6	162.3	91.2
Trucks and buses		1.13	1.32	152.1	148.9	150.9	147.8	139.7	133.6	157.6	168.1	154.1	163.8	164.9	89.4
Consumer trucks		.63	.75	156.9	153.1	155.9	150.9	142.3	138.6	162.1	173.6	158.6	167.4	168.8	91.3
Business vehicles		.51	.57	146.2	143.7	144.9	144.0	136.4	127.4	152.2	161.3	148.6	159.4	160.0	87.1
Motor vehicle parts	3714	1.91	1.89	118.2	118.5	118.0	117.7	117.7	117.4	116.6	118.1	117.8	120.0	120.4	113.9
Motor homes	3716	.05	.04	87.9	80.1	94.9	90.7	91.4	97.1	95.1	90.1	121.9	94.0	92.1	97.4
Aerospace and miscellaneous transportation equipment	372-6,9	5.11	4.82	95.8	94.6	94.2	93.7	92.3	92.0	95.7	94.8	93.1	92.8	91.9	89.7
Aircraft and parts	372	2.95	2.99	101.8	100.1	98.5	96.9	95.8	95.4	102.2	100.5	97.1	96.3	95.7	93.0
Ships and boats	373	.55	.49	92.7	91.5	92.2	91.9	90.7	91.2	91.5	92.1	92.3	91.6	89.9	89.1
Railroad and miscellaneous	374-6,9	1.61	1.34	85.9	85.5	87.1	88.2	86.4	86.1	85.2	85.3	86.0	86.8	85.6	83.9

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

Item	SIC	Proportion in total IP		Index, 1987 = 100											
				Seasonally adjusted						Not seasonally adjusted					
		1987	1992	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^r
Instruments	38	5.13	5.02	102.2	103.3	102.6	102.5	102.3	102.3	101.2	101.9	101.0	101.0	103.5	103.1
Scientific and medical	381-4	4.07	4.01	103.6	104.6	103.6	103.4	103.4	103.2	101.8	102.6	101.6	101.7	104.7	104.4
Medical instruments	384	1.06	1.34	136.8	141.9	139.4	142.8	144.2	145.0	130.2	134.8	134.5	138.3	149.3	153.9
Misc. manufactures	39	1.26	1.30	111.9	112.6	114.3	113.1	112.0	112.2	109.4	111.6	112.4	112.2	112.5	108.7
Consumer goods	391,3,4,6	.65	.66	112.4	112.2	113.5	111.4	110.4	109.6	109.6	111.3	111.6	110.7	110.1	103.4
Business supplies	395,9	.61	.63	111.3	113.1	115.2	114.5	113.6	115.0	109.1	111.9	113.3	113.7	115.1	114.4
Electric utilities	491,3pt	6.07	6.36	116.5	116.3	114.5	114.0	115.6	120.3	115.8	110.5	104.3	106.3	118.3	134.0
Generation		2.57	2.69	116.9	115.3	113.7	114.4	115.7	120.5	117.7	109.5	103.9	108.6	122.1	133.8
Fossil fuel		1.46	1.42	110.6	111.7	102.3	97.5	105.8		107.3	103.8	93.2	90.0	111.1	
Hydro and nuclear		1.11	1.26	125.2	120.1	128.8	136.7	128.8		131.4	117.2	118.0	133.1	136.7	
Sales		3.50	3.67	116.1	117.0	115.1	113.7	115.5	120.2	114.4	111.1	104.6	104.6	115.4	134.2
Residential		1.42	1.46	117.1	118.1	113.3	110.0	113.8		122.0	111.2	98.4	91.9	108.2	
Nonresidential		2.08	2.21	115.5	116.2	116.3	116.3	116.7	121.5	109.2	111.1	108.9	113.3	120.4	131.6
Commercial and other		1.16	1.23	116.0	117.0	115.6	115.7	116.4		109.1	109.7	105.7	110.3	120.4	
Industrial		.92	.98	114.8	115.2	117.2	117.0	117.1		109.3	112.9	113.0	117.1	120.3	
Gas utilities	492,3pt	1.64	1.74	121.4	123.3	113.9	104.9	112.2	112.6	179.1	161.0	120.5	82.8	72.9	72.4
Residential		.56	.57	120.4	123.1	113.8	102.0	108.3		223.3	186.2	126.3	66.5	45.3	
Commercial and other		.26	.27	123.5	129.2	118.6	109.2	114.9		204.6	179.6	128.0	78.5	62.2	
Gas transmission		.56	.60	122.8	123.6	113.3	105.0	113.4		154.9	147.2	116.7	90.3	86.9	

Table 7
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1987 dollars at annual rates, seasonally adjusted

Item	1987	1992	1992 Q1	Q2	Q3	Q4	1993 Q1	Q2 ^r	1993 Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Products, total	1707.0	1806.4	1777.1	1804.6	1803.1	1846.6	1875.1	1876.1	1880.3	1882.8	1872.6	1873.0	1875.1	1874.8
Final products	1314.6	1420.1	1393.6	1417.3	1416.7	1457.3	1482.2	1480.1	1484.3	1485.6	1477.9	1476.8	1476.0	1475.8
Consumer goods	866.6	913.0	901.2	913.8	908.6	932.1	945.2	938.5	946.1	943.6	936.1	935.8	934.2	931.0
Durable	226.1	234.2	225.8	236.5	232.8	243.1	256.3	253.7	256.1	258.2	254.9	248.1	246.8	245.0
Automotive products	114.9	113.0	106.3	114.5	111.8	120.6	129.1	125.2	128.0	129.1	125.8	120.7	117.5	116.5
Other durable goods	111.2	121.2	119.6	122.0	121.0	122.5	127.3	128.5	128.2	129.1	129.2	127.4	129.3	128.5
Nondurable	640.5	678.8	675.4	677.3	675.8	689.0	688.8	684.8	690.0	685.5	681.2	687.6	687.4	686.0
Equipment, total	448.0	507.1	492.4	503.5	508.1	525.2	537.0	541.6	538.2	541.9	541.8	541.0	541.8	544.9
Business and defense	430.5	492.0	478.2	489.3	493.4	507.9	520.2	525.8	522.8	526.5	526.2	524.6	525.2	527.5
Business	335.4	414.6	397.8	410.9	417.2	433.1	447.0	454.7	450.4	454.5	455.1	454.4	455.1	458.1
Defense and space	95.1	77.4	80.4	78.4	76.2	74.9	73.2	71.1	72.4	72.0	71.1	70.2	70.1	69.4
Intermediate products	392.5	386.4	383.5	387.3	386.4	389.2	393.0	396.1	396.0	397.3	394.7	396.3	399.1	398.9
Construction supplies	162.7	153.4	151.6	153.6	153.7	155.3	157.1	158.5	157.3	157.8	159.4	158.2	159.7	159.9
Business supplies	229.8	232.9	231.9	233.7	232.7	233.9	235.9	237.6	238.7	239.4	235.3	238.1	239.4	239.0
Commercial energy products	60.3	65.3	64.1	65.6	65.1	66.7	68.3	67.7	70.1	68.2	66.5	68.4	68.7	68.1

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
One Month Earlier												
1991	37.3	42.0	35.5	51.6	56.9	63.7	53.5	61.0	62.4	46.9	50.8	49.8
1992	42.0	58.2	61.0	57.5	54.3	42.5	56.7	47.3	46.1	61.0	64.9	51.6
1993	52.7	58.2	49.8	57.8	42.5	50.0	59.2					
Three Months Earlier												
1991	31.0	31.4	32.2	34.5	45.1	63.9	62.0	67.6	65.1	61.6	58.4	48.2
1992	49.0	54.9	63.1	67.6	65.3	50.0	52.7	44.5	44.1	47.3	63.7	63.3
1993	59.2	57.3	61.6	56.3	50.0	45.7	51.2					
Six Months Earlier												
1991	31.4	30.2	25.1	25.1	35.5	44.5	49.8	59.2	71.8	71.0	69.4	62.0
1992	55.3	59.6	60.0	64.7	64.3	61.6	66.5	56.7	50.0	52.4	59.8	59.0
1993	54.9	67.8	66.3	66.7	59.6	56.5	55.9					

Note—The diffusion indexes are calculated as the percentage of series that increased over the indicated span (one, three, or six months) plus one-half the percentage that were unchanged.

Table 9
ELECTRIC POWER USE: MANUFACTURING AND MINING

Item		1987 SIC	1987 Billion KWH	Index, 1987 = 100											
				Seasonally adjusted					Not seasonally adjusted						
				1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p	1993 Feb.	Mar.	Apr.	May ^r	June ^r	July ^p
Total			850.7	108.9	110.7	111.0	110.0	110.4	110.8	106.5	109.6	109.9	110.0	112.9	111.5
MAJOR INDUSTRY GROUPS															
Manufacturing			776.5	109.2	111.1	111.2	110.2	110.8	111.2	106.4	109.8	110.0	110.2	113.6	112.2
Durable			351.3	102.6	106.3	106.6	105.3	106.7	107.7	101.8	106.5	105.6	106.2	108.8	107.3
Nondurable			425.2	115.2	115.5	115.6	115.0	114.8	114.4	110.4	112.5	114.0	113.8	117.8	116.7
Mining			74.2	105.9	106.0	107.2	106.9	105.3	105.9	108.0	107.3	107.6	106.9	103.5	100.8
INDUSTRY GROUPS and SERIES															
Metal mining 10			14.6	127.8	124.6	123.5	126.6	125.3	122.6	125.4	121.5	124.6	127.6	123.3	123.8
Iron ore 101			6.3	116.5	136.8	133.2	137.3	135.9	132.7	112.5	125.7	131.4	138.5	132.9	134.1
Copper ore 102			4.8	141.3	114.1	118.7	107.8	106.4	103.3	139.6	114.7	120.4	107.6	105.1	105.0
Coal mining 12			13.4	97.9	101.2	101.4	100.6	102.4	101.3	113.3	113.5	107.7	97.0	93.9	79.5
Oil and gas extraction 13			33.0	102.8	102.3	100.7	104.1	101.7	100.5	101.1	100.3	100.5	102.3	101.3	100.2
Crude oil and natural gas 131			27.7	102.8	102.6	101.0	105.8	102.2	100.7	101.9	100.9	100.7	103.5	101.5	99.9
Natural gas liquids 132			3.7	91.1	86.0	89.0	85.8	87.7	85.8	88.1	86.8	90.7	88.5	89.3	86.9
Stone and earth minerals 14			12.3	102.7	104.2	103.4	105.5	98.9	106.0	97.5	99.8	105.3	108.5	99.4	105.7
Crushed stone 142			3.5	109.6	115.9	110.4	116.8	115.1	113.7	91.2	97.6	112.1	121.7	120.7	119.5
Sand and gravel 144			2.9	122.5	132.8	126.0	128.1	121.1	124.6	100.6	109.9	120.8	132.7	129.6	131.2
Chemical and fertilizer materials 147			3.9	91.5	89.1	88.6	88.3	76.5	93.3	91.6	90.6	91.7	91.1	75.0	91.2
Foods 20			52.9	113.9	115.8	116.1	114.8	116.0	117.0	106.4	107.3	109.3	111.1	118.6	122.9
Meat products 201			8.7	115.4	121.2	119.9	121.2	121.3	122.2	106.5	110.2	113.8	117.2	126.4	132.0
Dairy products 202			6.5	103.8	107.0	107.5	106.5	104.5	107.5	96.2	100.5	104.2	106.1	112.5	117.4
Canned and frozen food 203			6.6	114.9	118.4	117.8	116.2	118.7	117.5	104.4	107.0	105.7	107.8	115.6	119.2
Grain mill products 204			10.9	119.8	122.5	121.9	118.6	121.3	121.3	116.7	116.1	116.9	117.5	120.9	120.0
Bakery products 205			3.3	116.5	122.5	120.6	121.6	120.6	124.5	106.6	112.7	113.7	118.2	127.2	134.1
Sugar and confectionery 206			3.7	128.5	121.5	128.5	123.5	133.6	133.5	129.9	112.8	114.3	110.2	127.4	126.6
Fats and oils 207			3.4	119.8	123.3	123.7	128.9	124.7	119.3	125.8	121.9	121.3	119.5	118.5	111.0
Beverages 208			5.9	106.3	103.7	103.4	101.1	103.9	106.6	94.3	94.6	98.4	99.2	111.5	118.0
Coffee and miscellaneous 209			3.9	97.6	101.8	101.3	100.8	101.9	101.4	89.9	94.6	96.5	97.5	106.4	111.6
Tobacco products 21			1.7	91.8	95.8	82.9	83.6	89.0	92.6	85.3	88.1	79.6	83.7	93.4	91.6
Textile mill products 22			29.9	109.0	112.2	110.8	109.0	108.8	111.3	100.8	106.5	108.2	112.1	120.6	111.2
Fabrics 221-4			11.6	98.3	100.5	100.0	98.0	99.2	99.8	91.1	95.2	96.7	100.9	110.4	99.6
Knit goods 225			3.4	125.6	132.5	127.8	128.1	128.4	130.7	115.1	123.3	123.0	131.0	142.8	135.3
Fabric finishing 226			2.2	115.9	124.9	117.5	117.7	116.4	125.6	109.9	118.6	117.7	119.5	125.5	121.3
Yarn and thread 228			8.4	111.2	115.9	117.3	114.0	113.0	114.1	103.1	111.6	114.0	117.1	125.4	112.8
Miscellaneous textiles 229			2.9	112.7	112.5	115.4	115.4	112.2	121.4	106.3	111.8	113.6	117.1	120.2	118.4
Apparel products 23			6.6	96.3	97.9	96.6	95.0	93.0	98.0	87.6	89.5	89.3	92.6	101.5	105.8
Men's outerwear 231,2			1.9	99.7	102.5	100.2	98.1	92.9	99.7	90.3	91.8	92.7	96.0	103.9	105.8
Women's outerwear 233			1.9	82.4	89.5	83.1	84.1	82.4	87.4	75.5	80.7	76.8	82.1	89.1	95.8
Lumber and products 24			21.6	110.6	112.8	114.0	111.1	110.5	112.5	113.4	113.4	114.6	110.9	110.5	108.8
Lumber 242			7.9	102.2	103.8	106.1	104.8	102.9	104.5	106.6	105.2	107.4	104.4	101.1	99.4
Millwork and plywood 243			5.7	99.7	99.3	102.6	98.6	98.6	101.3	100.6	99.7	103.5	99.0	98.7	99.0
Furniture and fixtures 25			5.7	106.2	110.3	109.6	109.9	108.8	113.0	107.4	109.0	108.4	107.6	111.2	107.7
Household furniture 251			3.2	103.6	106.3	105.3	102.5	103.1	105.6	104.1	106.0	104.8	103.8	106.5	96.7
Paper and products 26			97.0	115.2	116.9	116.1	114.1	115.0	115.7	112.9	115.0	116.0	113.1	116.1	115.6
Wood pulp 261			7.1	102.8	109.9	107.8	113.1	115.1	111.2	103.8	105.3	107.2	109.3	110.9	110.2
Paper 262			51.6	112.0	111.5	111.1	109.1	109.9	108.4	109.3	110.3	112.0	108.7	110.7	108.7
Paperboard 263			26.0	133.5	140.4	136.0	126.2	136.6	144.2	133.3	140.8	132.0	125.0	137.6	140.5
Paperboard containers 265			4.5	113.4	115.3	118.0	112.2	110.7	110.0	112.2	113.7	116.4	110.0	112.9	112.0
Converted paper products 267			7.6	116.8	120.5	118.9	118.6	116.8	120.7	114.4	115.2	117.4	117.9	120.6	121.0
Printing and publishing 27			15.7	125.1	126.3	128.0	125.2	124.5	125.7	114.5	115.9	119.8	120.5	129.5	137.5
Newspapers 271			3.4	115.0	116.6	114.9	111.0	115.1	112.9	104.7	105.3	107.6	107.2	119.7	124.5
Commercial printing 275			8.2	127.8	128.4	130.9	129.1	126.8	127.9	117.7	118.6	122.1	124.2	131.0	139.1
Chemicals and products 28			146.2	117.2	116.6	117.5	114.0	115.2	113.2	113.7	115.2	116.3	114.8	116.9	114.6
Basic chemicals 281			61.8	119.4	118.1	120.0	117.2	117.6	112.5	116.4	118.7	119.2	119.4	117.8	111.7
Alkalies and chlorine 2812			14.1	124.2	121.4	126.9	116.9	123.5	124.4	120.2	122.8	127.7	121.6	124.2	126.7
Inorganic chemicals, nec 2819			29.1	128.3	126.6	129.5	127.6	126.6	115.5	124.8	130.0	128.9	132.4	126.1	113.1
Acid and fertilizer materials			10.9	106.2	105.0	110.8	105.3	108.9	107.2	104.3	104.1	108.6	106.9	107.4	108.3
Nuclear materials, nondefense			18.2	144.8	142.1	142.9	144.4	139.1	120.3	139.3	148.3	143.4	150.5	139.4	116.4

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

Item	1987 SIC	1987 Billion KWH	Index, 1987 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1993 Feb.	Mar.	Apr.	May ^f	June ^f	July ^p	1993 Feb.	Mar.	Apr.	May ^f	June ^f	July ^p
Chemicals and Products (cont.)														
Synthetic materials	282	26.5	111.2	111.2	109.3	105.0	108.3	108.8	107.3	106.3	107.7	104.5	112.7	112.9
Plastics materials	2821	14.2	114.9	115.4	114.0	107.1	111.4	118.3	111.2	110.8	112.5	107.4	114.5	120.8
Drugs and medicines	283	5.5	121.1	126.8	125.1	117.9	116.6	126.4	111.7	115.4	119.0	116.6	125.1	137.6
Soap and toiletries	284	3.1	115.0	118.6	113.3	114.5	117.5	116.8	110.3	114.1	109.0	111.4	121.3	125.2
Industrial organic chemicals	286	36.0	111.9	109.0	109.8	107.7	111.1	112.8	108.1	107.8	109.3	106.0	110.8	112.7
Agricultural chemicals	287	8.5	110.1	112.4	113.7	111.3	110.4	112.7	110.1	110.8	115.2	110.8	111.6	111.0
Petroleum products	29	40.1	105.9	111.6	110.8	110.5	110.5	109.4	102.7	104.9	107.7	110.0	113.3	113.8
Rubber and plastics products	30	33.1	124.2	125.7	126.0	124.4	124.1	126.6	121.9	124.8	125.1	125.2	129.5	126.8
Tires	301	3.6	112.6	115.6	113.2	112.1	113.9	114.7	107.0	111.2	110.9	113.3	119.8	115.2
Rubber products, nec	306	3.1	104.9	107.3	105.5	104.9	104.6	108.9	104.0	105.2	104.4	104.5	108.8	107.8
Plastics products, nec	308	24.9	126.9	127.7	129.0	127.0	127.0	129.4	125.4	127.8	128.6	128.2	132.6	129.7
Leather and products	31	1.0	100.0	100.6	99.0	96.6	94.7	103.5	98.7	97.6	97.7	96.7	100.4	100.7
Shoes	314	.4	91.9	92.6	88.6	88.3	82.7	92.3	89.6	88.2	87.2	88.5	89.0	91.7
Stone, clay, & glass products	32	33.8	99.0	101.5	101.8	101.9	102.5	102.7	92.9	96.4	100.8	104.0	105.7	104.5
Flat glass	321	1.7	102.3	107.3	110.1	105.4	105.2	105.6	102.2	103.8	105.2	104.4	106.6	105.4
Pressed and blown glass	322	6.7	102.3	104.3	103.3	100.3	105.2	103.0	100.1	102.4	102.6	102.6	107.1	105.3
Cement	324	10.1	93.8	96.1	97.7	100.0	97.6	100.3	77.2	83.4	96.2	106.6	105.6	105.6
Structural clay products	325	1.6	97.1	104.7	103.8	107.7	104.1	108.6	92.5	102.1	103.4	107.8	107.0	108.8
Concrete products	327	5.1	87.8	89.0	89.6	90.6	91.1	90.9	84.3	85.0	88.2	90.5	92.5	92.3
Primary metals	33	137.9	105.9	110.1	109.1	108.0	111.1	108.5	103.9	111.0	109.4	109.1	110.5	107.3
Basic steel and mill products	331	54.4	111.5	118.6	115.5	114.7	118.7	113.9	111.6	119.7	117.0	114.7	116.7	110.9
Iron and steel foundries	332	9.9	108.1	110.1	105.5	104.7	105.3	108.4	108.2	111.3	107.9	105.9	109.5	104.4
Primary nonferrous metals	333	55.8	93.7	99.4	98.0	97.8	102.1	99.7	90.9	99.6	95.1	97.9	100.2	99.3
Aluminum	3334	51.2	92.8	94.5	97.0	95.2	96.9	94.9	87.1	94.9	96.4	97.9	97.2	97.4
Nonferrous foundries	336	2.7	102.9	104.3	107.1	103.9	104.9	106.5	103.3	105.2	106.6	103.2	107.1	103.0
Fabricated metal products	34	31.5	106.7	110.2	108.9	107.9	105.4	107.9	106.4	109.8	107.1	106.8	108.9	109.2
Metal containers	341	2.5	120.6	119.5	119.5	121.8	120.2	123.3	118.7	118.8	120.2	120.6	125.9	127.7
Hardware, tools, and cutlery	342	2.7	109.4	110.2	110.2	109.7	107.9	110.7	109.0	107.9	108.5	107.5	111.1	111.4
Structural metal products	344	5.6	97.9	95.3	92.6	96.8	92.0	98.8	98.7	94.7	92.4	96.8	94.5	99.5
Fasteners	345	1.7	101.1	104.7	102.7	102.5	95.9	102.4	100.9	104.1	99.6	99.0	99.7	103.6
Metal stampings	346	7.1	115.3	122.5	119.9	115.1	113.1	117.4	113.6	123.0	118.6	116.8	119.8	115.6
Industrial and commercial machinery and computer equip.	35	33.4	107.0	110.4	110.5	109.0	109.1	110.7	105.6	107.9	106.7	107.4	113.0	114.0
Engines and turbines	351	2.5	106.4	115.4	110.7	111.2	114.2	109.5	105.5	114.4	110.7	109.7	119.1	111.3
Farm	352	1.6	128.2	128.4	127.8	130.0	128.8	130.7	132.8	129.6	128.5	127.9	128.6	125.7
Construction and allied	353	4.2	93.6	93.4	94.5	87.7	94.9	95.2	90.9	91.0	90.3	87.7	97.4	99.3
Metalworking	354	4.2	117.4	120.9	123.8	120.1	119.4	122.4	116.6	119.9	119.1	117.0	122.6	126.8
Special industry	355	2.5	106.3	107.0	107.1	108.9	108.2	107.3	104.8	105.0	103.7	104.6	110.9	111.4
General industrial	356	4.8	106.3	111.7	109.4	108.6	110.6	109.4	104.8	110.0	107.5	106.9	114.3	113.0
Computer and office equip.	357	6.1	93.0	96.4	96.7	99.2	95.9	97.3	91.0	93.6	91.3	96.5	99.4	100.7
Service industry machines	358	3.3	132.8	133.3	135.6	131.2	130.4	129.9	126.2	128.0	128.8	130.6	137.2	139.2
Electrical machinery	36	31.3	103.2	103.7	104.9	103.0	102.9	103.2	98.4	100.5	101.8	101.8	106.9	108.0
Electrical distribution	361	1.4	78.9	78.7	75.6	76.5	75.6	76.9	76.4	77.2	73.9	74.0	79.1	78.9
Electrical industrial	362	4.1	110.1	107.6	110.3	110.4	112.1	110.4	106.5	106.9	109.4	109.8	115.1	114.6
Household appliances	363	2.5	88.6	89.2	90.3	87.0	87.4	89.2	87.1	88.6	89.4	88.9	92.8	89.6
Lighting and wiring products	364	2.9	98.6	99.5	99.5	97.0	96.8	98.5	99.4	100.5	99.9	96.5	101.0	99.3
TV and radio sets	365	.6	123.4	132.3	129.3	126.5	127.2	128.7	121.2	126.0	123.3	124.0	129.7	132.6
Communication equipment	366	3.1	81.3	80.9	80.0	83.5	81.4	83.9	76.5	76.2	76.6	81.9	86.3	91.3
Electronic components	367	12.8	112.5	114.2	115.6	111.9	114.5	114.0	107.0	110.0	112.0	110.6	118.1	120.5
Transportation equipment	37	38.3	99.2	102.5	99.3	98.0	97.2	97.3	95.2	100.2	97.1	99.8	102.6	99.2
Motor vehicles and parts	371	21.9	93.0	97.0	95.2	92.1	91.3	91.4	88.4	96.3	93.9	95.3	98.0	91.3
Aircraft and parts	372	10.1	104.0	104.0	99.3	100.8	99.2	100.6	99.8	99.3	95.8	98.1	102.1	105.7
Ships and boats	373	2.1	105.0	107.4	106.8	99.3	97.8	98.6	109.0	108.6	105.3	98.2	100.5	99.3
Instruments	38	13.1	108.4	111.9	106.4	109.4	109.8	110.2	102.4	107.3	103.0	106.7	113.8	118.1
Photographic equip. & supplies	386	1.7	105.0	109.2	97.2	101.1	106.4	103.3	99.4	106.9	95.7	100.6	107.0	108.4
Miscellaneous manufactures	39	4.6	114.2	115.9	115.9	115.1	116.4	119.4	112.8	112.4	111.8	112.5	119.2	122.5
SUPPLEMENTARY GROUPS														
Total, excluding nuclear nondefense		832.5	107.5	109.7	110.1	109.0	109.3	110.9	105.5	108.4	108.9	108.7	112.0	111.3
Utility sales to industry		765.4	108.3	110.1	110.4	109.5	109.9	110.2	106.0	108.8	109.3	109.7	112.5	110.8
Industrial generation		85.3	122.1	122.2	122.1	119.3	122.9	122.8	117.4	124.2	120.8	116.3	119.9	124.2

Explanatory Note

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

Industrial Production

Coverage. The industrial production (IP) index measures output in the manufacturing, mining, and electric and gas utilities industries. For the period since 1987, the total IP index has been constructed from 255 individual series based on the 1987 Standard Industrial Classification (SIC). These individual series are classified and grouped in two ways: (1) market groups (shown in table 1), such as consumer goods, equipment, intermediate products, and materials, from which the seasonally adjusted total index is derived; 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 comprises final and intermediate products, and final products are divided into consumer goods and equipment.

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript “p” in tables) and subject to revision in each of the subsequent three months as new source data become available. (Revised estimates are denoted by the superscript “r” in tables.) After the fourth month, indexes are not revised further until the time of an annual revision or a benchmark revision. The last three benchmark revisions were published in 1990, 1985, and 1976.

Source data. In annual or benchmark revisions, the individual IP indexes are constructed from a variety of source data, such as the quinquennial *Censuses of Manufactures and Mineral Industries* and the *Annual Survey of Manufactures*, prepared by the Bureau of the Census; the *Minerals Yearbook*, prepared by the Bureau of Mines; and publications of the Department of Energy. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations as well as from the government agencies 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 kilowatt hours. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The data on kilowatt hours 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 (censuses, annual surveys, and the like); these factors also may be influenced by technological or cyclical developments. Especially for the first and second estimates for a given month, the available source data are limited and subject to revision.

Weights. In the index, series that measure the output of an individual industry are weighted according to their proportion in the total value-added output of all industries. The industrial production index, which extends back to 1919, is built in chronological segments that are linked together to form a continuous index expressed as a percentage of output in a comparison base year (currently 1987). Each segment, which usually spans five years, is a Laspeyres quantity index showing changes in quantities with prices (Census value added per unit of output) held at base-year values for the segment. For the period from 1987 to the present, IP is aggregated on the basis of 1987 value-added weights. The aggregation of the index for the 1982-86 period is based on 1982 weights, whereas 1977 weights are used for the 1977-81 period. The other weight years in the postwar period are 1972, 1967, 1963, 1958, 1954, and 1947. The 1987 value-added weights used to aggregate the index are shown in the first column of tables 1, 2, and 6, in the “1987” column under the heading “Proportion in total IP.” To the extent that a given industry grows faster (slower) than the total index after 1987, its current proportion will rise (fall). Proportions for the most recent complete year of data are shown in the second column of tables 1, 2, and 6, in the column headed by the most recent year under the heading “Proportion in total IP.”

Seasonal adjustment. Individual series are seasonally adjusted by the X-11 ARIMA method, developed at Statistics Canada. The current seasonal factors are based on data through October 1992. In some cases, series were preadjusted for the effects of holidays or the business cycle before using X-11 ARIMA. The major market and industry groups are seasonally adjusted directly; as a result, the seasonally adjusted value of a given market or industry group may not be equal to an aggregation of its seasonally adjusted components. The seasonally adjusted total index is calculated by

aggregating the seasonally adjusted major market groups, and may not precisely equal an aggregation of the seasonally adjusted industry groups.

Reliability. The average revision to the level of the total IP index, without regard to sign, between the preliminary estimate and its third revision (or from the first and the fourth estimates) was 0.35 percent during the 1972-92 period. The average revision to the percent change in total IP, without regard to sign, from the first to the fourth estimates was 0.26 percentage point during the same period. In most cases (about 85 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. In some cases, components may not add to totals because of independent rounding. In addition, the published percent changes are calculated from unrounded indexes, and may not be the same as percent changes calculated from the rounded indexes shown in the release.

References. *Industrial Production—1986 Edition* contains a more detailed description of the methods used to compile the index, plus a history of its development, a glossary of terms, and a bibliography. To obtain *Industrial Production—1986 Edition* (\$9.00 per copy), write to Board of Governors of the Federal Reserve System, Publications Services, Washington, DC 20551. The 1990 revision to the index is described in the *Federal Reserve Bulletin*, vol. 76 (April 1990), pp. 187-204. The 1993 revision to the index is described in the *Federal Reserve Bulletin*, vol. 79 (June 1993), pp. 590-605.

Capacity Utilization

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

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, and total industry. Component industries of the primary and advanced processing groups within manufacturing are listed in the note on tables 2 and 3 of the release.

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

Perspective. The historical highs and lows in capacity utilization shown in the tables above are specific to each series and did not all occur in the same month. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For mining, manufacturing, and utilities as a whole, and for total manufacturing, utilization rates as high as 90 percent have been exceeded only in wartime.

References. The basic methodology used to estimate capacity and utilization is discussed in the *Federal Reserve Bulletin*, vol. 71 (October 1985), pp. 754-66. The 1990 revision of capacity and capacity utilization is described in the *Federal Reserve Bulletin*, vol. 76 (June 1990), pp. 412-35, and the 1993 revision is described in the *Federal Reserve Bulletin*, vol. 79 (June 1993), pp. 590-605.

Electric Power

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

Release Schedule for 1993

At 9:15 a.m. on January 15, February 18, March 17, April 16, May 14, June 16, July 16, August 16, September 16, October 15, November 15, and December 15.