

FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION^{1/}

Industrial production increased an estimated 0.5 percent in February. The level of output was revised up for December and down for January, resulting in a larger increase in December (0.5 percent) and a lower percent gain in January (0.1 percent) than estimated a month ago. The February gain was dominated by a sharp increase in motor vehicle production, which boosted output of both consumer goods and business equipment. In most other sectors small production increases occurred during the month. At 127.3 percent of the 1977 average, the total index for February was 1.7 percent higher than a year ago.

Market Groupings. Production of durable consumer goods advanced 2.3 percent during February owing to the sharp gain in autos. Assemblies of autos were at an annual rate of 8.3 million units compared with the January rate of 7.5 million units; indications are that assemblies will be lower in March. Output of home goods edged up 0.3 percent in February; despite wide month-to-month swings recently, output of home goods--especially appliances and furniture--has been quite strong over the past half-year.

Production of business equipment rose 1 percent in February as output of autos and trucks for business use increased sharply and some strike rebound occurred in farm equipment. Other components of business equipment remained weak, however, and only the transit equipment group was producing at a level higher than a year ago. Output of defense and space equipment continued to expand in February. Production of construction supplies posted a small rise in February following sharp gains in December and January, and output of supplies for business use also increased. Materials output increased in February for the fourth consecutive month after declining throughout much of 1986. The recent strength in materials has been concentrated in textiles, paper, and chemicals.

Industrial Production: Summary

Seasonally adjusted

Item	Index, 1977 = 100		Monthly percent change						Current month from a year ago
	JAN	FEB	OCT	NOV	DEC	JAN	FEB		
Total	126.8	127.3	.3	-.6	-.5	.1	.5		1.7
Market Groupings									
Products, total	135.2	136.0	-.6	-.4	-.4	-.1	-.6		2.3
Final products	133.6	134.5	.4	-.4	.4	-0.1	.7		1.3
Consumer goods	126.8	127.5	-.4	-.8	1.3	-0.3	-.6		3.5
Durable goods	119.3	121.7	-1.0	1.8	2.8	-2.0	2.1		4.7
Non durable goods	129.6	129.7	.8	-.4	-.8	.2	-.1		3.0
Business equipment	137.5	138.9	-0.2	-0.4	-1.1	-.3	1.0		-1.2
Defense and space	186.5	187.2	1.4	.2	-.5	.4	-.4		6.2
Intermediate products	140.9	141.2	1.3	-.4	.4	.8	-.3		5.9
Construction supplies	130.0	130.2	-.3	-.5	1.0	1.5	-.2		6.2
Materials	115.3	115.5	-0.2	-.9	.7	-.1	-.2		-.6
Industry Groupings									
Manufacturing	131.1	131.8	-.3	-.3	.6	-.1	.5		2.4
Durable	128.8	129.9	-.0	-.4	-.5	-0.3	-.8		1.0
Non durable	134.3	134.4	.7	.3	.6	.6	.1		4.4
Mining	98.8	98.8	-0.6	1.9	-0.2	1.6	-.1		-6.0
Utilities	111.3	112.1	-.9	1.7	-1.1	1.2	-.7		2.2

Materials output increased in February for the fourth consecutive month after declining throughout much of 1986. The recent strength in materials has been concentrated in textiles, paper, and chemicals.

Industry Groupings. Manufacturing output increased 0.5 percent with gains in durables of 0.8 percent and in nondurables of only 0.1 percent. Mining output edged up in February following a sharp rise in January, and utility production increased 0.7 percent during the month.

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New Publication:
INDUSTRIAL PRODUCTION-1986 Edition

Industrial Production-1986 Edition is now available to the public. It contains a summary of the major revision of the industrial production index published in 1985; a description of the methods used to construct the index and of its historical development from 1919; a listing of the sources and coverage of the index series; and statistical tables providing historical data through 1985 for the total index, its major groupings, and its main components.

To obtain copies of Industrial Production-1986 Edition, write to the Publication Services, Board of Governors of the Federal Reserve System, Washington, D.C. 20551. The price of this volume of about 440 pages is \$9.00 per copy.

Table 1A

INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Seasonally adjusted, 1977 = 100

Major Market Groupings	1977	1986	1986 P&B	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	
	Pro- por- tion	Ann. Avg.												JAN	PEB
TOTAL INDEX	100.00	125.0	125.3	123.6	124.7	124.2	124.2	124.9	125.1	124.9	125.3	126.0	126.6	126.8	127.3
PRODUCTS, TOTAL	57.72	133.2	132.9	131.2	132.7	132.4	132.4	133.2	133.8	133.3	134.0	134.5	135.0	135.2	136.0
FINAL PRODUCTS	44.77	132.3	132.8	130.6	132.1	131.6	131.1	132.0	132.6	132.2	132.7	133.1	133.7	133.6	134.5
CONSUMER GOODS	25.52	124.4	123.3	121.8	124.5	124.3	124.4	125.2	125.1	124.2	124.7	125.6	127.2	126.8	127.5
EQUIPMENT, TOTAL	19.25	142.7	145.4	142.3	142.3	141.2	140.0	141.0	142.5	142.8	143.3	143.1	142.2	142.6	143.7
INTERMEDIATE PRODUCTS MATERIALS	12.94	136.4	133.4	133.3	134.5	135.1	137.0	137.3	137.8	137.0	138.7	139.2	139.8	140.9	141.2
	42.28	113.9	114.8	113.3	113.8	113.0	113.1	113.6	113.2	113.5	113.3	114.3	115.1	115.3	115.5
CONSUMER GOODS	25.52	124.4	123.3	121.8	124.5	124.3	124.4	125.2	125.1	124.2	124.7	125.6	127.2	126.8	127.5
DURABLE CONSUMER GOODS	6.89	116.2	116.6	112.4	115.9	113.8	114.3	116.3	115.7	117.4	116.3	118.4	121.7	119.3	121.7
Automotive products	2.98	115.1	117.6	110.4	116.4	113.2	113.7	116.4	114.5	117.0	112.7	114.6	117.8	118.2	123.5
Autos and trucks, consumer	1.79	112.9	119.4	106.3	115.1	110.3	112.2	114.5	110.4	116.8	107.7	107.6	115.6	117.9	125.1
Autos, consumer	1.16	97.3	107.1	93.7	100.8	94.8	99.3	95.3	87.8	96.2	91.9	92.3	99.5	94.3	105.2
Trucks, consumer	.63	141.8	142.1	129.6	141.5	139.1	136.1	150.3	152.4	155.1	137.1	136.0	145.6	161.9	
Auto parts & allied gds	1.19	118.4	114.9	116.6	118.4	117.4	116.1	119.1	120.7	117.3	120.1	125.2	121.0	118.7	121.1
Home goods	3.91	117.1	115.8	113.9	115.5	114.3	114.8	116.3	116.7	117.7	119.0	121.2	124.7	120.1	120.4
Appliances, TV & air-cond	1.24	139.5	135.1	133.7	138.8	133.9	137.5	138.9	139.4	141.2	142.6	148.1	154.1	142.5	143.1
Appliances and TV	1.19	141.6	137.6	136.0	140.6	135.8	139.1	141.6	142.5	143.5	144.3	150.0	156.1	144.3	
Carpeting & furniture	.96	125.8	124.4	121.2	121.8	123.3	122.5	126.6	125.8	126.2	128.8	131.1	132.2	129.2	
Misc. home goods	1.71	96.0	97.0	95.5	95.0	95.0	94.1	94.1	95.1	96.0	96.5	96.3	99.3	98.8	
NONDURABLE CONSUMER GOODS	18.63	127.5	125.8	125.3	127.7	128.1	128.1	128.4	128.6	126.7	127.8	128.3	129.3	129.6	129.7
Clothing	3.34	97.0	96.4	96.2	97.5	96.6	95.9	97.0	96.8	95.4	97.4	97.6	99.6	99.1	
Consumer staples	15.29	134.7	132.3	131.6	134.3	135.0	135.1	135.3	135.5	133.6	134.4	135.0	135.8	136.3	136.4
Consumer foods & tobacco	7.80	131.9	131.1	130.3	131.9	132.4	133.3	132.2	133.2	131.0	131.6	132.6	133.7	134.1	
Nonfood staples	7.49	136.5	133.5	133.0	136.7	137.7	137.0	138.5	137.9	136.3	137.2	137.4	137.9	138.5	138.4
Consumer chem. products	2.75	161.2	158.3	156.4	163.1	162.4	163.6	166.4	163.4	161.1	161.7	161.0	161.9	162.3	
Consumer paper products	1.88	147.4	143.4	143.1	145.1	148.6	147.1	146.4	147.7	145.7	150.3	151.5	150.8	150.6	
Consumer energy	2.86	105.7	103.2	104.0	106.0	106.8	104.8	106.6	107.1	106.3	105.2	105.5	106.4	107.7	
Consumer fuel	1.44	92.8	92.0	92.2	93.7	96.4	91.8	91.2	94.9	92.0	90.8	91.7	92.2	96.3	
Residential utilities	1.42	118.8	114.5	116.1	118.4	117.5	118.1	122.3	119.6	120.9	119.8	119.6	120.9		
EQUIPMENT, TOTAL	19.25	142.7	145.4	142.3	142.3	141.2	140.0	141.0	142.5	142.8	143.3	143.1	142.2	142.6	143.7
BUSINESS & DEFENSE EQUIP.	18.01	147.1	147.8	145.5	146.6	146.0	145.1	146.4	147.8	148.0	148.4	148.1	147.0	147.5	148.7
BUSINESS EQUIPMENT	14.34	138.6	140.5	137.7	138.6	137.9	136.6	137.9	139.3	139.3	139.1	138.6	137.1	137.5	138.9
Constr., mining, & farm	2.08	59.8	63.0	59.5	58.6	60.9	61.9	60.6	58.3	58.1	58.0	56.6	57.2	56.0	
Manufacturing equipment	3.27	112.0	112.9	112.4	111.9	111.9	111.7	112.6	113.3	113.0	112.7	109.6	108.7	109.0	109.1
Power equipment	1.27	81.6	82.3	82.0	83.0	82.9	83.5	81.7	81.7	80.3	80.5	79.5	79.8	79.1	78.7
Commercial equipment	5.22	214.6	216.8	214.3	213.4	212.9	208.2	214.5	217.5	215.1	215.4	217.3	214.1	216.0	215.9
Transit equipment	2.49	109.2	111.7	104.3	112.1	107.3	108.8	103.9	106.9	113.3	111.8	110.7	108.9	108.5	115.2
DEFENSE & SPACE EQUIPMENT	3.67	180.3	176.3	176.2	178.0	178.0	178.4	179.5	181.0	182.0	184.6	184.9	185.8	186.5	187.2
INTERMEDIATE PRODUCTS	12.94	136.4	133.4	133.3	134.5	135.1	137.0	137.3	137.8	137.0	138.7	139.2	139.8	140.9	141.2
Construction supplies	5.95	124.7	122.6	122.6	123.5	123.5	124.1	124.0	125.4	126.3	126.3	128.6	128.11	130.0	130.2
Business supplies	6.99	146.4	142.6	142.5	143.8	145.0	147.9	148.6	148.4	146.4	149.3	149.7	149.7	150.2	
Gen. business supplies	5.67	150.6	146.7	146.4	148.0	148.3	151.6	153.3	152.5	151.2	154.1	153.7	154.2	154.7	
Commercial energy prod.	1.31	128.3	124.9	125.6	125.8	130.7	131.9	128.3	130.6	125.8	128.8	132.6	130.5	130.6	
MATERIALS	42.28	113.9	114.8	113.3	113.8	113.0	113.1	113.6	113.2	113.5	113.3	114.3	115.1	115.3	115.5
DURABLE GOODS MATERIALS	20.50	119.7	121.3	119.3	120.2	118.4	117.8	118.8	118.8	118.9	119.2	120.4	120.8	120.7	120.8
Consumer durable parts	4.92	98.5	103.2	99.9	99.3	96.4	96.3	96.7	95.2	95.3	97.0	98.0	98.9	100.3	99.8
Equipment parts	5.94	153.9	153.0	153.7	154.8	152.3	151.8	154.3	155.6	154.8	153.5	154.5	154.6	154.4	154.3
Durable materials nec	9.64	109.4	111.0	108.0	109.4	108.8	107.9	108.2	108.1	108.8	109.4	110.7	111.1	110.3	110.8
Basic metal materials	4.64	80.0	83.0	79.6	82.9	78.9	76.7	77.4	76.9	78.4	78.8	82.1	80.5	78.6	
NONDURABLE GOODS MATERIALS	10.09	118.3	116.1	114.8	116.5	116.5	117.7	118.9	119.7	120.6	120.3	120.2	122.6	122.7	123.2
Textile, paper, & chem. mater.	7.53	118.9	116.5	115.5	115.9	116.9	118.2	119.0	120.5	121.8	121.3	121.1	124.0	124.1	124.7
Textile materials	1.52	110.6	107.5	105.7	106.7	108.4	109.5	111.2	113.4	116.0	114.3	115.6	115.2	113.0	
Pulp & paper materials	1.55	132.1	128.8	128.0	129.0	128.6	132.7	135.6	136.0	133.7	133.5	134.2	137.4	137.7	
Chemical materials	4.46	117.1	115.4	114.5	114.5	115.7	116.1	115.9	117.5	119.7	119.5	118.5	122.3	123.2	
Misc. nondurable materials	2.57	116.5	115.0	112.8	118.2	115.3	116.4	118.3	117.2	117.1	117.5	117.6	118.5	118.5	
ENERGY MATERIALS	11.69	99.9	102.1	101.4	100.4	100.5	100.8	99.9	97.9	98.0	96.9	98.7	98.7	99.3	99.6
Primary energy	7.57	105.5	106.7	107.4	106.2	106.7	106.5	108.8	103.7	103.8	102.7	104.8	105.5	105.6	
Converted fuel materials	4.12	69.6	93.6	90.5	89.7	89.2	90.4	90.9	87.3	87.4	86.2	87.6	86.2	87.9	

NOTE: Two components--oil and gas well drilling and manufactured homes--are included in total equipment but not shown here. They are shown in Tables 4A and 4B on page 8 and 9.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPINGS
Not seasonally adjusted, 1977 = 100

Major Market Groupings	1977	1986													1987	
	Prod. por- tion	Ann. Avg.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	
TOTAL INDEX	100.00	125.0	124.9	123.1	123.8	123.2	126.9	123.3	127.6	129.1	128.0	125.4	122.3	123.3	127.0	
PRODUCTS, TOTAL	57.72	133.2	130.8	129.0	130.6	130.6	135.8	132.9	138.0	139.6	138.0	133.9	130.0	130.4	133.9	
FINAL PRODUCTS	44.77	132.3	131.2	128.8	129.9	129.8	134.4	131.3	136.3	138.1	136.4	132.4	128.8	129.7	133.0	
CONSUMER GOODS	25.52	124.4	121.2	109.9	122.1	122.1	128.3	124.7	130.5	131.8	129.7	124.6	120.1	121.9	125.5	
EQUIPMENT, TOTAL	19.25	142.7	144.4	141.9	140.2	140.0	142.5	140.1	143.9	146.5	145.2	142.7	140.4	140.0	142.8	
INTERMEDIATE PRODUCTS	12.94	136.4	129.5	129.6	133.0	133.5	140.6	138.3	143.9	144.8	143.6	139.2	134.2	132.9	137.1	
MATERIALS	42.28	113.9	116.8	115.1	114.5	113.1	114.8	110.1	113.4	114.8	114.4	113.9	111.7	113.6	117.7	
CONSUMER GOODS	25.52	124.4	121.2	118.9	122.1	122.1	128.3	124.7	130.5	131.8	129.7	124.6	120.1	121.9	125.5	
DURABLE CONSUMER GOODS	6.89	116.2	117.9	114.9	119.1	116.1	119.3	104.8	113.6	121.4	125.9	119.5	110.1	115.3	124.1	
Automotive products	2.98	115.1	112.1	116.8	122.1	118.2	122.9	99.2	106.2	119.2	121.4	115.1	104.2	116.4	129.1	
Autos and trucks, consumer	1.79	112.9	112.6	117.0	124.4	119.9	127.6	89.1	95.4	116.8	118.7	109.1	95.3	115.5	135.3	
Autos, consumer	1.16	97.3	112.5	102.2	108.3	102.0	111.6	72.2	74.3	94.9	104.2	96.4	83.6	95.0	114.7	
Trucks, consumer	.63	141.8	151.1	144.5	154.2	153.0	157.3	120.3	134.7	157.5	145.8	132.6	117.0	153.4		
Auto parts & allied gds	1.19	118.4	114.0	116.5	118.7	115.6	115.8	114.5	122.5	122.8	125.5	124.1	117.6	117.9	119.9	
Home goods	3.91	117.1	115.3	113.4	116.8	114.5	116.6	109.0	119.2	123.0	129.4	122.8	114.6	114.4	120.3	
Appliances, TV & air-cond	1.24	139.5	137.1	131.7	143.0	135.9	136.2	127.2	140.0	144.5	164.5	151.1	129.8	140.8	144.7	
Appliances and TV	1.19	141.6	138.7	132.3	142.1	136.5	136.7	130.0	145.2	148.5	168.5	154.5	131.8	142.0		
Carpeting & furniture	.96	125.8	125.8	122.8	124.2	122.2	126.1	116.8	129.0	133.4	135.2	132.0	126.5	119.1		
Misc. home goods	1.71	96.0	93.7	95.0	93.8	94.6	97.1	91.5	98.6	101.7	100.6	97.2	97.0	92.6		
NONDURABLE CONSUMER GOODS	18.63	127.5	122.4	120.4	123.3	124.4	131.6	132.1	136.8	135.6	131.1	126.5	123.8	124.3	126.0	
Clothing	3.34	97.0	95.6	95.9	96.4	96.3	99.7	94.4	102.0	99.5	99.6	96.6	94.8	93.7		
Consumer staples	15.29	134.1	112.8	125.8	129.1	130.5	138.6	140.3	144.4	143.5	138.0	133.8	130.2	131.0	132.1	
Consumer foods & tobacco	7.80	131.9	125.2	125.0	127.7	129.7	137.7	134.1	141.4	140.9	137.9	132.1	126.8	127.1		
Nonfood staples	7.49	136.5	131.5	126.6	130.6	131.3	139.5	146.8	147.6	146.1	138.2	134.0	133.7	135.0	136.2	
Consumer chem. products	2.75	161.2	150.7	147.2	157.0	157.5	169.5	178.3	172.6	176.5	167.9	158.2	153.7	151.1		
Consumer paper products	1.88	147.4	140.5	138.3	140.0	142.7	149.6	153.6	163.2	156.2	153.2	148.3	142.2	142.5		
Consumer energy	2.86	105.7	107.1	99.1	99.2	98.6	104.0	112.2	113.3	110.4	99.8	101.3	108.9	114.6		
Consumer fuel	1.44	92.8	86.7	85.0	90.3	96.6	95.3	94.0	96.2	94.7	90.9	95.2	96.2	92.9		
Residential utilities	1.42	118.8	127.8	113.5	108.3	100.6	112.9	130.7	130.8	126.4	108.9	107.5	121.9			
EQUIPMENT, TOTAL	19.25	142.7	144.4	141.9	140.2	140.0	142.5	140.1	143.9	146.5	145.2	142.7	140.4	140.0	142.8	
BUSINESS & DEFENSE EQUIP.	18.01	147.1	146.8	145.4	144.5	144.9	147.9	145.5	149.3	152.0	150.2	147.4	144.9	144.6	147.9	
BUSINESS EQUIPMENT	14.34	138.6	139.1	137.3	136.1	136.4	140.0	137.5	141.7	144.3	141.8	137.6	133.5	133.6	137.7	
Constr., mining, & farm	2.08	59.8	65.1	60.3	58.6	60.5	62.4	59.9	58.3	59.9	57.9	55.7	56.0	58.3		
Manufacturing equipment	3.27	112.0	113.3	112.9	111.0	110.6	113.9	111.2	114.6	115.8	114.2	109.4	107.4	105.3	109.6	
Power equipment	1.27	81.6	81.8	82.2	81.1	81.0	84.6	78.9	82.1	83.7	81.8	80.3	79.8	77.2	80.0	
Commercial equipment	5.22	214.6	211.2	210.2	206.2	208.0	212.2	219.9	226.8	226.5	220.3	215.1	208.7	208.4	210.5	
Transit equipment	2.49	109.2	113.3	109.1	115.1	112.2	116.3	94.2	99.3	111.3	114.6	110.1	102.4	109.2	118.0	
DEFENSE & SPACE EQUIPMENT	3.67	180.3	176.9	177.1	177.5	177.9	178.6	177.0	178.8	181.8	183.1	185.6	189.2	187.6		
INTERMEDIATE PRODUCTS	12.94	136.4	129.5	129.6	133.0	133.5	140.6	138.3	143.9	144.8	143.6	139.2	134.2	132.9	137.1	
Construction supplies	5.95	124.7	117.7	120.1	124.6	125.0	129.1	123.7	128.9	131.2	130.5	127.4	122.3	121.2	125.0	
Business supplies	6.99	146.4	139.6	137.6	140.2	140.8	150.4	150.8	156.7	156.4	154.7	149.3	146.3	142.9		
Gen. business supplies	5.67	150.6	142.5	142.3	145.0	145.6	153.3	153.9	160.5	160.9	161.3	154.3	149.0	145.9		
Commercial energy prod.	1.31	128.3	127.0	117.4	119.1	120.1	138.0	137.8	140.4	137.1	126.5	127.7	124.0	130.0		
MATERIALS	42.28	113.9	116.8	115.1	114.5	113.1	114.8	110.1	113.4	114.8	114.4	113.9	111.7	113.6	117.7	
DURABLE GOODS MATERIALS	20.50	119.7	121.8	121.4	121.2	120.2	120.7	115.7	118.6	121.1	120.6	119.4	117.1	116.7	121.4	
Consumer durable parts	4.92	98.5	103.7	101.8	100.5	97.7	98.2	92.5	94.0	97.1	99.7	98.3	97.51	97.3	100.6	
Equipment parts	5.94	153.9	152.9	154.9	153.0	152.5	153.6	151.0	153.6	155.7	153.7	155.5	156.51	154.3	154.2	
Durable materials nec	9.64	109.4	112.0	110.8	112.2	111.7	111.9	105.9	109.5	112.0	111.0	107.9	102.9	103.5	111.9	
Basic metal materials	4.64	80.0	86.4	86.2	89.0	84.9	80.6	72.5	74.0	77.3	77.2	77.0	72.1	76.4		
NONDURABLE GOODS MATERIALS	10.09	118.3	119.8	117.4	118.7	117.0	120.2	112.3	119.3	121.9	123.0	120.7	115.41	120.4	126.7	
Textile, paper, & chem. mater.	7.53	118.9	119.9	118.5	118.4	118.3	120.7	112.0	119.3	122.8	124.6	121.9	117.61	121.9	128.6	
Textile materials	1.52	110.6	112.0	109.0	108.3	112.5	112.9	94.6	116.2	117.2	119.7	116.7	104.11	112.2		
Pulp & paper materials	1.55	132.1	132.9	132.6	131.9	129.0	135.7	126.0	136.4	134.0	135.3	136.0	126.31	137.2		
Chemical materials	4.46	117.1	118.2	116.9	117.2	116.5	118.2	113.0	114.4	120.8	119.2	118.8	119.21	119.8		
Misc. nondurable materials	2.57	116.5	117.6	114.0	119.5	113.1	118.7	113.3	119.3	119.4	124.2	117.0	108.81	116.0		
ENERGY MATERIALS	11.69	99.9	105.7	102.1	99.1	97.5	99.6	98.2	99.3	97.0	98.1	98.3	98.91	102.4	103.2	
Primary energy	7.57	105.5	109.6	108.7	105.8	105.0	105.7	101.4	104.6	104.1	103.7	104.6	104.81	106.6		
Converted fuel materials	4.12	89.6	98.6	90.1	86.6	83.8	88.5	92.4	89.6	85.7	82.3	86.7	88.21	94.6		

NOTE: Two components--oil and gas well drilling and manufactured homes--are included in total equipment but not shown here. They are shown in Tables 4A and 4B on page 8 and 9.

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS
 Seasonally adjusted, 1977-100

Major Industry Groupings	SIC Code	1977	1986	1986											1987	
		Pro- por- tion	Ann. Avg.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
MINING AND UTILITIES		15.79	103.41	106.8	105.4	104.2	103.1	102.6	101.8	100.9	100.8	100.7	102.6	102.0	103.5	103.8
Mining		9.83	99.61	105.1	103.0	101.0	99.8	98.9	97.1	96.4	96.2	95.6	97.4	97.2	98.8	98.8
Utilities		5.96	109.61	109.7	109.3	109.4	108.5	108.6	109.7	108.3	108.3	109.3	111.2	110.0	111.3	112.1
MANUFACTURING		84.21	129.11	128.7	127.2	128.7	128.2	128.3	129.2	129.5	129.5	129.9	130.3	131.0	131.1	131.8
Nondurable		35.11	130.91	128.7	127.7	129.6	129.9	131.2	131.7	132.2	131.4	132.3	132.7	133.5	134.3	134.4
Durable		49.10	127.91	128.7	126.8	128.1	127.0	126.2	127.4	127.5	128.1	128.1	128.6	129.2	128.8	129.9
Mining																
Metal mining	101	.50		77.2	75.9	76.0	72.0	65.9	69.2	70.9	70.7	68.5	68.3			
Coal	11,12	1.60	124.21	126.5	124.7	124.4	128.0	127.3	120.2	122.2	120.8	117.6	130.1	124.3	133.5	
Oil & gas extraction	131	7.07	94.71	101.1	99.2	96.2	95.1	93.3	92.4	90.7	91.0	90.5	90.4	91.2	91.2	91.1
Stone & earth minerals	141	.66	113.91	116.8	111.6	115.0	112.4	114.5	111.8	114.8	111.7	116.4	115.2	112.9	113.6	
Nondurable Manufactures																
Foods	201	7.96	133.61	132.9	132.2	133.1	133.7	134.6	134.3	135.1	134.3	133.7	134.4	134.7	135.1	
Tobacco products	211	.62	96.61	97.0	93.6	100.3	101.6	97.6	97.9	97.1	89.8	100.1	96.8	95.6		
Textile mill products	221	2.29	113.21	109.9	108.0	111.4	111.3	112.6	113.4	114.7	116.0	116.1	117.8	118.5	117.3	
Apparel products	231	2.79	103.61	102.8	102.8	103.1	102.6	101.7	102.5	102.5	102.7	104.2	105.1	106.9	107.3	
Paper & products	261	3.15	136.41	132.6	132.4	134.1	133.2	137.2	138.1	138.6	136.9	137.8	139.5	141.4	141.0	
Printing & publishing	271	4.54	163.41	156.7	157.8	161.6	161.9	164.0	165.4	164.6	163.0	167.8	168.5	167.6	169.5	170.0
Chemicals & products	281	8.05	133.01	132.0	130.2	128.8	131.5	134.2	134.1	134.4	133.9	133.9	132.3	134.2	135.9	
Petroleum products	291	2.40	92.11	90.1	88.6	91.3	95.7	91.8	90.6	94.0	93.3	91.1	92.0	92.6	96.0	94.0
Bubble & plastics prod.	301	2.80	153.31	151.1	147.8	146.8	150.1	152.2	155.5	155.5	154.9	157.6	159.0	159.6	159.5	
Leather & products	311	.53	61.31	64.8	62.7	61.5	59.5	57.9	61.9	62.0	59.4	60.2	61.3	59.5	59.0	
Durable Manufactures																
Lumber & products	241	2.30	123.41	120.3	120.7	121.3	121.6	120.9	120.8	122.5	125.0	125.9	129.5	132.9		
Furniture & fixtures	251	1.27	146.71	143.2	142.9	145.9	146.2	147.1	149.5	148.3	147.7	149.2	148.6	150.2	148.2	
Clay, glass, stone prod.	321	2.72	120.21	119.3	120.0	121.6	120.2	120.8	119.6	119.7	121.6	118.1	120.6	121.7	123.0	
Primary metals	331	5.33	75.81	80.3	76.3	78.1	74.8	71.4	73.6	73.4	74.1	74.2	76.8	73.7	72.4	73.2
Iron & steel	331,2	3.49	63.41	69.5	64.3	65.6	60.2	58.3	61.7	60.8	61.1	62.2	64.8	60.5	58.4	
Fabricated metal prod.	341	6.46	107.41	108.5	107.6	108.2	106.5	106.6	105.7	105.9	107.3	108.3	107.1	108.4	108.7	108.9
Nonelectrical machinery	351	9.54	141.91	143.9	141.7	140.8	141.3	140.4	142.6	142.6	140.9	142.2	141.2	140.3	139.4	140.1
Electrical machinery	361	7.15	166.51	164.8	165.2	166.8	166.0	163.2	166.8	167.2	166.9	167.7	168.3	170.2	168.5	168.7
Transportation equip.	371	9.13	125.81	127.5	122.6	126.2	124.1	125.1	125.6	125.1	127.7	125.2	125.6	127.2	127.9	131.7
Motor vehicles & pts.	371	5.25	110.91	116.4	108.1	112.6	108.7	110.6	111.2	108.2	112.2	107.1	107.9	111.2	112.1	
Aerospace & misc.	372	6.91	3.87	146.11	142.6	142.4	144.8	145.0	144.7	145.2	148.0	148.7	149.7	149.6	148.9	149.4
Instruments	381	2.66	141.31	141.9	142.0	142.4	140.3	139.9	141.7	142.0	141.7	140.3	141.1	142.0	142.0	142.4
Miscellaneous mfrs.	391	1.46	99.31	100.9	99.0	99.2	101.0	98.3	97.5	98.3	97.7	99.0	98.9	102.6	102.1	
UTILITIES																
Electric		4.17	122.21	119.5	119.8	121.6	121.7	123.1	125.4	122.4	122.8	123.8	125.1	123.6	125.3	

Table 3A
INDUSTRIAL PRODUCTION: PERCENT CHANGES

Based on seasonally adjusted indexes

Series	1986												1987			
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB			
CHANGE FROM PREVIOUS MONTH																
TOTAL INDEX	-0.7	-1.3	.8	-0.4	.0	.5	.1	-0.1	.3	.6	.51	.1	.51			
Final products	-0.8	-1.7	1.2	-0.4	-0.4	.7	.4	-0.3	.4	.4	.41	-0.1	.71			
Consumer goods	-0.3	-1.2	2.2	-0.2	.1	.6	.0	-0.7	.4	.8	1.31	-0.3	.61			
Durable consumer goods	.5	-3.6	3.1	-1.8	.5	1.7	-0.5	1.4	-1.0	1.8	2.81	-2.0	2.31			
Nondurable consumer goods	-0.6	-0.4	1.9	.3	.0	.3	-1	-1.4	.8	.4	.81	.2	.11			
Business equipment	-0.7	-2.0	.6	-0.5	-0.9	1.0	1.0	.0	-0.2	-0.4	-1.11	.3	1.01			
Construction Supplies	-1.1	.0	.8	-0.1	.5	-0.1	1.1	.4	.3	.5	1.01	1.5	.21			
Materials	-0.6	-1.3	.5	-0.7	.1	.4	-0.3	.3	-0.2	.9	.71	.1	.21			
Durable goods materials	-0.7	-1.7	.7	-1.4	-0.5	.8	.0	.1	.2	1.0	.31	-0.1	.11			
Nondurable goods materials	-0.1	-1.2	1.5	.0	1.1	.9	.7	.8	-0.2	-0.1	2.01	.1	.41			
Manufacturing	-0.6	-1.2	1.2	-0.4	.0	.7	.2	.0	.3	.3	.61	.1	.51			
Durable manufacturing	-0.7	-1.4	1.0	-0.9	-0.6	1.0	.1	.5	.0	.4	.51	-0.3	.81			
Nondurable manufacturing	-0.5	-0.8	1.5	.2	1.0	.4	.4	-0.6	.7	.3	.01	.6	.11			
Mining and utilities	-2.7	-1.4	-1.1	-1.0	-0.5	-0.7	-0.9	-0.2	.0	1.9	-0.61	1.4	.41			
CHANGE FROM SAME MONTH A YEAR EARLIER																
TOTAL INDEX	1.7	.2	1.2	.5	.5	1.2	.5	.5	1.4	.9	.81	.5	1.71			
Final products	2.2	.5	1.4	.4	.4	1.0	.3	.0	1.3	.0	.31	-0.3	1.31			
Consumer goods	3.6	2.1	4.7	3.8	3.7	4.9	3.5	2.6	3.5	2.4	3.21	2.5	3.51			
Durable consumer goods	3.6	-1.0	3.8	1.6	1.5	4.4	1.1	3.8	3.6	2.6	5.61	2.8	4.71			
Nondurable consumer goods	3.6	3.2	5.1	4.6	4.5	5.0	4.3	2.2	3.5	2.3	2.41	2.3	3.01			
Business equipment	1.0	-0.9	-1.5	-2.1	-1.4	-1.2	-1.2	-0.8	.6	-1.5	-2.11	-2.8	-1.21			
Construction Supplies	7.2	5.6	5.6	4.6	4.6	4.5	4.1	4.7	5.0	5.3	6.91	4.8	6.21			
Materials	-0.1	-1.5	-0.3	-0.7	-0.9	.0	-0.6	-0.2	-0.1	.4	-0.31	-0.2	.61			
Durable goods materials	-0.9	-2.9	-1.7	-1.9	-2.8	-1.1	-2.0	-0.9	-0.7	-0.7	-1.01	-1.2	-0.51			
Nondurable goods materials	4.7	3.6	5.4	4.9	5.6	4.9	6.1	5.6	5.9	6.1	6.71	5.6	6.11			
Manufacturing	2.8	1.1	2.1	1.5	1.7	2.3	1.7	2.0	2.8	2.0	2.21	1.3	2.41			
Durable manufacturing	1.8	-0.4	.4	-0.3	-0.6	.4	-0.5	.5	1.1	.3	.41	-0.5	1.01			
Nondurable manufacturing	4.3	3.2	4.4	4.2	5.1	5.0	4.9	4.0	5.2	4.3	4.71	3.9	4.41			
Mining and utilities	-4.9	-5.2	-5.0	-5.9	-6.9	-6.1	-7.3	-8.5	-7.4	-5.7	-7.41	-5.7	-2.81			

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Not seasonally adjusted, 1977 = 100

Major Industry Groupings	SIC Code	1977	1986	1986												1987		
		Pro-tion	Ann.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		
MINING AND UTILITIES		15.79	103.4	110.8	104.5	101.1	98.5	102.1	102.1	103.8	101.9	99.1	101.4	102.5	106.4	107.6		
MINING		9.83	99.6	106.5	103.2	99.7	98.2	97.9	93.8	97.4	96.6	97.4	99.1	97.9	98.5	100.1		
UTILITIES		5.36	109.6	117.9	106.7	103.4	98.9	109.1	115.9	114.5	110.6	101.9	105.2	110.0	119.4	119.9		
MANUFACTURING		184.21	129.1	127.5	126.6	128.1	127.9	131.6	127.3	132.3	134.0	133.4	130.0	126.1	126.3	130.7		
NONDURABLE		135.11	130.9	126.4	125.4	127.9	128.8	134.7	131.5	137.7	138.1	137.0	132.3	127.7	127.4	131.9		
DURABLE		49.10	127.9	128.3	127.5	128.2	127.2	129.3	124.3	128.3	131.2	130.8	128.4	125.0	125.6	129.7		
Mining																		
Metal mining	101	.50		77.8	77.8	79.4	79.5	72.3	68.1	69.8	69.6	67.7	64.8					
Coal	11,121	1.60	124.2	129.2	131.8	124.4	121.9	128.0	109.0	132.2	125.2	125.3	128.7	114.4	122.9			
Oil & gas extraction	134	7.07	94.7	103.3	98.3	94.1	92.7	91.0	90.4	89.4	90.2	90.7	92.8	95.1	94.6	93.0		
Stone & earth minerals	144	.66	113.9	107.8	105.0	115.3	114.7	117.8	111.9	118.8	116.6	124.3	120.7	112.2	102.4			
NONDURABLE MANUFACTURES																		
Foods	201	7.96	133.6	126.6	126.6	128.7	130.9	137.9	136.3	142.7	142.7	139.4	134.5	131.0	128.5			
Tobacco products	211	.62	96.6	102.5	95.1	99.4	108.6	85.8	103.2	93.9	108.6	99.7	73.3					
Textile mill products	221	2.29	113.2	111.0	109.5	112.2	118.4	117.4	103.0	120.3	121.1	122.9	118.6	105.7	110.9			
Apparel products	231	2.79	103.6	100.8	102.5	101.5	101.9	104.7	100.4	106.7	106.4	106.5	104.6	105.7	103.3			
Paper & products	261	3.15	136.4	136.8	136.7	137.6	133.2	140.3	129.9	139.3	137.9	142.4	137.6	131.1	140.6			
Printing & publishing	271	4.58	163.4	149.6	150.0	154.8	156.4	166.8	173.1	181.5	178.2	176.7	167.7	159.6	154.4	161.8		
Chemicals & products	281	8.05	133.0	129.7	127.8	132.6	132.1	137.9	137.1	135.9	139.8	136.3	131.4	130.2	129.0			
Petroleum products	291	2.40	92.1	84.8	82.9	88.2	95.6	95.9	95.2	97.8	96.4	92.2	94.1	93.6	89.4	88.3		
Rubber & plastics prod.	301	2.80	153.3	156.5	152.7	149.5	150.8	155.9	146.9	156.9	160.5	162.1	156.4	150.0	150.9			
Leather & products	311	.53	61.3	67.0	64.8	62.1	60.7	58.7	53.8	63.3	60.4	62.4	62.5	55.6	57.5			
DURABLE MANUFACTURES																		
Lumber & products	201	2.30	123.4	116.6	120.1	122.5	122.5	126.8	117.9	130.5	131.4	131.8	127.8	120.5				
Furniture & fixtures	251	1.27	146.7	149.7	143.5	143.2	141.2	147.2	139.2	152.8	152.9	153.8	150.2	148.8	144.6			
Clay, glass, stone prod.	321	2.72	120.2	113.3	116.6	121.8	121.4	124.7	120.8	125.4	125.3	124.1	122.4	115.5	114.3			
Primary metals	331	5.33	75.8	82.3	81.7	88.4	80.4	76.8	68.7	69.8	72.6	72.6	72.9	67.9	70.6	75.4		
Iron & steel	331,21	3.99	63.4	70.4	69.3	72.6	66.9	64.2	59.1	57.4	59.3	59.4	59.8	53.9	56.1			
Fabricated metal prod.	341	6.46	107.4	108.3	107.4	107.7	106.2	108.4	104.3	107.4	110.4	109.6	106.9	107.3	104.6	108.9		
Nonelectrical machinery	351	9.54	141.9	142.3	140.4	136.8	138.4	143.8	145.6	149.0	148.2	148.3	139.7	134.8	134.5	138.6		
Electrical machinery	361	7.15	166.5	164.1	164.8	166.2	163.3	162.0	166.9	173.3	170.9	167.8	167.2	167.9				
Transportation equip.	371	9.13	125.8	129.5	126.6	129.3	127.4	130.3	114.7	117.8	127.3	128.8	126.9	123.6	128.1	134.5		
Motor vehicles & pts.	3711	5.25	110.9	119.9	113.9	117.9	114.5	120.0	95.3	98.7	111.9	113.5	108.7	101.1	111.4	122.9		
Aerospace & misc.	372-6,91	3.87	146.1	142.6	143.9	144.7	148.9	144.3	140.9	143.8	148.1	149.5	151.6	154.0	150.9	150.2		
Instruments	381	2.66	141.3	139.2	140.4	139.8	138.6	142.6	143.1	145.1	145.4	141.7	140.8	141.2	138.6	139.7		
Miscellaneous mfrs.	391	1.46	99.3	100.3	97.6	96.3	99.2	100.3	97.6	104.0	105.7	103.4	97.9	96.6	95.0			
UTILITIES																		
Electric		4.17	122.2	127.4	114.1	112.6	109.2	125.7	135.7	133.0	127.8	114.8	116.9	121.8	132.8			

Table 3B
INDUSTRIAL PRODUCTION: HISTORICAL DATA

Seasonally adjusted, 1977 = 100

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q I	Q II	Q III	Q IV	ANNUAL
INDEX																	
72	83.8	84.4	85.1	86.5	86.3	86.5	86.4	87.6	88.5	89.8	90.9	91.8	84.4	86.4	87.5	90.8	87.3
73	91.8	93.1	93.1	93.4	93.8	94.5	95.1	95.1	95.8	96.1	96.2	94.7	92.7	93.9	95.3	95.7	94.4
74	93.3	93.0	93.4	93.2	94.3	94.6	94.2	93.9	94.2	93.6	90.9	87.1	93.2	94.1	94.1	90.5	93.0
75	84.8	83.5	82.0	82.7	82.5	83.6	84.1	85.6	86.4	86.9	87.7	88.4	83.4	82.9	85.3	87.6	84.8
76	89.3	90.9	90.7	91.1	92.1	92.2	92.7	93.2	93.5	93.9	95.4	96.2	90.3	91.8	93.2	95.2	92.6
77	96.5	97.2	98.0	99.0	99.6	100.1	100.7	101.0	101.4	101.8	102.1	102.1	97.3	99.7	101.0	102.0	100.0
78	101.6	101.1	103.0	105.5	105.8	108.9	107.5	107.7	108.3	109.2	109.9	110.8	102.1	106.1	107.9	110.0	106.5
79	110.3	110.9	111.2	109.9	110.9	110.5	110.2	110.4	111.0	111.0	111.0	111.0	110.8	110.6	110.4	111.0	110.7
80	111.3	111.4	111.4	109.1	106.2	105.0	104.8	106.3	107.7	108.5	110.7	111.0	111.4	106.8	106.3	110.1	108.6
81	111.0	111.2	111.6	110.6	111.2	112.0	113.4	112.8	111.5	110.8	109.0	107.4	111.2	111.3	112.5	108.9	111.0
82	107.0	105.8	104.5	103.6	103.0	102.5	102.0	101.3	100.5	100.6	100.5	106.1	103.7	102.0	100.6	103.1	
83	102.5	103.3	104.2	105.6	106.9	107.8	109.8	111.6	113.7	114.4	114.8	115.5	103.3	106.8	111.7	114.9	109.2
84	118.5	119.3	119.9	120.5	121.0	121.9	122.8	123.0	122.4	122.1	122.7	122.7	119.3	121.1	122.7	122.5	121.4
85	122.7	123.2	123.4	123.3	123.6	123.6	123.4	124.4	124.3	123.6	124.8	125.6	123.1	123.5	124.0	124.7	123.8
CHANGE*																	
72	2.2	0.7	0.8	1.6	-0.2	0.2	-0.1	1.4	1.0	1.5	1.2	1.0	3.8	2.4	1.3	3.8	9.7
73	0.0	1.4	0.0	0.3	0.4	0.7	0.6	0.0	0.7	0.3	0.1	-1.6	2.1	1.3	1.5	0.4	8.1
74	-1.5	-0.3	0.4	-0.2	1.2	0.3	-0.4	-0.3	0.3	-0.6	-2.9	-4.2	-2.6	1.0	0.0	-3.8	-1.5
75	-2.6	-1.5	-1.8	0.9	-0.2	1.3	0.6	1.8	0.9	0.6	0.9	0.8	-7.8	-0.6	2.9	2.7	-8.8
76	1.0	1.8	-0.2	0.4	1.1	0.1	0.5	0.5	0.3	0.4	1.6	0.8	3.1	1.7	1.5	2.1	9.2
77	0.3	0.7	0.8	1.0	0.6	0.8	0.3	0.3	0.4	0.4	0.3	0.0	2.2	2.5	1.3	1.0	8.0
78	-0.5	0.0	2.4	-0.3	1.0	0.1	0.6	0.2	0.6	0.8	0.6	0.8	0.1				

Table 4A
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES
Seasonally adjusted, 1977 = 100

Series	SIC Code	1977		1986		1987											
		Pro- portion	Ann. Avg.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
METAL MINING	10	.50		73.5	77.2	75.9	76.0	72.0	65.9	69.2	70.9	70.7	68.5	68.3			
Iron ore	101	.15	70.7	76.7	83.8	82.0	82.7	84.3	56.0	58.5	59.2	69.1	61.9	62.3	73.4		
Nonferrous ores	102-6,8,9	.35	72.3	74.3	74.5	72.6	71.5	68.9	72.1	75.6	74.7	72.0	71.0	69.2	72.6		
Copper ore	102	.15	83.3	84.5	81.6	80.5	80.6	80.4	83.3	86.1	89.4	86.8	83.0	80.6	84.4		
Lead and zinc ores	103	.05	57.9	73.4	69.3	67.9	63.0	59.4	51.1	56.3	49.3	52.2	51.6	47.0	52.4		
Gold and silver ores	104	.02	167.3	160.7	171.8	156.9	151.3	157.7	170.0	162.8	175.7	163.7	169.0	187.6			
Peroalloy ores	106	.04	79.4	87.1	96.8	89.4	71.3	75.5	80.3	89.3	77.3	68.1	73.6	69.3	77.2		
ANTHRACITE	111	.02	65.9	68.8	72.8	65.6	75.3	62.6	63.8	55.0	59.6	61.9	72.8	74.9	60.9	76.9	
BITUMINOUS	121	1.58	124.9	132.0	127.2	124.2	124.3	122.5	128.7	121.0	122.8	121.4	117.7	133.1	124.6	135.3	
OIL AND GAS EXTRACTION	131	7.07	94.7	104.9	101.1	99.2	96.2	95.1	93.3	92.4	90.7	91.0	90.5	90.4	91.2		
Crude oil & natural gas	131	5.62	97.4	100.5	98.7	99.4	98.0	99.0	97.9	97.5	95.3	96.2	95.5	94.4	96.6	96.1	
Crude oil, total	3-46	105.7	108.9	107.6	108.2	106.8	107.5	106.4	106.6	104.6	105.1	103.9	102.0	102.2	100.8		
Texas crude	1-34	73.7	79.2	76.3	77.0	75.4	76.2	73.7	73.1	71.5	70.6	70.7	70.1	70.7	70.2		
Alaska, Calif. crude	1-57	209.6	208.6	209.1	209.7	212.9	214.1	211.1	211.1	206.4	207.5	211.0	205.9	208.4	202.8		
La. and other crude	1-54	95.0	97.5	97.2	97.5	94.6	95.1	95.8	96.9	94.3	97.0	92.9	91.0	90.1	89.5		
Natural gas	2-16	84.1	87.2	84.3	85.4	83.9	85.3	84.4	82.9	81.4	82.1	82.1	82.4	87.6			
Natural gas liquids	132	.47	96.2	104.6	103.7	99.3	97.3	101.1	97.7	96.8	92.4	90.6	90.9	90.7	90.5		
Propane	1	.05	98.9	106.8	105.0	102.3	98.0	98.6	97.3	96.6	93.3	96.2	95.2	97.4	99.2		
Liquefied petroleum	4-21	95.9	104.3	103.6	98.9	97.2	101.3	97.7	96.9	92.3	89.9	90.4	89.9	89.5			
Oil & gas well drilling	138	.99	77.7	130.5	113.2	96.4	76.5	67.8	60.9	58.4	60.8	62.0	64.9	67.4	67.9	66.8	
FOODS	20	7.96	133.6	132.0	132.9	132.2	133.1	133.7	134.6	134.3	135.1	134.3	133.7	134.4	134.7	135.1	
Meat products	201	1.06	120.6	121.2	122.7	119.4	127.7	121.7	121.9	122.1	118.3	120.3	115.6	116.5	121.0	121.7	
Beef	1-43	96.7	95.8	93.5	94.1	106.4	100.1	99.4	101.6	98.1	94.7	92.0	92.5	93.1	96.1		
pork	1-25	107.2	110.9	114.3	108.2	113.4	108.4	104.3	106.5	104.2	104.9	104.0	102.5	104.8	111.2		
Poultry	1-20	150.6	147.0	154.5	145.5	152.7	146.6	151.4	146.7	142.9	156.6	145.2	153.6	166.6			
Misc. meats	1-18	163.6	168.7	169.4	167.2	171.8	163.6	168.1	166.1	159.4	163.5	155.8	152.3	159.7	156.0		
Dairy products	202	.80	130.4	133.9	133.9	132.8	132.6	132.0	130.0	129.7	130.3	127.9	126.4	126.0	127.4	126.0	
Butter	2021	.01	111.0	117.6	120.7	121.7	116.4	117.0	108.9	106.5	104.3	108.4	96.0	106.3	104.2	96.5	
Cheese	2022	.13	155.6	156.9	158.2	157.6	156.1	155.9	150.3	157.0	158.6	160.4	155.1	148.6	154.0	152.3	
Concentrated milk	2023	.11	137.4	152.3	153.1	148.3	145.1	142.4	137.5	130.4	131.5	128.4	118.1	121.7	131.6	120.3	
Frozen desserts	2024	.09	145.4	144.7	145.1	142.5	147.9	145.5	146.2	144.8	150.3	135.5	146.3	147.4	143.7	146.3	
Canned and frozen food	203	1.09	148.7	147.7	143.4	145.0	147.4	150.2	146.2	149.3	153.2	150.1	143.7	151.0	157.5	153.3	
Grain mill products	204	.94	135.1	132.2	133.9	130.5	134.3	135.0	135.9	136.5	136.4	131.1	135.5	140.5	141.0	135.5	
Flour	2041	.12	123.2	115.2	122.5	111.6	116.3	117.0	121.8	120.1	132.0	124.6	126.0	145.4	126.1	120.0	
Bakery products	205	1.00	133.2	137.3	133.0	133.2	129.9	133.1	131.8	134.5	135.1	138.1	130.3	130.0	132.8		
Beverages	208	1.41	129.2	122.1	129.3	126.6	127.7	130.5	135.2	132.3	130.4	129.5	125.6	133.0	127.9	127.7	
Beer and ale	2082,3	.38	115.2	116.0	119.8	115.6	115.4	115.0	117.1	108.0	113.5	111.0	114.6	121.6	117.6		
Wine and brandy	2084	.07	115.9	116.2	164.7	191.8	207.1	208.7	223.2	182.8	204.7						
Soft drinks	2086,7	.79	139.3	129.3	138.5	138.2	137.4	140.2	146.6	142.3	141.5	140.4	134.6	144.3	135.6	138.3	
Liquors	2085	.16	84.7	86.6	80.3	81.0	86.2	90.1	100.4	92.8	87.5	83.1	86.7				
Fats and oils	207	.27	121.2	121.7	116.7	119.8	125.3	117.8	121.5	124.9	119.2	121.0	124.4	121.8	120.0	122.7	
Coffee & misc. foods	209	.79	145.5	147.1	147.3	145.0	142.4	142.7	142.7	141.2	149.2	146.5	147.0	148.6	145.8	150.4	
TOBACCO PRODUCTS	21	.62	96.6	93.8	97.0	93.6	100.3	101.6	97.6	97.9	97.1	89.8	100.1	96.8	95.6		
Cigarettes	211	.54	97.9	90.9	99.4	92.2	106.5	97.3	99.4	97.2	90.6	103.1	98.3	96.6			
Cigars	212	.02	70.7	64.9	63.6	61.0	75.8	87.0	72.7	75.2	69.1	71.7	64.6	77.5			
TEXTILE MILL PRODUCTS	22	2.29	113.2	107.9	109.9	108.0	111.4	111.3	112.6	113.4	114.7	116.0	116.1	117.8	118.5	117.3	
Fabrics	221-4	.77	110.3	110.6	108.2	106.5	108.5	107.7	109.4	109.4	107.1	114.6	112.4	116.8	117.8	111.5	
Cotton fabrics	221	.28	130.6	123.5	124.4	124.0	127.2	126.0	129.1	127.7	135.4	136.7	133.2	138.4	143.4	131.9	
Synthetic fabrics	222	.40	101.5	99.6	100.3	97.9	100.3	101.1	101.0	102.6	92.5	105.9	103.3	108.3	107.6	103.8	
Knit goods	225	.55	106.3	103.7	106.4	101.6	109.6	107.2	106.9	101.6	110.6	103.9	109.8	109.2	106.0	107.4	
Hosiery	2251,21	.12	155.0	153.6	152.8	144.6	167.0	150.5	150.8	129.0	171.2	152.1	166.5	179.9	148.1		
Knit garments	2253,4,7-9	.43	92.4	89.5	93.1	89.3	93.1	94.8	94.3	93.7	93.2	90.1	93.6	89.0	94.0	91.0	
Fabric finishing	226	.20	85.7	88.1	89.3	84.7	84.6	86.5	83.1	92.6	81.8	85.4	84.6	85.9	83.5		
Carpeting	227	.22	148.7	157.7	141.2	134.1	136.6	137.3	140.8	153.9	157.1	151.4	153.1	165.0	161.2	174.8	
Yarns & misc. text.	228,9	.55	120.0	110.3	116.5	112.5	111.7	116.1	121.1	126.4	126.6	120.5	126.9	133.7	125.1		
APPAREL PRODUCTS	23	2.79	103.6	105.5	102.8	102.8	103.1	102.6	101.7	102.5	102.5	102.7	104.2	105.1	106.9	107.3	
LUMBER AND PRODUCTS	24	2.30	123.4	120.5	120.3	120.7	121.3	121.6	120.9	120.8	122.5	125.0	125.9	129.5	132.9		
Logging and lumber	241,21	1.05	111.8	106.7	108.6	110.2	104.7	110.2	107.3	101.6	114.9	115.1	112.7	126.3	126.9	124.7	
Lumber products	243,5,9	.12	125.3	133.1	133.0	128.3	129.4	135.5	131.3	131.4	136.5	133.2	132.7	134.5	135.2	137.7	
Hillwork & plywood	243	.67	161.7	158.1	151.3	153.7	164.5	159.1	160.6	167.9	160.9	164.2	164.4	165.4	170.6		
Manufactured homes	245	.25	88.3	98.6	96.0	90.4	89.9	86.9	83.5	85.0	84.3	84.7	86.3	89.5	90.4	88.0	
FURNITURE AND FIXTURES	25	1.27	146.7	141.2	143.2	142.9	145.9	146.2	147.1	149.5	148.3	147.7	149.2	148.6	150.2	148.2	
Household furniture	251	.74	119.2	118.6	118.8	115.6	117.4	119.3	117.2	120.9	118.4	117.9	121.9	121.3	123.3	119.6	
Fixt., office furn.	252,4,9	.47	192.7	185.3	184.5	188.3	194.8	198.4	192.1	194.5	191.3	195.1	197.7	199.5	191.0		
PAPER AND PRODUCTS	264	3.15	136.4	133.6	132.6	132.4	134.1	132.2	137.2	138.1	138.6	136.9	137.8	139.5	141.4	141.0	
Pulp and paper	261-3	1.33	126.2	124.0													

Table 4B
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES
Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977		1986		1987											
		Proportion	Ann. Avg.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
METAL MINING	10	.50	69.9	77.8	77.8	79.4	79.5	72.3	68.1	69.8	69.6	67.7	64.8				
Iron ore	101	.151	70.7	60.7	81.5	82.9	95.9	102.7	69.3	65.5	65.7	58.7	49.7	49.7			
Nonferrous ores	102-6,8,9	.351	72.3	73.8	76.2	75.7	72.4	69.7	73.6	69.2	71.6	71.3	71.6	71.2	71.6		
Copper ore	1021	.151	83.3	83.6	83.0	84.5	82.3	81.0	86.1	80.0	82.9	85.5	84.6	84.3	81.9		
Lead and zinc ores	1031	.051	57.9	74.5	74.8	72.1	62.6	58.0	49.9	51.2	48.4	51.7	53.6	46.5	51.4		
Gold and silver ores	1041	.021	167.3	147.8	164.4	159.6	155.0	153.0	180.6	159.6	178.1	171.1	171.1	186.0			
Ferroalloy ores	1061	.041	79.4	82.2	95.4	92.5	72.7	83.4	83.7	77.8	81.0	68.3	75.6	71.2	68.7		
ANTHRAZITE	111	.021	65.9	58.9	62.9	64.4	60.5	59.2	62.7	56.6	68.6	66.1	83.1	82.7	65.5	65.9	
BITUMINOUS	121	1.581	124.9	121.5	129.9	132.5	125.1	122.6	128.8	109.6	132.9	125.9	125.7	129.2	115.0	123.6	
OIL AND GAS EXTRACTION	131	7.071	94.7	108.3	103.3	98.3	94.1	92.7	91.0	90.4	89.4	90.2	90.7	92.8	95.1	94.6	
Crude oil & natural gas	1311	5.621	97.4	102.6	101.2	99.7	97.8	97.5	96.6	96.1	94.1	95.3	95.0	94.9	98.3	98.3	
Crude oil, total	1312	3.461	105.7	108.3	108.3	106.7	107.3	106.2	106.3	103.9	105.2	104.3	102.2	101.7	100.3		
Texas crude	1313	1.381	73.7	78.5	76.7	77.6	75.9	76.4	73.6	72.7	71.0	70.7	70.5	70.4	70.4	69.6	
Alaska, Calif. crude	1314	.571	209.6	210.1	210.3	210.4	212.2	213.2	211.4	212.2	206.0	207.7	211.3	204.1	206.7	204.2	
La. and other crude	1315	1.581	95.0	96.4	97.9	97.0	94.3	94.8	95.4	96.2	94.5	97.2	94.0	92.0	90.0	88.5	
Natural gas	1316	2.161	84.1	93.5	89.9	85.9	83.5	81.9	81.4	79.9	78.6	79.3	80.0	83.1	92.8		
Natural gas liquids	1321	.471	96.2	104.5	104.3	98.9	95.6	98.1	95.9	96.7	93.3	90.7	90.8	93.8	92.1		
Propane	1322	.051	98.9	111.0	108.8	102.3	98.0	98.6	95.5	94.1	91.2	93.5	93.7	99.2	100.8		
Liquefied petroleum	1323	.421	95.9	103.8	103.8	98.5	95.4	98.1	96.0	97.0	93.6	90.4	90.5	93.2	91.1		
Oil & gas well drilling	1381	.991	77.7	114.7	114.4	90.5	72.2	62.4	56.5	55.2	58.9	61.1	66.5	73.2	78.7	73.7	
FOODS	201	7.961	133.6	125.7	126.6	128.7	130.9	137.9	136.3	142.7	142.7	139.4	134.5	131.0	128.5		
Meat products	2011	1.061	120.6	120.7	118.4	118.9	127.0	120.6	121.8	116.0	119.5	123.5	125.1	118.2	117.0	121.1	
Beef	2012	.431	96.7	98.1	92.2	90.3	100.9	98.7	101.1	98.5	101.4	98.0	98.5	92.2	90.6	98.4	
Pork	2013	.251	107.2	111.4	110.1	112.1	118.4	108.6	101.8	93.5	97.1	104.2	112.5	109.0	107.3	111.7	
Poultry	2014	.201	150.6	138.8	143.4	139.8	152.0	149.4	159.4	149.2	153.1	163.3	159.0	149.8	149.5		
Misc. meats	2015	.181	163.6	168.6	165.9	174.5	174.3	158.1	157.5	152.9	157.1	168.0	169.3	159.0	158.4	156.0	
Dairy products	2021	.801	130.4	125.5	131.7	136.0	141.3	144.1	144.8	134.7	129.4	123.4	118.3	115.8	119.1	117.9	
Butter	2022	.011	111.0	143.1	142.9	134.7	133.6	124.3	105.4	85.8	81.0	87.0	89.1	98.4	106.4	117.4	
Cheese	2023	.131	155.6	149.4	154.8	162.2	167.1	168.5	166.3	154.1	149.0	150.3	149.2	144.1	152.8	145.0	
Concentrated milk	2024	.111	137.4	144.7	151.9	153.2	166.4	167.0	164.0	141.8	125.0	111.2	100.8	101.2	121.5	114.3	
Frozen desserts	20241	.091	145.4	110.7	128.4	144.7	151.1	166.8	185.8	177.7	177.0	146.8	131.0	119.5	108.2		
Canned and frozen food	2031	1.091	148.7	132.2	134.6	136.5	134.3	140.2	147.2	151.6	168.5	178.4	165.3	150.7	144.7	137.2	
Grain mill products	2041	.941	135.1	113.0	132.2	128.7	129.8	130.9	136.3	136.0	141.9	137.6	137.7	139.2	140.2	134.3	
Flour	20411	.121	123.2	113.4	129.1	114.6	112.9	115.2	119.6	113.2	135.6	130.5	130.3	142.7	121.4	118.2	
Bakery products	2051	1.001	133.2	126.1	121.9	121.0	124.6	126.3	139.8	144.9	149.2	150.4	142.2	128.1	123.5	122.0	
Beverages	2081	1.441	129.2	111.5	118.7	120.6	126.3	131.7	147.4	141.3	142.8	138.4	128.9	127.1	115.1	116.6	
Beer and ale	20821	.381	115.2	105.7	116.2	118.1	126.0	128.1	136.3	123.3	122.0	106.9	105.0	101.1	93.9		
Wine and brandy	20841	.071	132.5	156.6	170.0	190.0	206.0	225.4	195.7	192.0	200.0						
Soft drinks	20861	.791	139.3	119.6	124.9	125.7	130.0	136.5	155.9	156.9	159.0	157.0	137.9	141.0	126.6	128.0	
Liquors	20851	.161	76.3	77.7	80.6	80.6	83.9	98.2	84.6	91.9	95.7	101.9	93.4				
Fats and oils	2071	.271	121.2	124.1	121.4	122.3	120.7	115.2	119.4	113.6	112.9	118.0	110.4	130.0	126.0	125.5	
Coffee & misc. foods	2091	.791	145.5	141.4	140.0	135.1	134.0	139.7	142.2	145.7	161.1	152.8	151.0	150.7	152.3	144.1	
TOBACCO PRODUCTS	211	.621	96.6	94.6	102.5	95.1	99.2	94.9	108.6	85.8	103.2	93.9	108.6	99.7	73.3		
Cigarettes	2111	.541	97.9	96.6	104.7	97.1	101.9	96.4	110.1	86.9	104.4	94.4	110.0	100.7	71.0		
Cigars	2121	.021	70.7	64.1	66.6	65.8	72.6	88.8	75.5	59.3	74.1	77.7	74.3	79.3			
TEXTILE MILL PRODUCTS	221	2.291	113.2	102.0	111.0	109.5	112.2	114.4	117.4	103.0	120.3	121.1	122.9	118.6	105.7	110.9	
Fabrics	2211	.771	110.3	106.7	113.1	110.0	110.3	111.8	110.7	95.0	110.3	116.2	120.0	117.7	101.8	111.4	
Cotton fabrics	2212	.281	130.6	123.7	129.8	128.5	129.8	131.9	128.5	109.9	140.8	138.0	144.2	139.8	121.9	132.2	
Synthetic fabrics	2221	.401	101.5	100.3	106.0	101.8	102.1	103.8	102.8	88.1	94.6	107.1	110.0	109.1	91.8	104.5	
Knit goods	2251	.551	106.3	88.9	101.2	99.0	108.7	108.1	117.8	106.7	119.3	113.4	112.5	105.3	94.8	92.3	
Hosiery	22511	.121	155.0	114.7	154.3	151.3	178.6	151.8	160.6	144.3	159.3	148.0	164.4	168.0	132.7		
Knit garments	2253,4,7-91	.431	92.4	72.3	86.1	84.1	88.7	95.6	105.5	96.0	107.9	103.5	97.6	87.3	84.0	73.5	
Fabric finishing	2261	.201	85.7	85.3	94.7	91.1	89.3	90.9	85.6	67.5	84.9	84.9	90.4	88.0	75.6		
Carpeting	2271	.221	148.7	122.9	127.9	139.3	148.8	143.4	148.4	152.4	151.3	167.7	171.6	165.7	144.5	136.1	
Yarns & misc. text.	228,91	.551	120.0	106.5	116.8	118.1	112.3	121.5	125.8	103.9	135.9	130.3	129.9	125.8	117.7	121.6	
APPAREL PRODUCTS	231	2.791	103.6	101.4	100.8	102.5	101.5	101.9	104.7	100.4	106.7	106.5	104.6	105.7	103.3		
LUMBER AND PRODUCTS	241	2.301	123.4	112.4	116.6	120.1	122.5	122.5	126.8	117.9	130.5	131.4	131.8	127.8	120.5		
Logging and lumber	2411	1.051	111.8	98.0	106.2	109.4	105.5	108.7	115.3	100.3	120.1	123.3	121.0	121.5	112.2	115.1	
Lumber products	243-5,91	1.251	133.1	112.4	125.3	129.0	136.7	134.1	136.8	132.7	139.2	138.2	140.8	133.0	127.9		
Millwork & plywood	2431	.671	161.7	151.6	146.9	151.2	163.0	160.7	164.9	163.9	168.3	170.9	173.0	164.2	161.3		
Manufactured homes	2451	.251	88.3	76.8	87.7	91.5	97.9	96.0	96.6	83.2	97.2	92.1	94.9	81.4	64.9	68.9	
FURNITURE AND FIXTURES	251	1.271	146.7	138.5	149.7	143.5	143.2	141.2	147.2	139.2	152.8	152.9	153.8	150.2	148.8	144.6	
Household furniture	2511	.741	119.2	113.2	125.2	118.0	117.0	115.9	119.5	107.6	122.4	123.3	124.5	122.1	121.2	114.1	
Fixt., office furn.	252,4,91	.471	192.7	180.3	192.0	186.6	187.2	183.7	193.4	191.1	203.2	202.2	196.5	193.9	185.8		
PAPER AND PRODUCTS	261	3.151	136.4	133.6	136.8	136.7	137.6	133.2	140.3	129.9	139.3	137.9	142.4	137.6	131.1	140.6</td	

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977		1986		1986												1987 JAN
		Pro- por- tion	Avg.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
PRINTING & PUBLISHING	271	4.54	163.4	160.9	156.7	157.8	161.6	161.9	164.0	165.4	164.6	163.0	167.8	168.5	167.6	169.5		
Newspapers	271	1.35	139.9	140.2	135.0	135.5	137.4	139.2	144.2	145.9	144.4	141.5	140.7	139.2	137.7	144.0		
Period. books, cards	272,3,71	1.24	156.5	159.1	151.8	152.4	154.9	156.8	156.1	156.7	158.6	150.2	159.8	162.5	159.4	158.7		
Job printing	274-6,8,91	1.95	184.1	177.3	175.9	178.1	182.5	179.6	183.6	185.3	182.9	183.8	193.4	191.3	193.9	195.3		
CHEMICALS & PRODUCTS	281	8.05	133.0	131.7	132.0	130.2	132.8	131.5	134.2	134.1	134.4	133.9	133.9	132.3	134.2	135.9		
Chemicals & syn. mat.	281,2,61	3.86	123.3	123.6	121.7	119.5	120.1	121.6	122.5	123.8	124.1	125.3	125.9	124.7	126.4	130.6		
Basic chemicals	2811	.92	99.5	102.4	103.2	95.5	95.2	100.7	98.4	98.2	97.4	103.1	101.2	97.8	101.4	107.0		
Alkalies & chlorine	28121	-121	97.5	98.2	96.3	99.8	95.8	96.5	97.8	98.9	100.8	99.0	93.5	93.4	100.6	103.6		
Industrial Gases	28131	-101	131.8	131.1	129.7	124.6	125.3	110.4	126.2	129.7	139.1	139.8	140.7	140.1	146.1	145.7		
Inorganic pigments	28161	.081	100.6	107.8	100.5	99.3	96.9	107.9	92.1	106.2	99.7	93.6	100.1	94.1	113.5	115.2		
Inorganic chem, nec	28191	.62	94.3	97.7	100.4	89.3	89.8	98.9	94.7	91.8	89.4	99.0	96.1	92.0	92.5	100.1		
Acids & other chem.	2811	.40	95.6	100.2	104.6	87.7	88.5	102.8	95.9	91.0	87.4	103.0	99.3	92.9	93.8	104.6		
Synthetic materials	2821	1.11	163.0	163.3	157.6	157.5	158.8	157.5	158.9	165.6	165.5	165.8	168.0	165.5	174.9	179.6		
Plastics materials	28211	.59	220.9	221.6	207.5	210.3	213.3	211.3	216.5	224.5	226.0	223.7	229.8	229.6	241.2			
Synthetic rubber	28221	.081	96.5	99.6	107.2	111.5	104.6	105.2	101.6	91.9	91.2	87.8	71.2	77.1				
Synthetic fibers	28231	.44	98.5	97.6	100.8	96.1	95.3	95.9	92.4	99.3	98.8	102.8	100.8	97.8	105.0	102.0		
Indust. organic chem.	2861	1.83	111.2	110.1	109.2	108.4	109.0	110.2	112.4	111.2	112.4	111.8	112.7	113.5	113.7	112.7		
Chemical products	283-5,9	3.65	150.1	147.4	148.2	143.0	155.0	150.8	151.6	156.2	150.4	148.2	150.9	148.8	149.9	150.3		
Drugs & medicines	2831	1.41	135.2	129.2	131.8	127.8	141.4	134.7	135.8	138.6	135.8	134.4	139.1	135.0	137.5	136.2		
Soap & toiletries	2841	1.34	188.6	184.3	185.1	179.9	193.9	191.7	193.4	201.3	187.5	185.8	186.7	185.9	187.6	187.9		
Paints	2851	.401	100.3	102.7	102.6	98.1	108.6	102.3	98.0	101.3	101.1	98.0	98.7	96.9	93.7	98.3		
Agricultural chemicals	2871	.54	85.6	82.5	88.3	88.9	89.6	90.8	85.7	80.9	78.7	86.4	87.1	82.8	84.2	87.3		
PETROLEUM PRODUCTS	291	2.40	92.1	94.7	90.1	88.6	91.3	95.7	91.8	90.6	94.0	93.3	91.1	92.0	92.6	96.0		
Petroleum refining	291,9	2.21	91.0	91.5	88.2	86.2	90.9	94.8	91.1	90.1	93.8	91.9	90.0	91.0	91.8	94.0		
Automotive gasoline	1	.96	96.0	94.5	92.5	89.3	95.3	100.8	97.4	96.0	100.3	96.1	96.6	96.7	96.5			
Distillate fuel oil	1	.43	85.1	86.8	79.6	86.1	92.2	89.5	81.7	80.9	87.0	86.5	81.3	85.3	85.9			
Residual fuel oil	1	.15	50.6	49.6	46.2	54.9	52.4	54.4	49.4	51.9	55.9	50.8	47.5	53.8	49.9			
Aviation fuel & keros.	1	.181	119.7	126.8	125.7	117.7	111.6	113.4	117.3	117.7	117.3	120.2	120.3	119.3	126.8			
Misc. petroleum prod.	1	.48	88.3	89.9	86.6	80.8	85.5	93.6	90.7	88.7	90.3	91.3	86.7	85.9	87.5			
Refinery fuel, nec	1	.091	122.4	128.8	122.8	117.0	120.5	124.4	122.0	118.9	128.1	124.3	122.6	119.4	120.8			
Refinery nonfuel mat.	1	.261	73.3	78.4	71.1	65.9	68.7	75.9	73.8	71.9	73.2	77.5	73.3	72.6	78.5			
Refinery products, nec	1	.131	95.0	86.6	92.7	85.8	94.9	107.7	102.9	101.5	98.5	96.1	89.1	89.6	82.8			
RUBBER & PLASTICS PROD.	301	2.80	153.3	150.2	151.1	147.8	146.8	150.1	152.2	155.5	155.5	154.9	157.6	159.0	159.6	159.5		
Tires	3011	.62	106.4	105.0	105.2	104.2	100.5	100.1	100.8	109.0	109.2	106.0	110.7	116.5	112.3			
Bub. prod. ex. tires	302-4,61	.51	123.4	121.7	125.7	121.5	108.9	122.9	123.6	125.6	127.6	128.1	125.8	123.5	127.0	125.6		
Plastics products, nec	3071	1.67	179.7	177.2	177.2	173.3	172.8	177.7	180.6	181.8	180.7	180.6	183.7	184.4	186.8	182.4		
LEATHER AND PRODUCTS	311	.53	61.3	65.4	64.8	62.7	61.5	59.5	57.9	61.9	62.0	59.4	60.2	61.3	59.5	59.0		
Pers. leather gds	313-5,7,91	.161	73.8	77.9	76.3	75.9	74.2	72.4	72.3	69.8	72.2	72.2	73.1	73.1	76.5	76.6		
Shoes	3141	.291	55.6	60.4	60.5	56.7	57.6	53.4	50.7	58.5	58.1	52.5	52.3	56.1	50.4	49.6		
CLAY, GLASS & STONE PROD.	321	2.72	120.2	120.0	119.3	120.0	121.6	120.2	120.8	119.6	119.7	121.6	118.1	120.6	121.7	123.0		
Pressed & blown glass	3221	.51	110.8	110.9	111.8	107.9	112.0	111.5	113.1	109.1	110.1	110.8	110.7	112.4	108.5	110.8		
Glass containers	32211	.301	95.7	96.2	95.4	94.0	97.0	95.2	97.0	96.4	93.4	96.1	93.8	95.5	90.5	97.3		
Cement	3241	.24	108.2	125.3	108.5	109.8	114.7	106.4	105.1	106.1	104.8	105.9	107.0	105.2	111.8			
Structural clay prod.	3251	.15	129.0	110.2	117.3	114.0	124.3	123.9	126.2	138.5	137.3	136.3	133.8	141.4	150.0	137.6		
Brick	32511	.071	92.9	94.3	92.0	86.3	94.6	87.9	90.9	99.8	90.1	91.9	98.9	92.0	97.7	97.6		
Clay sewer pipe	32591	.021	31.9	27.0	32.9	20.1	31.6	37.1	32.8	35.1	34.6	31.1	33.0	33.2	34.7	31.9		
Clay tile	3253,51	.071	191.8	148.9	165.8	167.5	179.4	183.8	187.1	205.7	212.8	209.6	196.5	220.6	234.0	206.6		
Concrete and misc.	326-91	1.55	123.2	124.6	121.9	124.3	124.9	123.7	121.9	122.2	124.7	119.0	123.6	125.0	125.0	125.7		
PRIMARY METALS	331	5.33	75.8	82.4	80.3	76.3	78.1	74.8	71.4	73.6	73.4	74.1	74.2	76.8	73.7	72.4		
Iron and steel	331,21	3.49	63.4	72.2	69.5	64.3	65.6	60.2	58.3	61.7	60.8	61.1	62.2	64.8	60.5	58.4		
Basic st. & mill prod.	3311	2.601	68.8	80.4	76.2	71.2	70.9	67.7	64.3	67.6	65.4	63.7	64.4	69.4	65.0	61.9		
Basic iron and steel	1	1.11	58.1	68.2	66.1	62.9	63.0	59.4	55.9	56.3	51.5	51.7	53.8	54.1	52.5	51.1		
Pig iron	1	.421	54.0	66.5	64.5	59.3	59.8	56.2	51.3	50.2	45.0	46.9	48.4	49.6	49.1	49.9		
Bar steel	1	.511	64.3	74.0	71.5	68.7	69.7	65.4	63.6	63.7	58.9	57.3	59.6	59.1	57.1	53.8		
Steel mill products	1	1.49	76.8	89.4	83.7	77.3	76.7	73.8	70.5	76.0	75.6	72.6	72.3	80.7	74.3	69.9		
Consumer dur. steel	1	.381	57.1	69.9	66.8	58.9	59.3	56.3	52.1	50.9	52.0	52.5	53.7	60.4	51.7	55.1		
Equipment steel	1	.361	40.2	51.0	46.2	43.6	40.4	38.7	36.3	37.8	41.3	38.6	35.4	37.7	37.2			
Construction steel	1	.191	73.1	82.8	76.7	71.1	74.0	72.4	70.6	77.6	67.4	67.7	73.1	67.0				
Cam & closure steel	1	.101	59.3	59.0	57.4	59.6	61.2	57.2	57.4	69.0	69.2	60.6	51.7	57.5	52.3			
Misc. steel	1	.461	126.7	144.5	135.4	125.1	123.6	119.0	115.0	127.3	122.6	121.7	122.4	138.9	129.3			
Iron & steel foundries	3321	.891	47.6	46.3	46.1	45.4	51.2	42.3	44.9	46.0	47.2	54.4	50.5	50.6	47.4	46.7		
Nonferrous metals	333-6,91	1.851	99.0	101.8	100.8	98.8	101.6	102.3	96.3	95.9	97.3	98.6	96.8	99.5	98.4	98.9		
Primary nonf. metals	3331	.511	80.9	87.6	83.0	84.7	83.3	85.4	77.0	76.8	81.1							

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1986	1986												1987 JAN
		Pro- por- tion	Ann. Avg.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PRINTING & PUBLISHING	27	4.54	163.4	146.6	149.6	150.0	154.8	156.4	166.8	173.1	181.5	178.2	176.7	167.7	159.6	154.4
Newspapers	271	1.35	139.9	126.2	133.5	136.4	142.4	143.1	142.3	131.2	136.5	143.1	151.4	152.5	140.8	129.6
Period. books,cards	272,3,7	1.24	156.5	147.4	145.9	142.6	145.6	148.7	159.6	169.7	180.3	169.0	163.3	156.5	149.1	147.0
Job printing	274-6,8,9	1.95	184.1	160.1	163.1	164.2	169.3	170.5	188.4	204.3	213.4	208.4	202.6	185.3	179.3	176.4
CHEMICALS & PRODUCTS	28	8.05	133.0	125.2	129.7	127.8	132.6	132.1	137.9	137.1	135.9	139.8	136.3	131.4	130.2	129.0
Chemicals & syn. mat.	281,2,6	3.86	123.3	119.9	124.0	122.3	122.7	122.0	124.4	120.3	120.9	127.2	125.7	124.4	126.2	126.5
Basic chemicals	281	.92	99.5	97.7	107.1	98.6	98.2	99.7	100.5	94.8	94.9	105.3	100.8	97.3	98.8	102.0
Alkalies & chlorine	2812	1.12	97.5	91.8	98.1	99.2	98.1	101.7	98.7	97.5	100.6	92.2	92.6	100.3	96.9	
Industrial Gases	2813	.10	131.8	127.0	133.1	128.3	129.5	111.9	127.7	125.3	137.6	141.0	137.7	140.0	141.9	141.2
Inorganic pigments	2816	.08	100.6	96.7	108.0	103.1	104.9	106.1	98.9	101.7	93.4	103.0	96.3	93.1	102.4	103.4
Inorganic chem., nec	2819	.62	94.3	94.0	104.4	92.9	91.8	97.2	96.0	88.1	87.4	100.4	96.8	91.5	90.9	96.2
Acids & other chem.	284	.40	95.6	94.6	111.8	93.0	91.6	99.5	97.9	85.4	84.7	105.7	99.8	91.9	90.8	98.8
Synthetic materials	2821	1.11	163.0	154.4	163.2	164.8	164.5	159.9	163.7	157.0	158.7	170.2	168.4	163.7	168.2	169.6
Plastics materials	2821	.59	122.0	20.7	215.2	223.1	221.5	215.2	224.2	212.9	216.7	231.7	230.6	226.5	227.9	
Synthetic rubber	2822	.08	96.5	101.2	106.6	112.0	112.4	105.6	103.9	95.0	84.6	91.1	91.0	77.5	76.8	
Synthetic fibers	2823,4	.44	98.5	96.2	104.7	97.2	98.5	96.7	94.4	94.2	95.3	103.1	100.1	96.3	105.8	100.5
Indust. organic chem.	2861	1.83	111.2	110.0	108.7	108.5	109.7	110.2	112.6	110.9	111.0	112.1	112.2	114.1	114.4	112.5
Chemical products	283-5,9	3.65	150.1	137.6	141.9	138.9	148.6	148.7	158.7	163.6	160.1	161.0	154.8	145.9	141.0	140.2
Drugs & medicines	283	1.41	135.2	118.3	120.2	119.5	133.7	130.4	145.1	152.4	147.4	149.9	144.0	132.5	128.3	124.7
Soap & toiletries	284	1.34	188.6	174.6	182.9	176.4	181.6	186.2	195.1	205.7	198.8	202.4	193.1	185.5	180.5	178.0
Paints	285	.40	100.3	84.5	96.7	101.8	119.5	117.3	121.1	107.5	110.4	101.3	94.8	81.1	67.9	80.6
Agricultural chemicals	2871	.54	85.6	79.9	88.3	91.7	94.3	91.3	85.4	77.4	76.0	86.3	86.9	83.9	85.2	84.5
PETROLEUM PRODUCTS	29	2.40	92.1	88.4	88.8	82.9	88.2	95.6	95.9	95.2	97.8	96.4	92.2	94.1	93.6	89.4
Petroleum refining	291,9	2.21	91.0	88.7	84.9	82.8	87.8	94.4	94.4	93.5	96.0	94.3	89.8	92.3	92.8	91.1
Automotive gasoline	1	.96	96.0	92.7	89.5	86.2	92.4	100.8	101.0	99.2	101.0	98.1	94.4	97.9	98.9	
Distillate fuel oil	1	.43	85.1	88.3	78.1	80.6	84.9	87.0	82.6	82.6	89.1	87.1	82.8	88.8	89.6	
Residual fuel oil	1	.15	50.6	53.3	48.9	46.2	52.9	52.1	46.7	48.5	51.2	48.8	47.2	55.6	56.4	
Aviation fuel & keros.	1	.18	119.7	127.0	119.5	107.6	108.9	115.1	117.8	117.3	120.1	121.3	123.1	131.7		
Misc. petroleum prod.	1	.48	88.3	78.1	77.6	76.2	84.8	96.2	99.3	97.2	98.5	98.1	88.8	84.6	80.7	
Refinery fuel, nec	1	.091	122.4	122.9	117.6	113.4	116.1	124.3	128.6	124.9	133.3	128.6	119.3	119.2	121.1	
Refinery nonfuel mat.	1	.261	73.3	71.7	70.0	67.7	71.5	77.6	75.2	72.5	77.0	71.9	71.4	75.3		
Refinery products, nec	1	.131	95.0	60.7	65.9	67.9	89.8	113.7	122.2	121.6	126.1	118.8	101.5	87.3	64.2	
RUBBER & PLASTICS PROD.	30	2.80	153.3	142.0	156.5	152.7	149.5	150.8	155.9	146.9	156.9	160.5	162.1	156.4	150.0	150.9
Tires	301	.62	106.4	106.4	115.1	112.8	106.5	98.9	101.9	91.9	107.3	109.6	117.2	109.1	100.3	
Rub.prod.ex.tires	302-4,6	.51	123.4	114.3	127.9	125.0	109.8	125.1	126.1	118.0	127.1	129.9	129.3	125.3	122.8	118.0
Plastics products, nec	3071	1.67	179.7	163.6	180.7	176.0	175.1	177.9	185.0	176.1	184.7	188.7	188.8	183.4	176.7	168.5
LEATHER AND PRODUCTS	31	.53	61.3	64.1	67.0	64.8	62.1	60.7	58.7	53.8	63.3	60.4	62.4	62.5	55.6	57.5
Pers. leather gds	313,5-7,9	.161	73.8	74.2	74.5	75.0	73.0	71.3	73.3	65.6	73.1	74.7	76.8	77.2	77.0	72.9
Shoes	314	.29	55.6	59.1	64.6	60.5	57.2	56.1	51.2	48.4	59.9	53.8	56.2	55.7	44.4	48.6
CLAY, GLASS & STONE PROD.	32	2.72	120.2	111.5	113.3	116.6	121.8	121.4	124.7	120.8	125.4	125.3	124.1	122.4	115.5	114.3
Pressed & blown glass	3221	.51	110.8	102.4	114.0	110.9	114.2	111.9	118.2	110.7	115.2	112.5	115.3	109.9	93.5	102.3
Glass containers	3221	.30	95.1	88.8	101.6	98.3	101.4	96.9	103.8	98.5	100.2	94.4	99.3	90.0	68.3	89.8
Cement	3241	.24	108.2	69.3	71.9	91.9	115.3	117.7	130.0	125.1	132.3	127.7	131.0	104.1	82.0	
Structural clay prod.	3251	.15	129.0	104.7	115.4	115.9	126.9	126.8	133.8	126.3	139.4	141.8	138.6	141.5	137.2	132.2
Brick	3251	.071	92.9	79.8	81.6	84.3	96.3	92.5	97.9	98.8	96.4	100.7	104.5	92.3	90.2	82.7
Clay sewer pipe	32591	.021	31.9	24.6	27.0	20.6	34.1	34.5	34.5	37.3	35.5	35.0	36.2	33.9	29.2	29.0
Clay tile	3253,51	.071	191.8	151.5	173.5	173.7	183.0	186.4	196.9	178.2	211.1	212.3	200.7	220.3	214.0	210.2
Concrete and misc.	326-91	1.55	123.2	119.5	117.8	121.3	124.7	124.2	124.8	121.6	124.9	126.7	123.7	123.1	120.6	
PRIMARY METALS	33	5.33	75.8	79.7	82.3	81.7	84.4	80.4	76.8	68.7	69.8	72.6	72.6	72.9	67.4	70.6
Iron and steel	331,21	3.49	63.4	68.8	70.4	69.3	72.6	66.9	64.2	59.1	57.4	59.3	59.4	59.8	53.9	56.1
Basic st. & mill prod.	331	2.60	68.8	76.9	78.0	76.6	77.9	74.4	69.6	65.1	61.4	61.3	61.5	64.0	59.2	59.2
Basic iron and steel	1	1.11	58.1	66.5	68.1	67.4	68.6	64.1	58.7	54.7	47.8	49.0	51.3	51.2	49.7	49.8
Pig iron	1	.421	54.0	62.3	64.2	62.9	65.0	62.1	55.4	51.1	43.0	44.6	45.8	46.4	46.6	46.7
Raw steel	1	.511	64.3	73.8	75.7	75.2	76.3	69.5	65.2	59.5	54.2	57.6	56.5	54.7	53.6	
Steel mill products	1	1.491	76.8	84.6	85.4	83.4	84.8	82.1	77.7	72.8	71.5	70.5	69.0	73.4	66.2	
Consumer dur. steel	1	.381	57.1	66.1	68.1	63.5	65.5	63.3	57.4	48.8	49.2	51.0	51.3	54.9	46.1	52.1
Equipment steel	1	.361	40.2	48.2	47.1	47.0	44.7	43.0	40.0	36.2	39.1	35.5	33.9	34.3	33.1	
Construction steel	1	.191	73.1	78.3	78.2	76.6	81.8	81.1	77.8	74.4	72.8	65.5	64.6	66.5	59.7	
Can & closure steel	1	.101	59.3	55.8	58.6	64.2	60.4	67.7	63.6	66.1	65.4	58.9	49.4	52.3	46.6	
Misc. steel	1	.461	126.7	136.7	138.1	134.9	136.7	132.3	126.7	122.0	115.8	118.2	116.9	126.4	115.2	
Iron & steel foundries	332	.891	47.6	44.9	48.1	48.1	56.9	45.0	48.5	41.6	45.8	53.5	53.2	47.5	38.5	45.4
Nonferrous metals	333-6,9	1.851	99.0	100.5	104.9	104.9	106.7	105.7	100.5	86.7	93.1	97.6	97.6	97.6	92.9	98.1
Primary nonf. metals	333	.511	80.9	87.9	88.2	86.8	87.2	87.7	78.3	71.0	75.2	75.6	77.4	77.8	80.0	82.0
Copper	3331	.131	92.4	93.4	90.2	89.6	95.1	94.7	89.6	88.6	89.8	92.9	92.6	95.1	88.3	
Aluminum	33341	.281	73.8	78.1	79.6	80.3	81.2	81.3	71.5	66.2	67.3	68.1	69.6	70.7	72.1	74.8
Secondary nonf. atls.	3341	.111	75.7	69.4	82.6	80.4	78.5	79.7	77.5	67.3	77.0	74.8	74.2	78.4	68.8	

Table 4A—continued
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES
Seasonally adjusted, 1977 = 100

Series	SIC Code	1977		1986		1987											
		Pro- por- tion	Ann. Avg.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
FABRICATED METAL PRODUCTS	34	6.46	107.4	109.2	108.5	107.6	108.2	106.5	106.6	105.7	105.9	107.3	108.3	107.1	108.4	108.7	
Metal containers	341	.52	90.5	90.1	88.8	85.3	93.6	90.6	91.7	88.3	89.2	92.3	92.0	90.7	93.4	90.9	
Hardware, tools, cutlery	342	.73	102.1	100.4	99.1	100.2	101.9	100.1	104.4	103.5	104.8	104.1	104.7	100.7	101.1	99.8	
Structural metal prod.	344	1.67	107.8	109.4	107.7	107.8	109.5	109.7	107.8	107.5	107.6	106.8	106.5	106.1	106.8	107.9	
Pasteners, stamp, etc.	345-7	1.95	111.5	114.8	116.5	111.3	113.1	108.4	107.9	106.2	108.1	110.3	113.4	109.7	116.6	116.5	
NON-ELECTRICAL MACHINERY	35	9.54	141.9	144.9	143.9	141.7	140.8	141.3	140.4	142.6	142.6	140.9	142.2	141.2	140.3	139.4	
Engine & farm equip.	351,2	1.48	60.4	64.0	62.8	61.7	63.3	60.9	61.0	60.5	59.9	58.1	58.3	57.7	56.3	57.4	
Construct. & allied eq.	353	1.68	74.3	78.1	77.1	74.3	72.2	76.0	76.6	73.4	74.9	73.6	72.6	70.6	72.3	69.5	
Metalworking machinery	354	1.24	132.0	132.3	130.6	131.0	128.3	129.5	134.9	134.0	136.8	133.6	134.1	130.7	128.1	127.7	
Spec. & genl. ind. eq.	355,6	1.12	95.1	95.1	95.7	95.2	96.6	95.9	95.0	96.2	94.9	93.7	96.0	93.0	93.7	92.7	
Office, serv., & misc.	357-9	3.02	256.8	266.6	263.9	257.2	252.9	252.1	250.7	257.4	255.5	254.8	256.2	259.4	256.6	255.6	
ELECTRICAL MACHINERY	36	7.15	166.5	166.1	164.8	165.2	166.8	166.0	163.2	166.8	167.2	166.9	167.7	168.3	170.2	168.5	
Major elect. eq. & pts	361,2	1.27	88.6	88.9	88.4	90.3	91.3	90.9	91.1	89.3	86.4	85.8	86.1	86.6	86.2		
Household appliances	363	.75	136.3	129.1	133.5	131.9	138.3	131.9	137.8	137.1	138.1	137.5	136.0	142.3	147.6	111.3	
Cooking equipment	3631	.11	263.6	260.6	269.5	258.3	258.8	266.6	296.0	254.4	253.1	267.7	242.7	262.0	278.4	100.4	
Refrigeration appl.	3632	.17	110.1	94.2	109.5	101.8	119.3	103.5	117.0	107.7	121.1	104.7	113.3	116.0	121.3	111.9	
Laundry appliances	3633	1.12	145.5	130.5	133.5	133.6	155.2	137.9	133.2	164.7	147.1	147.0	153.5	154.6	166.4	144.6	
Misc. appliances	3634-6,9	.35	105.3	103.5	101.8	105.6	103.3	100.6	99.2	104.5	106.6	108.6	107.0	112.7	112.2	103.0	
TV and radio sets	365	.44	150.6	154.2	148.2	143.9	154.0	147.5	139.8	147.9	152.6	148.7	146.0	166.0	166.4	158.1	
Communication equipment	366	2.01	216.7	218.6	216.0	215.1	217.9	218.4	207.1	216.5	218.6	219.4	218.7	216.4	218.2	220.1	
Electronic components	367	1.31	244.1	241.8	241.4	247.8	247.6	243.4	239.2	243.9	240.7	242.6	244.5	248.4	249.2	249.3	
TV tubes	3671-3	.13	122.4	142.0	129.1	124.6	131.7	111.8	105.9	125.4	95.6	87.7	130.9	149.0	146.8		
Misc. electrical supp.	369	.70	116.0	116.0	114.8	115.2	115.5	118.9	113.8	117.6	118.1	114.5	114.9	119.0	114.9	112.2	
Storage battery, repl.	3691	.13	127.9	108.0	113.8	123.4	138.3	140.5	123.7	137.6	142.6	124.2	127.9	141.7	117.9		
TRANSPORTATION EQUIPMENT	37	9.13	125.8	128.2	127.5	122.6	126.2	124.1	125.1	125.6	125.1	127.7	125.2	125.6	127.2	127.9	
Motor vehicles & parts	371	5.25	110.9	116.5	116.4	108.1	112.6	108.7	110.6	111.2	108.2	112.2	107.1	107.9	111.2	112.1	
Autos, total	1-82	111.0	112.0	122.3	107.0	115.1	108.2	113.4	108.8	100.2	109.7	104.9	105.3	113.6	107.6		
Consumer	1-161	97.3	105.5	107.1	93.7	100.8	94.8	99.3	95.3	87.8	96.2	91.9	92.3	99.5	94.3		
Business	.66	135.4	146.8	149.0	130.4	140.3	132.0	138.2	132.6	122.2	133.8	127.9	128.4	138.5	131.2		
Trucks and buses	1-03	131.0	135.0	133.0	119.9	131.8	126.8	125.6	136.4	139.8	143.2	126.3	127.7	132.1	144.3		
Business vehicles	.41	114.5	124.6	118.9	104.9	117.0	107.9	109.4	115.0	120.4	124.9	109.6	114.8	111.4	117.2		
Consumer trucks	.63	141.8	141.7	142.1	129.6	141.5	139.1	136.1	150.3	152.4	155.1	137.1	136.0	145.6	161.9		
Truck trailers	3715	.09	125.4	130.9	111.6	123.7	125.8	133.5	135.0	133.3	134.0	130.3	122.8	111.6	113.4	124.0	
Motor vehicle parts	3714	.23	101.2	104.6	104.5	103.0	101.4	100.1	100.8	101.0	99.3	99.5	99.7	100.9	100.0	100.7	
Aircraft and parts	372	2.09	157.7	153.9	151.5	152.3	154.6	155.7	156.5	155.6	161.6	161.1	162.2	164.2	163.7	164.3	
Ships and boats	373	.66	86.4	88.0	83.9	84.4	85.8	85.9	84.5	86.7	87.4	88.7	87.8	87.1	87.0	85.0	
Rail & misc trans eq.	374-6,9	1.11	159.8	161.5	156.0	157.8	160.2	159.2	157.4	159.4	161.2	162.1	161.9	160.1	163.0	162.7	
Broadcast equipment	374	.27	22.9	21.8	18.3	18.3	31.5	29.0	20.2	20.6	27.8	30.8	30.0	18.2	16.6		
INSTRUMENTS	38	2.66	141.3	141.5	141.9	142.0	142.4	140.3	139.9	141.7	142.0	141.7	140.3	141.1	142.0	142.0	
Equipment instr. & pts	381-4	1.52	163.2	160.1	160.8	161.9	163.9	161.9	162.0	162.0	163.7	161.6	163.7	166.7	170.0	166.9	
MISC. MANUFACTURES	39	1.46	99.3	100.9	100.9	99.0	99.2	101.0	98.3	97.5	98.3	97.7	99.0	98.9	102.6	102.1	
Misc. cons. goods	391,3,4,6	.84	95.2	96.5	95.9	95.4	94.5	95.2	94.4	93.4	93.5	95.3	95.9	93.8	99.3	95.3	
Misc. bus. supplies	395,9	.62	104.9	102.8	105.9	100.1	103.6	108.9	102.6	104.2	104.6	103.0	108.1	107.3	106.6		
ELECTRIC UTILITIES	49	4.17	122.2	119.7	119.5	119.8	121.6	121.7	123.1	125.4	122.4	122.8	123.8	125.1	123.6	125.3	
Elec. util. generation	1-70	116.2	114.0	114.4	113.2	114.9	116.8	117.0	121.5	114.8	117.9	118.4	118.0	116.0			
Fossil fuel generation	1-41	107.8	107.8	107.0	105.9	107.5	110.0	110.7	115.1	105.6	107.6	105.8	107.6	105.4			
Hydro & nuclear gener.	.35	149.6	139.9	144.2	142.5	144.6	144.1	141.9	147.4	151.5	159.3	168.7	159.3	158.4			
Elec. util. sales	.41	126.5	123.8	124.2	124.6	126.5	125.3	127.6	128.3	128.0	126.3	127.7	130.3	129.2			
Residential elec.	.95	129.0	127.5	124.4	124.0	128.0	125.6	128.0	134.8	130.7	132.6	132.0	130.7	132.6			
Nonresidential elec.	1-40	124.9	121.4	122.5	124.9	125.6	125.1	127.4	124.0	126.2	122.2	124.9	130.1	126.9			
Industrial elec.	.68	105.5	104.4	105.9	108.7	107.7	104.4	104.7	103.9	105.9	102.9	104.9	108.1	106.1			
Commercial & other elec.	.78	141.9	136.1	136.9	139.0	141.2	143.2	147.1	141.5	143.9	139.0	142.4	149.2	145.1			

Note: Seasonally adjusted industry totals are not aggregated from the seasonally adjusted components, but result from independent seasonal adjustment of the aggregated not seasonally adjusted components.

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1977 = 100

Series	1977		1986		1987											
	SIC	Pro- jor- tion	Avg.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
FABRICATED METAL PRODUCTS	34	6.46	107.4	104.6	108.3	107.4	107.7	106.2	108.4	104.3	107.4	110.4	109.6	106.9	107.3	104.6
Metal containers	3411	.521	90.51	83.4	87.2	84.3	92.7	90.3	95.2	92.2	94.1	97.7	92.3	88.9	87.6	89.0
Hardware, tools, cutlery	3421	.731	102.1	95.1	101.0	100.9	99.9	99.4	105.4	101.8	106.7	108.2	107.2	101.2	98.3	94.6
Structural metal prod.	3441	1.671	107.8	106.1	103.3	104.3	105.5	107.7	109.2	107.8	110.2	111.8	110.0	108.9	109.4	104.6
Fasteners, stamp, etc.	345-71	1.951	111.5	107.4	118.4	115.6	114.5	108.7	110.7	105.0	108.0	112.6	115.0	109.8	111.7	109.0
NON-ELECTRICAL MACHINERY	35	9.54	141.9	139.9	142.3	140.4	136.8	138.4	143.8	145.6	149.0	148.2	144.3	139.7	134.8	134.5
Engine & farm equip.	351,21	1.481	60.4	64.1	64.2	63.6	63.4	61.1	61.1	58.6	57.6	58.0	57.4	57.7	57.5	57.6
Construction & allied eq.	3531	1.681	74.1	76.4	78.1	73.4	70.8	74.1	77.2	74.1	75.2	76.3	72.9	70.5	72.2	68.0
Metalworking machinery	3541	1.24	132.0	127.9	133.5	132.4	129.2	127.9	134.7	131.7	137.5	138.8	137.7	128.8	123.7	123.5
Spec. & genl. ind. eq.	355,61	2.121	95.1	92.8	96.1	96.1	95.3	95.4	96.2	94.1	95.3	97.0	95.7	93.6	93.3	90.5
Office, serv., & misc.	357-91	3.021	256.8	250.5	252.6	249.8	242.0	246.7	258.7	270.2	277.4	272.5	263.8	255.6	241.5	240.1
ELECTRICAL MACHINERY	36	7.15	166.5	165.0	164.1	164.8	166.2	164.6	163.3	162.0	166.9	169.5	173.3	170.9	167.8	167.2
Major elect. eq. & pts	361,21	1.271	88.6	86.2	87.1	87.8	88.0	90.2	92.6	90.8	91.3	90.9	89.2	85.9	83.8	83.5
Household appliances	3631	.751	136.3	129.9	139.8	135.5	144.0	132.2	138.0	122.0	131.2	143.4	155.3	137.4	127.4	112.3
Cooking equipment	36311	.111	263.6	259.6	269.1	248.9	258.7	279.1	286.6	224.7	246.5	280.8	292.1	268.3	248.6	100.0
Refrigeration appl.	36321	.171	110.1	96.3	118.1	114.9	134.6	109.7	123.5	109.7	88.2	111.3	127.5	100.6	86.6	114.5
Laundry appliances	36331	.121	145.5	138.8	148.0	142.1	159.0	134.0	135.0	137.3	148.3	147.8	177.1	138.5	140.6	153.8
Misc. appliances	3634-6,91	.351	105.3	101.7	106.3	107.0	107.2	95.8	98.8	90.2	109.2	113.6	117.7	112.9	103.8	101.0
TV and radio sets	3651	.441	150.6	142.2	136.8	126.9	138.9	143.9	134.6	143.5	169.1	157.2	191.2	183.8	139.4	145.9
Communication equipment	3661	2.011	216.7	219.7	215.7	217.0	215.9	216.1	207.2	213.8	215.0	217.5	217.7	218.9	225.8	221.2
Electronic components	3671	1.311	244.1	240.8	238.8	245.8	246.3	242.1	241.5	236.1	242.0	245.0	247.7	252.0	251.2	248.2
TV tubes	3671-31	.131	122.4	135.3	130.1	118.5	139.6	117.2	101.2	107.2	106.7	95.2	155.7	154.0	108.2	
Misc. electrical supp.	3691	.701	116.0	117.2	109.9	109.7	108.7	112.3	111.2	109.3	117.9	123.1	124.0	125.9	122.8	113.2
Storage battery, repl.	36911	.131	127.9	114.5	96.9	98.8	102.7	106.7	107.0	112.3	149.6	163.0	167.5	171.5	144.4	
TRANSPORTATION EQUIPMENT	37	9.13	125.8	127.9	129.5	126.6	129.3	127.4	130.3	114.7	117.8	127.3	128.8	126.9	123.6	128.1
Motor vehicles & parts	3711	5.251	110.9	115.3	119.3	113.9	117.9	114.5	120.0	95.3	98.7	111.9	113.5	108.7	101.1	111.4
Autos, total	1.821	111.0	120.2	128.4	116.6	123.7	116.5	127.4	82.4	84.8	108.3	118.9	110.1	95.4	108.4	
Consumer	1.161	97.3	110.5	112.5	102.2	108.3	102.0	111.6	72.2	74.3	94.9	104.2	96.4	83.6	95.0	
Business	.661	135.4	146.5	156.5	142.2	150.8	142.0	155.3	100.5	103.4	132.1	144.9	134.2	116.3	132.2	
Trucks and buses	1.031	131.0	130.1	141.5	131.5	143.1	139.9	145.2	109.5	124.3	142.4	134.2	124.0	106.5	139.4	
Business vehicles	.411	114.5	125.7	126.7	111.6	126.0	119.8	126.6	92.9	108.5	119.2	116.5	110.7	90.3	117.7	
Consumer trucks	.631	141.8	133.0	151.1	144.5	154.2	153.0	157.3	120.3	134.7	157.5	145.8	132.6	117.0	153.4	
Truck trailers	37151	.091	125.4	116.3	111.0	131.4	129.3	134.3	140.3	117.1	133.7	136.8	125.0	113.3	116.1	110.2
Motor vehicle parts	37141	2.311	101.4	104.9	104.0	103.2	101.6	100.8	102.1	98.3	96.7	100.1	99.5	100.6	102.6	101.2
Aircraft and parts	3721	2.091	157.7	154.5	153.8	154.0	154.1	155.2	155.7	151.6	155.4	160.4	162.6	166.9	168.5	164.9
Ships and boats	3731	.661	86.4	87.6	84.5	85.6	86.9	87.1	85.0	84.5	84.2	86.9	87.5	88.4	88.4	84.5
Rail & misc trans eq.	374-6,91	1.111	159.8	161.6	156.2	159.5	161.4	160.1	158.1	154.6	157.7	161.7	161.6	160.6	164.4	163.0
Railroad equipment	3741	.271	22.9	21.1	9.2	19.0	31.6	30.8	22.5	19.7	22.1	31.5	32.1	18.5	17.0	
INSTRUMENTS	38	2.661	141.3	138.0	139.2	140.4	139.8	138.6	142.6	143.1	145.1	145.4	141.7	140.8	141.2	138.6
Equipment instr. & pts	381-41	1.521	163.2	154.1	157.1	159.3	159.0	159.5	165.8	167.1	170.6	172.0	165.1	164.2	164.2	160.6
MISC. MANUFACTURES	391	1.461	99.3	93.2	100.3	97.6	96.3	99.2	100.3	97.6	104.0	105.7	103.4	97.9	96.6	95.0
Misc. cons. goods	391,3,4,61	.841	95.2	89.8	94.4	95.0	92.6	94.6	97.9	92.4	99.4	102.7	100.0	91.8	91.9	88.7
Misc. bus. supplies	395,91	.621	104.9	97.7	108.3	101.1	101.3	105.5	103.7	104.7	109.6	109.7	108.0	106.1	103.1	101.3
ELECTRIC UTILITIES	491	4.171	122.4	127.0	127.4	114.1	112.6	109.2	125.7	135.7	133.0	127.8	114.8	116.9	121.8	132.8
Elec. util. generation	1.761	116.2	119.9	117.0	107.9	106.0	108.6	122.4	134.0	124.1	117.4	108.5	111.4	117.0		
Fossil fuel generation	1.471	107.8	113.7	107.5	97.9	95.0	99.1	115.8	130.0	118.5	109.5	99.7	101.7	105.4		
Hydro & nuclear gener.	.351	149.6	145.0	155.0	147.7	149.9	146.6	148.7	149.8	146.6	149.1	143.6	150.1	163.5		
Elec. util. sales	2.411	126.5	132.1	135.0	118.6	117.4	109.6	128.2	137.0	139.5	135.4	119.5	120.9	125.3		
Residential elec.	.951	129.0	152.2	144.2	120.2	112.8	100.4	120.3	147.2	147.4	140.9	115.7	112.7	134.2		
Noresidential elec.	1.461	124.9	119.0	128.9	117.6	120.4	115.7	133.3	130.4	134.4	131.8	122.0	126.2	119.6		
Industrial elec.	.681	105.5	98.7	110.6	104.9	107.8	102.5	109.1	103.9	107.8	108.0	104.3	108.7	99.2		
Commercial & other elec.	.781	141.9	136.7	144.9	128.6	131.3	127.1	154.4	153.4	157.6	152.5	157.4	141.5	137.3		

Note: Seasonally adjusted industry totals are not aggregated from the seasonally adjusted components, but result from independent seasonal adjustment of the aggregated not seasonally adjusted components.

Table 5
INDUSTRIAL PRODUCTION: INDEXES; 1977 = 100
Quarterly averages, seasonally adjusted

SERIES	Quarterly Averages of Monthly Indexes											
	1984		1985		1986							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Industrial production	122.7	122.5	123.1	123.5	124.0	124.7	125.0	124.4	125.0	125.9		
Products, total	128.0	128.7	129.1	130.4	131.6	132.3	132.7	132.5	133.4	134.5		
Final products	128.7	129.3	129.7	130.6	131.7	132.4	132.5	131.6	132.3	133.2		
Consumer goods	118.1	118.8	118.8	119.5	120.5	122.1	123.0	124.4	124.8	125.8		
Durable consumer goods	112.5	112.6	112.4	112.1	113.0	114.3	115.0	114.7	116.5	118.8		
Automotive products	109.5	109.0	113.7	112.4	115.9	114.2	114.7	114.4	116.0	115.0		
Home goods	114.7	115.3	111.4	111.8	110.8	114.4	115.2	114.8	116.9	121.7		
Non-durable consumer goods	120.2	121.1	121.2	122.2	123.2	125.0	125.9	128.0	127.9	128.4		
Equipment, total	142.6	143.4	144.0	145.3	146.5	146.1	145.0	141.2	142.1	142.9		
Business & defense equipment	141.5	142.6	144.0	145.8	146.9	147.3	147.5	145.9	147.4	147.8		
Business equipment	137.1	137.8	138.8	140.0	140.3	139.7	139.9	137.7	138.8	138.3		
Defense and space equipment	158.8	161.3	164.5	168.4	172.9	176.8	177.1	178.1	180.8	185.1		
Intermediate products	125.8	126.5	127.2	129.9	131.2	131.7	133.7	135.5	137.4	139.2		
Construction supplies	114.5	115.0	115.3	117.9	119.8	120.2	123.1	123.7	125.1	127.1		
Business supplies	135.4	136.3	137.4	140.2	140.9	141.5	142.7	145.6	147.8	149.6		
Commercial energy products	119.3	120.6	121.5	122.3	123.1	125.1	125.0	129.5	128.2	130.6		
Materials	115.5	114.1	114.9	114.0	113.8	114.3	114.5	113.3	113.4	114.3		
Durable goods materials	123.1	123.1	123.0	121.4	120.4	121.1	120.9	118.8	118.8	120.1		
Basic metal materials	85.5	84.3	84.1	84.3	84.0	87.1	82.6	79.5	77.6	80.5		
Non-durable goods materials	111.7	110.7	110.7	111.0	113.4	113.9	115.7	116.9	119.7	121.1		
Textile, paper, & chem materials	112.4	110.5	111.2	110.6	113.3	114.0	116.2	117.0	120.4	122.1		
Textile materials	102.3	95.0	93.2	95.2	101.7	105.0	105.8	108.2	113.5	115.0		
Pulp and paper materials	128.0	125.7	126.6	121.6	123.8	124.8	128.8	130.1	135.1	135.0		
Chemical materials	110.4	110.6	112.0	112.1	113.6	113.4	115.3	115.4	117.7	120.1		
Energy materials	105.4	101.1	104.4	103.7	102.5	102.6	102.2	100.6	98.6	98.1		
Manufacturing	124.7	124.9	125.3	126.1	126.8	127.4	128.4	128.4	129.4	130.4		
Durable	125.9	126.4	126.8	127.3	127.5	127.9	128.3	127.1	127.7	128.6		
Non-durable	122.9	122.9	123.3	124.6	125.9	126.8	128.6	130.2	131.8	132.8		
Mining and Utilities	112.2	109.5	111.6	109.8	109.1	109.3	107.3	103.3	101.2	101.8		
Mining	113.7	108.6	110.1	109.9	107.9	107.1	105.4	99.9	96.6	96.7		
Utilities	109.7	110.8	114.1	109.6	111.1	112.8	110.5	108.9	108.8	110.2		

Table 6
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS
Billions of 1982 dollars at annual rates, seasonally adjusted

SERIES	Billions of 1982 Dollars at Annual Rates													
	1982 Dollars	1986		1985		Quarters				Months				
		Ann. Avg.	Q3	Q4	Q1	Q2	Q3	Q4	1986 SEP	OCT	NOV	DEC	1987 JAN	
Products, total	1376.8	1683.1	1652.6	1671.9	1683.1	1683.5	1676.3	1692.2	1677.8	1683.9	1690.8	1702.0	1707.6	1721.7
Final products	1084.5	1297.4	1281.4	1297.3	1304.7	1299.2	1289.2	1298.9	1292.3	1292.5	1297.6	1306.4	1313.3	1329.3
Consumer goods	703.71	845.6	818.9	834.0	842.7	849.5	843.0	849.1	839.8	839.3	847.2	860.7	864.7	871.2
Durable consumer goods	133.31	200.7	197.7	197.6	199.6	198.6	201.8	203.1	204.4	198.8	201.3	209.2	207.0	213.9
Automotive products	65.91	109.2	110.9	108.2	109.6	108.8	110.4	108.0	112.2	105.6	106.5	111.8	113.5	120.2
Home goods	67.41	91.6	86.7	89.4	90.0	89.9	91.4	95.1	92.2	93.1	94.8	97.4	93.4	93.7
Non-durable consumer goods	570.9	644.9	621.3	636.3	643.1	650.9	641.2	646.0	635.4	640.6	645.9	651.5	657.4	657.3
Equipment, total	380.8	453.8	462.5	463.4	462.0	449.7	446.2	449.8	452.5	453.2	450.4	445.7	448.9	458.1
Business & defense equipment	345.4	433.2	430.8	434.0	437.0	432.8	430.8	433.1	436.9	437.0	433.5	428.7	432.2	441.6
Business equipment	278.0	341.1	343.4	343.5	345.9	341.9	338.9	338.5	343.9	342.8	339.0	333.7	337.2	346.7
Defense and space equipment	67.4	92.1	87.4	90.4	91.0	91.0	91.9	94.6	92.9	94.2	94.5	95.0	95.0	94.8
Intermediate products	292.2	385.7	371.2	374.6	378.4	384.3	387.1	393.4	385.5	391.4	393.2	395.5	394.3	392.4
Construction supplies	108.3	152.3	146.9	147.1	150.3	151.1	153.0	154.9	153.8	153.5	154.8	156.3	157.8	158.3
Business supplies	183.9	233.4	224.2	227.5	228.1	233.2	234.3	238.5	231.6	237.9	238.4	239.2	236.5	
Commercial energy products	63.4	76.3	72.5	75.3	73.8	77.6	75.7	78.4	74.6	78.3	78.9	78.0		

Table 7
INDUSTRIAL PRODUCTION: DIFFUSION INDEXES
 Percent of component series higher than in earlier months

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1977-86			
AVERAGE	53.5	55.7	57.3
HIGH	76.6	79.4	88.3
LOW	26.4	23.2	23.0
1982			
JANUARY	51.8	55.8	48.2
FEBRUARY	55.8	55.6	47.6
MARCH	54.8	56.0	54.8
APRIL	51.0	55.6	53.6
MAY	54.6	54.0	56.9
JUNE	53.4	52.2	59.1
JULY	53.4	51.8	56.0
AUGUST	57.5	57.9	57.7
SEPTEMBER	51.2	57.1	57.1
OCTOBER	49.6	56.0	58.3
NOVEMBER	61.7	56.2	58.3
DECEMBER	57.5	60.9	63.5
1986			
JANUARY	60.7	68.7	67.1
FEBRUARY	42.5	55.4	56.2
MARCH	37.1	38.9	51.0
APRIL	65.9	46.2	60.9
MAY	42.7	47.8	55.2
JUNE	46.6	56.0	47.8
JULY	55.2	46.4	47.4
AUGUST	53.0	54.4	56.0
SEPTEMBER	43.7	53.8	59.9
OCTOBER	54.0	51.6	48.6
NOVEMBER	57.3	54.6	56.5
DECEMBER	58.7	61.5	61.9
1987			
JANUARY	47.2	56.0	56.7

NOTE: THE DIFFUSION INDEXES SHOW THE PERCENT OF THE INDUSTRIAL PRODUCTION INDEX'S 252 SEASONALLY ADJUSTED COMPONENT SERIES THAT IN THE MONTH INDICATED WERE HIGHER THAN THEY WERE ONE MONTH EARLIER, THREE MONTHS EARLIER, AND SIX MONTHS EARLIER. IN CALCULATING THE DIFFUSION INDEXES HALF OF THE UNCHANGED COMPONENTS ARE COUNTED AS BEING HIGHER AND NO ALLOWANCE IS MADE FOR THE RELATIVE IMPORTANCE OF THE INDIVIDUAL COMPONENTS IN TOTAL INDUSTRIAL PRODUCTION. DIFFUSION INDEXES BASED ON CHANGES OVER A SIX-MONTH PERIOD GENERALLY SHOW MORE PRONOUNCED CYCLICAL PATTERNS THAN DIFFUSION INDEXES BASED ON CHANGES OVER SHORTER PERIODS.

Table 8
AUTO ASSEMBLIES AT ANNUAL RATES
 Seasonally adjusted

	1986	Ann.	Avg.	Millions of Units												1987	JAN	FEB
				1986														
				FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				
Autos, total	7.8			8.7	7.6	8.1	7.6	8.0	7.6	7.0	7.7	7.3	7.3	7.9		7.5	8.3	

Table 9A
ELECTRIC POWER USE BY INDUSTRIES
Seasonally adjusted indexes, 1977 = 100

Series	SIC code	1977 (bill. KWh)	Indexes						Percentage change from previous quarter				Indexes			
			1986 Avg.		1985 04		1986 02		1986 03		1986 01	1986 02	1986 03	1986 04	1986 Dec	1987 Jan
TOTAL	10-14,20-39	785.8	99.1	99.6	100.0	98.0	98.5	99.9	-4	-2.0	-5	1.4	-3	100.8	99.3	
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	59.4	111.3	121.7	121.2	110.5	106.9	106.0	-0.4	-8.8	-3.3	-0.8	-12.9	108.5	104.9	
MANUFACTURING	20-39	726.4	98.3	98.6	97.6	97.2	97.9	99.6	-4	-1.4	-7	1.7	-1.4	100.3	99.1	
DURABLE	24,25,32-39	346.3	95.6	97.4	97.2	95.8	93.9	95.9	-0.2	-1.5	-2.0	2.1	-1.6	97.1	96.6	
MONDURABLE	20-23,26-31	382.1	100.6	98.9	99.6	98.5	101.6	102.9	-8	-1.2	3.2	1.2	4.0	103.1	102.7	
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	15.1	93.1	103.6	104.1	92.3	90.7	84.3	-4	-11.3	-1.8	-7.0	-18.6	84.7	88.3	
Iron ore	1011	6.1	86.8	107.6	97.5	89.7	82.2	73.8	-9.4	-8.0	-8.3	-10.3	-31.5	73.7	69.2	
Copper ore	1021	5.9	108.8	107.4	116.7	95.9	112.3	112.2	8.7	-17.8	17.1	-0.1	4.5	107.7	123.1	
COAL	11,12	10.3	133.1	128.5	140.3	135.9	127.4	127.6	9.2	-3.1	-6.2	-2	-0.7	132.8	122.1	
OIL AND GAS EXTRACTION	131	23.0	122.6	137.9	137.2	120.6	116.9	115.8	-0.5	-12.0	-3.1	-0.9	-16.0	117.4	116.9	
Crude oil and natural gas	1311	18.2	125.2	142.1	140.4	123.5	118.9	118.0	-1.2	-12.0	-3.8	-0.8	-17.0	121.0	117.1	
Natural gas liquids	1321	3.4	100.9	112.4	111.1	101.4	94.0	98.0	-1.1	-8.8	-7.3	4.3	-12.8	95.1	101.2	
STONE AND EARTH MINERALS	141	11.0	91.9	104.9	93.4	90.2	92.6	91.6	-10.9	-3.4	2.7	-1.1	-12.6	92.6	88.5	
Crushed stone	1421	2.4	142.1	144.7	139.8	142.0	139.8	146.5	-3.4	1.6	-1.6	4.8	1.2	143.2	128.5	
Sand and gravel	1441	2.0	96.5	93.0	90.8	96.8	95.9	101.5	-2.4	6.6	-1.0	5.9	9.1	95.7	94.5	
Chemical & fertilizer mat.	1471	5.0	71.8	91.9	77.5	69.6	72.7	67.1	-15.7	-10.2	4.5	-7.7	-27.0	70.3	68.0	
FOODS	201	42.4	121.0	119.6	120.1	121.7	121.7	120.6	-4	1.4	-0	-0.9	-9	120.6	119.3	
Meat products	2011	6.9	113.1	109.8	112.3	114.1	112.0	114.2	2.2	1.7	-1.8	1.9	4.0	115.9	108.7	
Dairy products	2021	5.3	124.3	120.2	122.9	126.0	124.3	124.0	2.2	2.6	-1.4	-0.2	3.2	123.4	123.2	
Canned and frozen foods	2031	5.7	133.8	132.2	131.6	132.8	135.2	135.9	-0.5	1.0	1.8	5.5	2.8	143.3	137.1	
Grain mill products	2041	7.4	109.9	112.3	110.4	109.2	110.4	109.6	-1.7	-1.1	1.1	-0.6	-2.4	110.5	107.5	
Bakery products	2051	2.5	141.7	137.4	142.5	140.7	142.3	141.2	3.7	-1.3	1.2	-0.6	2.8	138.2	141.2	
Sugar and confectionery	2061	3.3	177.0	166.4	171.8	179.1	177.6	179.5	3.3	4.2	-0.8	1.1	7.9	173.4	170.9	
Fats and oils	2071	3.4	110.8	110.0	114.4	113.4	113.0	103.1	4.0	-0.9	-0.3	-8.7	-6.2	98.3	100.8	
Beverages	2081	4.8	124.0	122.2	121.2	126.3	125.6	122.2	-0.8	4.2	-0.5	-2.7	0.1	120.3	121.2	
Misc. food preparations	2091	3.1	116.0	114.7	115.5	117.0	117.1	114.3	-7	1.3	-1	-2.4	-0.4	114.6	114.9	
TOBACCO PRODUCTS	211	1.3	98.2	111.1	97.7	99.6	96.7	99.1	-12.0	1.9	-3.0	2.5	-10.8	93.6	91.0	
TEXTILE MILL PRODUCTS	221	28.3	99.0	98.3	96.8	97.9	99.9	101.6	-1.6	1.2	2.0	1.7	3.3	104.4	99.3	
Fabrics	2211-41	12.1	91.8	92.0	91.5	91.9	91.3	92.9	-0.5	-4	-0.7	1.7	-9	94.5	90.2	
Knit goods	2251	3.7	82.6	82.1	81.2	84.1	82.6	82.5	-1.1	3.5	-1.8	-0.1	-5	84.2	81.9	
Fabric finishing	2261	2.2	123.5	121.5	119.2	118.3	129.2	127.0	-1.9	-0.8	9.2	-1.7	4.6	127.1	118.1	
Yarn and thread	2281	6.7	113.3	112.9	107.9	109.7	115.7	120.2	-4.4	1.6	5.5	3.9	6.4	124.7	118.2	
Miscellaneous textiles	2291	2.1	98.9	97.0	96.2	98.9	99.8	100.8	-0.8	2.7	1.0	1.0	3.9	100.3	100.9	
APPAREL PRODUCTS	231	6.6	120.8	119.5	118.9	121.8	119.7	123.0	-0.5	2.4	-1.7	2.7	2.9	125.4	125.2	
Men's outerwear	2311,21	2.1	115.2	115.5	114.7	116.7	117.6	117.6	-0.7	1.7	-3.6	4.6	1.8	118.6	120.2	
Women's outerwear	2331	1.9	112.1	109.6	116.4	113.0	106.6	114.6	6.2	-2.9	-5.6	7.5	4.6	119.5	119.6	
LUMBER AND PRODUCTS	241	16.4	126.6	121.5	122.9	128.4	126.8	128.4	1.1	4.5	-1.3	1.3	5.7	128.1	130.6	
Lumber	2421	6.9	106.4	101.6	103.9	107.6	105.5	108.5	2.3	3.6	-2.0	2.9	6.8	107.0	109.3	
Millwork and plywood	2431	4.4	137.4	134.7	133.9	138.1	138.4	139.4	-0.6	3.1	-2	3.5	142.3	146.6		
FURNITURE AND FIXTURES	251	4.2	128.8	123.6	126.4	127.7	129.2	132.1	2.2	1.1	1.2	2.3	6.9	133.6	129.3	
Home furniture	2511	2.8	119.0	116.0	117.0	117.8	118.8	122.6	-8	-7	-9	3.2	5.7	124.4	118.0	
PAPER AND PRODUCTS	261	71.9	120.7	118.4	119.5	120.3	121.0	121.9	-9	-6	-6	-7	3.0	124.8	121.4	
Wood pulp	2611	5.9	125.4	123.3	129.1	118.9	125.1	129.1	4.7	-7.9	5.2	3.2	4.7	123.7	130.0	
Paper	2621	34.4	129.4	125.5	127.9	129.9	130.6	129.1	1.9	1.6	-5	-1.1	2.9	131.5	126.8	
Paperboard	2631	22.1	101.6	108.1	99.8	101.7	99.7	105.3	-7.7	2.0	-2.0	5.6	-2.5	110.7	104.2	
Converted paper	2641	5.0	110.6	112.8	109.7	109.0	111.2	112.5	-2.7	-0.7	2.0	1.2	-0.2	114.6	109.6	
Paperboard containers	2651	3.4	117.4	113.6	111.7	114.6	121.1	122.4	-1.7	2.6	5.7	1.1	7.7	124.0	121.9	
Building paper and board	2661	1.7	157.8	150.6	156.6	154.4	163.5	157.5	4.0	-1.4	5.9	-3.7	4.6	155.1	159.9	
PRINTING AND PUBLISHING	271	10.6	149.2	142.7	145.4	149.3	148.7	153.1	1.9	2.7	-0.4	3.0	7.3	153.2	154.7	
Newspapers	2711	2.6	126.2	121.8	123.7	128.6	125.7	126.8	1.6	4.0	-2.2	.9	4.2	128.7	131.0	
Commercial Printing	2751	4.8	170.0	158.4	162.6	169.1	170.3	177.5	2.6	4.0	-7	4.2	12.0	177.5	177.6	
CHEMICALS AND PRODUCTS	281	162.1	83.3	82.3	83.0	80.1	84.6	85.6	-9	-3.5	5.6	1.3	4.1	85.7	87.0	
Basic chemicals	2811	85.6	69.3	67.7	69.5	66.4	70.6	71.1	2.6	-4.4	6.2	.7	5.0	70.5	72.4	
Alkalies and chlorine	2812	13.3	88.4	82.2	90.1	91.1	88.9	83.4	9.6	-1.1	-2.4	-6.2	1.4	83.1	86.0	
Inorganic chemicals, nec	28191	58.1	51.2	53.0	52.2	48.6	51.4	52.9	-1.6	-6.7	5.7	2.9	-0.1	52.8	53.8	
Acid and fertilizer mat.	13.01	71.8	71.4	75.1	66.9	68.5	76.9	53.3	-11.0	2.3	12.4	7.8	77.1	78.8		
Nuclear mats., nondefense	44.61	42.6	45.4	42.8	40.9	44.2	42.9	-5.9	-4.4	8.2	-3.0	-5.5	43.0	43.4		
Synthetic materials	2821	19.3	118.0	115.9	119.1	109.6	118.9	124.9	2.8	-8.0	8.5	5.0	7.7	129.3	128.9	
Plastics materials	28211	9.2	151.2	141.0	146.7	132.9	157.5	168.6	4.1	-9.4	18.5	7.1	19.6	173.0	176.8	
Drugs	2831	4.1	146.5	141.7	141.1	148.7	146.8	149.3	-0.4	5.4	-1.2	1.7	5.4	151.3	147.9	
Soaps and toiletries	2841	2.1	126.1	119.9	124.3	129.1	127.7	123.5	3.7	3.9	-1.1	-3.3	3.0	124.7	124.1	
Industrial organic chem.	2861	35.8	94.7	94.9	92.4	93.3	96.6	96.9	-2.6	-9	3.5	.3	2.1	98.8	95.0	
Farm chemicals	2871	10.5	86.5	92.4	87.3	91.2	82.9	84.5	-5.5	4.5	-9.1	1.9	-8.5	86.0	85.3	

Table 9B
ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1977 = 100

Series	SIC code (bill. KWH)	Indexes								Percentage change from previous quarter				Indexes			
		1977		1986		1985		1986		1986		1985		1986		1987	
		Avg.	Q4	Q1	Q2	Q3	Q4	1986	Q1	Q2	Q3	Q4	1986	Q4	1986	DEC	JAN
TOTAL	10-14,20-39	785.8	99.1	98.2	98.1	99.3	100.3	98.6	-0.1	1.2	1.0	-1.7	.3	97.5	96.4		
MAJOR INDUSTRY DIVISIONS																	
Mining	10-14	59.4	111.3	118.8	125.5	113.0	103.2	103.5	5.6	-9.9	-8.7	.3	-12.9	105.9	108.9		
Manufacturing	20-39	726.4	98.3	96.9	96.3	98.4	100.1	98.2	-0.6	2.2	1.7	-1.9	1.4	97.0	95.5		
Durable	24,25,32-39	344.3	95.6	95.7	96.1	97.0	95.3	94.2	.4	.9	-1.8	-1.1	-1.6	93.3	91.7		
Nondurable	20-23,26-31	382.1	100.6	97.9	96.5	99.7	104.5	101.9	-1.5	3.4	4.8	-2.5	4.1	100.3	99.0		
INDUSTRY GROUPS AND SERIES																	
METAL MINING	101	15.1	93.1	94.4	108.8	101.9	84.9	76.9	15.2	-6.3	-16.7	-9.5	-18.6	74.4	89.8		
Iron ore	1011	6.1	86.8	89.3	107.8	103.3	74.9	61.2	20.7	-4.2	-27.5	-18.3	-31.5	57.6	76.2		
Copper ore	1021	5.9	108.8	105.9	113.8	102.7	108.4	110.5	7.5	-9.8	5.5	2.0	4.4	108.2	122.9		
COAL	11,12	10.3	133.1	127.9	160.0	133.4	111.8	127.2	25.1	-16.6	-16.2	13.8	-0.5	137.9	138.5		
OIL AND GAS EXTRACTION	131	23.0	122.6	137.8	136.1	120.5	117.9	115.8	-1.2	-11.5	-2.1	-1.9	-16.0	120.1	119.1		
Crude oil and natural gas	1311	18.2	125.2	142.4	140.5	122.5	119.5	118.3	-1.3	-12.9	-2.4	-1.0	-16.9	124.1	121.7		
Natural gas liquids	1321	3.4	100.9	107.6	104.9	104.7	100.0	93.9	-2.5	-0.2	-4.4	-6.1	-12.7	89.6	97.3		
STONE AND EARTH MINERALS	141	11.0	91.9	106.7	91.6	92.2	90.9	93.1	-14.2	.7	-1.4	2.5	-12.7	90.0	85.1		
Crushed stone	1421	2.4	142.1	147.7	126.8	146.0	146.2	149.4	-14.1	15.1	.1	2.2	1.1	137.2	116.0		
Sand and gravel	1441	2.0	96.5	99.0	78.9	97.0	101.9	108.2	-20.3	22.8	5.1	6.2	9.3	97.1	83.5		
Chemical & fertilizer mat.	1471	5.0	71.8	93.1	80.2	70.8	68.2	67.9	-13.9	-11.6	-3.7	-0.5	-27.1	68.8	70.1		
FOODS	201	42.4	121.0	120.9	112.7	118.2	131.2	121.9	-6.7	4.8	11.0	-7.1	.9	117.5	113.1		
Meat products	2011	6.9	113.1	109.8	104.0	111.0	123.2	114.2	-5.3	6.7	11.0	-7.3	4.0	110.7	102.6		
Dairy products	2021	5.3	124.3	116.4	113.6	125.9	137.5	120.2	-2.5	10.9	9.2	-12.6	3.2	115.1	115.8		
Canned and frozen foods	2031	5.7	133.8	134.7	121.3	126.5	149.1	138.1	-9.9	4.3	17.9	-7.4	2.5	131.1	122.6		
Grain mill products	2041	7.4	109.9	114.6	108.6	105.6	113.5	111.9	-5.2	-2.8	7.5	-1.5	-2.4	111.2	106.0		
Bakery products	2051	2.5	141.7	135.7	130.9	138.5	157.6	139.6	-3.6	5.9	13.8	-11.4	2.9	131.4	129.8		
Sugar and confectionery	2061	3.3	177.0	189.9	168.5	160.1	174.8	204.7	-11.2	-5.0	9.2	17.1	7.8	206.9	181.4		
Fats and oils	2071	3.4	110.8	117.0	114.9	107.7	111.0	109.7	-1.8	-6.3	3.1	-1.2	-6.2	103.9	101.8		
Beverages	2081	4.8	124.0	119.6	110.6	125.8	139.9	119.6	-7.5	13.8	11.2	-14.5	.0	112.4	112.1		
Misc. food preparations	2091	3.1	116.0	115.6	107.8	114.3	126.6	115.3	-6.8	6.1	10.7	-8.9	-0.3	110.8	107.5		
TOBACCO PRODUCTS	211	1.3	98.2	112.7	91.5	96.7	103.9	100.7	-18.8	5.7	7.4	-3.1	-10.7	86.5	80.5		
TEXTILE MILL PRODUCTS	221	28.3	99.0	98.3	87.7	101.1	105.5	101.7	-10.8	15.2	4.4	-3.6	3.4	96.6	83.0		
Fabrics	221-4	12.1	91.8	92.3	82.0	95.0	96.8	93.3	-11.1	15.8	2.0	-3.6	1.1	88.2	75.7		
Knit goods	2251	3.7	82.6	79.7	72.3	86.4	91.6	80.2	-9.4	19.6	6.1	-12.5	.5	75.1	65.7		
Fabric finishing	2261	2.2	123.5	122.8	113.7	120.4	131.5	128.4	-7.4	5.9	9.2	-2.4	4.6	124.6	105.7		
Yarn and thread	2281	6.7	113.3	113.1	96.9	114.6	121.4	120.9	-14.2	18.2	5.9	-0.9	6.5	115.1	94.9		
Miscellaneous textiles	2291	2.1	98.9	96.2	90.6	100.3	105.0	99.9	-5.8	10.7	4.7	-4.9	3.9	95.6	88.0		
APPAREL PRODUCTS	231	6.6	120.8	115.3	108.6	117.8	137.9	118.7	-5.9	8.5	17.1	-13.9	2.9	110.2	108.7		
Men's outerwear	2311	2.1	115.2	110.9	100.9	114.7	132.3	113.0	-9.0	13.7	15.3	-14.6	1.9	103.6	100.9		
Women's outerwear	2331	1.9	112.1	105.0	103.0	108.6	127.0	109.7	-1.9	5.5	16.9	-13.7	4.5	104.8	100.8		
LUMBER AND PRODUCTS	241	16.4	126.6	121.6	125.5	128.3	123.9	128.5	3.2	2.3	-3.5	3.8	5.7	127.8	129.0		
Lumber	2421	6.9	106.4	102.2	107.8	102.4	109.1	101.7	3.9	1.6	-5.0	6.5	6.8	108.5	107.4		
Millwork and plywood	2431	4.4	137.4	134.0	136.5	139.4	135.0	138.6	1.9	2.2	-3.2	2.6	3.5	141.1	143.3		
FURNITURE AND FIXTURES	251	4.2	128.8	124.1	126.4	126.1	130.1	132.7	1.8	-0.3	3.2	1.9	6.9	130.8	123.1		
Home furniture	2511	2.8	119.0	116.3	118.1	117.2	117.8	122.9	1.5	-0.8	.5	4.4	5.7	122.2	112.1		
PAPER AND PRODUCTS	261	71.9	120.7	118.1	117.9	120.9	122.2	121.6	-0.1	2.5	1.1	-0.6	3.0	120.7	118.4		
Wood pulp	2611	5.9	125.4	124.2	120.2	125.9	131.4	110	-3.2	4.7	4.3	4.7	126.2	122.1			
Paper	2621	34.4	129.4	124.6	127.0	131.2	131.1	128.2	1.9	3.3	-0.1	-2.2	2.9	126.3	126.2		
Paperboard	2631	22.1	101.6	105.6	100.7	103.7	99.0	102.9	-4.7	3.0	-4.5	3.9	-2.6	106.9	101.6		
Converted paper	2641	5.0	110.6	111.9	106.2	109.9	114.7	111.5	-5.1	3.5	4.4	-2.7	-0.3	109.8	103.1		
Paperboard containers	2651	3.4	117.4	112.9	109.6	114.4	124.0	121.6	-2.9	4.4	8.4	-1.9	7.7	117.6	116.5		
Building paper and board	2661	1.1	157.8	151.5	154.5	162.2	158.1	162.2	2.0	1.2	3.8	-2.5	4.4	157.3	147.5		
PRINTING AND PUBLISHING	271	10.6	149.2	140.1	133.5	145.7	168.1	150.4	-4.7	8.4	16.1	-10.5	7.4	144.5	141.7		
Newspapers	2711	2.6	126.2	119.6	112.9	125.8	141.5	124.6	-5.6	11.4	12.5	-11.9	4.2	122.9	122.9		
Commercial Printing	2751	4.8	170.0	156.5	149.2	162.4	193.0	175.5	-4.7	8.8	18.8	-9.1	12.1	167.0	162.4		
CHEMICALS AND PRODUCTS	281	162.1	83.3	80.5	81.5	82.6	85.2	83.8	1.3	1.3	3.1	-1.6	4.1	83.5	85.7		
Basic chemicals	2811	85.6	69.3	66.7	68.5	68.5	70.3	70.0	2.6	.0	2.7	-0.5	5.0	70.0	72.0		
Alkalies and chlorine	2812	13.3	88.4	81.4	87.9	94.5	88.5	82.6	8.1	7.4	-6.3	-6.7	1.5	81.4	84.6		
Inorganic chemicals,nec	2819	58.1	51.2	51.7	51.6	50.7	50.9	51.6	-0.1	-1.8	-4	1.4	-0.1	52.1	54.2		
Acid and fertilizer mat.	1	13.0	71.8	70.8	73.8	68.5	68.4	76.4	4.2	-7.2	-0.1	11.6	7.8	77.1	79.2		
Nuclear mats., nondefense	1	44.6	42.6	43.7	42.4	43.3	43.6	41.3	-3.0	2.1	-7	-5.3	-5.5	41.6	43.8		
Synthetic materials	2821	19.3	118.0	112.9	114.0	113.3	123.0	121.6	-.9	-0.6	8.6	-1.2	7.7	121.7	123.3		
Plastics materials	2821	9.2	151.2	136.4	142.0	137.3	162.2	163.1	4.1	-3.3	18.1	-.6	19.6	164.3	171.0		
Drugs	2831	4.1	146.5	138.5	129.5	147.9	162.7	146.0	-6.5	14.3	10.0	-10.3	5.4	140.1	135.3		
Soaps and toiletries	2841	2.1	126.1	119.5	120.6	125.8	134.8	123.2	-.9	4.2	7.2	-8.6	3.1	119.9	117.0		
Industrial organic chem.	2861	35.8	94.7	90.7	93.8	96.2	96.3	92.5	3.4	2.5	-.2	-3.9	2.0	94.9	96.1		
Farm chemicals	2871	10.5	86.5	91.5	85.8	93.0	83.5	83.7	-6.3	8.4	-10.2	-.3	-8.5	82.8	84.3		

Table 9A—continued
ELECTRIC POWER USE BY INDUSTRIES
Seasonally adjusted indexes, 1977 = 100

Series	SIC code	1977 bil. KWH	Indexes						Percentage change from previous quarter				Indexes			
			1986		1985		1986		1986		1986		1986		1987	
			AY9	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q4	DEC	JAN	
PETROLEUM PRODUCTS	29	34.7	118.6	113.5	115.0	117.1	118.8	123.3	1.3	1.9	1.4	3.8	8.6	121.8	119.5	
RUBBER & PLASTICS PRODUCTS	30	23.1	130.2	128.7	128.7	127.2	131.7	133.6	-0.0	-1.1	3.5	1.5	3.8	135.3	132.2	
Tires	301	5.4	70.3	76.6	71.2	67.3	72.4	70.5	-7.0	-5.5	7.6	-2.6	-7.9	71.0	69.6	
Rubber products, nec	306	2.2	96.5	95.5	97.1	93.0	97.8	98.1	1.7	-4.2	5.1	-4	2.8	99.0	98.3	
Plastics products, nec	307	14.2	173.9	168.5	170.3	171.2	174.9	179.3	1.0	-6	2.1	2.5	6.4	181.3	176.8	
LEATHER AND PRODUCTS	31	1.4	84.7	88.0	87.4	83.6	83.6	84.2	-0.6	-4.4	-1	.6	-4.3	82.7	81.7	
Shoes	314	.7	78.7	78.0	82.3	77.1	76.6	78.9	5.5	-6.3	-0.6	3.0	1.1	77.9	78.7	
CLAY, GLASS, AND STONE	32	31.4	105.3	105.3	106.7	105.7	104.2	105.1	1.3	-1.0	-1.4	.9	-0.2	107.2	106.1	
Flat glass	321	1.3	105.5	106.2	107.1	107.6	105.5	102.2	-9	-4	-1.9	-3.1	-3.7	113.0	111.2	
Pressed and blown glass	322	6.8	104.3	102.3	104.8	106.2	101.9	104.4	2.5	1.3	-4.0	2.4	2.0	103.5	105.7	
Cement	324	10.2	98.7	97.4	100.7	97.4	98.6	98.8	3.4	-3.4	1.3	.2	1.5	101.6	101.5	
Structural clay products	325	1.5	102.0	98.5	102.9	100.3	101.1	103.7	4.5	-2.6	-9	2.6	5.4	106.6	108.2	
Concrete products	327	3.6	112.2	111.7	113.5	111.8	111.2	112.6	1.7	-1.5	-0.5	1.2	.8	113.1	117.3	
PRIMARY METALS	33	171.3	74.7	79.3	78.4	75.4	71.5	73.6	-1.2	-3.9	-5.1	2.9	-7.3	74.8	72.7	
Basic steel and mill prod.	331	65.7	70.2	76.9	73.9	70.4	67.9	68.4	-3.9	-4.8	-3.5	.7	-11.1	69.3	66.2	
Iron and steel foundries	332	12.0	70.2	76.9	71.6	69.1	67.8	72.5	-6.8	-3.5	-2.0	7.0	-5.6	75.1	73.8	
Primary nonferrous metals	333	78.1	86.0	86.3	84.2	85.5	88.9	85.7	-2.4	1.6	3.9	-3.6	-0.7	86.8	90.7	
Aluminum	3334	70.3	72.4	76.2	80.2	73.2	64.9	72.3	5.3	-8.7	-11.4	11.5	-5.0	75.4	73.4	
Nonferrous foundries	336	2.1	115.3	110.0	115.6	115.3	115.8	114.5	5.1	-0.3	.5	-1.2	4.1	115.0	115.4	
FABRICATED METAL PRODUCTS	34	26.4	115.8	114.7	114.9	115.5	115.0	118.0	.2	.6	-0.5	2.6	2.9	119.4	119.1	
Metal cans	341	2.2	119.4	116.1	115.8	120.5	119.2	122.2	-0.3	4.1	-1.0	2.5	5.3	124.8	120.9	
Hardware	342	2.3	103.7	102.0	100.7	103.2	106.1	104.9	-1.3	2.5	2.9	-1.1	2.9	104.0	100.4	
Structural metal products	344	.8	111.5	111.8	107.9	110.8	113.1	114.5	-3.5	2.7	2.0	1.3	2.5	111.4	110.6	
Pasteners	345	1.6	105.3	99.1	102.9	104.3	105.9	108.3	3.8	-1.3	1.5	2.3	9.2	110.6	110.6	
Metal stampings	346	6.2	111.2	114.9	116.4	110.5	104.2	113.9	1.3	-5.1	-5.7	9.3	-0.9	117.5	110.1	
NONELECTRICAL MACHINERY	35	28.6	114.2	116.1	115.8	113.9	113.7	113.7	-0.3	-1.6	-0.1	-0.1	-2.1	113.7	111.2	
Engines and turbines	351	2.4	63.1	65.6	63.5	63.3	63.2	62.6	-3.1	-0.4	-0.1	-0.1	-4.5	65.0	62.9	
Farm equipment	352	2.1	51.3	54.2	52.0	49.8	51.9	51.8	-4.0	-4.2	4.1	-0.1	-4.3	51.9	44.8	
Construction equipment	353	5.1	78.3	87.3	82.2	78.7	77.1	75.4	-5.8	-4.3	-2.0	-2.3	-13.6	75.6	72.2	
Metalworking machinery	354	3.8	115.0	112.9	114.2	114.7	115.3	115.9	1.1	.5	.5	.5	.5	113.8	111.1	
Special industry machinery	355	2.0	101.2	100.1	101.9	99.9	103.3	100.0	1.8	-1.9	3.4	-3.2	-0.1	99.3	98.3	
General industrial mach.	356	4.6	108.4	108.7	108.2	108.7	109.1	107.7	-0.5	.5	.3	-1.3	-0.9	106.6	105.0	
Office and computing mach.	357	2.8	201.4	204.4	207.9	195.6	200.7	200.9	1.7	-5.9	2.6	-1	-1.7	197.3	199.7	
Service industry machinery	358	2.8	99.5	94.2	95.5	98.7	101.2	102.5	1.4	3.3	2.6	1.3	8.9	104.7	99.4	
ELECTRICAL MACHINERY	36	25.0	126.4	123.3	124.1	127.0	126.9	127.7	.7	2.3	-0.1	.6	3.6	128.8	126.5	
Elect. distribution equip.	361	1.5	97.1	101.9	98.6	99.8	95.7	94.3	-3.3	1.2	-4.0	-1.5	-7.5	92.7	89.8	
Elect. indust. apparatus	362	4.3	79.1	75.7	78.0	79.0	80.8	78.8	3.1	1.2	2.3	-2.4	4.1	80.2	80.2	
Household appliances	363	2.7	93.1	92.2	89.0	94.0	95.1	94.4	-3.5	5.7	1.2	-0.7	2.4	95.1	94.2	
Lighting and wiring prod.	364	2.3	100.3	99.6	101.6	101.3	99.9	98.5	2.0	-0.4	-1.3	-1.4	-1.1	98.4	103.1	
Radio and TV sets	365	.9	118.9	116.5	122.7	117.7	115.7	120.2	5.3	-4.0	-1.7	3.9	3.2	125.1	115.1	
Communication equipment	366	4.6	167.7	167.2	169.5	167.4	163.5	171.3	1.3	-1.2	-2.3	4.8	2.5	179.7	168.7	
Electronic components	367	6.0	179.1	169.5	176.2	180.0	180.7	179.7	3.9	2.2	.4	-0.6	6.0	178.7	178.9	
TRANSPORTATION EQUIPMENT	37	31.4	113.8	112.1	114.5	112.2	112.1	116.9	2.2	-2.1	.0	4.2	4.3	118.2	119.0	
Motor vehicles and parts	371	19.3	100.3	99.3	103.2	98.9	96.9	102.9	3.9	-4.1	-2.1	6.1	3.6	103.8	108.9	
Aircraft and parts	372	6.5	149.8	140.8	143.7	149.0	154.1	152.0	2.0	3.7	3.4	-1.3	7.9	154.0	150.9	
Ships and boats	373	2.1	111.0	116.6	113.0	106.2	109.0	116.0	-3.0	-6.1	2.7	6.4	-0.5	116.9	104.3	
INSTRUMENTS	38	5.5	149.9	146.5	149.2	149.5	150.4	150.8	1.9	.1	-6	-3	2.9	151.3	149.9	
Copiers and related equip.	386	1.4	134.2	128.9	136.9	134.0	135.5	130.0	6.2	-2.1	1.1	-4.1	.9	127.4	126.1	
MISCELLANEOUS MANUFACTURES	39	4.1	102.3	99.6	102.4	102.9	100.9	103.1	2.8	.5	-1.9	2.2	3.6	105.2	103.0	
SUPPLEMENTARY GROUPINGS																
TOTAL, LESS NUCLEAR NONDEFENSE		740.7	103.8	104.0	104.7	102.9	103.3	104.6	.6	-1.7	.3	1.3	.5	105.5	104.0	
UTILITY SALES TO INDUSTRY		715.7	99.9	100.6	100.7	98.9	99.4	100.9	.1	-1.8	.6	1.5	.3	102.2	100.2	
INDUSTRIAL GENERATION		70.1	84.3	84.9	86.2	83.2	81.7	86.3	1.5	-3.5	-1.7	5.6	1.6	86.4	82.4	

Note—The electric power use data by industry, shown in billions of kilowatt hours for 1977, are from the Census of Manufactures of that year and from other sources. They are provided for information and are not used as weights to compile the electric power use indexes. All index aggregations, with their detailed components, are calculated from the kilowatt hour data collected in the Federal Reserve survey of electric power use by industry. The electric power total includes only those major divisions of industries—mining and manufacturing—for which data are collected in this Federal Reserve survey. The total does not include gas or electric utility kilowatt hour use. The supplementary grouping, "Total, less nondefense, nuclear" is shown separately because the nondefense nuclear materials series (part of SIC 2819) accounts for a disproportionately large part of total electric power use. Since the value added proportion for this industry is a considerably smaller part of total IP than its share of total electric power use, excluding this component from total power use facilitates comparisons with total IP.

Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1977 = 100

Series	SIC code (bil. KWh)	Indexes								Percentage change from			Indexes		
		1977				1986				previous quarter		year ago	1986	1986	
		1986	1985	1986	Q4	Q1	Q2	Q3	Q4	1986	Q1	Q2	Q3	Q4	DPC
PETROLEUM PRODUCTS	29	34.7	118.6	112.8	112.2	115.6	124.0	122.5	-0.5	3.1	7.3	-1.2	8.6	122.0	119.3
RUBBER & PLASTICS PRODUCTS	30	23.1	130.2	127.8	126.0	128.7	133.6	132.7	-1.4	2.2	3.8	-0.7	3.8	128.1	121.5
Tires	301	5.4	70.3	76.3	68.8	68.0	74.1	70.2	-9.9	-1.0	8.9	-5.3	-8.0	66.5	63.6
Rubber products, nec	306	2.2	96.5	94.9	96.2	94.4	97.9	97.4	1.4	-1.9	3.7	-0.4	2.7	94.4	89.6
Plastics products, nec	307	14.2	173.9	167.1	167.1	173.2	177.5	177.8	-0.1	3.7	2.4	-2.1	6.4	172.0	162.4
LEATHER AND PRODUCTS	311	1.4	84.7	86.0	86.8	83.5	85.9	82.4	-9	-3.7	2.8	-4.1	-4.3	78.7	77.4
Shoes	314	.7	78.7	75.2	82.1	76.1	80.4	76.11	9.1	-7.3	5.7	-5.4	1.2	72.4	76.0
CLAY, GLASS, AND STONE	32	31.4	105.3	107.0	99.5	106.7	108.4	106.8	-6.9	7.2	1.6	-1.5	-0.2	104.6	96.7
Flat glass	321	1.3	105.5	105.8	104.9	107.2	108.1	101.8	-0.8	2.1	-9	-5.9	-3.8	107.4	107.9
Pressed and blown glass	322	6.8	104.3	102.7	101.3	106.1	105.1	104.8	-1.4	4.7	-0.9	-0.3	2.0	100.1	96.8
Cement	324	10.2	98.7	102.3	84.4	99.9	106.9	103.7	-17.5	18.3	7.0	-3.0	1.4	100.2	86.3
Structural clay products	325	1.5	102.0	100.8	98.8	100.7	102.2	106.2	-2.0	1.9	1.5	3.9	5.4	108.2	106.4
Concrete products	327	3.6	112.2	112.2	108.6	113.3	113.9	113.2	-3.2	4.3	.5	-0.6	.9	109.8	110.8
PRIMARY METALS	33	171.3	74.7	77.5	79.3	77.4	70.3	71.9	2.2	-2.3	-9.2	-2.3	-7.3	73.0	73.4
Basic steel and mill prod.	331	65.7	70.2	72.7	75.7	74.9	65.5	64.7	4.1	-1.1	-14.5	-1.2	-11.1	64.0	64.3
Iron and steel foundries	332	12.0	70.2	75.1	71.4	71.8	66.8	70.8	-4.9	.6	-7.0	6.0	-5.6	70.0	67.6
Primary nonferrous metals	333	78.11	86.0	88.8	82.9	85.8	87.2	88.3	-6.7	3.5	1.6	1.2	-0.6	91.3	90.5
Aluminum	3334	70.31	72.4	75.2	78.4	74.0	66.0	71.4	4.2	-5.6	-10.9	8.3	-5.0	75.5	76.3
Nonferrous foundries	336	2.11	115.3	110.7	116.2	115.5	114.2	115.2	4.9	-0.6	-1.1	.9	4.11	112.0	109.0
FABRICATED METAL PRODUCTS	34	26.4	115.8	113.0	114.4	115.5	117.0	116.2	1.2	1.0	1.4	-0.7	2.8	114.2	111.5
Metal cans	341	2.24	119.4	112.1	111.7	122.3	125.5	118.0	-0.3	9.5	2.7	-6.0	5.3	114.9	110.5
Hardware	342	2.31	103.7	101.0	100.2	102.9	107.8	104.0	-0.8	2.1	4.7	-3.6	2.9	99.6	94.8
Structural metal products	344	.8	111.5	110.8	110.8	108.8	112.9	113.5	.1	-1.8	3.7	.5	2.5	109.7	110.7
Fasteners	345	1.6	105.3	97.3	103.7	103.9	107.0	106.3	6.6	-2	3.0	-0.6	9.3	104.3	104.3
Metal stampings	346	6.2	111.2	112.5	116.7	112.0	104.6	111.4	3.7	-4.0	-6.6	6.6	-0.9	111.1	102.6
NON-ELECTRICAL MACHINERY	35	28.6	114.2	113.7	112.9	113.4	119.2	111.4	-0.7	.4	5.1	-6.5	-2.0	107.2	105.3
Engines and turbines	351	2.4	63.1	64.6	63.1	62.3	65.4	61.7	-2.3	-1.3	4.9	-5.6	-4.6	62.5	61.5
Farm equipment	352	2.11	51.3	52.1	54.4	50.1	50.9	49.9	4.4	-7.9	1.6	-2.1	-4.3	49.7	45.0
Construction equipment	353	5.11	78.3	86.1	81.0	77.9	80.0	74.4	-5.9	-3.8	2.7	-7.0	-13.6	73.9	69.5
Metalworking machinery	354	3.8	115.0	110.1	114.5	113.9	118.6	113.1	3.9	-0.5	4.1	-4.6	2.7	107.8	107.6
Special industry machinery	355	2.01	101.2	98.8	101.1	99.8	105.4	98.8	2.3	-1.3	5.6	-6.3	.0	95.7	94.0
General industrial mach.	356	4.6	108.4	106.3	106.6	109.5	112.0	105.4	.3	2.7	2.3	-5.9	-0.9	101.2	98.4
Office and computing mach.	357	2.8	201.1	202.6	197.3	191.9	215.9	199.4	-2.6	-2.7	12.5	-7.6	-1.5	186.6	188.7
Service industry machinery	358	2.8	99.5	91.3	92.6	99.3	106.6	99.4	1.4	7.2	7.4	-6.8	8.8	97.3	91.7
ELECTRICAL MACHINERY	36	25.0	126.4	121.6	120.3	126.3	133.0	126.0	-1.1	5.0	5.3	-5.3	3.6	122.0	118.2
Elect. distribution equip.	361	1.51	97.1	100.9	96.8	99.3	98.8	93.3	-4.1	2.6	-0.5	-5.5	-7.5	89.1	84.9
Elect. indust. apparatus	362	4.3	79.1	74.2	77.2	80.4	81.6	77.3	4.1	4.2	1.4	-5.3	4.1	75.8	76.4
Household appliances	363	2.71	93.1	90.0	89.8	95.5	94.8	92.2	-0.3	6.4	-0.8	-2.7	2.4	85.5	90.3
Lighting and wiring prod.	364	2.31	100.3	99.6	101.0	101.2	100.4	98.6	1.3	-3	-0.8	-1.8	-1.1	94.4	96.5
Radio and TV sets	365	.91	118.9	113.7	116.4	116.1	125.9	117.4	2.3	-0.2	8.4	-6.7	3.3	117.5	108.8
Communication equipment	366	4.61	167.7	164.3	158.4	165.0	179.1	168.1	-3.6	4.2	8.6	-6.2	2.3	165.0	154.0
Electronic components	367	6.01	179.1	168.4	167.3	178.5	192.3	178.4	-0.7	6.7	7.7	-7.2	6.0	170.8	164.7
TRANSPORTATION EQUIPMENT	37	31.4	113.8	109.3	110.7	113.4	117.2	114.0	1.3	2.4	3.3	-2.7	4.3	110.5	108.4
Motor vehicles and parts	371	19.3	100.3	96.5	99.1	101.4	100.7	100.0	-2.7	2.4	-0.8	-0.7	3.6	96.1	95.9
Aircraft and parts	372	6.51	149.8	141.0	137.5	148.1	161.5	152.1	-2.5	7.7	9.1	-5.8	7.9	149.2	140.6
Ships and boats	373	2.11	111.0	112.9	118.7	104.1	108.9	112.4	5.1	-12.3	4.6	3.2	-0.5	115.1	108.5
INSTRUMENTS	38	5.51	149.9	143.1	143.1	148.1	161.2	147.3	.0	3.5	8.9	-8.6	3.0	143.2	141.6
Copiers and related equip.	386	1.41	134.2	127.7	132.8	133.9	141.1	128.9	-4.0	.9	5.4	-8.7	1.0	124.4	121.9
MISCELLANEOUS MANUFACTURES	39	4.1	102.3	98.2	100.3	101.3	105.8	101.8	2.0	1.0	4.4	-3.8	3.6	99.5	96.7
SUPPLEMENTARY GROUPINGS															
TOTAL, LESS NUCLEAR NONDEFENSE	740.7	103.8	102.8	102.8	104.0	105.2	103.4	.0	1.2	1.1	-1.7	.5	102.2	100.7	
UTILITY SALES TO INDUSTRY	715.7	99.9	99.1	98.7	100.3	101.4	99.4	-0.4	1.6	1.1	-1.9	.3	98.2	96.9	
INDUSTRIAL GENERATION	70.1	84.3	82.6	87.7	83.5	82.1	83.9	6.1	-4.8	-1.7	2.3	1.6	85.6	87.6	

Explanatory Note

Coverage. The index is a measure of industrial production expressed as a percentage of output in a reference period (currently 1977). The changes in the physical output of the nation's factories, mines, and electric and gas utilities are represented by 252 individual series in the index, covering 27 pertinent two-digit codes of the *Standard Industrial Classification* (SIC). For each individual series, index series relatives are calculated first and are then aggregated in the following two ways: (1) market groupings, such as consumer goods, equipment, intermediate products, and materials, from which the seasonally adjusted total index is derived (tables 1A and 1B), and (2) industry groupings, such as SIC two-digit industries, and major aggregates of these groupings, such as durable and nondurable manufacturing, mining, and utilities (tables 2A and 2B).

Market groupings. For purposes of analysis the individual industrial output series are grouped into materials, intermediate products, and final products; together, the latter two form the products category. Materials are industrial output requiring further processing within industry; intermediate products are expected to become inputs in nonindustrial sectors such as construction, farming, and services; and final products are assumed to enter final use as items of private consumption, government use, or capital formation. In the index, final products are subdivided into consumer goods and equipment.

Timing. A first estimate of output for a month is published about the 15th of the following month. This estimate may be revised in each of the next three months as new data become available. 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 1971, 1976, and 1985. Such revisions are derived mainly from the quinquennial *Census of Manufactures*, the quinquennial *Census of Mineral Industries*, and the *Annual Survey of Manufactures*, all prepared by the Bureau of the Census, and the *Minerals Yearbook* of the Bureau of Mines.

Source data. The indexes of industrial production are constructed from monthly data of two types: (1) directly measured output in physical units; and (2) estimates of output derived from data on input, expressed in physical units, adjusted by conversion factors that relate these inputs to physical output. The data on directly measured physical product (pounds, yards, barrels, and the like) are obtained from reports of the Bureau of the Census, the Bureau of Mines, other government agencies, and trade associations. When suitable monthly data on physical product are unavailable, estimates of physical output based on input data (kilowatt hours, production-worker hours) are used. The hours worked by production workers are collected in the monthly establishment survey of the Bureau of Labor Statistics, while data on the kilowatt hours used in industry are collected from electric utilities by the Federal Reserve Banks. The estimates of input conversion are based mainly on historical relationships that were derived from censuses and annual surveys and, when appropriate, on more recent cyclical, technological and statistical developments. Users of the index should bear in mind that, especially for the first and second estimates of a given month's indexes, the available source data are limited and are subject to change in the months following their initial receipt as well as in benchmark revisions.

Seasonal adjustment. Individual series are seasonally adjusted by the X-11 Method II of the Bureau of the Census with the intervention analysis technique applied to the series. The seasonal factors currently being used are based on data through 1985. The individual series and the major aggregate series are seasonally adjusted independently, and the factors for the aggregate series in the summary table and in tables 1 and 2 are reviewed monthly. The seasonally adjusted total index is aggregated from the seasonally adjusted market groupings of the index and may not precisely equal an aggrega-

tion of the seasonally adjusted industry groupings. A simple aggregation of the seasonally adjusted individual series within groupings may not precisely equal the seasonally adjusted groupings, primarily because aggregates are adjusted independently.

Weights. The total index and the various groupings of the component series are currently aggregated on the basis of 1977 value-added weights, which are shown in the first column of the index tables under the heading proportions. Value-added weights for 1972 are used for the 1972-77 period, while 1967 weights are used for the 1967-72 period. The weight years for earlier periods after World War II are 1963, 1958, 1954, and 1947. The indexes for the various periods are linked to provide the continuous final results expressed in relation to the 1977 comparison year taken as 100. The gross-value-weighted product series are expressed in terms of 1982 dollars.

Formula. The symbolic expression for the total index (I) is

$$I_t = \sum \left(\frac{q_{77}p_{77}}{\sum q_{77}p_{77}} \right) \cdot \left(\frac{q_t}{q_{77}} \right) \cdot 100 = \frac{\sum q_t p_{77}}{\sum q_{77}p_{77}} \cdot 100,$$

where q is quantity, p is Census value added per unit of output, t represents the t th period, and 77 denotes base-year values.

Reliability. The median of the revisions in total industrial production, without regard to sign, between the first and fourth estimates is 0.3 percent: that is, in about half of the cases the absolute value of the revision from the first to the fourth estimate was less than 0.3 percent. (This calculation used data for the period from January 1972 to January 1985.) Over the same period, positive changes in the first estimate were confirmed in the fourth estimate (available three months later) about 94 percent of the time. Negative changes in the first estimate were confirmed in the fourth estimate about 85 percent of the time. Thus the likelihood is high that the first estimate for a month will indicate the direction of change in the total index in a reliable manner. However, the magnitude of change as first estimated typically is revised during the next three months; these revisions are based on revised and more complete data sources. The estimates for the higher aggregates generally are considered more reliable than the estimates for their individual components. Revisions to the components often offset each other and thereby reduce the size of revisions to the aggregates.

Rounding. Changes shown for index components may not aggregate to changes for totals because of independent rounding. Percentage changes are calculated from indexes expressed in more digits following the decimal point than shown in their rounded form in the present release. Therefore, percentage changes calculated from the rounded indexes may not entirely coincide with the percentage changes calculated from unrounded indexes.

Literature. *Industrial Production—1986 Edition* contains a more detailed description of the index and the procedures used in compiling it, plus a history of its development, a glossary of terms, and a bibliography. The new edition was published in December 1986. To obtain copies of *Industrial Production—1986 Edition*, write to the Publication Services, Board of Governors of the Federal Reserve System, Washington, D.C. 20551. The price of this volume of about 440 pages is \$9.00 per copy. Selected data on industrial production are also published monthly in the Financial and Business Statistics section of the *Federal Reserve Bulletin*.

Release date. The industrial production index is released in mid-month. For the specific date, phone 202-452-3206 about the 11th of the month.