



FEDERAL RESERVE statistical release

G.12.3

For release at 9:15 am EDT
August 15, 1986

INDUSTRIAL PRODUCTION

Industrial production edged down an estimated 0.1 percent in July after declining 0.3 percent in June and 0.5 percent in May. Despite strike-related rebounds, mainly in communication equipment, activity remained generally sluggish. Output of consumer goods and durable materials was off in July and the weakness in most business equipment industries continued. At 124.1 percent of the 1977 average, the total index was at about the same level as a year earlier and about 2 percent lower than its peak level in January 1986.

Market Groupings. Output of consumer goods decreased 0.3 percent in July after a similar decline in June. Auto assemblies fell to an annual rate of 7.6 million units from an 8.0 million unit rate in June, but the decline was largely offset by gains in production of light trucks. Production of home goods, which rose very rapidly in the latter part of 1985, edged down in July and is off 4-1/4 percent so far this year. Nondurable consumer goods output fell 0.3 percent last month. The output of total business equipment was unchanged in July after substantial declines in May and June. Most business equipment groups declined except commercial equipment, which rebounded 1.4 percent in July owing largely to a resumption of production in telephone equipment after the strike curtailment in June. Elsewhere in the equipment sector, the defense and space component continued to edge up, while oil and gas well drilling was reduced again--but much less than in other recent months and with a negligible effect on overall industrial output. Production of construction supplies rose 0.4 percent in July after a 1.6 percent drop in June.

Materials production was little changed in July as durable goods materials decreased while nondurable goods, such as chemicals and paper, as well as energy materials both rose. (Continued on next page)

(See revision announcement on page 2)

Industrial Production: Summary

Seasonally adjusted

Item	Index, 1977 = 100		Monthly percent change					Current month from a year ago
	JUN	JUL	MAR	APR	MAY	JUN	JUL	
Total	124.2	124.1	-0.9	.7	-0.5	-0.3	-0.1	-1
Market Groupings								
Products, total	132.0	131.9	-0.7	.9	-0.4	-0.6	-0.1	-2
Final products	131.0	130.9	-1.0	1.0	-0.6	-0.7	-0.1	-0.7
Consumer goods	124.2	123.9	-0.5	1.8	-0.1	-0.3	-0.3	3.1
Durable goods	113.7	113.6	-2.9	2.8	-2.5	-4	-0.1	2.1
Nondurable goods	128.1	127.7	.3	1.4	.7	-0.5	-0.3	3.5
Business equipment	136.8	136.9	-1.4	.9	-1.3	-1.2	-0	-3.1
Defense and space	179.3	179.5	1.0	.1	.2	-1	.1	3.2
Intermediate products	135.4	135.4	.0	.8	.4	-0.3	.0	3.6
Construction supplies	122.7	123.2	.0	.8	.2	-1.6	-4	3.2
Materials	113.5	113.6	-1.3	.2	-0.7	.1	.0	-0.2
Industry Groupings								
Manufacturing	128.0	128.0	-0.7	.8	-0.2	-0.5	.0	.8
Durable	126.4	126.3	-1.0	.6	-0.8	-0.8	.0	-1.2
Nondurable	130.3	130.2	-0.1	1.1	.6	-0.1	.0	3.7
Mining	99.6	99.2	-2.5	-1.1	-1.6	-0.3	-0.4	-8.7
Utilities	111.6	111.4	-0.2	.2	-0.9	.2	-0.2	.6

Industry Groupings. Manufacturing output in July was unchanged after declining in May and June. During the past year total manufacturing increased only slightly as nondurables gained about 4 percent but durables were reduced more than a percent. Production at mines and utilities fell 0.3 percent further in July and the output of mines (which includes oil drilling and extraction) was almost 9 percent lower than a year ago.

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In September revised indexes of industrial production will be issued for the period from January 1984 through mid-1986. The revision is based on data unavailable at the time the original estimates were made and also incorporates updated seasonal adjustment factors developed from data through 1985. The September G.12.3 statistical release will contain the revised indexes both in seasonally adjusted and not seasonally adjusted form. A computer tape including all revisions will be available.

FEDERAL RESERVE



Industrial Production

INDUSTRIAL PRODUCTION

JULY DATA

SEASONALLY ADJUSTED, RATIO SCALE, 1977=100

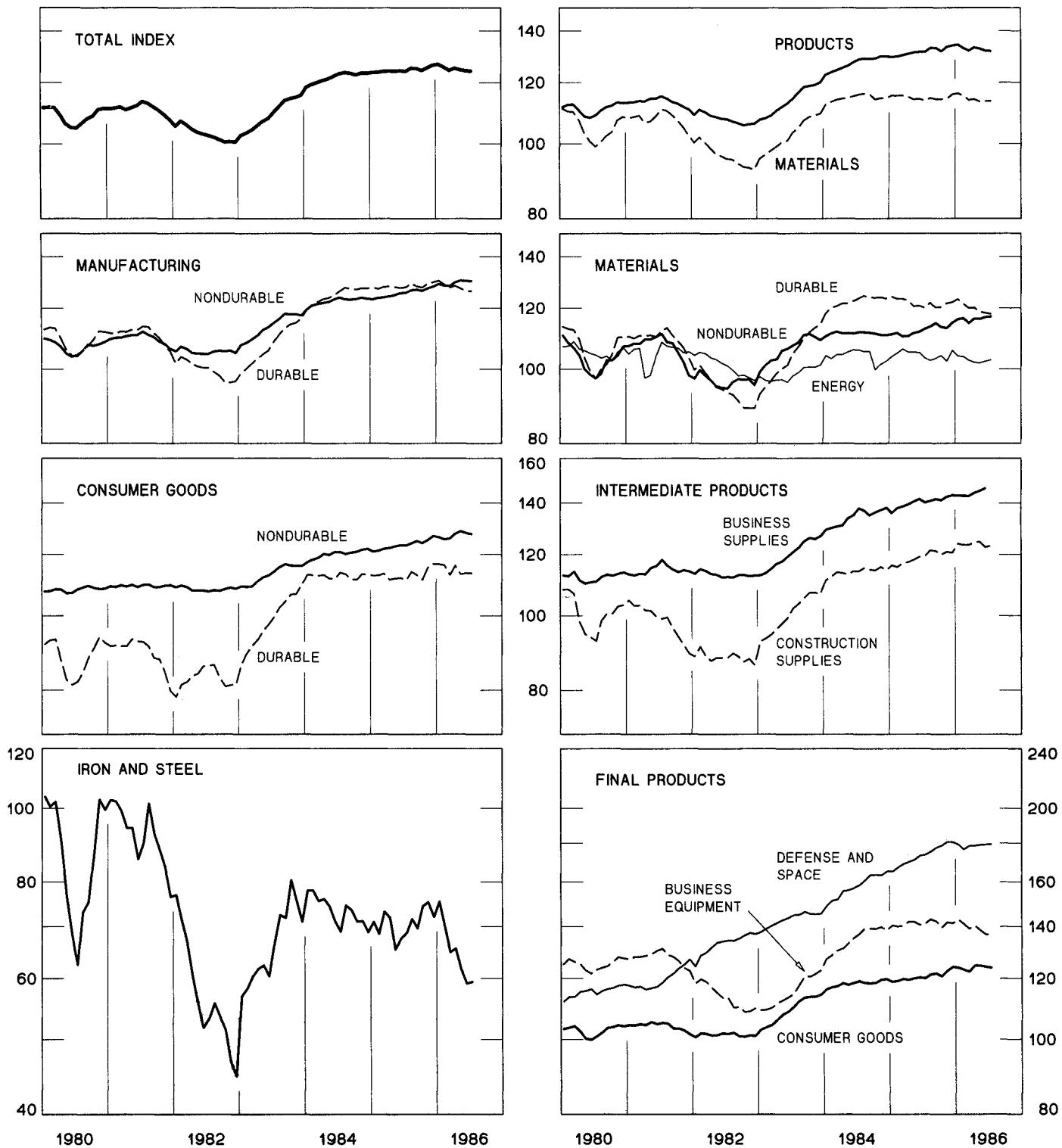


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPINGS
Seasonally adjusted, 1977 = 100

Major Market Groupings	1977	1985	1985 Avg.	1985				1986									
	Proportion	Jan.		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
TOTAL INDEX	100.00	124.5	124.1	125.2	125.1	124.4	125.4	126.4	126.7	125.6	124.4	125.3	124.6	124.2	124.1		
PRODUCTS, TOTAL	57.72	131.7	131.6	133.0	133.1	131.8	133.5	134.1	134.4	133.1	132.1	133.3	132.8	132.0	131.9		
FINAL PRODUCTS	49.77	132.0	131.8	133.3	133.3	131.9	133.7	134.0	134.4	132.8	131.5	132.8	131.9	131.0	130.9		
CONSUMER GOODS	25.52	120.7	120.1	121.5	121.8	120.8	122.7	124.2	123.9	123.2	122.5	124.7	124.6	124.2	123.9		
EQUIPMENT, TOTAL	19.25	147.0	147.3	149.0	148.6	146.6	148.3	147.9	148.4	145.5	143.4	143.5	141.7	140.1	140.1		
INTERMEDIATE PRODUCTS MATERIALS	12.94	130.6	130.7	132.0	132.3	131.5	132.7	132.9	134.4	134.1	134.1	135.2	135.8	135.4	135.4		
	42.28	114.7	113.8	114.5	114.2	114.3	115.9	116.2	115.4	114.0	114.3	113.5	113.5	113.5	113.6		
CONSUMER GOODS	25.52	120.7	120.1	121.5	121.8	120.8	122.7	124.2	123.9	123.2	122.5	124.7	124.6	124.2	123.9		
DURABLE CONSUMER GOODS	6.89	112.9	111.1	111.3	114.0	112.9	111.4	115.5	116.8	116.6	116.3	113.0	116.2	113.2	113.7	113.6	
Automotive products	2.98	115.1	111.5	120.0	117.8	112.9	116.8	116.6	117.0	118.3	112.8	118.6	115.1	115.8	115.8		
Autos and trucks, consumer	1.79	112.0	111.3	120.2	116.2	108.7	113.7	112.0	116.2	118.8	107.6	116.0	110.7	112.8	112.7		
Autos, consumer	1.16	98.9	101.1	101.3	98.8	92.3	94.9	99.9	103.6	107.0	95.1	101.0	94.5	99.6	95.3		
Trucks, consumer	.63	136.3	137.2	155.4	149.7	139.1	148.6	134.5	139.5	140.6	130.6	143.9	140.9	137.2			
Auto parts & allied gds	1.19	119.8	116.8	119.6	119.5	121.4	121.4	123.4	118.2	117.7	120.6	122.5	121.6	120.3	120.4		
Home goods	3.91	111.3	110.8	109.5	109.3	110.2	114.5	116.9	116.4	114.8	113.2	114.3	111.8	112.1	111.9		
Appliances, TV & air-cond	1.24	129.6	121.6	124.5	123.7	126.3	139.4	145.4	138.8	136.5	135.5	140.0	131.0	132.2	132.6		
Appliances and TV	1.19	130.4	123.2	125.5	125.6	128.6	141.9	148.4	141.5	139.1	137.9	141.8	133.0	133.7			
Carpeting & furniture	.96	118.9	122.2	119.5	120.2	120.1	122.9	118.9	122.3	121.9	118.4	119.1	120.9	120.5			
Misc. home goods	1.71	93.7	91.2	93.0	92.7	92.9	91.9	95.2	96.9	95.1	94.1	93.1	92.9	92.8			
NONDURABLE CONSUMER GOODS	18.63	123.6	123.4	124.2	125.1	124.3	125.4	127.0	126.5	125.7	126.0	127.8	128.8	128.1	127.7		
Clothing	3.34	96.8	96.3	96.4	97.9	98.0	100.0	99.4	100.7	98.0	97.8	99.3	98.5	97.7			
Consumer staples	15.29	129.4	129.3	130.3	131.0	130.1	131.0	133.0	132.2	131.7	132.2	134.0	135.4	134.7	134.1		
Consumer foods & tobacco	7.80	129.7	130.1	130.8	131.5	129.5	130.7	132.4	131.3	131.9	131.1	132.7	133.3	132.8			
Nonfood staples	7.49	129.1	128.5	129.7	130.5	130.6	131.2	133.6	133.1	131.5	133.3	135.5	137.6	136.8	136.1		
Consumer chem. products	2.75	147.5	145.4	149.1	151.4	149.4	152.4	152.9	153.8	155.6	155.4	158.0	160.1	159.8			
Consumer paper products	1.88	143.8	144.9	143.9	144.7	145.5	145.7	148.0	144.4	141.2	146.5	147.5	152.2	151.7			
Consumer energy	2.86	101.9	101.5	101.8	101.0	102.9	101.4	105.6	105.8	102.1	103.5	106.0	106.4	104.9			
Consumer fuel	1.44	88.6	89.2	91.1	85.8	90.2	90.1	92.3	93.9	91.4	91.0	94.1	95.7	92.6			
Residential utilities	1.42	115.5	114.0	112.7	116.5	115.8	112.9	119.2	117.8	113.0	116.2	118.2	117.3				
EQUIPMENT, TOTAL	19.25	147.0	147.3	149.0	148.6	146.6	148.3	147.9	148.8	145.5	143.4	143.5	141.7	140.1	140.1		
BUSINESS & DEFENSE EQUIP.	18.01	147.8	147.9	149.7	149.4	147.5	149.7	149.4	150.3	148.3	147.1	148.1	146.8	145.5	145.6		
BUSINESS EQUIPMENT	14.34	147.2	144.3	143.0	142.2	139.6	141.7	141.4	142.9	141.1	139.3	140.3	138.5	136.8			
Constr., mining, & farm	2.08	67.7	68.6	67.2	67.0	65.9	68.2	68.3	67.7	65.3	62.4	60.9	62.7	62.7			
Manufacturing equipment	3.27	112.8	113.5	115.1	114.8	111.7	112.8	112.8	113.1	114.1	113.9	113.5	113.3	111.0			
Power equipment	1.27	83.8	85.6	84.5	85.1	85.5	84.7	87.1	84.5	83.4	82.5	82.8	82.6	82.0			
Commercial equipment	5.22	219.0	219.5	222.8	219.4	213.9	217.7	217.9	219.2	216.4	215.6	216.4	212.7	208.7	211.6		
Transit equipment	2.49	106.1	103.3	106.0	108.3	109.7	111.2	107.7	114.6	111.4	105.0	112.0	108.1	109.9	105.2		
DEFENSE & SPACE EQUIPMENT	3.67	173.6	173.9	175.5	177.5	178.7	180.7	180.7	179.3	176.7	178.5	178.6	179.1	179.3	179.5		
INTERMEDIATE PRODUCTS	12.94	130.6	130.7	132.0	132.3	131.5	132.7	132.9	134.4	134.1	134.1	135.2	135.8	135.4	135.4		
Construction supplies	5.95	118.9	119.4	121.5	121.3	120.0	120.9	120.7	124.0	123.5	123.5	124.5	124.7	122.7	123.2		
Business supplies	6.99	140.5	140.3	140.9	141.7	141.2	142.7	143.3	143.2	143.1	143.0	144.3	145.2	146.2			
Gen. business supplies	5.67	144.3	144.4	145.1	145.4	144.8	146.7	146.8	147.2	146.7	146.9	148.2	149.0	150.5			
Commercial energy prod.	1.31	124.0	122.7	122.5	125.7	125.7	125.3	128.1	125.9	127.5	126.4	127.3	129.0	127.8			
MATERIALS	42.28	114.7	113.8	114.5	114.2	114.2	114.3	115.9	116.2	115.4	114.0	114.3	113.5	113.5	113.6		
DURABLE GOODS MATERIALS	20.50	121.8	120.2	121.8	120.2	120.4	121.7	122.1	123.2	121.5	120.0	120.2	118.7	118.3	118.0		
Consumer durable parts	4.92	100.7	98.3	100.0	99.0	100.2	101.6	101.5	103.9	103.2	100.7	99.6	97.5	97.6			
Equipment parts	5.94	158.9	157.0	158.7	156.5	154.0	155.0	155.1	154.8	154.0	153.4	154.2	151.9	151.1	150.8		
Durable materials nec	9.64	141.9	140.6	110.2	108.7	109.9	111.4	112.3	113.7	110.9	109.3	109.7	109.1	108.6	108.5		
Basic metal materials	4.64	84.8	82.5	85.1	82.8	85.8	87.6	88.5	87.5	83.4	81.2	81.9	80.1	78.3			
NONDURABLE GOODS MATERIALS	10.09	112.3	112.8	113.5	114.7	113.4	113.0	114.9	116.1	116.4	114.7	116.3	116.1	116.8	117.0		
Textile, paper, & chem. mater.	7.53	112.6	113.5	113.8	115.1	113.5	113.2	115.2	116.4	116.8	115.3	116.5	116.4	116.9	117.4		
Textile materials	1.52	98.3	100.2	104.4	104.1	101.2	104.4	102.1	103.2	107.3	104.9	106.9	107.1	108.0			
Pulp & paper materials	1.55	123.9	125.0	122.8	123.7	121.1	123.0	129.3	129.5	128.2	127.2	129.0	127.9	130.9			
Chemical materials	4.46	113.6	114.0	113.8	115.9	115.0	112.8	114.8	116.3	116.1	114.6	115.5	115.1				
Misc. nondurable materials	2.57	111.3	110.8	112.7	113.5	113.3	112.5	113.9	115.3	115.2	113.2	115.6	115.5	116.4			
ENERGY MATERIALS	11.69	104.4	103.5	102.7	103.4	104.2	102.5	105.8	104.1	103.9	102.7	102.1	101.9	102.4	102.9		
Primary energy	7.57	107.9	107.4	106.4	106.8	108.2	106.7	109.0	106.8	107.6	107.1	107.3	106.7	106.8			
Converted fuel materials	4.12	98.1	96.2	95.9	97.0	96.8	94.7	100.1	99.1	97.0	94.8	92.5	93.1	94.4			

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	1985	1985						1986						
	Proportion	Ann.	Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
TOTAL INDEX	100.00	124.5	122.2	127.4	129.2	127.0	124.9	122.2	123.2	125.4	124.0	124.3	124.0	127.0	122.3
PRODUCTS, TOTAL	57.72	131.7	131.0	136.8	139.4	135.6	133.1	129.11	129.7	131.2	130.1	131.1	131.3	135.5	131.3
FINAL PRODUCTS	44.77	132.0	130.9	136.5	139.1	135.4	133.1	129.61	130.6	131.6	130.0	130.4	130.5	134.6	130.0
CONSUMER GOODS	25.52	120.7	119.2	126.2	129.0	125.7	121.9	116.91	119.1	121.4	120.0	122.3	122.7	128.3	122.8
EQUIPMENT, TOTAL	19.25	147.0	146.4	150.1	152.4	148.3	148.0	146.31	145.8	145.2	143.2	141.2	140.8	142.9	139.4
INTERMEDIATE PRODUCTS MATERIALS	12.94	130.6	131.2	137.8	140.4	136.1	132.8	127.61	127.0	129.9	130.5	133.6	134.2	138.7	136.0
	42.28	114.7	110.2	114.6	115.4	115.4	113.9	112.61	114.3	117.5	115.8	115.1	114.0	115.5	109.9
CONSUMER GOODS	25.52	120.7	119.2	126.2	129.0	125.7	121.9	116.91	119.1	121.4	120.0	122.3	122.7	128.3	122.8
DURABLE CONSUMER GOODS	6.89	112.9	100.1	110.2	116.0	120.8	116.5	104.61	112.3	117.9	115.5	119.4	115.7	119.6	101.4
Automotive products	2.98	115.1	95.5	108.6	118.1	123.1	117.9	101.91	115.9	122.3	118.3	123.7	119.8	124.9	98.6
Autos and trucks, consumer	1.79	112.0	92.1	99.9	113.3	121.8	116.5	90.31	115.0	126.0	117.0	124.4	119.9	127.6	88.1
Autos, consumer	1.161	98.91	84.7	79.5	95.9	104.7	101.2	78.51	105.3	112.5	102.2	108.3	102.0	111.6	72.2
Trucks, consumer	0.63	136.3	105.9	137.9	145.5	153.6	144.9	112.41	133.0	151.1	144.5	154.2	153.0	157.2	
Auto parts & allied gds	1.19	119.8	110.8	121.7	125.4	125.2	120.0	119.31	117.2	116.8	120.4	122.7	119.7	120.8	114.4
Home goods	3.91	111.3	100.6	111.3	114.4	119.0	115.4	106.71	109.5	114.5	113.4	116.0	112.6	115.5	103.6
Appliances, TV & air-cond	1.24	129.6	107.2	123.6	127.1	144.2	141.7	120.91	134.0	138.7	135.9	144.9	134.6	136.5	118.1
Appliances and TV	1.19	130.4	108.8	127.1	130.7	148.3	145.4	123.91	136.1	140.4	136.7	144.1	135.2	137.5	
Carpetting & furniture	.96	118.9	113.1	121.1	127.4	125.3	123.0	115.21	125.5	123.1	120.3	121.7	119.7	124.1	
Misc. home goods	1.71	93.7	88.8	96.9	97.9	97.3	92.1	91.71	90.1	92.2	93.2	91.9	92.7	95.5	
NONDURABLE CONSUMER GOODS	18.63	123.6	126.3	132.2	133.9	127.5	123.9	121.51	121.6	122.6	121.7	123.4	125.3	131.5	130.8
Clothing	3.34	96.81	93.9	101.7	103.0	100.4	98.8	94.81	95.2	97.1	97.8	98.4	98.5	101.9	
Consumer staples	15.29	129.4	113.3	138.8	140.6	133.5	129.4	127.31	127.3	128.2	126.9	128.9	131.2	138.0	138.4
Consumer foods & tobacco	7.80	129.7	131.6	138.6	140.8	136.5	130.2	125.31	124.6	126.4	126.2	128.8	130.6	137.1	
Nonfood staples	7.49	129.1	135.2	139.0	140.4	130.3	128.7	129.41	130.2	130.2	127.6	129.0	131.8	138.9	143.1
Consumer chem. products	2.75	147.5	155.1	159.7	166.7	153.2	150.6	144.11	143.6	148.8	147.6	150.9	155.5	165.3	
Consumer paper products	1.88	143.8	151.1	157.7	156.1	148.1	141.9	139.91	136.6	136.9	142.0	142.3	148.3	154.0	
Consumer energy	2.86	101.9	105.7	107.0	104.8	96.7	99.0	108.41	113.1	107.8	99.0	99.2	98.2	103.7	
Consumer fuel	1.44	88.6	91.6	91.5	87.0	90.1	93.2	95.71	92.0	86.7	85.0	90.3	96.6	95.9	
Residential utilities	1.42	115.5	120.0	122.8	122.9	103.4	104.8	121.41	134.7	129.3	113.2	108.3	99.9		
EQUIPMENT, TOTAL	19.25	147.0	146.4	150.1	152.4	148.3	148.0	146.31	145.8	145.2	143.2	141.2	140.8	142.9	139.4
BUSINESS & DEFENSE EQUIP.	18.01	147.8	147.4	151.0	153.5	149.2	149.0	147.31	147.2	148.0	147.1	145.8	145.9	148.5	145.0
BUSINESS EQUIPMENT	14.34	141.2	141.0	145.2	147.5	142.1	140.8	137.81	138.6	140.4	138.8	137.5	137.5	140.6	136.6
Constr., mining, & farm	2.08	67.71	67.5	67.6	69.4	66.2	67.0	66.91	65.4	67.3	63.3	60.4	62.2	63.5	
Manufacturing equipment	3.27	112.8	112.3	115.9	117.8	112.7	112.2	111.41	109.4	114.7	114.7	114.7	112.3	113.3	109.9
Power equipment	1.27	83.8	83.2	85.5	88.5	86.4	85.5	87.01	82.2	83.1	82.3	81.3	81.2	83.5	79.9
Commercial equipment	5.22	219.0	224.7	231.4	230.8	218.7	216.3	213.21	212.1	212.3	211.8	207.7	208.6	213.3	216.5
Transit equipment	2.49	106.1	94.4	98.3	107.6	112.4	110.5	100.01	113.2	113.9	109.9	116.1	113.5	117.9	96.7
DEFENSE & SPACE EQUIPMENT	3.67	173.6	172.1	173.6	176.2	180.7	180.7	178.41	180.7	177.6	179.2	178.3	178.7	179.3	177.7
INTERMEDIATE PRODUCTS	12.94	130.6	131.2	137.8	140.4	136.1	132.8	127.61	127.0	129.9	130.5	133.6	134.2	138.7	136.0
Construction supplies	5.95	118.9	118.9	124.8	126.1	124.5	121.5	115.31	116.3	118.5	121.3	125.4	126.1	127.9	122.8
Business supplies	6.99	140.5	141.7	148.9	152.5	146.0	142.4	138.11	136.1	139.6	138.4	140.6	141.1	147.9	
Gen. business supplies	5.67	144.3	144.1	153.0	156.1	151.6	147.3	141.81	138.9	141.9	142.9	145.1	145.7	151.6	
Commercial energy prod.	1.31	124.0	131.0	131.1	137.4	122.1	121.1	122.01	124.0	129.5	118.9	121.0	121.1	131.9	
MATERIALS	42.28	114.7	110.2	114.6	115.4	115.4	113.9	112.61	114.3	117.5	115.8	115.1	114.0	115.5	109.9
DURABLE GOODS MATERIALS	20.50	121.8	117.1	121.2	122.3	122.0	120.6	118.71	119.0	122.1	121.8	121.6	120.4	121.4	119.1
Consumer durable parts	4.92	100.71	94.7	98.8	101.4	102.1	101.5	99.81	100.5	103.6	102.7	100.8	98.7	99.7	93.1
Equipment parts	5.94	158.9	153.8	156.4	157.0	154.3	155.6	156.51	154.3	153.4	154.6	152.8	152.1	153.1	148.1
Durable materials nec	9.64	109.7	105.9	111.0	111.5	112.3	108.7	105.11	106.7	112.3	111.3	113.0	112.0	113.0	105.9
Basic metal materials	4.64	84.8	77.0	82.2	82.2	84.9	81.7	79.41	84.7	86.8	86.7	88.9	86.0	82.7	
NONDURABLE GOODS MATERIALS	10.09	112.3	106.4	113.1	116.0	115.6	113.7	108.41	113.5	119.4	117.3	118.6	117.4	119.0	110.2
Textile, paper, & chem. mater.	7.53	112.6	106.8	112.7	116.0	114.2	109.6	113.9	119.9	118.6	118.7	118.5	119.0	110.5	
Textile materials	1.52	98.3	84.3	107.5	104.6	104.7	106.1	93.31	103.8	110.9	108.7	108.3	112.2	110.2	
Pulp & paper materials	1.55	123.9	117.2	122.8	124.1	122.9	124.4	118.21	127.6	132.9	132.6	131.3	129.0	132.5	
Chemical materials	4.46	113.6	110.8	110.9	117.1	114.5	113.4	112.21	112.6	118.5	117.1	117.8	117.0	117.3	
Misc. nondurable materials	2.57	111.3	105.4	114.5	115.9	119.6	112.1	104.71	112.5	118.0	113.7	118.3	114.3	119.2	
ENERGY MATERIALS	11.69	104.4	101.4	104.3	102.9	103.5	102.4	105.61	106.9	107.7	103.8	100.5	99.6	102.1	100.6
Primary energy	7.57	107.9	103.7	107.5	107.1	109.8	106.4	107.71	107.5	110.5	109.1	106.4	105.6	106.5	
Converted fuel materials	4.12	98.1	97.1	98.4	95.2	91.9	94.8	101.71	105.6	102.4	94.1	89.6	88.7	94.0	

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	1985	1985						1986						
		Pro-1	Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
MINING AND UTILITIES		15.79	110.71	109.4	109.1	110.3	109.9	108.9	110.8	110.2	108.0	106.2	105.6	104.2	104.1	103.8
Mining	9.83	109.01	108.7	108.3	108.4	108.4	106.9	107.4	107.4	105.3	102.7	101.5	99.8	99.6	99.2	99.2
Utilities	5.96	113.41	110.7	110.3	113.2	112.4	112.2	116.5	114.6	112.4	112.2	112.4	111.4	111.6	111.4	111.4
MANUFACTURING		84.21	127.1	126.9	128.2	127.7	127.2	128.4	129.1	129.8	128.8	128.0	129.0	128.7	128.0	128.0
Non-durable	35.11	125.61	125.6	126.6	126.9	126.4	127.3	128.0	129.1	128.5	128.3	129.7	130.4	130.3	130.2	130.2
Durable	49.10	128.21	127.9	129.4	128.3	127.7	129.2	129.9	130.4	129.0	127.7	128.4	127.5	126.4	126.3	126.3
Mining																
Metal mining	101	.50	75.01	60.9	73.1	71.4	74.2	78.3	74.3	75.5	77.2	78.1	77.3			
Coal	11,12	1.60	127.51	128.0	127.7	126.3	130.1	125.5	128.0	130.6	124.9	123.5	124.5	122.4	127.0	
Oil & gas extraction	131	7.07	106.34	106.9	105.5	106.0	104.8	103.5	104.4	103.6	101.4	98.5	96.4	95.1	93.7	93.0
Stone & earth minerals	141	.66	118.31	116.6	117.7	119.3	120.4	119.0	114.0	117.1	120.2	115.2	118.9	116.3	117.4	
Non-durable manufactures																
Foods	201	7.96	131.01	132.2	132.6	132.5	130.7	131.4	132.6	133.2	133.8	133.0	134.0	135.1	134.3	
Tobacco products	211	.62	100.11	96.0	97.8	105.3	104.5	103.5	99.3	97.9	93.0	101.4	101.5			
Textile mill products	221	2.29	103.01	104.1	106.3	106.7	104.9	108.0	106.3	107.4	110.4	108.4	110.1	110.8	111.3	
Apparel products	231	2.79	101.81	100.6	100.4	101.8	102.6	103.9	105.0	105.8	103.6	104.0	104.3	103.7	103.1	
Paper & products	261	3.15	127.61	129.0	127.5	128.6	128.2	132.3	133.1	132.1	132.0	132.6	132.7	134.4		
Printing & publishing	271	4.54	155.21	154.3	156.3	156.2	157.0	159.0	158.4	158.9	155.4	158.1	162.0	163.0	163.9	163.8
Chemicals & products	281	8.05	127.11	126.4	128.2	129.0	127.9	128.0	128.5	130.5	130.9	131.1	132.1	132.0	131.7	
Petroleum products	291	2.40	86.81	88.3	88.2	85.9	87.7	87.3	88.7	92.6	88.4	87.8	91.3	94.6	91.6	90.8
Bubble & plastics prod.	301	2.80	146.91	145.6	148.0	148.6	148.7	150.5	150.0	150.5	150.7	149.0	147.8	149.8	150.4	
Leather & products	311	.53	70.81	72.2	72.7	72.3	71.4	72.1	69.9	67.5	67.0	65.4	64.6	62.1	62.0	
Durable manufactures																
Lumber & products	241	2.30	112.91	113.0	114.8	115.9	116.5	115.6	116.5	119.9	118.2	118.5	119.4	119.8		
Furniture & fixtures	251	1.27	141.61	145.3	144.3	143.2	141.9	144.1	142.1	143.9	145.4	145.0	147.5	148.3	148.2	
Clay, glass, stone prod.	321	2.72	115.01	115.1	116.2	116.2	115.6	115.2	118.2	120.2	118.8	120.0	121.5	120.5	121.7	
Primary metals	331	5.33	80.61	79.0	82.0	80.3	83.1	83.6	81.7	84.9	80.7	77.4	78.1	75.7	72.5	73.3
Iron & steel	331,21	3.49	70.61	68.7	71.6	69.7	74.4	75.3	72.0	75.5	69.9	64.9	65.6	61.7	59.1	
Fabricated metal prod.	341	6.46	107.91	107.3	107.8	107.5	108.4	107.9	108.8	109.3	109.4	108.5	107.6	107.3	107.0	106.5
Nonelectrical machinery	351	9.54	146.41	147.5	149.2	146.5	143.0	145.6	146.0	146.2	144.6	143.2	142.0	141.6	139.8	139.5
Electrical machinery	361	7.15	169.31	165.7	166.1	165.1	165.1	168.9	171.9	167.9	165.5	165.6	166.7	166.0	162.6	164.4
Transportation equip.	371	9.13	123.21	123.7	126.8	126.2	124.5	126.5	126.8	128.9	128.1	124.3	127.9	125.4	126.7	126.1
Motor vehicles & pts.	371	5.25	112.81	112.8	116.8	115.3	111.7	114.5	115.4	117.8	117.8	110.4	114.8	110.7	112.7	112.2
Aerospace & misc.	372-6,91	3.87	137.51	138.5	140.4	141.1	141.9	142.9	142.3	144.0	142.1	143.1	145.6	145.4	145.6	145.1
Instruments	381	2.66	139.81	141.1	141.8	139.4	139.8	140.7	140.6	141.1	141.8	142.5	142.5	141.3	141.7	139.8
Miscellaneous mfrs.	391	1.46	96.51	95.9	97.2	96.4	95.9	94.5	96.3	99.0	98.1	97.2	97.9	98.4	97.5	
UTILITIES																
Electric		4.17	119.71	117.5	116.7	120.6	119.3	118.7	124.4	119.9	118.5	119.8	122.2	121.2	121.6	

Table 3A
INDUSTRIAL PRODUCTION: PERCENT CHANGES

Based on seasonally adjusted indexes

Series	1985	JUL	AUG	SEP	OCT	NOV	DEC	1986							
								JAN	FEB	MAR	APR	MAY	JUN	JUL	
CHANGE FROM PREVIOUS MONTH															
TOTAL INDEX	-0.2	.9	-0	-0.6	.8	-81	-3	-0.9	-0.9	.7	-0.5	-0.3	-0.1		
Final products	-1	1.1	-0	-1.1	1.4	-51	-0	-1.2	-1.0	1.0	-0.6	-0.7	-0.1		
Consumer goods	-0.2	1.1	-3	-0.8	1.6	1.21	-0.3	-0.6	-0.5	1.8	-0.1	-0.3	-0.3		
Durable consumer goods	-0.6	2.5	-1.0	-1.4	3.7	1.11	-0.1	-0.3	-2.9	2.8	-2.5	-4	-0.16		
Nondurable consumer goods	-0.1	-7	-7	-0.6	-9	1.21	-0.4	-0.7	-3	1.4	-7	-0.5	-0.31		
Business equipment	-4	1.2	-0.6	-1.8	1.5	-0.21	1.0	-1.3	-1.4	-9	-1.3	-1.2	-0.04		
Construction Supplies	-2	1.8	-0.2	-1.1	-7	-0.21	2.7	-0.4	-0	-8	-2	-1.6	-0.41		
Materials	-0.5	7	-0.3	-0	-1	1.41	-3	-0.7	-1.3	-2	-0.7	-1	-0.01		
Durable goods materials	-0.5	1.4	-1.3	-1	1.1	-31	-9	-1.4	-1.3	-1	-1.2	-0.4	-0.21		
Nondurable goods materials	.9	6	1.3	-1.1	-0.3	1.71	1.0	-3	-1.4	1.4	-0.1	-6	-0.21		
Manufacturing	.2	1.0	-0.4	-0.4	1.0	-51	.6	-0.8	-0.7	-8	-0.2	-0.5	-0.01		
Durable manufacturing	.2	1.2	1.2	-0.8	-0.4	1.1	-51	.4	-1.0	-6	-0.8	-0.8	-0.1		
Nondurable manufacturing	-1	.8	-2	-0.4	-7	-51	.8	-0.5	-0.1	1.1	.6	-0.1	-0.1		
Mining and utilities	-2.0	-0.4	1.1	-0.3	-1.0	1.81	-0.6	-2.0	-1.6	-0.6	-1.3	-0.1	-0.31		
CHANGE FROM SAME MONTH A YEAR EARLIER															
TOTAL INDEX	-7	1.3	1.5	1.4	1.6	2.51	2.5	1.5	3	-9	-4	-0.1	-11		
Final products	2.1	2.8	2.7	1.5	2.3	2.91	3.1	1.8	5	1.1	-2	-0.5	-0.71		
Consumer goods	-9	2.6	3.0	2.0	2.7	3.71	4.2	3.4	2.3	4.3	3.8	3.2	3.11		
Durable consumer goods	-2.2	7	1.3	-0	1.9	3.31	3.8	3.1	-0.4	4.2	1.3	1.5	2.11		
Nondurable consumer goods	2.0	3.3	3.6	2.7	3.0	4.01	4.5	3.5	3.2	4.4	4.6	3.7	3.51		
Business equipment	3.1	2.8	2.2	-4	1.4	2.21	1.7	.7	-0.8	-1.2	-2.4	-2.8	-3.11		
Construction Supplies	4.5	5.4	5.7	4.8	4.5	5.31	6.7	6.8	5.7	6.1	5.5	2.9	3.21		
Materials	-1.8	-1.4	-1.4	-1	-0.2	1.11	-7	-0	-1.3	-0.7	-0.6	-0.7	-0.21		
Durable goods materials	-2.7	-2.1	-3.0	-2.7	-1.8	-1.11	-0.8	-1.5	-2.7	-2.1	-1.6	-2.1	-1.81		
Nondurable goods materials	1.0	1.7	3.0	2.0	2.1	3.81	4.6	4.5	4.1	5.4	4.3	4.5	3.71		
Manufacturing	1.2	1.9	1.7	1.3	1.9	2.61	3.1	2.4	1.3	1.9	1.7	1.0	-81		
Durable manufacturing	1.2	1.3	.9	.6	1.4	1.91	2.0	1.4	-0.2	-2	-0.4	-0.9	-1.21		
Nondurable manufacturing	1.4	2.8	3.1	2.5	2.8	3.71	4.8	3.8	3.5	4.3	4.6	3.8	3.71		
Mining and utilities	-3.1	-2.5	-1.6	1.8	-1.1	.81	-1.1	-3.5	-4.9	-4.9	-6.4	-6.7	-5.21		

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS
Not seasonally adjusted, 1977 = 100

Major Industry Groupings	SIC Code	1977	1985	1985					1986									
		Pro- por- tion	Ann. Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		
MINING AND UTILITIES		15.79	110.7	108.4	111.6	111.4	108.7	108.1	111.8	113.2	112.5	105.7	102.3	100.1	103.4	103.3		
MINING	9.83	109.0	104.8	108.9	108.8	111.1	108.5	108.4	107.0	106.8	103.3	100.1	98.6	98.7	95.4			
UTILITIES	5.96	113.4	115.0	116.2	115.9	104.8	107.5	117.4	123.3	121.7	109.7	106.0	102.4	111.2	116.3			
MANUFACTURING		64.21	127.1	124.5	130.4	132.6	130.3	128.2	124.1	125.3	127.9	127.4	128.4	128.4	131.4	125.6		
MONDURABLE	35.11	125.6	124.6	131.7	134.1	130.6	127.2	122.3	122.7	126.3	126.1	128.0	129.2	133.7	129.2			
DURABLE	49.10	128.2	124.4	129.4	131.4	130.1	128.8	125.3	127.1	129.0	128.4	128.7	127.8	129.8	123.1			
MINING																		
Metal mining	101	.501	75.0	61.1	73.8	72.7	75.3	74.3	67.5	68.9	76.7	78.0	79.7					
Coal	11,121	1.601	127.5	112.8	136.0	129.7	143.8	123.5	119.2	120.8	129.2	131.8	124.4	121.9	128.0			
Oil & gas extraction	131	7.071	106.3	104.4	103.9	104.9	104.7	106.0	108.4	106.7	103.5	98.2	94.2	92.8	91.4	90.8		
Stone & earth minerals	141	.661	118.3	116.5	122.2	126.3	126.9	125.4	113.6	106.2	110.7	108.0	119.0	118.6	120.7			
MONDURABLE MANUFACTURES																		
Foods	201	7.961	131.0	133.3	139.3	141.8	137.0	131.8	129.0	127.0	127.8	127.7	130.0	131.9	137.5			
Tobacco products	211	.621	100.1	86.7	103.9	103.4	113.7	106.9	77.5	94.6	102.5	95.1	99.2	94.9				
Textile mill products	221	2.291	103.0	94.8	111.3	111.1	110.4	110.7	96.5	102.0	110.9	109.3	112.2	114.2	115.8			
Apparel products	231	2.791	101.8	98.0	105.0	107.0	105.1	103.9	102.9	102.4	101.2	103.3	102.5	103.1	106.2			
Paper & products	261	3.151	127.6	120.5	127.3	129.2	131.4	127.3	121.6	133.6	137.0	136.8	136.6	134.0	136.8			
Printing & publishing	271	4.541	155.2	159.9	171.1	172.2	164.3	158.5	151.9	144.9	147.3	151.8	155.4	157.6	165.5	170.3		
Chemicals & products	281	8.051	127.11	127.7	130.3	135.3	129.1	126.9	123.8	124.8	129.6	128.5	131.3	132.0	136.0			
Petroleum products	291	2.401	86.8	91.6	92.4	88.6	89.0	90.1	89.9	86.4	83.1	82.5	87.5	94.2	95.4	94.2		
Rubber & plastics prod.	301	2.801	146.9	137.5	149.8	155.4	153.2	147.6	140.2	141.8	157.0	152.7	149.6	150.7	154.2			
Leather & products	311	.531	70.8	62.6	74.9	73.9	74.6	71.8	64.7	66.5	69.6	67.8	65.1	63.6	62.6			
DURABLE MANUFACTURES																		
Lumber & products	241	2.301	112.9	111.1	120.8	122.3	122.3	112.2	104.3	111.5	115.6	118.3	120.9	120.8				
Furniture & fixtures	251	1.271	141.6	134.0	147.5	150.0	145.7	144.8	140.2	140.0	151.5	145.6	145.5	143.5	148.7			
Clay, glass, stone prod.	321	2.721	115.0	115.4	121.4	121.2	121.4	117.3	112.3	111.8	113.4	117.0	122.3	121.7	125.4			
Primary metals	331	5.331	80.6	73.4	78.2	78.7	80.7	77.6	74.8	81.8	82.9	82.5	84.3	81.3	78.1	68.8		
Iron & steel	331,21	3.491	70.6	64.8	68.3	67.5	70.1	67.5	64.0	71.5	71.5	70.0	72.6	68.7	65.4			
Fabricated metal prod.	341	6.461	107.9	105.7	109.6	110.1	110.2	108.7	107.3	105.3	109.0	108.2	107.6	107.0	108.6	104.9		
Nonelectrical machinery	351	9.541	146.4	149.0	153.7	158.8	144.4	144.7	141.2	141.1	143.6	141.5	137.9	138.5	143.2	141.6		
Electrical machinery	361	7.151	169.3	160.1	165.9	167.9	169.8	170.3	168.3	165.8	165.0	166.0	166.6	165.1	163.9	158.9		
Transportation equip.	371	9.131	123.2	113.9	117.9	125.2	128.1	128.1	122.1	129.3	130.5	128.0	130.7	129.0	132.0	115.8		
Motor vehicles & pts.	371	5.251	112.8	100.0	104.1	113.4	118.4	115.4	103.1	117.1	121.8	115.9	120.0	116.8	122.4	97.0		
Aerospace & misc.	372-6,91	3.871	137.5	132.8	136.7	141.3	141.2	145.3	147.9	146.0	142.3	144.6	145.3	145.6	145.0	141.4		
Instruments	381	2.661	139.8	142.1	144.1	142.9	141.0	141.7	140.1	138.6	139.5	141.5	140.4	139.2	144.2	141.1		
Miscellaneous mfrs.	391	1.461	96.5	95.4	103.1	102.8	98.7	92.3	90.9	93.0	97.8	96.2	94.8	97.5	99.5			
UTILITIES																		
Electric	4	17	119.7	126.3	127.7	127.0	110.4	112.1	123.3	127.0	127.4	114.1	112.6	109.2	123.0			

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	93.4	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	100.4	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	101.6	103.0	105.5	105.8	106.9	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	110.4	109.0	107.4	111.2	111.3	112.5	108.9	111.0
82	105.4	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	118.4	119.3	120.1	120.7	121.3	122.3	123.2	123.5	123.3	122.7	123.4	123.3	119.3	121.5	123.4	123.1	121.8
85	123.6	123.7	124.0	124.1	124.3	124.1	125.2	125.1	124.4	125.4	126.4	123.8	124.2	124.8	125.4	124.5	
CHANGE*																	
72	2.2	0.7	0.8	1.6	-0.4	0.4	-0.2	-0.1	1.4	1.0	1.5	1.2	1.0	3.8	4.4	1.3	3.8
73	0.0	1.4	0.0	0.3	0.4	0.7	0.6	0.0	0.7	0.3	1.5	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	1.4	2.4	0.3	1.0	0.6	0.2	0.6	0.8	0.6	0.8	0.8	0.1	3.9	1.7	6.5
79	-0.5	0.5	0.3	-1.2	0.9	0.0	-0.4	-0.3	0.2	0.5	0.0	0.					

Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985											1986					
		Pro- por- tion	Annu- Avg.	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN			
METAL MINING	10	.50	75.0	77.5	60.9	73.1	71.4	74.2	78.3	74.3	75.5	77.2	78.1	77.3					
Iron ore	101	.15	87.7	97.2	61.3	106.6	98.4	98.6	90.4	51.7	66.1	82.0	80.4	94.3	89.6				
Nonferrous ores	102-6,8,9	.35	69.6	70.6	70.2	62.9	65.7	67.8	70.1	77.0	73.2	71.4	73.2	69.8					
Copper ore	102	.15	79.4	73.8	92.8	76.0	74.2	77.5	79.5	90.8	82.8	77.5	80.7						
Lead and zinc ores	103	.05	66.0	68.8	65.7	58.6	58.8	63.2	60.1	65.6	72.3	67.4							
Gold and silver ores	104	.02	142.9	149.4	138.2	146.7	166.6	152.8	156.7	154.1	149.6	160.3	149.7						
Ferroalloy ores	106	.04	91.6	113.9	52.9	53.9	84.5	91.1	95.8	90.8	84.8	93.4	85.9	70.9	74.6				
ANTHRACITE	111	.02	64.7	68.5	59.2	54.2	61.2	65.6	59.0	73.7	64.7	71.0							
BITUMINOUS	121	1.58	128.2	136.0	131.9	130.5	127.5	131.2	119.6	128.3	131.5	126.6	125.6	125.8	123.5	129.0			
OIL AND GAS EXTRACTION	131	7.07	106.3	106.9	106.9	105.5	106.0	104.8	103.5	108.4	103.6	101.4	98.5	96.4	95.1	93.7			
Crude oil & natural gas	131	5.62	100.1	100.3	100.2	98.5	99.7	99.8	99.3	101.0	99.9	100.0	99.4	98.3	99.1	98.6			
Crude oil, total		3.46	108.1	109.1	109.1	107.8	108.2	108.3	107.3	109.5	108.9	108.0	106.8	107.7	108.6	108.3			
Texas crude		1.34	77.6	78.1	77.6	77.9	78.2	78.4	76.8	79.1	79.0	78.1	76.9	77.6	77.6				
Alaska, Calif. crude		.57	207.5	204.8	209.6	207.8	209.3	210.4	211.1	212.1	208.1	208.9	206.0	209.1	211.4	211.3			
La. and other crude		1.54	97.7	98.5	99.1	96.6	96.6	96.4	95.3	97.8	97.9	96.4	95.9	96.8	97.3	96.8			
Natural gas		2.16	87.4	87.5	85.9	83.7	86.1	86.3	86.5	87.3	85.6	87.2	87.7	83.3	83.9				
Natural gas liquids	132	.47	98.9	101.4	99.4	98.7	96.8	98.2	98.8	99.1	103.4	102.6	97.9	96.5	101.1				
Propane		.05	102.6	101.8	104.1	103.7	101.1	101.1	105.1	107.7	105.8	106.2	102.0	97.8	97.5				
Liquefied petroleum		.42	98.4	101.3	98.9	98.1	96.4	97.8	98.1	98.2	103.1	102.2	97.4	96.4	101.5				
Oil & gas well drilling	138	.99	145.0	144.7	148.7	148.2	147.0	139.3	133.8	132.7	126.6	107.4	89.3	73.2	63.8	57.4			
FOODS	20	7.96	131.0	131.8	132.2	132.6	132.5	130.7	131.4	132.6	133.2	133.8	133.0	134.0	135.1	134.3			
Meat products	201	1.06	119.4	118.7	123.6	122.0	119.9	118.0	119.1	119.3	120.0	121.6	118.9	126.8	123.1	121.8			
Beef		.43	95.3	95.8	99.9	97.8	96.3	91.8	101.9	90.1	94.8	91.5	93.5	104.1	101.7	100.3			
Pork		.25	112.8	113.5	116.2	117.4	115.2	111.1	106.4	108.4	110.3	112.0	107.6	112.4	112.3	105.1			
Poultry		.20	142.2	138.2	146.1	143.3	138.5	148.0	138.1	149.7	145.5	155.7	144.6	153.8	147.0				
Misc. meats		.18	161.9	159.8	166.2	163.7	162.9	157.8	171.8	166.3	169.5	167.6	172.1	163.8	167.6				
Dairy products	202	.80	127.8	125.5	131.0	133.8	135.5	135.8	134.7	132.9	134.6	133.7	131.6	131.3	130.3	128.3			
Butter		.01	115.8	114.4	122.7	124.8	136.3	125.6	124.8	130.1	118.4	121.0	120.3	114.4	109.4	105.8			
Cheese		.13	149.1	139.9	151.0	155.5	158.3	163.2	164.0	155.6	157.8	157.2	154.8	154.5	151.1	145.5			
Concentrated milk	203	.11	139.6	137.5	150.0	158.6	157.1	157.0	152.6	150.5	154.4	153.1	146.2	141.5	140.0	135.2			
Frozen desserts	204	.09	137.9	139.8	143.7	139.3	142.7	138.8	133.3	136.2	146.0	146.1	141.5	148.0	149.0	146.8			
Canned and frozen food	205	1.09	143.4	153.4	146.9	146.7	146.3	139.0	133.5	136.6	147.8	140.3	142.1	143.2	146.9	144.2			
Grain mill products	204	.94	131.8	133.6	133.0	133.9	131.8	132.2	130.6	132.9	133.4	133.6	130.2	135.6	137.2	139.8			
Flour	2041	.12	113.0	118.6	104.4	114.6	119.2	112.1	126.9	111.4	112.5	112.9	116.1	117.5	133.4				
Bakery products	2051	1.00	127.9	129.8	124.9	129.9	129.8	127.4	130.3	128.6	136.4	131.0	131.1	132.8	131.6	133.1			
Beverages	208	1.41	125.7	127.6	125.9	127.1	128.6	121.6	124.1	126.3	121.4	129.0	124.9	127.6	128.7	130.9			
Beer and ale	2082,3	.38	113.2	120.2	113.2	112.2	109.6	103.9	111.2	116.3	116.9	117.9	115.0	115.4	113.0				
Wine and brandy	2084	.07	154.1																
Soft drinks	2086,7	.79	136.1	136.4	133.7	134.1	140.7	135.5	136.8	136.4	128.5	137.8	135.6	136.6	139.7	142.8			
Liquor	2085	.16	91.2	108.5	109.6	97.3													
Fats and oils	207	.27	120.9	121.0	124.4	117.5	122.8	124.8	119.1	121.3	120.6	115.7	119.2	123.2	119.3	122.3			
Coffee & misc. foods	209	.79	149.0	150.8	153.5	148.7	145.5	146.0	149.7	155.0	153.8	155.2	153.1	151.6	155.9				
TOBACCO PRODUCTS	21	.62	100.1	98.9	96.0	97.7	97.8	105.3	104.5	103.5	99.3	97.9	93.0	101.4	101.5				
Cigarettes	211	.54	100.6	107.0	98.4	95.9	97.9	106.8	102.9	103.4	95.3	99.3	91.5	104.9	100.8				
Cigars	212	.02	74.8	77.9	88.9	76.0	70.0	72.0	63.2	68.8	68.8	63.2	59.3	73.5	86.4				
TEXTILE MILL PRODUCTS	22	2.29	103.0	103.3	104.1	106.3	106.7	104.9	108.0	106.3	107.4	110.4	108.4	110.1	110.8	111.3			
Fabrics	221-4	.77	97.5	96.3	100.3	105.7	95.7	108.5	104.6	106.2	108.1	105.3	107.7	107.4	109.8				
Cotton fabrics	221	.28	108.4	106.2	111.5	114.5	114.6	118.8	121.6	116.6	123.6	124.2	122.4	126.6	126.7	129.1			
Man-made fabrics	222	.40	92.2	91.9	96.0	104.5	96.8	80.8	103.4	99.8	98.4	100.6	97.0	99.2	101.8				
Knit goods	225	.55	101.0	103.6	101.2	99.9	104.1	103.5	106.1	102.8	102.6	105.6	103.3	108.3	107.6	107.2			
Hosiery	2251,21	.12	145.9	158.7	136.9	139.3	145.1	154.0	154.8	142.5	160.9	150.2	146.7	162.0	149.2				
Knit garments	2253,4,7-9	.63	88.4	87.8	91.0	88.6	92.4	89.1	92.2	91.4	86.0	92.8	90.9	93.0	95.7	92.7			
Fabric finishing	226	.20	81.5	75.7	76.5	81.2	80.5	87.9	90.4	84.9	86.8	91.2	85.4	86.6	88.5	87.2			
Carpeting	227	.22	139.8	149.9	156.1	149.8	148.0	140.2	135.9	134.0	141.3	139.2	135.1	140.0	143.7	147.2			
Yarns & misc. text.	228,9	.55	105.9	102.0	104.9	109.0	110.2	112.7	110.9	112.7	115.1	115.1	111.8	112.0	117.3	111.2			
APPAREL PRODUCTS	23	2.79	101.8	99.2	100.6	100.4	101.8	102.6	103.9	105.0	105.8	103.6	104.0	104.3	103.7	103.1			
LUMBER AND PRODUCTS	24	2.30	112.9	113.5	113.0	114.8	115.9	116.5	115.6	116.5	119.9	118.2	118.5	119.4	119.8				
Logging and lumber	241,24	1.05	101.0	105.1	98.6	101.8	105.6	104.6	102.7	102.5	107.7	103.2	109.3	103.5	106.4	106.4			
Lumber products	243-5,9	1.25	122.9	122.7	126.9	124.9	126.6	128.5	128.8	123.8	130.9	126.6	126.4	134.5	130.4				
Hillwork & plywood	243	.67	138.7	138.8	146.5	141.6	144.9	147.2	142.1	139.4	153.4	146.8	148.5	162.2	156.9				
Manufactured homes	245	.25	101.1	98.1	99.7	103.5	101.6	106.4	105.3	101.7	99.6	95.4	88.1	88.6	85.4	81.7			
FURNITURE AND FIXTURES	251	1.27	141.6	141.9	145.3	143.2	141.9	144.1	142.1	143.9	145.4	145.0	147.5	148.3	148.2				
Household furniture	251	.74	112.8	112.4	116.0	112.4	114.0	113.6	116.3	112.7	114.9	114.2	112.0	113.2	116.1	114.3			

Table 4B
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985											1986					
		Pro- por- tion	Avg.	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN			
METAL MINING	101	.50	75.0	85.3	61.1	73.8	72.7	75.3	74.3	67.5	68.9	76.7	78.0	79.7					
Iron ore	1011	.15	87.7	115.3	63.1	104.5	91.8	89.7	81.7	50.3	60.7	81.5	82.9	95.9	101.4				
Nonferrous ores	102-6,8,9	.35	69.6	72.5	60.2	60.7	64.5	69.1	71.1	74.9	72.4	74.6	75.9	72.7					
Copper ore	1021	.15	79.4	80.8	75.3	72.6	73.3	78.3	80.6	85.7	80.4	79.4	84.5						
Lead and zinc ores	1031	.05	66.0	65.8	59.0	59.8	58.7	68.4	61.7	64.4	74.5	74.8							
Gold and silver ores	1041	.02	142.9	149.0	133.0	141.6	157.2	153.4	155.7	150.4	147.8	164.4	159.6						
Ferroalloy ores	1061	.04	91.6	113.6	45.9	53.7	81.0	92.6	99.8	89.9	82.2	95.4	92.5	72.7	77.7				
ANTHRACITE	111	.02	64.7	68.3	58.0	60.9	59.3	71.5	67.8	56.1	58.9	62.9	64.4	60.5	59.2	62.7			
BITUMINOUS	121	1.58	128.2	135.8	113.4	136.8	130.4	144.6	124.2	119.8	121.5	129.9	132.5	125.1	122.6	128.8			
OIL AND GAS EXTRACTION	131	7.07	106.3	104.3	104.4	103.9	104.9	104.7	106.0	108.4	106.7	103.5	98.2	94.2	92.8	91.4			
Crude oil & natural gas	1311	5.62	100.1	99.1	98.6	97.5	98.8	99.0	99.6	102.0	101.4	102.4	100.2	98.6	98.3	97.5			
Crude oil, total	3,461	108.1	108.0	108.4	107.4	108.4	108.3	107.4	108.9	108.8	108.6	107.2	108.1	108.6	108.1				
Texas crude	1,341	77.6	78.0	77.1	77.1	78.2	78.3	77.1	78.8	78.7	78.5	77.5	77.4	77.8	77.5				
Alaska, Calif. crude	1,571	207.5	203.6	210.1	207.2	209.8	210.0	209.6	210.1	209.6	206.9	209.9	211.0	210.0					
La. and other crude	1,541	97.7	98.6	97.7	96.8	97.0	96.6	95.7	97.5	97.4	97.2	95.9	96.8	97.3	96.9				
Natural gas	2,161	87.4	84.9	83.0	81.6	83.3	84.0	87.1	90.8	89.6	92.5	89.0	83.5	81.9					
Natural gas liquids	1321	.47	98.9	99.3	97.6	98.4	96.6	97.2	102.2	101.1	104.5	104.3	98.9	95.6	98.1				
Propane	1,051	102.6	100.2	99.6	100.2	98.6	101.9	105.7	109.0	111.0	108.8	102.3	98.0	98.6					
Liquefied petroleum	1,421	98.4	99.2	97.3	98.2	96.4	96.6	101.8	100.2	103.8	103.8	98.5	95.4	98.1					
Oil & gas well drilling	1381	.99	145.0	136.1	140.7	143.2	144.0	141.0	144.3	148.1	137.5	109.7	86.5	68.8	59.3	53.5			
FOODS	201	7.96	131.0	134.9	133.3	139.3	141.8	137.0	131.8	129.0	127.0	127.8	127.7	130.0	131.9	137.5			
Meat products	2011	1.06	119.4	118.3	115.3	121.5	123.0	120.7	122.8	116.6	120.7	118.4	118.9	127.0	120.6	121.5			
Beef	1,431	95.3	96.5	94.5	99.3	99.0	96.8	103.4	88.6	98.1	92.2	90.3	100.9	98.7	101.1				
Pork	1,251	112.8	110.0	100.8	108.6	114.4	119.5	115.8	111.4	111.4	110.1	112.1	118.4	108.6	101.8				
Poultry	1,201	142.2	147.1	146.6	153.1	146.6	153.3	135.1	136.0	138.8	143.4	139.8	152.0	149.4					
Misc. meats	1,181	161.9	150.2	151.1	157.6	167.1	174.0	166.0	170.6	168.6	165.9	174.5	174.3	158.1	157.5				
Dairy products	2021	.80	127.8	141.7	136.3	133.3	128.9	124.7	121.6	123.4	125.5	131.7	136.0	141.3	144.1	148.8			
Butter	20211	.01	115.8	114.0	99.8	98.0	107.3	114.8	113.7	127.2	143.1	142.9	134.7	133.6	124.3	105.4			
Cheese	20221	.13	149.1	159.9	150.6	148.9	146.4	150.6	149.4	152.7	149.4	154.8	162.2	167.1	168.5	166.3			
Concentrated milk	20231	.11	139.6	166.8	161.3	153.2	133.5	130.4	125.3	135.7	147.7	151.9	153.2	166.4	167.0	164.0			
Frozen desserts	20241	.09	137.9	177.0	173.7	165.1	150.4	125.0	110.9	106.1	107.1	128.4	144.7	151.1	166.8	185.8			
Canned and frozen food	2031	1.09	143.4	150.1	147.2	159.3	175.0	157.7	137.3	127.4	130.6	132.9	134.3	132.4	138.0	141.1			
Grain mill products	2041	.94	131.8	133.9	132.6	138.4	138.9	134.9	131.4	132.9	131.7	132.6	129.1	130.2	131.2	139.9			
Flour	20411	.12	113.0	113.0	99.2	116.7	120.4	119.2	127.9	108.7	113.4	129.1	114.6	112.9	115.2	127.1			
Bakery products	2051	1.00	127.9	134.1	137.5	143.2	144.2	131.7	128.1	123.4	125.9	121.9	121.0	124.6	126.3	137.5			
Beverages	2081	1.41	125.7	136.7	133.3	137.2	136.9	126.0	119.2	113.9	111.8	119.0	120.6	126.3	130.7	140.1			
Beer and ale	2082,3	.38	113.2	136.2	125.0	121.5	106.3	96.6	93.8	92.0	105.7	116.2	118.1	126.0	128.1				
Wine and brandy	20841	.07	115.0																
Soft drinks	2086,7	.79	136.1	143.2	147.2	149.8	156.1	138.8	132.6	127.4	119.6	124.9	125.7	130.0	136.5	150.0			
Liquor	2085	.16	1	98.8	88.9	104.3	106.0												
Fats and oils	2071	.27	120.9	117.4	111.3	112.1	120.3	129.9	127.0	125.5	124.1	121.4	122.3	120.7	115.2	119.0			
Coffee & misc. foods	2091	.79	149.0	147.1	154.0	160.6	152.7	152.0	153.4	162.7	149.0	148.3	143.9	142.7	148.5	152.9			
TOBACCO PRODUCTS	211	.62	100.1	110.1	86.7	103.9	103.4	113.7	106.9	77.5	94.6	102.5	95.1	99.2	94.9				
Cigarettes	2111	.54	100.6	113.0	86.9	105.5	103.3	114.9	106.2	76.1	96.6	104.7	97.1	101.9	96.4				
Cigars	2121	.02	74.8	82.8	68.8	81.9	75.8	79.6	66.8	50.1	64.1	66.6	65.9	72.6	88.8				
TEXTILE MILL PRODUCTS	221	2.29	103.0	107.1	94.8	111.3	111.7	110.4	110.7	96.5	102.0	110.9	109.3	112.2	114.2	115.8			
Fabrics	2211-4	.77	97.5	97.4	86.2	108.1	103.5	101.0	109.4	91.7	106.5	113.1	109.7	110.3	111.0	111.0			
Cotton fabrics	2211	.28	108.4	106.5	94.6	117.6	115.7	127.1	123.4	100.8	123.3	129.8	128.5	129.8	131.9	129.4			
Man-made fabrics	2221	.40	92.2	92.8	81.4	106.5	97.9	104.2	90.4	82.9	72.3	86.1	80.4	101.2	102.3	102.8			
Knit goods	2251	.55	101.0	111.7	103.8	110.6	113.4	107.3	103.5	92.1	88.9	101.2	99.0	108.7	108.1	115.8			
Bosier	2251,21	.12	145.0	161.2	145.4	139.0	144.3	153.2	149.3	124.5	147.2	154.3	151.3	178.6	151.8				
Knit garments	2253,4,7-9	.43	88.0	97.6	91.9	102.5	104.5	94.2	90.4	82.9	72.3	86.1	84.1	88.7	95.6	103.0			
Fabric finishing	2261	.20	81.5	78.7	57.3	82.7	81.1	93.5	93.1	80.1	85.3	94.7	91.1	89.3	90.9	90.6			
Carpeting	2271	.22	139.8	151.0	146.0	139.6	156.7	158.2	146.6	130.4	122.9	127.9	139.3	148.8	143.4	148.4			
Yarns & misc. text.	228,91	.55	105.9	108.9	91.4	115.7	114.7	113.9	111.7	100.4	106.7	116.6	113.8	112.3	121.5	118.6			
APPAREL PRODUCTS	231	2.79	101.8	102.2	98.0	105.0	107.0	105.1	103.9	102.9	102.4	101.2	103.3	102.5	103.1	106.2			
LUMBER AND PRODUCTS	241	2.30	112.9	119.6	111.1	120.8	122.3	112.2	112.2	104.3	111.5	115.6	118.3	120.9	120.8				
Logging and lumber	241,21	1.05	101.0	109.3	98.0	109.4	111.7	110.7	100.0	91.4	97.4	105.0	107.2	103.4	106.4	110.8			
Lumber products	243-5,91	1.25	122.9	128.2	122.1	130.3	131.1	132.0	122.5	115.2	123.3	124.5	127.7	135.7	132.8				
Millwork & plywood	2431	.67	138.7	142.4	140.3	147.2	149.5	151.2	141.4	138.7	149.3	146.6	148.7	160.3	157.9				
Manufactured homes	2451	.25	101.1	116.4	98.2	117.5	108.9	93.1	72.0	76.8	87.7	91.5	97.9	96.0	96.6				
FURNITURE AND FIXTURES	251	1.27	141.6	141.5	134.0	147.5	150.0	145.7	144.8	140.2	140.0	151.5	145.6	145.5	143.5	148.7			

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977 Pro- por- tion	1985 Ann. Avg.	1985						1986						
				JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PRINTING & PUBLISHING	271	4.54	155.2	156.7	154.3	156.3	156.2	157.0	159.0	158.4	158.9	155.4	158.1	162.0	163.0	163.9
Newspapers	271	1.35	133.5	137.0	134.4	137.8	136.0	134.0	135.9	132.3	138.0	134.8	134.0	136.5	139.3	142.7
Period. books, cards	272,3,71	1.24	153.9	156.5	153.6	155.1	153.8	154.9	156.6	159.5	151.6	146.4	155.6	157.1	166.9	169.6
Job printing	274-6,8,91	1.95	170.9	171.0	166.3	170.2	170.1	173.4	178.5	177.9	176.4	172.4	178.9	183.0	182.4	182.9
CHEMICALS & PRODUCTS	281	8.05	127.1	126.4	126.4	128.2	129.0	127.9	128.0	128.5	130.5	130.9	131.1	132.1	132.0	131.7
Chemicals & syn. mat.	281,2,61	3.86	118.7	117.8	119.6	119.4	120.9	120.2	117.9	119.7	123.4	123.0	120.3	121.5	122.9	122.1
Basic chemicals	281	.92	98.7	100.7	102.6	97.4	97.3	100.0	93.9	94.0	99.6	103.0	94.9	95.7	100.4	96.3
Alkalies & chlorine	2812	.12	96.9	101.0	98.4	93.6	94.0	92.4	86.5	92.3	94.2	91.0	100.0	96.8	99.8	99.7
Industrial Gases	2813	.10	118.6	121.2	115.9	118.3	122.2	114.5	119.6	126.1	126.5	130.2	127.6	124.2	114.8	114.1
Inorganic pigments	2816	.08	91.6	95.1	99.9	92.1	91.4	88.7	91.7	105.9	108.4	103.1	98.2	95.9	102.8	101.7
Inorganic chem, nec	2819	.62	96.6	98.0	101.5	95.2	94.6	100.5	91.2	87.4	94.9	100.7	88.0	90.7	98.0	92.0
Acids & other chem.	2819	.40	95.3	96.3	103.3	95.2	94.1	104.2	89.6	83.6	94.9	103.9	84.6	89.7	101.3	91.6
Synthetic materials	2821	1.11	149.1	147.1	150.1	152.8	158.9	152.3	149.7	153.9	160.5	157.6	156.5	158.8	158.4	157.8
Plastics materials	2821	.59	197.3	195.0	201.2	203.1	210.9	204.1	200.8	206.6	217.9	209.1	209.6	212.3		
Synthetic rubber	2822	.08	95.4	95.7	82.8	102.7	100.1	91.7	87.1	76.9	99.8	104.6	106.5	110.5	107.5	
Man-made fibers	2823,41	.44	95.1	93.1	94.6	95.5	100.8	94.6	93.6	98.2	95.6	99.0	95.4	96.9	97.3	93.1
Indust. organic chem.	2861	1.83	110.3	108.5	109.5	110.1	109.5	110.8	110.6	111.9	112.8	112.0	111.0	111.7	112.6	113.4
Chemical products	283-5,9	3.65	140.5	139.8	138.6	141.8	143.7	139.5	146.2	144.6	145.8	146.5	143.0	149.5	151.1	148.9
Drugs & medicines	2831	1.41	120.9	119.5	121.7	120.8	123.3	120.1	125.4	120.4	119.9	121.3	120.3	124.8	126.4	122.9
Soap & toiletries	2841	1.34	175.6	170.6	171.4	177.9	183.2	177.6	184.8	186.8	189.9	190.9	186.7	194.6	199.8	197.3
Paints	2851	.40	101.9	112.9	93.6	104.9	96.0	91.7	106.8	102.2	101.8	101.4	98.5	109.9	102.4	100.4
Agricultural chemicals	2871	.54	95.7	99.3	93.2	92.9	99.3	97.0	89.8	83.2	80.2	88.1	88.7	89.9	87.5	
PETROLEUM PRODUCTS	291	2.40	86.8	87.1	88.3	88.2	85.9	87.7	87.3	88.7	92.6	88.4	87.8	91.3	94.6	91.6
Petroleum refining	291,91	2.21	85.7	86.7	87.7	88.5	83.0	86.7	86.3	86.9	88.2	87.0	86.9	90.9	93.8	91.1
Automotive gasoline	291	.96	91.0	93.0	93.3	94.9	87.4	91.3	90.6	91.0	94.2	93.8	90.1	95.9	102.7	97.9
Distillate fuel oil	291	.43	81.6	79.8	79.5	79.5	76.3	85.4	87.7	89.0	87.4	81.3	90.4	93.4	89.5	82.7
Residual fuel oil	291	.15	49.7	40.5	42.1	45.0	45.7	52.7	51.2	55.2	49.9	46.3	47.2	53.4	54.5	52.1
Aviation fuel & keros.	291	.18	109.4	103.7	108.4	110.5	110.4	117.8	117.9	117.0	126.0	126.1	115.8	109.6	109.8	118.6
Misc. petroleum prod.	291	.48	81.3	88.5	90.8	89.3	82.1	78.0	75.7	75.8	75.3	76.8	79.4	83.6		
Refinery fuel, nec	291	.09	109.5	114.6	117.6	116.6	107.1	113.0	111.8	117.7	124.4	118.5				
Refinery nonfuel mat.	291	.26	66.2	74.6	77.9	74.8	69.0	58.6	58.9	62.11						
Refinery products, nec	291	.13	92.0	98.3	99.3	90.9	92.5	94.6	74.6	80.9	89.1	84.9	97.1			
RUBBER & PLASTICS PROD.	301	2.80	146.9	145.5	145.6	148.0	148.6	148.7	150.5	150.0	150.5	150.7	149.0	147.8	149.8	150.4
Tires	3011	.62	109.5	107.4	101.6	112.9	119.5	108.1	108.1	103.3	106.3	104.0	103.3	99.1		
Sub.prod.ex.tires	302-4,61	.51	117.7	116.3	119.3	115.9	118.3	118.8	118.3	121.4	125.1	121.7	118.0	124.2	123.0	
Plastics products, nec	3071	1.67	169.7	166.3	169.8	170.9	171.8	173.6	174.4	176.1	178.6	177.0	173.4	172.0	176.9	176.7
LEATHER AND PRODUCTS	311	.53	70.8	71.5	72.2	72.7	72.3	71.4	72.1	69.9	67.5	67.0	65.4	64.6	62.1	62.0
Pers. leather gds	313,5-7,91	.16	86.8	83.2	88.0	88.2	89.3	89.4	88.5	86.2	86.8	84.7	85.1	85.2	81.3	81.3
Shoes	3141	.29	63.3	65.0	64.8	68.6	63.8	61.3	64.4	60.6	59.4	60.7	56.7	57.4	53.4	52.1
CLAY, GLASS & STONE PROD.	321	2.72	115.0	116.1	115.1	116.2	116.2	115.6	115.2	118.2	120.2	118.8	120.0	121.5	120.5	121.7
Pressed & blown glass	3221	.51	104.6	103.4	99.1	106.7	108.1	107.2	110.6	110.4	109.7	110.9	107.0	111.7	111.6	110.6
Glass containers	3221	.30	89.7	89.4	80.3	92.2	94.3	92.6	98.1	96.9	94.6	95.5	92.8	97.2	95.1	93.7
Cement	3241	.24	105.7	104.5	107.2	106.2	106.2	104.4	95.0	100.11	141.2	111.9	110.5	119.5	111.7	107.5
Structural clay prod.	3251	.15	107.9	107.8	109.3	117.1	114.8	113.2	113.0	113.2	111.8	115.0	119.2	127.6	124.0	125.5
Brick	3251	.07	88.5	87.2	92.6	91.9	89.3	89.1	87.1	89.6	92.8	89.2	94.5	89.2	92.9	
Clay sewer pipe	32591	.02	38.1	49.1	48.9	37.7	36.7	31.8	26.9	30.2	28.2	30.6	29.6	32.2	33.7	34.5
Clay tile	3253,51	.07	146.3	144.4	142.5	164.1	161.7	159.6	162.4	159.6	150.2	160.4	173.7	186.8	183.7	
Concrete and misc.	326-91	1.55	120.1	122.7	122.5	120.5	120.8	119.1	120.3	124.5	122.7	120.7	121.7	124.6	124.6	127.4
PRIMARY METALS	331	5.33	80.6	78.3	79.0	82.0	80.3	83.1	83.6	81.7	84.9	80.7	77.4	78.1	75.7	72.5
Iron and steel	331,24	3.49	70.4	67.6	68.7	71.6	69.7	74.4	75.3	72.0	75.5	69.9	64.9	65.6	61.7	59.1
Basic st. & mill prod.	3311	2.60	73.4	73.4	68.5	75.1	73.0	74.4	76.6	73.1	81.5	79.8	72.3	70.9	68.3	65.6
Basic iron and steel	3311	1.11	64.3	63.5	63.5	64.3	64.3	64.6	65.1	61.1	68.3	67.7	62.7	64.7	60.7	56.7
Pig iron	3311	.42	61.6	59.7	58.8	60.2	60.6	61.2	63.6	60.0	65.0	65.8	59.8	62.1	57.7	51.3
Raw steel	3311	.51	70.2	70.7	70.5	70.7	70.9	70.6	69.5	64.7	75.1	72.5	67.9	70.9	66.2	64.1
Steel mill products	3311	1.49	80.1	80.8	72.2	83.1	79.6	81.7	85.1	82.0	91.4	88.8	79.5	75.5	74.0	72.2
Consumer dur. steel	3311	.38	61.3	63.9	55.2	64.5	62.9	60.8	61.2	52.5	64.6	65.7	60.9	59.5	56.8	56.6
Equipment steel	3311	.36	47.0	46.7	42.5	51.2	46.1	46.5	46.7	43.2	51.6	48.8	43.7	39.9	39.3	38.0
Construction steel	3311	.19	76.9	79.1	70.0	78.6	78.3	80.1	81.0	77.5	90.1	87.9	77.7	73.1	74.7	69.8
Can & closure steel	3311	.10	60.2	65.8	57.1	65.0	61.5	57.9	61.2	62.7	55.7	55.2	57.0	69.2	66.0	60.4
Misc. steel	3311	.46	127.0	125.2	113.5	128.8	123.7	132.0	141.4	142.6	152.6	146.4	128.1	118.9	116.6	115.5
Iron & steel foundries	3321	.89	62.2	65.2	62.9	64.1	56.0	64.1	58.3	56.5	57.6	48.6	45.8	52.2	49.6	50.7
Nonferrous metals	333-6,91	1.85	99.7	98.5	98.5	101.6	100.4	99.5	99.3	99.8	102.7	101.2	101.1	101.7	102.2	97.7
Primary nonf. metals	3331	.51	90.7	92.8	93.8	88.5	89.1	83.4	87.1	85.1	82.7	83.0	83.2	84.3	78.0	
Copper	3331	.13	92.1	88.0	112.0	103.2	86.2	101.4	95.2	94.2	88.1	83.3	77.4	81.4	85.5	94.5
Aluminum	33341	.28	84.9	85.4	84.1	83.4	83.1	81.0	78.0	77.6	77.7	79.2	80.2	81.3	80.9	70.1
Secondary nonf. mtl.s																

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985													
		Pro- por- tion	Avg.- 1	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PRINTING & PUBLISHING	271	4.54	155.2	158.3	159.9	171.1	172.2	164.3	158.5	151.9	144.9	147.3	151.8	155.4	157.6	165.5
Newspapers	271	1.35	133.5	133.6	120.9	128.9	136.4	143.9	147.4	137.6	126.3	133.2	136.4	142.4	142.7	139.1
Period., books, cards	272,3,71	1.24	153.9	156.5	166.2	175.6	172.8	159.1	150.0	148.4	141.6	141.3	148.2	149.2	157.2	169.6
Job printing	274-6,8,91	1.95	170.9	176.6	182.9	197.6	196.5	181.6	171.6	164.0	159.8	160.7	164.6	168.2	171.8	188.9
CHEMICALS & PRODUCTS	281	8.05	127.1	130.6	127.7	130.1	135.3	129.1	126.9	123.8	124.8	129.6	128.5	131.3	132.0	136.0
Chemicals & syn. mat.	281,2,61	3.86	118.7	119.3	116.1	115.8	122.0	120.2	118.4	118.9	120.5	125.0	123.0	123.8	123.3	123.7
Basic chemicals	281	.92	98.7	102.7	98.3	94.5	98.9	100.0	94.9	93.7	95.2	106.1	96.4	97.7	100.2	98.3
Alkalies & chlorine	2812	.12	96.9	102.8	98.1	92.3	94.0	93.8	89.0	95.9	87.1	93.1	95.5	98.9	98.1	101.5
Industrial Gases	2813	.10	118.6	121.1	114.1	116.9	123.3	116.1	121.2	123.3	122.0	133.0	128.4	125.6	116.0	114.0
Inorganic pigments	2816	.08	91.6	101.0	93.5	86.7	97.8	88.2	89.5	95.5	96.7	111.1	100.3	104.9	106.1	108.0
Inorganic ches, nec	28191	.62	96.6	99.9	96.3	92.2	95.9	100.0	92.3	88.1	92.1	103.4	90.7	91.8	97.2	93.8
Acids & other chem.	281	.40	95.3	99.5	95.2	90.4	96.3	102.9	91.1	84.3	90.6	109.3	88.5	91.6	99.5	94.6
Synthetic materials	2821	1.11	149.1	149.8	141.8	146.9	160.2	153.1	149.6	150.4	154.4	163.5	164.8	164.5	159.7	160.6
Plastics materials	28211	.59	197.3	200.2	190.6	192.4	213.8	205.6	199.4	199.4	205.7	215.2	223.1	221.5	215.2	
Synthetic rubber	28221	.08	95.4	89.0	75.5	93.3	100.3	96.3	93.5	80.0	101.2	106.6	112.0	112.4	105.6	
Man-made fibers	2823,41	.44	95.1	94.0	89.3	91.4	100.1	93.9	93.8	98.2	96.2	105.4	97.2	98.5	96.7	94.0
Indust. organic chem.	2861	1.83	110.3	109.1	109.4	108.7	110.3	111.3	112.4	112.5	111.1	110.9	112.1	112.7	114.0	
Chemical products	283-5,9	3.65	140.5	147.3	145.8	151.3	155.3	143.3	141.3	134.8	136.3	140.7	139.8	144.6	148.5	156.2
Drugs & medicines	2831	1.41	120.9	128.3	133.8	131.3	137.0	124.8	120.7	112.6	109.6	112.4	111.8	119.3	121.9	131.9
Soap & toiletries	2841	1.34	175.6	173.4	177.6	189.7	198.0	183.2	182.1	177.5	179.6	187.2	185.4	184.2	193.0	200.5
Paints	2851	.40	101.9	138.3	99.0	116.8	100.8	89.0	86.3	72.6	84.9	96.8	102.6	119.6	117.3	122.8
Agricultural chemicals	2871	.54	95.7	98.8	88.5	89.8	96.5	95.9	90.7	84.1	78.7	88.1	92.1	95.5	91.2	87.1
PETROLEUM PRODUCTS	291	2.40	86.8	90.7	91.6	92.4	88.6	89.0	90.1	89.9	86.4	83.1	82.5	87.5	94.2	95.4
Petroleum refining	291,91	2.21	85.7	89.5	90.1	90.4	86.1	87.0	88.5	89.4	86.5	83.2	82.4	87.0	92.8	94.0
Automotive gasoline		.96	91.0	96.2	96.2	96.8	89.8	90.3	92.1	94.6	92.7	89.5	86.2	92.4	100.8	101.3
Distillate fuel oil		.43	81.6	80.6	80.6	78.8	79.6	88.4	94.5	96.7	88.3	78.1	80.6	84.9	87.0	83.4
Residual fuel oil		.15	49.7	39.1	39.2	42.3	45.9	52.1	52.6	60.2	53.3	48.9	46.2	52.9	52.1	50.3
Aviation fuel & keros.		.18	109.4	102.1	108.0	108.0	110.9	115.1	121.3	117.3	127.0	127.4	119.5	107.6	108.9	116.7
Misc. petroleum prod.		.48	81.3	95.6	96.3	96.8	88.2	79.9	75.3	71.3	67.8	69.5	74.1	81.5	89.1	
Refinery fuel, nec		.09	109.5	120.8	122.2	120.0	110.9	109.6	111.6	117.9	120.9	115.1				
Refinery nonfuel mat.		.26	66.2	75.8	76.3	74.9	69.4	58.5	59.7	61.6						
Refinery products, nec		.13	92.0	117.2	117.9	123.8	110.3	102.0	81.5	59.3	60.7	65.9	67.9	89.8	113.7	
RUBBER & PLASTICS PROD.	301	2.80	146.9	148.0	137.5	149.8	155.4	153.2	147.6	140.2	141.8	157.0	152.7	149.6	150.7	154.2
Tires	3011	.62	109.5	106.3	83.3	109.1	121.7	115.6	102.0	92.8	106.4	115.1	112.8	106.5	98.9	
Rub.prod.ex.tires	302-4,61	.51	117.7	119.8	111.6	119.9	118.7	121.1	119.8	113.8	114.3	128.1	125.2	119.2	125.3	126.7
Plastics products, nec	3071	1.67	169.7	172.1	165.4	174.0	179.2	177.0	173.0	165.9	163.4	181.3	175.9	174.8	177.7	182.8
LEATHER AND PRODUCTS	311	.53	70.8	71.8	62.6	74.9	73.9	74.6	71.8	64.7	66.5	69.6	67.8	65.1	63.6	62.6
Pers. leather gds	313,5-7,91	.16	86.8	85.8	81.8	89.5	91.5	93.5	92.5	87.0	82.8	83.0	85.0	82.8	81.0	83.8
Shoes	314	.29	63.3	65.7	53.3	69.4	66.4	67.0	62.4	53.1	59.1	64.6	60.5	57.2	56.1	52.7
CLAY, GLASS & STONE PROD.	321	2.72	115.0	119.6	115.4	121.4	121.2	121.4	117.3	112.3	111.8	113.4	117.0	122.3	121.7	125.4
Pressed & blown glass	3221	.51	104.6	109.1	99.3	111.9	110.2	112.1	107.2	92.9	102.4	113.1	110.9	114.2	111.9	116.6
Glass containers	32211	.30	89.7	97.2	79.9	98.6	94.1	99.5	91.6	70.9	88.7	99.9	98.3	101.4	96.9	101.8
Cement	3241	.24	105.7	129.8	125.9	131.1	129.1	126.0	96.8	76.3	78.9	73.7	94.3	118.4	120.8	133.5
Structural clay prod.	3251	.15	107.9	110.1	102.6	118.7	119.7	121.5	116.3	106.0	104.7	115.4	117.1	127.4	126.8	127.9
Brick	32511	.07	88.5	92.7	95.4	98.2	94.5	98.5	89.7	83.5	79.8	81.6	84.7	96.3	92.5	98.7
Clay sewer pipe	32591	.02	38.1	48.1	47.7	39.4	39.9	36.7	28.7	25.0	24.6	27.0	30.0	34.1	34.5	33.8
Clay tile	3253,51	.07	146.3	144.4	124.7	160.8	166.9	167.6	166.8	150.7	151.5	173.5	173.5	184.2	186.4	
Concrete and misc.	326-91	1.55	120.1	123.0	120.4	123.5	123.3	123.4	122.5	122.6	118.2	117.7	121.1	124.6	123.8	127.6
PRIMARY METALS	331	5.33	80.6	84.9	73.4	78.2	78.7	80.7	77.6	74.8	81.8	82.9	82.5	84.3	81.3	78.1
Iron and steel	331,21	3.49	70.6	75.4	64.8	68.3	67.5	70.1	67.5	64.0	71.5	71.5	70.0	72.6	68.7	65.4
Basic st. & mill prod.	3311	2.60	73.4	77.8	68.1	71.0	71.3	71.4	71.3	69.4	76.9	78.2	76.6	77.9	74.4	69.6
Basic iron and steel	1.11	64.3	65.7	61.7	61.8	61.7	62.7	62.2	58.8	66.6	68.5	67.4	68.6	64.1	58.7	
Pig iron	.42	61.6	64.4	59.6	59.6	58.1	58.8	59.9	56.9	62.3	64.2	62.9	65.0	62.1	55.4	
Raw steel	.51	70.2	71.9	65.9	66.5	67.6	68.8	66.7	62.1	73.8	75.7	75.2	76.3	69.5	65.1	
Steel mill products	1.49	80.1	86.8	72.9	77.8	78.4	77.8	78.0	77.3	84.6	85.4	83.4	84.8	82.1	77.7	
Consumer dur. steel	.38	61.3	64.8	51.5	55.8	59.6	61.4	59.9	48.6	66.1	68.1	63.5	65.5	63.3	57.4	
Equipment steel	.36	47.0	49.2	40.9	48.1	45.7	44.6	43.7	41.7	48.2	47.1	47.0	44.7	43.0	40.0	
Construction steel	.19	76.9	88.7	74.1	78.6	81.9	77.1	76.3	71.3	78.3	78.2	76.6	81.8	81.1	77.8	
Can & closure steel	.10	60.2	68.9	60.2	66.9	63.2	51.9	52.9	59.7	55.8	58.6	64.2	67.7	63.6	63.3	
Misc. steel	.46	127.0	137.3	117.5	121.1	123.1	125.7	134.8	136.7	138.1	134.9	136.7	132.3	126.7		
Iron & steel foundries	3321	.89	62.2	68.2	55.3	60.5	56.4	66.5	56.2	48.0	55.4	51.7	50.7	56.9	52.0	53.0
Nonferrous metals	333-6,91	1.85	99.7	102.9	89.7	96.8	99.7	100.6	96.8	95.4	101.2	104.6	106.2	106.4	105.2	102.1
Primary nonf. metals	3331	.51	90.7	89.9	83.0	87.9	86.0	87.2	83.9	86.4	87.8	86.2	86.8	87.2	87.7	77.5
Copper	33311	.13	92.1	88.0	85.0	86.5	77.2	91.2	95.8	93.2	93.4	90.2	89.6	95.1	95.5	94.7
Aluminum	33341	.28	84.9	85.2	83.5	82.7	82.8	81.0	78.4	77.5	77.9	79.6	80.3	81.2	81.3	70.0
Secondary nonf. mts.	3341	.11	71.7	70.7	65.3	69.4	77.0	77.3	75.1	65.7	69.4	76.1	80.4			
Nonferrous products	335,61	1.12</td														

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985	1985						1986						
		Pro- por- tion	Ann. Avg.	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
FABRICATED METAL PRODUCTS	34	6.46	107.9	107.4	107.3	107.8	107.5	108.4	107.9	108.8	109.3	109.4	108.5	107.6	107.3	107.0
Betal containers	341	.52	85.2	84.8	82.4	89.1	86.9	85.8	87.5	90.5	89.2	87.1	84.2	93.0	90.3	88.9
Hardware, tools, cutlery	342	.73	100.9	100.9	98.1	101.2	98.4	98.9	98.9	100.5	99.6	99.4	100.4	102.3	101.4	103.5
Structural metal prod.	344	1.67	109.9	110.7	111.2	111.6	111.9	111.9	111.0	110.9	111.2	110.6	109.5	112.0	112.5	110.9
Fasteners, stamp, etc.	345-7	1.95	109.7	107.6	107.0	109.8	106.6	109.9	109.1	108.3	115.2	117.1	112.2	113.5	108.9	107.5
ELECTRICAL MACHINERY	35	9.54	146.4	145.6	147.5	149.2	146.5	143.0	145.6	146.0	146.2	144.6	143.2	142.0	141.6	139.8
Engine & farm equip.	351,2	1.48	64.8	64.1	64.8	63.7	61.2	62.3	63.8	64.2	65.2	63.2	63.1	65.0	63.1	61.4
Construct. & allied eq.	353	1.68	81.4	81.1	84.0	82.4	81.7	79.4	83.0	81.2	81.7	78.4	74.3	72.8	76.9	76.8
Metalworking machinery	358	1.24	127.1	126.1	129.9	130.6	129.6	124.1	130.3	132.0	133.6	131.4	129.9	128.3	131.4	131.4
Spec. & gear. ind. eq.	355,6	2.12	99.8	101.3	100.2	101.5	101.9	98.5	97.3	97.1	95.8	98.0	97.8	98.2	98.7	96.8
Office, serv., & misc.	357-9	3.02	263.0	257.4	258.8	264.2	265.7	251.6	262.9	261.6	268.4	262.0	256.0	254.6	251.9	246.1
ELECTRICAL MACHINERY	36	7.15	169.3	169.5	165.7	166.1	165.1	165.1	168.9	171.9	167.9	165.5	165.6	166.7	166.0	162.6
Major elect. eq. & pts	361,2	1.27	89.6	89.2	92.1	91.8	89.3	87.1	87.6	88.8	87.7	87.1	85.9	87.7	89.0	87.6
Household appliances	363	.75	126.1	113.2	124.2	119.3	122.7	118.3	132.6	128.6	131.0	132.9	132.8	136.9	132.5	136.7
Cooking equipment	3631	.11	227.5	252.7	195.2	195.3	203.5	191.3	275.3	221.2	274.6	264.5	270.0	247.7	279.4	284.2
Refrigeration appl.	3632	.17	94.2	106.6	95.1	110.5	107.4	90.3	95.9	99.7	93.8	111.7	102.3	120.4	100.7	112.7
Laundry appliances	3633	.12	127.7	113.2	158.5	115.2	124.0	131.0	127.0	145.3	132.4	136.7	132.3	149.7	134.8	136.2
Misc. appliances	3634-6,9	.35	104.2	110.5	103.9	100.8	103.9	104.0	106.7	107.2	102.6	100.1	104.0	105.3	100.2	101.5
TV and radio sets	365	.44	141.2	148.9	117.9	128.5	127.2	133.7	150.2	175.3	159.4	152.3	159.4	169.6	141.5	143.5
Communication equipment	366	2.01	220.6	221.4	218.9	221.4	221.7	221.7	223.9	222.7	220.4	217.9	218.3	221.8	221.7	210.6
Electronic components	367	1.31	261.0	259.8	255.3	248.4	245.3	242.7	246.5	245.9	242.1	239.3	244.8	243.2	240.6	239.7
TV tubes	3671-3	.13	121.7	111.3	116.4	112.2	110.3	117.7	129.8	111.6						
Misc. electrical supp.	369	.70	118.5	121.1	114.2	115.6	114.6	115.0	114.1	120.1	115.9	114.8	116.5	114.6	117.2	115.5
Storage battery, repl.	3691	.13	123.6	136.8	117.9	121.1	123.1	119.2	121.8	137.5	109.6	114.7	126.9	133.5	137.1	133.3
TRANSPORTATION EQUIPMENT	37	9.13	123.2	121.8	123.7	126.8	126.2	124.5	126.5	126.8	128.9	128.1	124.3	127.9	125.4	126.7
Motor vehicles & parts	371	5.25	112.8	110.5	112.8	116.8	115.3	111.7	114.5	115.4	117.8	117.8	110.4	114.8	110.7	112.7
Autos, total	1.82	112.9	110.8	115.4	115.6	112.8	105.3	108.4	114.0	118.2	122.1	108.6	115.2	107.8	113.7	
Consumer	1.16	98.9	97.0	101.1	101.3	98.8	92.3	94.9	99.9	103.6	107.0	95.1	101.0	94.5	99.6	
Business	.66	137.6	135.0	140.6	140.9	137.5	128.4	132.2	138.9	144.1	148.9	132.4	140.5	131.5	138.7	
Trucks and buses	1.03	126.7	121.2	125.1	142.0	137.3	132.1	138.6	128.3	137.0	132.1	118.5	131.9	126.5	124.8	
Business vehicles	.41	111.9	104.1	106.4	121.5	118.2	121.2	123.2	118.8	133.0	119.2	99.9	113.5	104.2	105.6	
Consumer trucks	.63	136.3	132.3	137.2	155.4	149.7	139.1	148.6	134.5	139.5	140.6	130.6	143.9	140.9	137.2	
Track trailers	.09	130.5	135.2	128.9	131.5	135.8	128.9	129.3	133.3	126.5	105.6	118.9	125.6	133.1	136.5	
Motor vehicle parts	2.31	105.8	104.5	104.7	105.9	106.6	107.0	107.9	110.0	108.5	108.0	108.0	106.3	105.1	105.6	
Aircraft and parts	372	2.09	143.4	142.6	142.4	149.4	148.7	149.6	152.3	151.0	155.6	152.3	154.2	157.3	158.2	160.5
Ships and boats	373	.66	87.6	88.9	85.6	84.6	84.6	85.5	85.5	89.4	92.5	87.8	87.5	89.4	89.5	88.4
Rail & misc trans eq.	374-6,9	1.11	158.1	155.2	156.5	163.4	159.2	160.4	159.8	159.0	150.3	154.8	156.3	154.7	151.7	
Railroad equipment	376	.27	31.9	25.8	31.0	47.3	51.4	39.6	35.4	26.3	20.6	9.8	17.8	29.8	29.0	20.2
INSTRUMENTS	38	2.66	139.8	140.7	141.1	141.8	139.4	139.8	140.7	140.6	141.1	141.8	142.5	142.5	141.3	141.7
Equipment instr. & pts	381-8	1.52	157.2	157.4	157.1	159.1	152.8	156.6	161.5	160.1	161.3	160.1	163.4	166.7	162.7	162.3
MISC. MANUFACTURES	39	1.46	96.5	96.8	95.9	97.2	96.4	95.9	94.5	96.3	99.0	98.1	97.2	97.9	98.4	97.5
Misc. cons. goods	391,3,4,6	.84	93.3	91.9	89.9	93.2	89.9	93.7	89.9	94.3	100.1	92.9	94.1	93.5	93.9	92.7
Misc. bus. supplies	395,9	.62	100.8	103.3	102.3	102.6	101.2	99.8	100.6	101.1	101.2	105.0	98.0	101.1	107.5	102.6
ELECTRIC UTILITIES	491	4.17	119.7	119.4	117.5	116.7	120.6	119.3	118.7	124.4	119.9	118.5	119.8	122.2	121.2	121.6
Elec. util. generation	1.76	115.5	112.4	112.9	112.9	115.4	115.6	116.3	119.8	114.8	116.7	113.4	115.6	117.0		
Fossil fuel generation	1.41	109.0	107.2	106.6	106.3	107.8	107.3	108.0	113.9	109.2	107.1	106.0	107.7	110.1		
Hydro & nuclear gener.	.35	141.4	133.1	136.0	139.3	145.9	148.9	149.8	143.6	137.3	144.7	142.9	147.1	144.6		
Elec. util. sales	2.43	122.8	124.6	120.8	119.5	124.5	122.0	120.8	127.8	123.7	121.3	124.5	127.1	124.3		
Residential elec.	.95	123.7	128.2	121.9	119.4	125.2	124.1	119.8	129.1	127.1	119.9	124.7	127.6	126.3		
Nonresidential elec.	1.46	122.2	124.8	120.5	119.5	124.0	120.7	120.8	127.0	121.4	122.3	124.5	126.7	123.0		
Industrial elec.	.68	107.1	108.0	106.4	107.2	108.8	105.7	102.8	108.3	103.8	105.5	108.4	109.7	104.1		
Commercial & other elec.	.78	135.4	139.5	132.7	130.2	137.3	133.8	136.9	143.2	136.8	136.8	138.4	141.5	139.4		

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		1985		1985						1986					
	SIC Code	por. tion	Ann. Avg.	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
FABRICATED METAL PRODUCTS 34	6.46	107.9	109.1	105.7	109.6	110.1	110.2	108.7	107.3	105.3	109.0	108.2	107.6	107.0	108.6	
Metal containers	3411	-52	85.2	88.2	86.0	93.5	92.0	86.4	85.0	82.7	82.9	86.6	83.8	92.3	89.8	92.8
Hardware, tools, cutlery	3421	-73	100.9	101.7	96.9	102.3	103.1	101.5	100.1	98.0	95.2	101.0	100.9	99.9	99.3	104.3
Structural metal prod.	3441	1.67	109.9	1112.3	111.1	113.6	114.9	114.6	113.6	113.8	108.4	105.6	106.7	108.2	110.8	112.5
Fasteners, stamp, etc.	345-71	1.95	109.7	110.9	105.2	110.2	109.6	112.6	109.4	105.6	107.2	118.1	115.4	114.2	108.0	108.0
NONELECTRICAL MACHINERY 35	9.54	146.4	149.1	149.0	153.7	154.8	144.4	144.7	141.2	141.1	143.6	141.5	137.9	138.5	143.2	
Engine & farm equip.	35121	1.48	64.8	64.9	62.1	61.2	62.0	63.4	65.1	65.0	65.2	64.8	64.7	62.4	62.1	
Construct. & allied eq.	3531	1.68	81.4	82.4	82.1	82.3	84.0	80.4	82.6	81.8	78.4	80.1	75.0	72.2	75.5	78.0
Metalworking machinery	3541	1.24	127.1	1125.8	129.3	132.3	134.3	126.7	127.2	126.8	128.2	134.1	133.0	129.8	128.5	131.0
Spec. & genl. ind. eq.	35561	2.12	99.8	102.4	97.9	101.0	103.8	98.6	98.1	96.5	94.0	99.0	99.0	98.0	97.8	
Office, serv., & misc.	35791	3.02	263.0	264.5	272.9	284.8	284.2	260.2	259.4	249.1	252.0	252.7	249.6	241.9	243.7	252.9
ELECTRICAL MACHINERY 36	7.15	169.3	171.3	160.1	165.9	167.9	169.8	170.3	168.3	165.8	165.0	166.0	166.6	165.1	163.9	
Major elect. eq.& pts	36121	1.27	89.6	91.6	90.3	92.3	92.7	89.3	86.0	84.9	85.9	86.2	87.1	87.2	89.3	90.0
Household appliances	3631	.75	124.1	1133.9	108.1	117.7	124.9	136.0	127.7	109.2	130.0	139.2	136.0	144.3	132.7	138.2
Cooking equipment	36311	.11	227.5	1254.8	167.5	208.8	207.6	235.3	271.0	198.6	259.6	269.1	248.9	258.7	279.1	286.6
Refrigeration appl.	36321	.17	94.2	117.1	102.6	80.7	102.0	103.9	83.3	69.3	96.3	118.1	114.9	134.6	109.7	123.5
Laundry appliances	36331	.12	127.7	1131.2	117.1	125.0	126.5	152.8	118.4	115.5	138.8	148.0	142.1	159.0	134.0	135.0
Misc. appliances	36346,91	.35	104.2	1104.4	88.8	103.8	108.9	113.9	106.4	97.5	101.8	105.1	108.1	107.7	96.7	99.4
TV and radio sets	3651	.44	141.2	1141.6	110.0	143.3	140.6	169.4	175.9	149.1	146.6	142.3	137.8	143.8	139.5	136.2
Communication equipment	3661	2.01	220.6	1221.2	216.3	218.3	219.7	221.1	226.5	230.4	221.8	217.8	220.0	219.0	219.2	210.5
Electronic components	3671	1.31	261.0	1264.1	244.6	248.2	245.7	243.5	245.6	247.5	241.4	240.6	244.7	243.4	241.7	243.6
TV tubes	36713-1	.13	121.7	1112.9	93.3	121.7	118.9	133.3	134.0	91.1						
Misc. electrical supp.	3691	.70	118.5	116.7	108.1	116.4	123.5	125.0	121.3	127.6	115.8	108.5	109.0	108.0	111.6	111.2
Storage battery, repl.	36911	.13	123.6	61109.9	97.1	133.7	161.0	160.9	147.6	162.4	114.5	96.9	98.8	102.7	106.7	107.0
TRANSPORTATION EQUIPMENT 37	9.13	123.2	1127.3	113.9	117.9	125.2	128.1	128.1	122.1	129.3	130.5	128.0	130.7	129.0	132.0	
Motor vehicles & parts	3711	5.25	112.8	1120.5	100.0	104.1	113.4	118.4	115.4	103.1	117.1	121.8	115.9	120.0	116.8	122.4
Autos, total	1.82	112.9	1124.6	96.6	90.7	109.5	119.4	115.5	89.6	120.2	128.4	116.6	123.7	116.5	127.4	
Consumer	1.161	98.9	1109.2	84.7	79.5	95.9	104.7	101.2	78.5	105.3	112.5	102.2	108.3	102.0	111.6	
Business	.66	137.6	1151.9	117.8	110.6	133.5	145.6	140.9	109.2	146.5	156.5	142.2	150.8	142.0	155.3	
Trucks and buses	1.03	126.7	1142.6	98.0	126.7	131.8	141.3	132.4	105.5	130.1	141.5	131.5	143.1	139.9	145.4	
Business vehicles	.41	111.9	1126.9	88.0	109.4	110.7	122.4	113.2	94.9	125.7	126.7	111.6	126.0	119.8	127.1	
Consumer trucks	.63	136.3	1152.7	105.9	137.9	145.5	153.6	144.9	112.4	133.0	151.1	144.5	154.2	153.0	157.2	
Truck trailers	.09	130.5	1139.1	113.4	128.5	136.9	129.1	127.8	132.8	116.3	111.0	131.4	129.3	134.3	140.5	
Motor vehicle parts	2.31	105.8	1106.7	103.1	103.6	107.2	106.8	107.2	111.5	108.8	108.2	107.6	106.4	105.9	107.5	
Aircraft and parts	3721	2.09	143.4	1141.4	138.5	142.9	147.8	149.8	154.7	156.5	156.7	155.2	156.0	156.4	157.8	159.0
Ships and boats	3731	.66	87.6	88.3	82.7	81.7	83.7	86.7	88.2	91.6	91.0	87.8	88.6	90.0	90.1	87.9
Rail & misc trans eq.	374-6,91	1.11	156.1	1156.5	151.8	157.9	163.3	157.5	161.6	165.5	158.8	150.6	156.5	157.6	155.6	152.9
Railroad equipment	3741	.27	31.4	28.7	29.1	35.4	47.8	39.0	33.3	31.9	21.1	9.2	19.0	31.6	30.8	22.5
INSTRUMENTS 38	2.66	139.8	1143.2	142.1	144.1	142.9	141.0	141.7	140.1	138.6	139.5	141.5	140.4	139.2	144.2	
Equipment instr.& pts	381-4	1.52	157.2	1161.2	161.3	163.4	162.4	159.5	159.5	156.0	154.5	157.3	160.3	159.3	159.8	166.4
MISC. MANUFACTURES 39	1.461	96.5	99.2	95.4	103.1	102.8	98.7	92.3	90.9	93.0	97.8	96.2	94.8	97.5	99.5	
Misc. cons. goods	391,3,4,61	.84	93.31	96.0	89.6	99.2	98.7	97.0	87.9	87.1	90.7	91.4	93.9	91.3	93.1	96.9
Misc. bus. supplies	395,91	.62	100.8	103.6	103.3	108.3	108.4	101.1	98.3	96.0	106.6	99.4	99.5	103.5	103.0	
ELECTRIC UTILITIES 491	4.17	119.7	1120.6	126.3	127.7	127.0	110.4	112.1	123.3	127.0	127.4	114.1	112.6	109.2	123.0	
Elec. util. generation	1.76	115.5	116.7	125.1	124.9	115.3	107.3	109.7	120.7	119.9	117.0	107.9	106.0	108.6		
Fossil fuel generation	1.441	109.0	1110.6	120.8	121.9	109.7	102.1	102.4	113.9	113.7	107.5	97.9	95.0	99.1		
Hydro & nuclear gener.	.35	141.4	1141.1	142.5	137.0	137.7	128.1	138.6	147.7	145.0	155.0	147.7	149.9	146.6		
Elec. util. sales	2.41	122.8	1123.5	127.1	129.8	135.6	112.6	113.8	125.3	132.1	135.0	118.6	117.4	109.6		
Residential elec.	.95	123.7	1114.9	130.3	134.5	134.7	105.5	107.7	132.4	152.2	144.2	120.2	112.8	100.4		
Nonresidential elec.	1.461	122.2	1129.1	125.1	126.7	136.2	117.2	117.8	120.6	119.0	128.9	117.6	120.4	115.7		
Industrial elec.	.68	107.1	113.4	104.4	109.0	115.4	103.5	104.4	103.21	98.7	110.6	104.9	107.8	102.5		
Commercial & other elec.	.78	135.4	1142.8	143.0	142.1	154.3	129.1	129.5	135.8	136.7	144.9	128.6	131.3	127.1		

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

SERIES	Quarterly Averages of Monthly Indexes									
	1984 Q1	Q2	Q3	Q4	1985 Q1	Q2	Q3	Q4	1986 Q1	Q2
Industrial production	119.3	121.5	123.4	123.1	123.8	124.2	124.8	125.4	125.6	124.7
Products, total	123.7	126.4	128.8	129.5	129.9	131.3	132.6	133.1	133.2	132.7
Final products	124.2	127.1	129.5	130.4	130.5	131.5	132.8	133.3	132.9	131.9
Consumer goods	116.8	118.2	118.6	119.3	119.3	120.0	121.1	122.6	123.2	124.5
Durable consumer goods	112.9	112.2	112.9	112.6	113.0	111.7	112.7	114.5	115.3	114.4
Automotive products	111.1	109.9	109.8	108.6	114.9	113.4	117.6	115.4	116.0	116.5
Home goods	114.3	115.9	115.3	115.7	111.6	110.5	109.1	113.9	114.8	112.7
Nondurable consumer goods	118.2	120.4	120.6	121.6	121.6	123.0	124.2	125.6	126.1	128.2
Equipment, total	134.0	138.7	144.0	145.1	145.5	146.9	148.3	147.6	145.8	141.8
Business & defense equipment	133.1	138.0	143.0	144.2	145.7	147.7	149.0	148.9	148.6	146.8
Business equipment	128.7	133.3	138.4	139.1	140.2	141.6	142.2	140.9	141.0	138.6
Defense and space equipment	150.6	156.3	160.8	164.1	167.2	171.6	175.7	180.0	178.2	179.0
Intermediate products	121.9	124.2	126.5	126.9	127.7	130.3	131.7	132.3	134.2	135.5
Construction supplies	112.5	113.7	114.8	115.0	116.3	118.2	120.7	120.5	123.7	124.0
Business supplies	129.9	133.2	136.5	137.1	137.5	140.6	141.0	142.4	143.1	145.3
Commercial energy products	115.3	117.7	118.4	120.7	121.9	123.2	123.6	126.4	126.6	128.0
Materials	113.3	114.8	116.0	114.5	115.4	114.5	114.2	114.8	115.2	113.8
Durable goods materials	119.6	121.9	124.0	123.7	123.6	121.4	120.7	121.4	121.6	119.1
Basic metal materials	87.3	87.8	85.7	84.7	84.2	84.5	83.5	87.3	84.0	80.1
Nondurable goods materials	111.1	111.3	111.6	110.9	110.9	111.2	113.7	113.8	115.7	116.4
Textile, paper, & chem materials	111.7	111.8	112.2	110.7	111.6	111.0	114.1	114.0	116.2	116.6
Textile materials	105.7	103.3	102.3	94.5	92.3	95.5	102.9	102.6	105.1	107.3
Pulp and paper materials	124.9	127.4	127.7	126.2	126.3	121.8	123.8	124.5	128.3	129.3
Chemical materials	109.2	109.3	110.2	110.9	113.2	112.6	114.8	114.2	115.7	115.4
Energy materials	104.0	105.3	105.7	101.3	105.0	105.2	103.2	104.2	103.6	102.1
Manufacturing	120.9	123.4	125.6	125.8	126.0	126.6	127.6	128.2	128.9	128.6
Durable	120.9	123.9	127.1	127.3	127.7	127.9	128.5	128.9	129.1	127.4
Nondurable	120.7	122.4	123.4	123.5	123.6	124.9	126.4	127.2	128.6	130.1
Mining and Utilities	110.4	111.6	112.3	109.3	111.7	111.3	109.6	109.9	108.1	104.6
Mining	109.9	111.7	113.8	108.3	110.1	110.0	108.5	107.6	105.1	100.3
Utilities	111.2	111.4	109.8	111.1	114.2	113.6	111.4	113.7	113.1	111.8

Table 6
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS
Billions of 1972 dollars at annual rates, seasonally adjusted

SERIES	Billions of 1972 Dollars at Annual Rates													
	1972 Dollars	Ann.	Quarters				1986				Months			
			1985 Q1	Q2	Q3	Q4	1986 Q1	Q2	FEB	MAR	APR	MAY	JUN	JUL
Products, total	517.5	773.2	765.0	773.7	775.2	779.4	785.5	783.5	786.3	777.2	789.1	783.0	778.5	772.8
Final products	405.7	614.7	609.5	615.4	615.5	619.2	622.5	619.5	623.7	614.6	625.5	618.5	614.4	608.7
Consumer goods	272.7	364.8	361.4	364.6	364.5	369.3	373.2	376.6	373.9	370.5	379.5	376.7	373.7	371.7
Durable consumer goods	73.2	95.9	95.9	95.1	96.2	96.9	97.8	97.2	99.0	95.3	99.0	95.9	96.5	96.2
Automotive products	38.4	52.0	52.1	51.3	53.2	51.7	52.6	52.6	54.0	50.8	53.7	51.7	52.3	52.0
Home goods	34.8	43.9	43.8	43.8	43.0	45.2	45.1	44.6	45.0	44.6	45.2	44.2	44.2	44.2
Nondurable consumer goods	199.4	268.9	265.6	269.6	268.3	272.4	275.4	279.5	274.9	275.2	280.6	280.7	277.2	275.5
Equipment, total	133.0	249.9	248.0	250.8	251.0	249.9	249.3	242.8	249.8	244.1	246.0	241.8	240.7	237.0
Business & defense equipment	126.0	238.8	236.5	239.8	239.7	239.1	240.4	236.5	240.9	236.4	239.1	235.5	234.9	231.1
Business equipment	99.7	194.3	193.6	195.9	194.8	193.0	194.6	190.5	195.4	190.4	193.2	189.5	188.9	185.1
Defense and space equipment	26.3	44.4	42.9	43.9	44.9	46.1	45.8	45.9	45.5	45.9	45.9	46.0	46.0	46.0
Intermediate products	111.9	158.5	155.6	158.3	159.7	160.3	163.0	164.1	162.6	162.6	163.6	164.5	164.1	164.1
Construction supplies	54.4	66.5	65.1	66.2	67.6	67.4	69.4	69.4	69.2	69.3	69.7	69.8	68.7	69.0
Business supplies	57.5	92.0	90.5	92.1	92.1	92.9	93.6	94.7	93.4	93.3	93.9	94.7	95.4	
Commercial energy products	12.1	15.9	15.3	15.9	15.9	16.1	15.9	16.0	16.0	16.0	16.3	16.9		

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

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1977-85			
AVERAGE	53.5	56.2	57.6
HIGH	76.6	79.4	88.3
LOW	26.4	23.2	23.0
1984			
JUNE	51.6	60.3	75.2
JULY	56.2	60.9	64.7
AUGUST	45.2	55.6	63.5
SEPTEMBER	47.0	49.2	56.9
OCTOBER	48.6	47.6	55.8
NOVEMBER	52.2	51.0	51.6
DECEMBER	55.0	52.0	52.6
1985			
JANUARY	54.2	56.0	59.0
FEBRUARY	54.2	56.5	54.0
MARCH	51.4	57.3	54.0
APRIL	54.2	54.4	55.2
MAY	55.2	54.8	59.5
JUNE	52.6	60.9	59.5
JULY	52.0	53.8	58.1
AUGUST	60.1	57.3	64.1
SEPTEMBER	50.4	58.3	57.7
OCTOBER	47.6	54.4	52.2
NOVEMBER	56.0	51.8	55.8
DECEMBER	54.6	58.1	58.1
1986			
JANUARY	53.8	63.7	61.1
FEBRUARY	42.9	58.1	56.5
MARCH	38.3	38.5	47.4
APRIL	67.9	46.2	59.9
MAY	43.3	53.8	55.2
JUNE	44.2	57.3	45.6

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

	1985	Millions of Units														
		Ann.	1985						1986							
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
Autos, total			8.2	8.3	8.3	8.1	7.6	7.8	8.1	8.4	8.7	7.7	8.1	7.6	8.0	7.6

45 COMMANDS PROCESSED

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

Series	SIC code	1977 KWh/l.	Indexes						Percentage change from previous quarter				Indexes			
			1985			1986			1985		1986		1985		1986	
			1985 Avg.	Q2	Q3	Q4	1986 Q1	Q2	Q3	Q4	Q1	Q2	1985 MAY	1986 MAY	1986 JUN	
TOTAL	10-14,20-39	785.8	100.2	100.7	100.0	99.4	99.5	97.4	-0.8	-0.5	.1	-2.1	-3.3	97.2	97.4	
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	59.4	122.2	126.3	124.2	120.1	119.7	112.4	-1.7	-3.3	-0.4	-6.1	-11.1	109.3	110.4	
MANUFACTURING	20-39	726.4	98.8	99.2	98.2	98.1	98.2	96.5	-1.0	-0.1	.1	-1.7	-2.7	96.3	96.7	
DURABLE	24,25,32-39	344.3	97.2	96.0	96.9	97.6	97.6	94.2	.9	.8	.0	-3.5	-1.9	94.2	92.5	
NONDURABLE	20-23,26-31	382.1	100.2	102.0	99.5	98.5	98.8	98.6	-2.5	-1.0	.3	-0.2	-3.3	98.4	100.0	
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	15.11	106.6	115.1	111.9	101.6	100.6	95.1	-2.8	-9.2	-1.0	-5.4	-17.4	92.8	91.8	
Iron ore	1011	6.11	108.5	122.9	113.9	97.0	101.8	94.5	-7.4	-14.8	5.0	-7.2	-23.1	95.6	83.3	
Copper ore	1021	5.91	110.2	107.9	113.6	105.7	118.0	96.5	5.3	-7.0	11.6	-18.2	-10.6	100.9	97.2	
COAL	11,121	10.3	131.2	136.3	137.8	122.5	141.1	139.2	1.1	-11.1	15.2	-1.4	2.1	134.8	135.8	
OIL AND GAS EXTRACTION	131	23.0	135.0	134.4	135.9	136.9	137.1	121.2	1.1	.7	.2	-11.6	-9.8	120.4	119.3	
Crude oil and natural gas	1311	18.21	139.8	139.9	140.9	141.5	139.8	124.1	.6	.4	-1.2	-11.3	-11.4	122.5	122.6	
Natural gas liquids	1321	3.41	104.9	103.1	103.5	111.9	109.7	102.0	.4	8.1	-2.0	-7.0	-1.1	102.9	101.8	
STONE AND EARTH MINERALS	141	11.01	109.3	113.1	109.8	104.0	93.1	90.8	-2.9	-5.3	-10.5	-2.5	-19.8	89.1	90.6	
Crushed stone	1421	2.41	145.2	141.3	144.5	145.1	140.8	141.1	2.2	.4	-2.9	.2	-0.1	139.3	140.6	
Sand and gravel	1441	2.01	91.3	91.7	92.7	92.9	90.2	96.4	1.1	.2	-2.9	6.9	5.1	94.8	95.9	
Chemical & fertilizer mat.	1471	5.01	100.7	109.2	100.8	90.8	76.3	70.9	-7.7	-9.9	-15.9	-7.1	-35.1	69.4	70.4	
FOODS	201	42.41	118.8	119.2	118.9	118.7	120.0	121.5	-0.3	-0.2	1.1	1.3	1.9	121.6	122.0	
Meat products	2011	6.91	109.9	109.7	108.5	110.3	112.5	113.4	-1.0	1.7	1.9	.8	3.4	113.6	112.5	
Dairy products	2021	5.31	117.5	116.9	118.4	120.9	122.4	126.1	1.3	2.1	1.2	3.0	7.8	128.3	125.7	
Canned and frozen foods	2031	5.71	131.3	132.7	134.2	125.6	130.9	132.0	1.1	-6.4	4.2	.8	-0.5	134.8	131.4	
Grain mill products	2041	7.41	111.6	112.7	109.8	112.3	110.2	109.7	-2.6	2.3	-1.9	-0.4	-2.6	110.1	109.8	
Bakery products	2051	2.51	135.3	136.4	135.9	136.8	142.0	140.4	-0.4	.6	3.8	-1.1	2.9	139.1	139.7	
Sugar and confectionery	2061	3.31	167.0	173.9	167.1	165.1	171.7	181.1	-3.9	-1.2	4.0	5.5	4.1	182.4	178.0	
Fats and oils	2071	3.41	109.8	109.4	113.0	109.4	115.2	112.9	3.3	-3.2	5.4	-2.1	3.2	112.5	110.5	
Beverages	2081	4.81	122.7	123.4	122.3	122.7	120.5	125.8	-0.9	.4	-1.8	4.5	2.0	124.9	130.0	
Misc. food preparations	2091	3.11	115.8	116.4	117.1	114.1	115.5	117.3	.6	-2.5	1.2	1.5	.7	118.0	117.8	
TOBACCO PRODUCTS	211	1.31	104.0	100.4	97.1	112.3	98.7	99.4	-3.3	15.7	-12.1	.7	-0.9	97.9	100.3	
TEXTILE MILL PRODUCTS	221	28.31	94.9	92.9	97.1	98.5	96.3	98.0	4.5	1.5	-2.2	1.7	5.5	97.4	96.3	
Fabrics	221-41	12.11	90.2	88.7	91.6	92.2	90.8	92.0	3.3	.6	-1.6	1.4	3.8	89.5	89.4	
Knit goods	2251	3.71	79.1	77.9	82.1	81.0	80.1	84.1	5.4	-1.4	-1.1	5.0	8.0	85.0	84.1	
Fabric finishing	2261	2.21	117.1	113.1	123.4	124.4	114.6	116.5	9.2	.8	-7.9	1.6	3.0	114.3	121.0	
Yarn and thread	2281	6.71	104.9	99.0	110.6	115.1	105.9	108.2	11.7	4.1	-8.0	2.2	9.3	110.3	107.3	
Miscellaneous textiles	2291	2.11	95.4	96.5	94.9	96.0	95.9	98.9	-1.7	1.2	-0.1	3.3	2.5	98.6	98.3	
APPAREL PRODUCTS	231	6.61	117.3	118.7	115.4	119.0	121.4	138.4	-2.8	3.2	2.0	14.0	16.6	138.5	136.4	
Men's outerwear	231,21	2.11	113.7	115.8	112.3	115.8	120.0	117.4	-3.0	3.2	3.6	-2.2	1.3	120.3	118.6	
Women's outerwear	2331	1.91	109.0	110.6	105.6	110.6	116.2	113.1	-4.5	4.7	5.1	-2.7	2.2	115.6	111.4	
LUMBER AND PRODUCTS	241	16.41	119.1	118.3	119.2	121.9	122.4	128.4	.7	2.3	.4	4.8	8.5	127.2	128.8	
Lumber	2421	6.91	100.1	99.4	100.5	102.6	103.0	108.1	1.1	2.0	.4	4.9	8.7	108.8	109.0	
Millwork and plywood	2431	4.41	129.0	126.5	129.4	134.3	134.2	139.0	2.3	3.8	-0.1	3.6	9.9	137.8	139.4	
FURNITURE AND FIXTURES	251	4.21	122.6	121.4	124.5	124.0	125.8	127.6	2.5	-0.4	1.4	1.4	5.1	128.3	128.9	
Home furniture	2511	2.81	114.6	113.7	115.5	116.6	116.3	117.6	1.7	.9	-0.2	1.1	3.5	118.9	117.2	
PAPER AND PRODUCTS	261	71.21	118.9	118.3	118.3	118.9	119.4	119.6	.0	.5	.4	.2	1.0	118.5	119.7	
Wood pulp	2611	3.91	129.8	126.2	130.2	124.5	129.5	117.4	3.2	-4.4	4.0	-9.3	-7.0	110.5	123.7	
Paper	2621	34.41	125.6	125.2	123.6	126.1	128.1	129.3	-1.2	2.0	1.6	.9	3.3	128.1	128.9	
Paperboard	2631	22.11	106.7	103.6	109.5	108.5	100.5	101.2	5.7	-0.9	-7.4	.7	-2.3	99.9	102.0	
Converted paper	2641	5.01	116.8	118.9	116.1	113.2	109.4	108.6	-2.4	-2.5	-3.3	-0.7	-8.7	110.4	106.4	
Paperboard containers	2651	3.41	109.8	106.7	108.8	113.7	111.0	115.6	2.0	4.5	-2.3	4.1	8.3	117.7	114.3	
Building paper and board	2661	1.11	150.31	147.9	156.1	149.0	157.0	153.0	5.5	-4.6	5.4	-2.5	3.4	152.9	158.6	
PRINTING AND PUBLISHING	271	10.61	141.6	143.0	140.4	144.7	143.2	149.7	-1.8	3.0	-1.0	4.5	4.7	150.1	148.5	
Newspapers	2711	2.61	120.1	121.5	118.8	122.0	121.8	128.2	-2.2	2.8	-0.2	5.3	5.5	129.5	125.7	
Commercial Printing	2751	4.81	159.7	162.9	157.0	163.8	159.9	167.7	-3.6	4.3	-2.4	4.9	2.9	166.2	165.9	
CHEMICALS AND PRODUCTS	281	162.11	86.2	90.3	84.6	82.1	82.0	80.0	-6.3	-2.9	-0.2	-2.4	-11.4	79.5	81.9	
Basic chemicals	2811	85.61	74.5	82.2	71.6	67.2	68.1	66.3	-12.9	-6.2	1.4	-2.7	-19.4	65.8	67.6	
Alkalies and chlorine	28121	13.31	88.3	92.9	90.2	78.1	89.2	92.3	-3.0	-13.4	14.2	3.5	-0.7	93.7	98.7	
Inorganic chemicals,nec	28191	58.11	62.2	73.7	57.8	52.0	52.4	49.6	-21.5	-10.0	-6	-5.3	-32.7	49.7	50.2	
Acid and fertilizer mat.	1	13.01	80.9	85.4	79.6	70.9	75.7	67.1	-6.9	-10.9	6.7	-11.3	-21.5	69.3	67.7	
Nuclear mats., nondefense	1	44.61	54.4	68.3	48.7	44.2	42.9	42.0	-28.8	-9.2	-2.8	-2.1	-38.5	42.0	42.0	
Synthetic materials	2821	19.31	113.1	109.7	113.9	116.7	118.6	108.9	3.9	2.5	1.6	-8.2	-0.7	106.0	116.7	
Plastics materials	28211	9.21	133.8	126.6	133.7	141.7	147.9	133.4	5.6	6.0	4.4	-9.8	5.4	125.0	157.9	
Drugs	2831	4.11	140.8	140.9	142.5	141.4	139.8	147.0	1.2	-0.8	-1.2	5.2	4.4	146.7	142.6	
Soaps and toiletries	2841	2.11	118.0	117.5	118.4	120.5	123.3	128.5	.8	1.8	2.3	4.2	9.4	129.1	126.9	
Industrial organic chem.	2861	35.81	94.3	90.0	95.5	96.5	93.3	92.8	6.0	1.0	-3.3	-0.5	3.1	91.7	94.3	
Farm chemicals	2871	10.51	92.8	95.0	87.9	91.9	86.6	90.8	-7.5	4.5	-5.8	4.9	-8.4	93.6	90.5	

Table 9B
ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1977 = 100

Series	SIC code	1977 (bil. KWH)	Indexes						Percentage change from previous quarter						Indexes		
			1985 AVG.		1985 Q3 Q4		1986 Q1 Q2		1985 Q3 Q4		1986 Q1 Q2		1985 Q2		1986 MAY JUN		
			KWH	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	MMBBL	
TOTAL	10-14,20-39	785.8	100.2	102.0	101.6	98.1	97.8	98.7	-0.4	-3.5	-0.3	.9	-3.3	98.1	100.0		
MAJOR INDUSTRY DIVISIONS																	
Mining	10-14	55.4	122.2	126.9	118.7	118.8	125.5	112.9	-6.5	-1	5.6	-10.1	-11.0	110.4	109.3		
Manufacturing	20-39	726.4	98.9	100.4	100.5	96.7	95.9	97.7	-1	-3.8	-0.8	1.9	-2.6	97.2	99.4		
Durable	24,25,32-39	344.3	97.2	97.5	98.4	95.8	96.1	95.7	+9	-2.7	-4	-0.5	-1.9	95.8	95.0		
Nondurable	20-23,26-31	382.1	100.2	102.9	102.4	97.5	95.8	99.6	-0.5	-4.8	-1.8	4.0	-3.3	98.6	103.3		
INDUSTRY GROUPS AND SERIES																	
METAL MINING	10	15.1	106.6	123.4	101.9	94.4	108.8	101.9	-17.4	-7.3	15.2	-6.4	-17.4	103.3	95.0		
Iron ore	101	6.1	108.5	134.4	104.0	89.3	107.8	103.3	-22.6	-14.1	20.7	-4.2	-23.1	106.9	90.1		
Copper ore	132	5.9	110.2	114.9	109.6	105.9	113.8	102.7	-4.6	-3.4	7.5	-9.8	-10.6	102.8	104.6		
COAL	11,12	10.3	131.2	130.1	118.8	127.9	160.1	133.0	-8.7	7.7	25.2	-16.9	2.2	125.6	124.9		
OIL AND GAS EXTRACTION	13	23.0	135.0	133.7	136.7	137.8	136.1	120.6	2.3	-7	-1.2	-11.4	-9.8	117.5	120.6		
Crude oil and natural gas	131	18.2	139.8	138.2	141.0	142.4	140.5	122.5	2.0	1.0	-1.3	-12.8	-11.3	119.2	122.0		
Natural gas liquids	132	3.4	104.9	105.9	108.9	107.6	104.9	104.8	2.8	-1.2	-2.5	-0.2	-1.1	106.3	105.7		
STONE AND EARTH MINERALS	14	11.0	109.3	114.8	106.7	106.7	91.9	92.2	-7.1	-1	-13.9	-4.1	-19.7	90.5	90.7		
Crushed stone	142	2.4	145.2	145.9	151.5	147.7	126.8	145.7	3.8	-2.5	-14.1	14.9	-0.2	144.2	146.1		
Sand and gravel	144	2.0	91.3	91.5	98.4	99.0	78.9	96.1	7.6	-6	-20.3	21.8	5.0	95.6	98.6		
Chemical & fertilizer mat.	147	5.0	100.7	109.7	92.8	93.1	80.2	71.2	-15.4	.3	-13.9	-11.2	-35.1	69.2	68.4		
FOODS	20	42.4	118.8	115.7	128.1	120.2	112.7	117.9	10.7	-6.1	-6.2	4.6	1.9	115.5	124.8		
Meat products	201	6.9	109.9	107.2	119.6	109.8	104.0	110.8	11.6	-8.2	-5.3	6.6	3.4	109.3	116.7		
Dairy products	202	5.3	117.5	117.0	131.1	116.4	113.5	126.2	12.0	-11.2	-2.5	11.2	7.8	123.9	134.2		
Canned and frozen foods	203	5.7	131.3	126.2	147.6	128.7	121.2	125.4	17.0	-12.8	-5.8	3.4	-0.6	126.2	129.0		
Grain mill products	204	7.4	111.6	108.2	113.3	114.6	108.6	105.4	4.8	1.1	-5.2	-3.0	-2.6	103.2	109.3		
Bakery products	205	2.5	135.3	133.9	150.0	135.7	130.8	137.7	12.1	-9.5	-3.6	5.3	2.9	134.3	146.2		
Sugar and confectionery	206	3.3	167.0	153.6	163.1	190.9	168.5	160.0	6.2	17.0	-11.7	-5.0	4.2	157.3	167.6		
Fats and oils	207	3.4	109.8	103.6	111.3	117.0	114.9	106.9	7.5	5.1	-1.6	-6.9	3.2	104.4	107.8		
Beverages	208	4.8	122.7	122.7	136.1	119.4	110.6	125.4	10.9	-12.2	-7.4	13.4	2.2	122.0	137.9		
Misc. food preparations	209	3.1	115.8	113.7	125.9	115.6	107.7	114.6	10.7	-8.2	-6.8	6.4	.7	113.0	121.8		
TOBACCO PRODUCTS	21	1.3	104.0	96.7	107.0	112.7	91.5	96.3	10.7	5.3	-18.8	5.2	-0.4	93.2	106.0		
TEXTILE MILL PRODUCTS	22	28.3	94.9	95.7	102.4	98.4	87.8	101.0	7.0	-4.0	-10.8	15.0	5.4	99.4	106.8		
Fabrics	221	12.1	90.2	91.4	97.0	92.3	82.0	94.8	6.1	-4.8	-11.2	15.9	3.7	91.7	99.8		
Knit goods	225	3.7	79.1	80.0	89.1	79.7	72.3	86.3	11.4	-10.5	-9.4	19.5	8.0	85.5	94.2		
Fabric finishing	226	2.2	117.1	117.2	121.7	122.8	113.6	120.7	3.9	-9	-7.5	6.2	3.0	117.8	128.8		
Yarn and thread	228	6.7	104.9	105.0	114.9	113.1	96.9	114.6	9.4	-1.6	-14.3	18.3	9.2	115.6	121.4		
Miscellaneous textiles	229	2.1	95.4	97.0	99.4	96.2	90.4	99.4	2.4	-3.3	-6.0	10.1	2.5	99.3	103.6		
APPAREL PRODUCTS	23	6.6	117.3	114.7	133.6	115.4	110.1	133.5	16.5	-13.6	-4.6	21.3	16.5	128.6	144.4		
Men's outerwear	231	2.1	113.7	113.2	132.6	111.0	105.9	114.8	17.2	-16.3	-4.6	8.4	1.4	113.6	128.6		
Women's outerwear	233	1.9	109.0	106.5	126.6	105.0	103.0	108.9	18.9	-17.1	-1.9	5.7	2.3	106.2	120.6		
LUMBER AND PRODUCTS	24	16.4	119.1	118.2	116.8	121.6	125.1	128.3	-1.2	4.1	2.9	2.5	8.5	127.0	126.2		
Lumber	242	6.9	100.1	99.6	97.7	102.1	105.9	108.4	-1.9	4.5	3.7	2.3	8.8	109.0	106.1		
Millwork and plywood	243	4.4	129.0	127.8	125.8	134.0	136.6	140.5	-1.5	6.5	2.0	2.8	9.9	140.1	137.8		
FURNITURE AND FIXTURES	25	4.2	122.6	120.1	125.0	124.1	126.3	126.2	4.0	-0.7	1.7	-0.1	5.1	123.7	129.9		
Home furniture	251	2.8	114.6	113.3	114.5	116.3	117.9	117.2	1.1	1.6	1.4	-0.6	3.5	115.6	119.4		
PAPER AND PRODUCTS	26	71.9	118.9	119.3	119.5	118.1	117.8	120.5	.2	-1.2	-0.2	2.3	1.0	118.5	121.1		
Wood pulp	261	5.9	129.8	128.3	131.6	126.4	123.5	119.3	2.6	-3.9	-2.3	3.4	-7.0	112.3	126.0		
Paper	262	34.4	125.6	126.5	124.5	124.8	126.9	130.6	-1.6	.2	1.7	2.9	3.3	128.2	130.0		
Paperboard	263	22.1	106.7	106.4	108.8	105.6	100.8	104.0	2.2	-2.9	-4.5	3.1	-2.3	101.0	105.9		
Converted paper	264	5.0	116.8	119.5	120.1	112.0	106.0	109.1	.5	-6.7	-5.4	2.9	-8.7	108.7	111.2		
Paperboard containers	265	3.4	109.8	106.4	111.0	112.9	109.5	115.2	4.3	1.7	-3.0	5.2	8.3	114.5	117.5		
Building paper and board	266	1.1	150.3	150.7	153.2	150.5	154.5	155.9	1.7	-1.8	2.6	.9	3.5	157.1	160.0		
PRINTING AND PUBLISHING	27	10.6	141.6	138.3	159.0	141.6	131.8	144.8	15.0	-11.0	-6.9	9.8	4.7	141.7	154.2		
Newspapers	271	2.6	120.1	118.7	134.1	119.6	111.1	125.2	13.1	-10.8	-7.2	12.8	5.5	123.6	133.4		
Commercial printing	275	4.8	159.7	155.9	178.7	160.4	147.8	160.5	14.6	-10.2	-7.9	8.6	2.9	156.2	169.1		
CHEMICALS AND PRODUCTS	28	162.1	86.2	92.6	85.4	80.4	80.7	82.1	-7.7	-5.9	.3	1.7	-11.4	81.7	84.2		
Basic chemicals	281	85.6	74.5	84.1	71.9	66.3	67.2	67.8	-14.4	-7.8	1.3	.9	-19.4	68.3	68.3		
Alkalies and chlorine	2812	13.3	68.3	95.7	89.5	77.2	87.9	94.9	-6.5	-13.7	13.9	7.9	-0.8	95.9	98.9		
Inorganic chemicals,nec	2819	58.1	62.2	75.2	57.9	51.7	51.6	50.6	-23.0	-10.7	-0.1	-2.1	-32.7	51.8	50.5		
Acid and fertilizer mat.	13.04	80.9	87.0	80.1	70.8	73.8	68.4	-7.9	-11.6	4.2	-7.4	-21.5	70.7	68.9			
Nuclear mats., nondefense	44.61	54.4	70.2	48.5	43.7	42.4	43.1	-30.8	-10.0	-3.0	1.8	-38.5	43.9	42.8			
Synthetic materials	282	19.3	113.1	114.0	117.3	112.9	113.9	113.3	2.9	-3.7	.9	-0.5	-0.6	108.1	123.1		
Plastics materials	2821	9.2	133.8	131.5	138.1	136.4	142.0	138.6	5.0	-1.2	4.1	-2.4	5.4	125.0	165.6		
Drugs	283	4.11	140.8	140.5	156.6	138.5	129.1	146.5	11.5	-11.6	-6.8	13.5	4.3	141.4	153.0		
Soaps and toiletries	284	2.11	118.0	114.5	125.3	119.4	120.1	125.3	9.4	-4.7	.6	4.3	9.4	124.8	129.3		
Industrial organic chem.	286	35.8	94.3	93.2	94.8	93.0	93.8	96.1	1.7	-1.9	.8	2.4	3.1	95.3	98.2		
Farm chemicals	287	10.51	92.8	96.9	89.0	90.1	85.3	92.6	-8.1	1.3	-5.3	8.5	-4.4	94.0	91.5		

Table 9A—continued

ELECTRIC POWER USE BY INDUSTRIES

Seasonally adjusted indexes, 1977 = 100

Series	SIC code	KWH	Indexes						Percentage change from previous quarter				Indexes			
			1977		1985		1986		1985		1986		1985		1986	
			1985	1986	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	MAY	JUN
PETROLEUM PRODUCTS	29	34.7	110.5	110.6	110.3	109.6	113.3	118.7	-0.2	-0.7	3.4	4.8	7.3	119.0	122.6	
RUBBER & PLASTICS PRODUCTS	30	23.1	126.6	125.4	127.0	128.8	128.5	126.6	1.3	1.5	-0.3	-1.5	.9	129.2	128.3	
Tires	301	5.4	77.8	78.2	77.2	76.6	71.1	66.6	-1.3	-0.7	-7.2	-6.3	-14.8	68.6	67.6	
Rubber products, nec	306	2.2	94.9	94.6	94.2	95.9	96.6	93.2	-0.5	1.9	.6	-3.5	-1.5	97.9	95.8	
Plastics products, nec	307	14.2	164.2	161.3	164.9	169.2	170.4	169.8	2.3	2.6	-7	-0.3	5.3	171.7	171.5	
LEATHER AND PRODUCTS	31	1.4	88.4	89.3	89.1	87.6	87.1	84.1	-0.2	-1.7	-0.6	-3.4	-5.9	84.7	82.3	
Shoes	314	.7	79.4	79.8	79.4	77.7	82.1	77.6	-0.5	-2.2	5.7	-5.5	-2.7	79.1	74.6	
CLAY, GLASS, AND STONE	32	31.4	104.5	104.1	104.6	105.1	106.3	105.6	.4	.5	1.1	-0.7	1.4	105.7	105.6	
Flat glass	321	1.3	101.0	95.9	98.3	107.2	108.1	106.9	2.6	9.0	.8	-1.1	11.5	108.8	106.1	
Pressed and blown glass	322	6.8	102.4	101.2	102.5	103.7	104.0	105.5	1.3	1.1	.2	-1.5	4.2	107.2	105.3	
Cement	324	10.2	98.2	98.9	98.8	97.1	100.4	96.9	-0.1	-1.7	3.4	-3.5	-2.1	95.9	95.6	
Structural clay products	325	1.5	100.0	101.1	100.8	98.9	102.3	100.7	-0.3	-1.9	3.4	-1.5	-0.4	104.7	97.4	
Concrete products	327	3.6	109.4	111.9	110.2	112.2	111.8	113.2	-1.5	1.8	-0.4	1.3	1.2	113.3	113.4	
PRIMARY METALS	33	171.3	80.2	77.9	79.1	79.8	79.4	72.6	1.5	.9	-0.5	-8.6	-6.9	72.5	70.1	
Basic steel and mill prod.	331	65.7	74.7	69.8	75.3	77.1	75.3	69.8	7.9	2.4	-2.4	-7.4	-0.1	68.9	71.3	
Iron and steel foundries	332	12.0	78.6	80.4	76.6	77.1	71.2	69.7	-4.8	.7	-7.7	-2.0	-13.3	69.8	69.6	
Primary nonferrous metals	333	78.1	89.2	81.3	95.5	86.7	84.3	84.6	17.4	-9.1	-2.8	-3.1	4.1	82.8	82.5	
Aluminum	3334	70.3	78.5	78.9	73.3	76.4	66.2	71	-7.1	4.2	6.0	-18.3	-16.2	64.2	57.6	
Nonferrous foundries	336	2.1	115.4	116.2	115.8	110.9	114.5	115.0	-2.1	-4.2	3.2	-5.1	-2.7	115.0	113.9	
FABRICATED METAL PRODUCTS	34	26.4	114.4	115.0	114.4	114.8	115.1	115.7	-0.6	.4	.3	-5.1	.6	116.0	115.4	
Metal cans	341	2.2	112.3	111.3	113.8	116.1	115.6	121.6	2.2	2.1	-0.5	5.3	9.2	119.0	121.5	
Hardware	342	2.3	102.7	103.8	100.8	102.1	100.6	103.4	-2.9	1.2	-1.5	2.7	-0.5	102.2	104.9	
Structural metal products	344	.8	112.2	114.1	115.2	110.6	107.7	110.8	-9	-4.0	-2.7	2.9	-2.9	111.3	112.5	
Fasteners	345	1.6	102.7	105.7	99.1	100.8	103.2	103.1	-6.2	1.7	2.5	-0.2	-2.5	102.3	99.8	
Metal stampings	346	6.2	113.2	113.7	109.5	114.3	118.3	110.5	-3.7	4.4	3.5	-6.6	-2.8	108.5	106.8	
NONELECTRICAL MACHINERY	35	28.6	115.3	115.1	115.7	115.8	115.4	113.4	.5	.1	-0.4	-1.7	-1.5	114.5	111.8	
Engines and turbines	351	2.4	70.2	70.7	69.2	64.5	63.7	62.6	-2.2	-6.7	-1.3	-1.8	-11.5	60.9	61.7	
Fair equipment	352	2.1	57.6	60.2	57.4	55.1	50.8	49.9	-4.6	-4.0	-7.9	-1.7	-17.1	49.0	48.3	
Construction equipment	353	5.1	86.4	85.5	86.2	87.0	82.4	78.4	.8	.9	-5.3	-4.8	-8.3	80.0	80.1	
Metalworking machinery	354	3.8	110.6	109.3	111.8	111.1	114.0	113.6	2.2	1.1	.9	-0.4	3.9	114.4	114.2	
Special industry machinery	355	2.0	101.2	99.9	103.0	100.3	101.0	99.8	3.1	-2.6	.7	-1.2	-0.1	102.9	97.2	
General industrial mach.	356	4.6	109.5	109.8	111.4	108.8	107.5	107.9	1.5	-2.4	-1.2	-4.1	-1.7	109.7	104.2	
Office and computing mach.	357	2.8	205.0	208.0	208.6	203.5	207.3	195.7	.3	-2.4	1.9	-5.6	-5.9	196.4	191.4	
Service industry machinery	358	2.8	95.3	95.5	95.2	94.5	94.7	97.1	-0.4	-0.7	.3	3.1	2.3	99.4	96.3	
ELECTRICAL MACHINERY	36	25.0	123.8	124.7	123.2	123.5	123.8	126.6	-1.2	.2	.2	2.3	1.6	128.3	124.9	
Elect. distribution equip.	361	1.5	100.1	98.4	101.9	103.8	98.1	97.8	3.5	1.8	-5.5	-0.3	-0.7	98.3	98.0	
Elect. indust. apparatus	362	4.3	80.6	80.1	80.7	76.1	77.7	78.1	.8	-5.7	2.0	.6	-2.5	79.4	77.3	
Household appliances	363	2.7	93.8	94.8	94.3	93.1	88.5	93.8	-0.5	-1.2	-5.0	6.1	-1.0	95.8	92.8	
Lighting and wiring prod.	364	2.3	100.2	99.7	99.3	100.8	100.7	99.3	-0.4	1.5	-0.2	-1.4	-0.4	96.3	100.4	
Radio and TV sets	365	.9	115.7	115.8	114.3	115.5	123.1	117.9	-1.3	1.1	.6	-4.3	1.8	117.9	117.6	
Communication equipment	366	4.6	165.4	169.1	161.4	168.0	168.3	168.3	-4.5	4.1	.2	-0.1	-0.4	171.6	163.5	
Electronic components	367	6.0	168.4	166.3	165.3	171.0	175.7	179.3	-1.8	3.4	2.7	2.0	6.5	184.0	172.7	
TRANSPORTATION EQUIPMENT	37	31.4	110.6	109.9	110.3	111.8	115.0	111.3	.3	1.4	2.9	-3.3	1.2	111.4	108.9	
Motor vehicles and parts	371	19.3	98.3	97.9	96.5	99.4	103.9	98.4	-1.5	3.0	4.5	-5.3	.5	99.2	95.0	
Aircraft and parts	372	6.5	137.7	135.3	141.3	140.6	143.4	146.9	4.3	-0.5	2.0	2.4	8.4	148.3	141.8	
Ships and boats	373	2.1	118.9	121.8	115.0	116.2	113.0	107.0	-5.6	1.1	-2.8	-5.3	-12.1	101.1	99.7	
INSTRUMENTS	38	5.5	141.9	142.3	140.8	147.4	148.9	149.7	-1.1	4.7	1.0	.5	5.2	150.5	148.9	
Copiers and related equip.	386	1.4	123.9	122.6	121.8	129.7	136.3	133.8	-0.7	6.5	5.1	-1.8	9.1	133.1	138.8	
MISCELLANEOUS MANUFACTURES	39	4.1	100.1	101.3	99.8	99.6	102.1	103.0	-1.4	-0.2	2.4	.9	1.6	106.1	101.1	
SUPPLEMENTARY GROUPINGS																
TOTAL, LESS NUCLEAR NONDEFENSE		740.7	104.1	103.5	104.2	104.0	104.2	102.2	.6	-0.2	.2	-2.0	-1.3	101.8	102.2	
UTILITY SALES TO INDUSTRY		715.7	101.2	101.8	101.0	100.4	100.2	98.2	-0.8	-0.6	-0.2	-2.0	-3.5	98.2	98.0	
INDUSTRIAL GENERATION		70.1	83.3	83.1	81.4	84.2	86.6	83.7	-2.1	3.5	2.8	-3.3	.8	79.7	85.5	

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	1977 (bil. KWH)	Indexes						Percentage change from previous quarter						Indexes		
			1985			1986			1985			1986			1 year ago		
			1985 Ave.	Q2	Q3	Q4	Q1	Q2	1985 Q3	Q4	Q1	Q2	1985 Q2	1986 Q2	MAY	JUN	
PETROLEUM PRODUCTS	29	34.7	110.5	108.3	115.4	109.8	110.1	116.4	6.6	-4.9	.3	5.7	7.5	114.7	126.0		
RUBBER & PLASTICS PRODUCTS	301	23.1	126.6	126.6	128.6	127.8	125.9	128.2	1.3	-0.6	-1.4	1.8	1.0	129.2	131.8		
Tires	3011	5.6	77.8	79.3	78.7	76.3	68.8	67.6	-0.8	-3.0	-9.9	-1.6	-1.4	69.1	70.3		
Rubber products, nec	3061	2.7	94.9	95.7	94.3	94.9	96.2	94.4	-1.4	-6	1.4	-1.9	-1.4	98.3	98.9		
Plastics products, nec	3071	14.2	164.2	163.7	167.4	167.1	167.0	172.4	2.3	-0.2	-0.1	3.2	5.3	172.3	176.1		
LEATHER AND PRODUCTS	311	1.4	88.4	89.0	91.6	86.0	86.6	83.7	2.9	-6.1	.7	-3.4	-5.9	82.2	85.5		
Shoes	3141	.7	79.4	78.6	83.2	75.2	82.0	76.5	5.9	-9.6	9.0	-6.8	-2.7	75.0	78.2		
CLAY, GLASS, AND STONE	321	31.4	104.5	105.4	108.6	106.4	99.4	106.9	3.0	-2.0	-6.7	7.6	1.5	106.3	109.0		
Flat glass	3211	1.3	101.0	96.2	101.7	105.8	104.9	107.2	5.7	4.1	-0.8	2.2	11.5	108.1	108.4		
Pressed and blown glass	3221	6.8	102.4	101.5	105.6	102.7	101.3	105.8	4.0	-2.7	-1.4	4.4	4.2	104.9	108.0		
Cement	3241	10.2	98.2	101.6	106.7	101.9	84.4	99.4	5.0	-4.4	-17.2	17.8	-2.1	100.0	100.9		
Structural clay products	3251	1.5	100.0	101.2	101.9	100.8	98.8	100.7	.7	-1.1	-2.0	2.0	-0.4	100.7	100.8		
Concrete products	3271	3.6	109.4	112.3	112.8	112.2	108.6	113.6	.4	-0.5	-3.2	4.6	1.2	113.3	114.2		
PRIMARY METALS	331	171.3	80.2	80.6	78.4	77.7	79.3	75.1	-2.7	-1.0	2.1	-5.4	-6.9	76.4	71.5		
Basic steel and mill prod.	3311	65.7	74.7	74.8	73.2	73.1	75.7	74.8	-2.2	-0.1	3.6	-1.2	-0.1	76.2	73.7		
Iron and steel foundries	3321	12.0	78.6	83.1	75.4	75.1	71.4	72.1	-9.2	-0.5	-4.9	.9	-13.3	70.9	72.4		
Primary nonferrous metals	3331	78.1	89.2	82.7	93.0	88.8	82.9	86.0	12.4	-4.5	-6.7	3.8	4.0	85.7	84.6		
Aluminum	33341	70.3	78.5	79.5	75.7	75.2	78.6	66.6	-4.7	-0.7	4.2	-15.1	-16.3	66.5	57.9		
Nonferrous foundries	3361	2.1	115.4	118.3	113.9	110.7	116.2	115.1	-3.7	-2.7	4.9	-0.9	-2.7	116.5	114.7		
FABRICATED METAL PRODUCTS	341	26.4	114.4	114.8	116.4	113.2	114.8	115.4	1.4	-2.8	1.4	.6	.6	113.7	117.2		
Metal cans	3411	2.2	112.3	112.4	120.0	112.1	111.7	122.8	6.7	-6.6	-0.3	9.9	9.2	118.7	127.3		
Hardware	3421	2.3	102.7	103.3	102.6	101.0	100.2	102.9	0.7	-1.6	-0.8	2.7	-0.4	100.6	107.1		
Structural metal products	3441	.8	112.2	111.9	113.8	110.8	110.8	108.7	1.6	-2.6	.1	-1.9	-2.9	106.2	110.5		
Fasteners	3451	1.6	102.7	105.0	99.9	99.6	103.7	102.4	-4.9	-0.2	4.1	-1.3	-2.4	99.7	101.2		
Metal stampings	3461	6.2	113.2	115.0	111.2	112.5	116.7	111.8	-3.3	1.1	3.7	-4.2	-2.8	109.2	109.3		
NONELECTRICAL MACHINERY	351	28.6	115.3	114.5	120.7	113.7	113.0	112.8	5.4	-5.8	-0.6	-0.2	-1.5	112.3	115.0		
Engines and turbines	3511	2.4	70.2	69.5	70.8	64.6	63.1	61.5	1.9	-8.6	-2.4	-2.6	-11.5	59.3	62.3		
Farm equipment	3521	2.1	57.6	60.0	55.8	52.1	54.4	49.8	-7.1	-6.6	4.4	-8.5	-17.0	49.6	50.0		
Construction equipment	3531	5.1	86.4	84.7	89.3	86.1	81.0	77.7	5.4	-3.5	-6.0	-4.1	-8.3	78.2	81.3		
Metalworking machinery	3541	3.8	110.6	108.9	114.5	110.1	114.4	113.1	5.2	-3.8	3.8	-1.1	3.9	111.5	115.2		
Special industry machinery	3551	2.0	101.2	100.1	104.2	98.8	101.0	100.0	4.1	-5.2	2.2	-1.0	-0.1	101.1	98.9		
General industrial mach.	3561	4.6	109.5	110.7	113.9	106.3	106.6	108.8	2.8	-6.6	.3	2.0	-1.7	108.9	108.3		
Office and computing mach.	3571	2.8	205.0	201.9	224.5	202.7	198.0	190.0	11.2	-9.7	-2.3	-4.0	-5.9	187.6	196.0		
Service industry machinery	3581	2.8	95.3	96.3	99.5	91.3	92.6	98.5	3.4	-8.3	1.4	6.4	2.3	98.3	101.4		
ELECTRICAL MACHINERY	361	25.0	123.8	124.1	128.9	121.6	120.2	126.0	3.9	-5.7	-1.2	4.9	1.5	126.0	128.5		
Elect. distribution equip.	3611	1.5	100.1	98.8	105.3	100.9	96.8	98.1	6.6	-4.2	-4.0	1.3	-0.7	96.8	101.8		
Elect. indust. apparatus	3621	4.3	80.6	82.3	80.7	74.2	77.2	80.2	-1.9	-8.0	4.1	3.9	-2.5	81.8	79.6		
Household appliances	3631	2.7	93.8	96.3	94.1	90.0	89.8	95.4	-2.3	-4.4	-0.3	6.2	-1.0	95.4	97.9		
Lighting and wiring prod.	3641	2.3	100.2	100.1	100.0	99.6	100.5	99.7	-0.1	-0.3	.8	-0.8	-0.4	95.2	101.5		
Radio and TV sets	3651	.9	115.7	113.4	124.5	113.7	116.3	115.5	9.8	-8.7	2.3	-0.7	1.8	112.8	121.2		
Communication equipment	3661	4.6	165.4	165.7	177.6	164.3	158.0	164.9	7.2	-7.5	-3.8	4.4	-0.5	164.3	169.7		
Electronic components	3671	6.0	168.4	167.6	176.5	168.4	167.3	178.3	5.3	-4.6	-0.7	6.6	6.4	180.2	179.4		
TRANSPORTATION EQUIPMENT	371	31.4	110.6	111.4	115.2	109.3	110.5	112.8	3.4	-5.1	1.0	2.1	1.2	111.1	115.2		
Motor vehicles and parts	3711	19.3	98.3	100.3	101.0	96.5	98.8	100.8	.7	-4.5	2.4	2.0	.5	99.7	102.9		
Aircraft and parts	3721	6.5	137.7	134.2	147.8	141.0	137.5	145.4	10.1	-4.6	-2.5	5.8	8.4	145.4	146.1		
Ships and boats	3731	2.1	118.9	118.0	115.9	112.9	118.7	103.9	-1.8	-2.5	5.1	-12.5	-12.0	94.3	97.7		
INSTRUMENTS	381	5.5	141.9	140.6	150.8	143.9	143.3	147.9	7.3	-4.6	-0.4	3.2	5.2	145.6	155.4		
Copiers and related equip.	3861	1.4	123.9	122.6	126.6	127.7	132.8	133.8	3.3	-8	4.0	.8	9.1	130.8	143.9		
MISCELLANEOUS MANUFACTURES	391	4.1	100.1	99.6	104.6	98.2	100.2	101.2	5.0	-6.1	2.0	1.0	1.6	102.1	102.5		
SUPPLEMENTARY GROUPINGS																	
TOTAL, LESS NUCLEAR NONDEFENSE		740.7	104.1	104.7	106.1	102.6	102.4	103.3	1.3	-3.3	-0.2	.9	-1.3	102.6	104.8		
UTILITY SALES TO INDUSTRY		715.7	101.2	103.2	102.8	99.0	98.4	99.6	-0.4	-3.7	-0.6	1.2	-3.5	99.1	100.8		
INDUSTRIAL GENERATION		70.1	83.3	82.7	82.3	82.4	87.8	83.3	-0.5	.1	6.5	-5.1	.8	80.5	85.7		

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.

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.

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 utilities and self-generators 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 recent major developments.

Seasonal adjustment. Individual series are seasonally adjusted by the X-11 Method II seasonal adjustment procedure that was developed by the Bureau of the Census and modified by the intervention analysis technique. The seasonal factors currently being used for individual series were derived from data through 1983; those for major aggregates were based on data through 1984. The individual series and the 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 aggregation 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 the 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 on the 1977 comparison-based year. The gross-value-weighted product series are expressed in terms of 1972 dollars.

Formula. The symbolic expression for the total index (I_t) 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, and t represents the t th period.

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 December 1982.)

Rounding. Changes shown for index components may not aggregate to changes for totals because of independent rounding.

Literature. *The Manual of the Industrial Production Index*, 1985, contains a more detailed description, together with a history of the index, a glossary of terms, and a bibliography. The *Manual* is scheduled to be published in 1986. Selected data on industrial production are also published monthly in the Financial and Business Statistics section of the *Federal Reserve Bulletin*.