

FEDERAL RESERVE



Industrial Production

G.12.3

For release at 9:30 a.m. (EST)
January 15, 1981

Industrial production increased an estimated 1.0 percent in December, reflecting sizable output gains in the major product and material groupings of the index with the exception of motor vehicles. The December rise followed upward revised increases of 1.6, 1.9 and 1.6 percent in the preceding three months.

The index of industrial production for December, at 150.7 percent of the 1967 average, was 7.3 percent above its July 1980 low but still 1.2 percent below a year earlier. A preliminary estimate of the index for 1980 shows industrial production to have been 3.5 percent below output in 1979.

Products. Production of consumer nondurable goods rose strongly in December, due in part to substantial gains in the output of residential utilities and consumer fuels. However, output of consumer durable goods declined 1.3 percent, as a sharp reduction in auto production was only partially offset by a moderate increase in home goods output. Autos were assembled in December at an annual rate of 6.3 million units, about 8 percent below the rate in November. Output of business equipment increased 0.9 percent, about the same as in November and October. Production of construction supplies continued to advance strongly, although more slowly than in preceding months.

Materials. Production of materials increased 1.6 percent in December, reflecting widespread gains in the output of durable, nondurable, and energy materials. The sharp rise in durable materials mainly reflected increases in equipment parts and basic metals output, the latter boosted by a continued production rebound in the steel industry and a post-strike surge in copper. Output of nondurable materials expanded 1.0 percent further, with large increases in the textile, paper, and chemical areas. A large rise in energy materials production, 0.9 percent, was due mainly to increased coal production and electric power generation.

INDUSTRIAL PRODUCTION: SUMMARY (Seasonally Adjusted)

Indexes, 1967=100	1980		Percent changes						
	Nov.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Dec.
	(p)	(e)	From preceding month						Dec. 79
Total	149.2	150.7	-.8	1.0	1.6	1.9	1.6	1.0	-1.2
Products, total	148.7	149.6	.2	.7	1.0	1.2	1.1	.6	-.1
Final Products	147.2	148.0	.1	.3	.8	1.3	1.0	.5	.5
Consumer Goods	148.1	148.4	-.1	.5	1.1	1.6	1.0	.2	-.1
Durable	142.4	140.5	.1	.2	3.2	5.2	2.0	-1.3	-4.2
Nondurable	150.3	151.6	-.1	.6	.4	.3	.6	.9	1.5
Business Equipment	173.4	174.9	.2	.1	.1	.8	.9	.9	.5
Intermediate Products	154.0	155.4	.7	2.1	2.0	1.2	1.0	.9	-2.6
Construction Supplies	143.1	144.4	.1	3.5	3.2	2.3	1.9	.9	-7.3
Materials	150.0	152.4	-2.5	1.5	2.7	2.8	2.5	1.6	-2.7

p--preliminary e--estimate

FEDERAL RESERVE

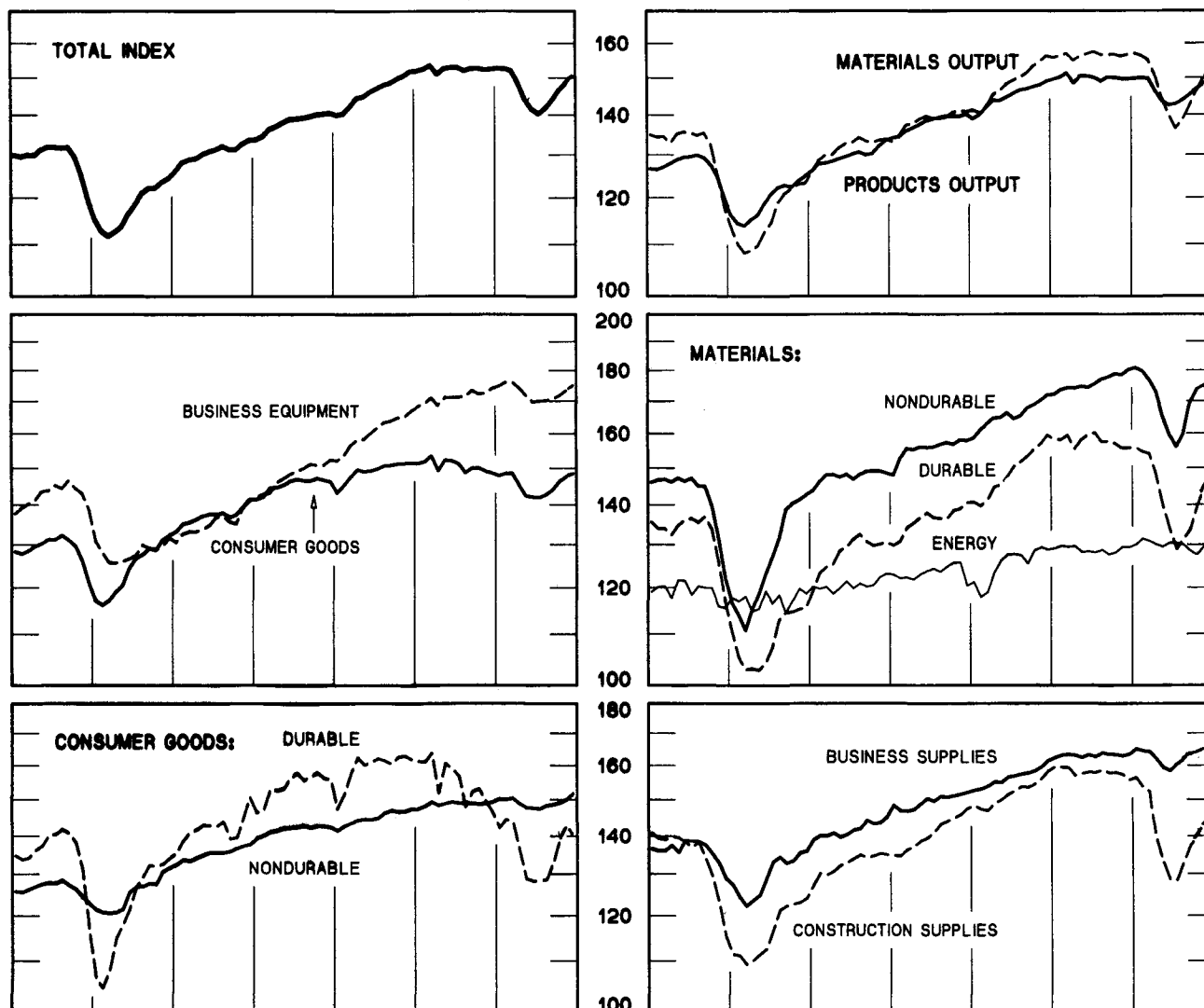


Industrial Production

INDUSTRIAL PRODUCTION

DECEMBER DATA

SEASONALLY ADJUSTED, RATIO SCALE, 1967=100



1969-70=100

ANNUAL RATE, MILLIONS OF UNITS

1967=100

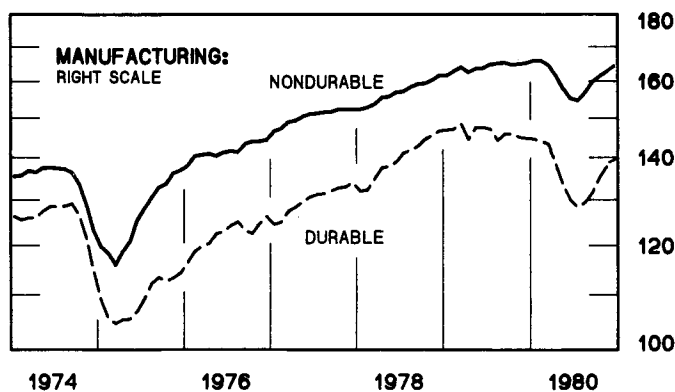
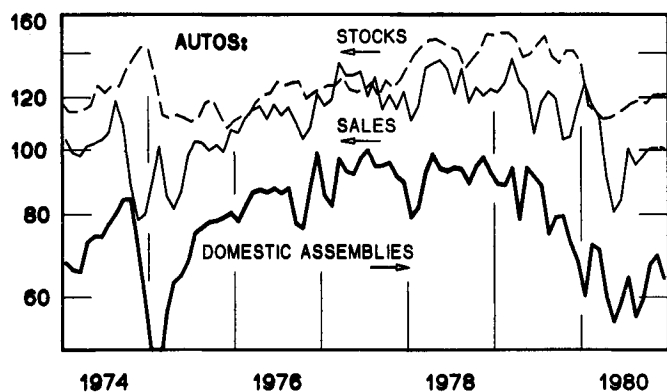


Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPINGS
 Seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967	1979	1979	1980											
	PRO- DUCTION	FOR- AVERAGE	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	152.5	152.5	152.7	152.6	152.1	148.3	144.0	141.5	140.4	141.8	144.1	146.8	149.2	150.7
PRODUCTS, TOTAL	60.71	150.0	149.8	149.9	150.1	150.0	146.6	143.7	142.5	142.8	143.8	145.3	147.1	148.7	149.6
FIND PRODUCTS	47.82	147.2	147.2	147.0	147.7	147.7	145.4	143.1	142.3	142.4	142.8	143.9	145.7	147.2	148.0
CONSUMER GOODS	27.68	150.8	148.6	147.9	148.4	148.6	145.3	142.4	142.1	142.0	142.7	144.3	146.6	148.1	148.4
EQUIPMENT	20.14	142.2	145.2	145.8	146.6	146.6	145.6	144.0	142.6	142.9	142.9	143.2	144.5	146.1	147.4
INTERMEDIATE PRODUCTS	12.89	160.5	159.6	160.8	159.2	158.3	150.8	146.2	143.5	144.5	147.6	150.6	152.4	154.0	155.4
MATERIALS	39.29	156.4	156.6	157.0	156.5	155.3	151.0	144.3	140.0	136.5	138.6	142.4	146.4	150.0	152.4
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	155.8	146.7	142.3	144.5	144.1	136.3	128.8	128.2	128.3	128.6	132.7	139.6	142.4	140.5
AUTOMOTIVE PRODUCTS	2.83	167.7	141.8	131.3	142.1	141.0	126.3	118.5	121.6	129.2	121.5	130.6	141.8	145.4	139.7
AUTOS & UTILITY VEHICLES	2.03	154.3	121.4	108.7	124.6	122.0	102.3	92.6	97.1	106.4	94.1	105.5	120.2	124.2	115.6
AUTOS, TOTAL	1.90	136.7	110.2	98.0	116.8	114.9	97.1	89.4	95.7	105.2	91.3	98.0	110.7	114.3	105.3
AUTO PARTS & ALLIED GOODS	.80	201.5	193.6	188.5	186.7	189.1	187.2	184.0	183.7	186.9	191.1	194.2	196.8	199.3	197.2
HOME GOODS	5.06	149.2	149.4	148.5	145.8	145.8	142.0	134.6	132.0	127.7	132.6	134.0	138.3	140.8	141.5
APPLIANCES, AIR COND & TV	1.40	127.4	133.1	128.9	122.3	122.1	114.8	102.8	105.6	102.3	114.2	116.3	123.5	126.9	126.1
APPLIANCES AND TV	1.33	129.3	135.5	130.0	124.4	125.0	117.5	106.0	108.5	103.4	114.2	117.6	125.6	129.5	
CARPETING AND FURNITURE	1.07	173.0	170.8	170.9	168.2	169.1	165.8	154.2	146.7	136.1	141.1	146.1	150.2	154.1	
MISC. HOME GOODS	2.59	151.1	149.4	149.8	149.4	149.0	146.8	143.8	140.2	138.1	139.1	138.6	141.5	142.8	143.8
NONDURABLE CONSUMER GOODS	19.79	148.8	149.3	150.1	150.0	150.3	148.8	147.7	147.6	147.4	148.3	148.9	149.4	150.3	151.6
CLOTHING	4.29	131.9	131.3	130.2	130.7	131.8	128.7	127.9	126.7	122.5	123.6	122.1	126.1		
CONSUMER STAPLES	15.50	153.5	154.3	155.6	155.4	155.5	154.4	153.2	153.4	154.3	155.1	156.3	155.9	156.8	157.3
CONSUMER FOODS & TOBACCO	8.33	145.0	145.8	146.9	146.5	147.3	146.2	146.1	146.2	146.4	146.0	147.0	147.5	147.8	
NONFOOD STAPLES	7.17	163.4	164.3	165.8	165.6	165.0	164.0	161.5	161.7	163.6	165.7	167.1	165.6	167.1	169.2
CONSUMER CHEMICAL PROD.	2.63	205.5	207.8	210.5	211.8	208.9	206.9	203.0	202.6	204.3	209.3	213.0	210.2	210.9	
CONSUMER PAPER PRODUCTS	1.92	120.8	121.0	124.1	122.5	121.6	120.4	120.2	120.6	121.5	122.0	122.3	124.8	126.3	
CONSUMER ENERGY PROD.	2.62	152.2	152.4	151.5	150.9	152.7	152.8	150.1	150.9	153.5	153.9	154.0	150.9	153.1	
RESIDENTIAL UTILITIES	1.45	163.8	165.0	161.9	162.5	169.6	172.5	169.8	170.1	176.5	178.6	178.3	174.9		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	171.3	174.1	174.9	176.0	176.1	174.2	171.9	169.8	170.1	170.3	170.5	171.8	173.4	174.9
INDUSTRIAL EQUIPMENT	6.77	152.2	153.2	157.2	159.2	159.3	159.3	157.8	155.2	154.8	154.5	154.2	154.3	155.8	157.3
BUILDING AND MINING EQUIP.	1.44	206.3	205.0	222.1	231.6	235.6	239.5	242.2	241.0	244.4	243.6	243.4	244.3	249.3	252.9
MANUFACTURING EQUIPMENT	3.85	130.3	132.1	132.6	133.1	133.1	131.9	129.5	126.1	126.0	124.4	123.9	123.6	124.1	125.1
POWER EQUIPMENT	1.47	156.3	157.8	157.9	156.4	153.2	152.3	149.1	147.1	142.0	145.9	146.1	146.1	146.9	148.6
COM'L, TRANSIT, FARM EQ	5.86	193.4	198.1	195.2	195.5	195.5	191.5	188.2	186.7	187.8	188.4	189.4	192.0	193.9	195.2
COMMERCIAL EQUIPMENT	3.26	228.1	237.2	238.2	238.7	240.4	235.6	232.0	228.8	229.0	233.6	237.2	240.5	242.0	243.7
TRANSIT EQUIPMENT	1.93	151.6	151.9	142.8	145.4	142.5	143.0	136.3	138.0	140.9	138.4	133.8	135.0	137.4	137.9
FARM EQUIPMENT	.67	144.9	141.0	137.1	129.9	129.7	116.4	124.6	121.6	122.5	112.7	116.8	120.2	122.4	
DEFENSE AND SPACE EQUIPMENT	7.51	93.4	96.7	97.0	97.2	97.1	97.6	97.2	96.8	97.2	96.9	97.4	98.5	100.2	101.3
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	158.0	155.7	156.4	153.8	152.3	139.4	133.0	128.5	128.6	133.1	137.4	140.5	143.1	144.4
BUSINESS SUPPLIES	6.47	163.1	163.5	165.1	164.5	164.3	162.0	159.4	158.4	160.4	161.9	163.6	164.2	164.8	
COMMERCIAL ENERGY PRODUCTS	1.14	172.0	173.8	172.4	171.7	174.1	174.8	172.0	168.7	172.1	173.7	175.2	174.5	175.0	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	157.8	155.8	156.0	154.8	154.2	148.2	139.8	133.8	129.0	131.3	134.2	140.2	145.9	149.1
DURABLE CONSUMER PARTS	4.58	137.1	125.1	120.8	119.9	120.3	110.6	100.1	96.0	93.9	98.1	104.2	110.8	115.5	117.2
EQUIPMENT PARTS	5.44	189.9	196.7	199.8	198.9	199.2	195.8	190.8	182.5	177.6	176.3	176.0	178.5	183.3	186.5
DURABLE MATERIALS NEC	10.34	150.1	147.8	148.5	147.0	145.5	139.8	130.5	125.0	118.9	122.4	125.4	133.0	139.6	143.4
BASIC METAL MATERIALS	5.57	124.1	118.1	118.8	116.4	116.6	109.3	100.0	95.9	84.7	89.4	91.7	102.0	113.0	
NONDURABLE GOODS MATERIALS	10.47	175.9	180.2	181.0	179.9	177.0	173.2	165.2	159.6	156.2	159.8	169.7	173.8	174.9	176.7
TEXTILE, PAPER, & CHEM MAT	7.62	183.7	189.2	189.3	188.1	185.2	180.7	171.5	163.4	158.5	163.2	175.1	180.6	182.0	184.3
TEXTILE MATERIALS	1.85	121.0	123.8	120.1	121.1	120.7	117.7	117.6	114.0	114.4	111.0	114.7	114.5	114.3	
PAPER MATERIALS	1.62	143.5	150.1	148.2	146.0	144.2	141.2	141.7	143.4	138.4	142.0	148.2	148.1	148.8	
CHEMICAL MATERIALS	4.15	227.4	233.6	236.3	234.5	230.1	224.3	207.3	193.3	186.1	194.9	212.6	222.9	225.2	
CONTAINERS, NONDURABLE	1.70	167.4	168.2	172.7	170.6	167.1	166.8	155.8	157.7	159.0	158.8	167.2	168.6	168.9	
NONDURABLE MATERIALS NEC	1.14	136.8	138.8	137.5	138.7	137.4	133.0	136.4	136.8	136.6	137.9	137.2	135.7	136.5	
ENERGY MATERIALS	8.48	128.9	129.4	130.0	131.5	130.9	130.1	129.6	130.4	130.4	130.0	128.4	127.4	129.4	130.5
PRIMARY ENERGY	4.65	113.5	113.7	114.4	113.7	115.6	116.4	116.2	117.3	115.6	114.0	114.3	113.8	114.5	
CONVERTED FUEL MATERIALS	3.82	147.7	148.5	149.0	153.1	149.6	146.9	145.8	146.4	148.4	149.4	145.4	143.9	147.6	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	141.3	141.1	140.1	138.9	139.4	135.9	131.5	129.5	125.3	128.5	128.5	132.7	134.5	135.8
ENERGY, TOTAL	12.23	137.9	138.4	138.6	139.4	139.6	139.1	137.9	138.4	139.2	139.2	138.2	136.8	138.7	140.5
PRODUCTS	3.76	158.2	158.9	157.8	157.2	159.1	159.5	156.7	156.3	159.1	159.9	160.5	158.0	159.7	
MATERIALS	8.48	128.9	129.4	130.0	131.5	130.9	130.1	129.6	130.4	130.4	130.0	128.4	127.4	129.4	130.5

DATA FOR THE CURRENT MONTH ARE ESTIMATED. DATA FOR THE PRECEDING MONTH ARE PRELIMINARY.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPINGS
 Not seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967 PRO- POR- TION	1979 AVG. DEC.	1979 DEC.	1980 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	152.5	147.7	148.0	152.7	153.2	148.1	143.5	145.0	137.2	142.9	148.6	150.1	149.3	146.1
PRODUCTS, TCTAL	60.71	150.0	143.7	144.1	149.3	149.9	145.0	142.2	146.2	140.8	146.3	152.5	151.7	148.8	143.7
FINAL PRODUCTS	47.82	147.2	141.2	142.2	147.7	148.0	143.7	141.2	145.6	139.7	144.7	151.2	150.3	147.2	142.2
CONSUMER GOODS	27.68	150.8	139.6	142.0	148.0	149.0	143.6	139.9	145.9	138.3	146.5	154.2	152.7	147.3	139.8
EQUIPMENT	20.14	142.2	143.3	142.5	147.3	146.7	143.9	143.0	145.2	141.6	142.1	147.1	146.9	147.1	145.5
INTERMEDIATE PRODUCTS	12.89	160.5	153.3	151.2	155.5	156.8	149.7	145.9	148.4	144.8	152.2	157.0	157.3	154.4	149.1
MATERIALS	39.29	156.4	153.9	153.9	157.9	158.3	152.9	145.6	143.0	131.7	137.8	142.7	147.6	150.0	149.7
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	155.8	137.1	137.0	147.9	149.1	140.0	130.4	132.9	115.4	121.4	139.0	148.4	144.1	131.2
AUTOMOTIVE PRODUCTS	2.83	167.7	127.3	129.5	149.3	151.5	135.9	123.8	128.9	106.4	101.5	136.3	154.3	149.3	125.0
AUTOS & UTILITY VEHICLES	2.03	154.3	101.5	107.6	133.3	135.8	115.5	103.3	108.4	79.0	65.1	110.2	134.5	128.8	96.9
AUTOS, TOTAL	1.90	136.7	92.2	97.5	125.1	128.4	110.0	99.3	106.9	76.3	61.6	103.4	124.4	119.3	88.6
AUTO PARTS & ALLIED GOODS	.80	201.5	192.6	185.1	189.8	191.3	187.8	175.8	181.0	175.8	194.0	202.4	204.5	201.3	196.2
HOME GOODS	5.06	149.2	142.7	141.2	147.2	147.7	142.3	134.2	135.1	120.5	132.5	140.5	145.1	141.2	134.8
APPLIANCES, AIR COND & TV	1.40	127.4	115.5	123.1	130.1	130.4	122.6	106.1	110.5	90.8	105.7	121.5	134.0	122.6	105.5
APPLIANCES AND TV	1.33	129.3	118.0	123.9	130.8	131.5	123.7	108.2	113.1	92.4	109.3	125.3	138.2	126.3	
CARPETING AND FURNITURE	1.07	173.0	168.1	164.1	171.6	173.5	163.7	151.9	146.7	122.0	142.1	153.2	157.6	157.3	
MISC. HOME GOODS	2.59	151.1	146.9	141.5	146.4	146.4	144.1	142.1	143.7	135.9	143.1	145.6	146.0	144.7	142.0
NONDURABLE CONSUMER GOODS	19.79	148.8	140.6	144.1	148.0	148.9	145.0	143.6	151.1	147.5	156.6	160.3	154.4	148.6	143.1
CLOTHING	4.29	131.9	113.8	121.5	135.2	139.2	132.4	127.4	135.4	108.4	128.7	131.9	130.9		
CONSUMER STAPLES	15.50	153.5	148.0	150.3	151.6	151.6	148.5	148.1	155.5	158.3	164.3	168.1	160.9	155.5	151.7
CONSUMER FOODS & TOBACCO	8.33	145.0	138.1	140.0	141.9	144.4	142.2	143.0	149.3	145.3	153.2	159.1	155.6	148.3	
NONFOOD STAPLES	7.17	163.4	159.5	162.3	162.7	160.0	155.7	154.0	162.6	173.3	177.1	178.6	167.1	164.0	164.9
CONSUMER CHEMICAL PROD	2.63	205.5	196.0	195.7	199.6	199.9	199.3	200.0	211.3	217.7	219.6	230.8	218.8	212.1	
CONSUMER PAPER PRODUCTS	1.92	120.8	114.8	116.0	117.3	116.9	116.8	116.9	121.9	128.3	132.3	131.7	130.3	124.8	
CONSUMER ENERGY PROD	2.62	152.2	155.7	162.8	159.1	151.6	140.6	135.0	143.7	161.8	167.5	160.6	142.3	144.4	
RESIDENTIAL UTILITIES	1.45	163.8	167.5	182.3	179.3	171.7	154.5	143.8	155.9	189.1	202.0	188.1	160.1		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	171.3	170.2	169.7	177.0	176.0	171.9	170.1	173.4	168.6	169.4	176.9	176.0	174.9	171.1
INDUSTRIAL EQUIPMENT	6.77	152.2	151.8	153.3	160.2	159.1	157.0	155.0	156.6	152.6	153.1	159.8	157.9	158.3	156.4
BUILDING AND MINING EQUIP	1.44	206.3	207.7	217.5	232.8	232.6	234.0	235.8	240.2	239.7	240.7	253.0	251.2	257.1	255.9
MANUFACTURING EQUIPMENT	3.85	130.3	129.2	129.3	135.2	133.9	130.8	127.4	127.7	123.7	124.1	128.3	125.7	125.2	122.4
POWER EQUIPMENT	1.47	156.3	156.1	153.1	154.1	153.0	150.1	148.1	150.4	142.8	143.1	150.7	150.7	148.0	147.5
COM'L, TRANSIT, FARM EQ	5.86	193.4	191.4	188.6	196.4	195.6	189.0	187.6	192.7	187.0	188.3	196.7	196.9	194.1	188.2
COMMERCIAL EQUIPMENT	3.26	128.1	127.4	126.5	234.1	233.2	229.6	229.3	236.2	236.6	242.3	249.7	247.3	243.1	233.5
TRANSIT EQUIPMENT	1.93	151.6	150.2	143.5	153.0	151.6	144.0	138.7	141.8	129.9	127.6	132.5	137.4	138.1	135.2
FARM EQUIPMENT	.67	144.9	135.4	134.3	137.5	139.4	120.7	125.7	128.1	110.4	100.4	123.9	123.6	116.8	
DEFENSE AND SPACE EQUIPMENT	7.51	93.4	98.0	96.7	97.4	97.5	96.9	97.3	97.9	96.2	96.2	97.1	97.9	100.5	102.6
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	158.0	148.6	145.8	151.5	152.3	142.2	135.4	134.3	126.0	134.0	141.1	144.8	143.2	137.9
BUSINESS SUPPLIES	6.47	163.1	157.9	156.5	159.4	161.2	157.1	156.4	162.3	163.4	170.2	172.7	169.7	165.6	
COMMERCIAL ENERGY PRODUCTS	1.14	172.0	167.8	171.3	167.1	168.9	162.1	162.7	171.9	187.9	191.6	190.2	174.5	168.4	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	157.8	153.6	150.5	154.9	157.1	150.8	142.5	137.9	124.3	128.7	135.4	142.1	145.9	147.0
DURABLE CONSUMER PARTS	4.58	137.1	127.6	119.0	121.1	121.8	111.9	102.0	97.2	88.6	93.3	104.6	113.1	117.3	119.1
EQUIPMENT PARTS	5.44	189.9	200.6	197.6	198.7	199.6	195.6	190.6	185.1	172.4	173.7	177.7	180.7	185.1	190.2
DURABLE MATERIALS NEC	10.34	150.1	140.4	139.7	146.8	150.2	144.4	135.1	131.2	114.8	120.7	126.7	134.6	137.9	136.6
BASIC METAL MATERIALS	5.57	124.1	110.6	114.6	117.7	125.3	117.2	107.5	102.2	79.1	84.0	89.6	100.8	107.8	
NONDURABLE GOODS MATERIALS	10.47	175.9	172.9	177.1	181.9	180.9	176.9	166.9	163.0	148.5	159.7	169.3	177.0	176.6	169.7
TEXTILE, PAPER, & CHEM MAT	7.62	183.7	182.2	185.6	190.3	189.3	185.3	173.8	167.5	150.9	163.3	174.2	181.5	183.6	177.4
TEXTILE MATERIALS	1.85	121.0	115.8	120.3	126.0	125.7	121.6	122.4	119.1	94.8	112.3	114.4	117.9	114.5	
PAPER MATERIALS	1.62	143.5	136.4	149.2	150.4	152.0	146.4	145.2	147.4	130.2	142.9	142.9	150.2	148.7	
CHEMICAL MATERIALS	4.15	227.4	229.9	229.0	234.6	232.4	229.0	208.0	197.1	184.1	194.1	213.1	222.1	228.1	
CONTAINERS, NONDURABLE	1.70	167.4	148.0	164.1	173.4	173.0	170.0	158.6	163.5	154.2	164.4	170.1	176.6	165.0	
NONDURABLE MATERIALS NEC	1.14	136.8	147.4	139.9	139.1	136.2	130.7	133.0	131.9	123.7	129.0	135.4	147.8	147.6	
ENERGY MATERIALS	8.48	128.9	131.0	133.5	135.5	133.4	128.4	126.6	130.5	128.7	132.5	127.5	124.4	127.0	131.7
PRIMARY ENERGY	4.65	113.5	113.4	114.0	115.1	117.5	117.6	117.3	118.3	111.2	115.1	113.6	113.2	113.8	
CONVERTED FUEL MATERIALS	3.82	147.7	152.4	157.2	160.3	152.8	141.4	137.8	145.4	150.0	153.6	144.3	138.1	143.2	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	141.3	129.4	132.1	141.7	143.8	137.7	131.1	135.3	114.9	130.7	136.6	138.6	133.0	124.5
ENERGY, TOTAL	12.23	137.9	139.7	143.3	143.5	140.6	134.1	131.7	137.2	141.3	145.4	140.4	132.9	134.6	141.5
PRODUCTS	3.76	158.2	159.4	165.4	161.5	156.8	147.1	143.4	152.2	169.7	174.8	169.6	152.0	151.7	
MATERIALS	8.48	128.9	131.0	133.5	135.5	133.4	128.4	126.6	130.5	128.7	132.5	127.5	124.4	127.0	131.7

DATA FOR THE CURRENT MONTH ARE ESTIMATED. DATA FOR THE PRECEDING MONTH ARE PRELIMINARY.

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS
Seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967 PRO- POR- TON	1979 AVG.	1979 DEC.	1980											
					JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES		12.05	144.7	148.2	148.2	149.0	151.4	150.1	149.6	150.1	150.1	150.5	150.5	149.9	151.8	154.4
MINING		6.36	125.5	131.4	133.5	132.9	133.0	133.1	133.4	132.9	130.6	129.6	130.5	132.0	134.9	137.4
UTILITIES		5.69	166.0	166.9	164.8	167.1	172.0	169.1	167.7	169.3	171.8	173.8	172.7	169.9	170.7	173.4
MANUFACTURING		187.95	153.6	153.2	153.4	153.0	152.1	147.9	143.4	140.3	139.1	140.6	143.4	146.4	148.9	150.3
NONDURABLE		135.97	164.0	165.3	166.0	165.9	164.7	161.6	158.0	155.3	154.7	156.9	160.3	161.9	163.6	165.2
DURABLE		151.98	146.4	144.8	144.7	144.1	143.4	138.4	133.3	129.9	128.3	129.4	131.7	135.6	138.8	139.9
MINING																
METAL MINING	10	5.11	127.0	136.9	137.6	136.6	132.7	123.5	120.8	120.0	83.1	71.2	73.1	89.1	100.5	
COAL	11,12	6.91	135.6	143.4	141.0	136.0	137.2	143.4	145.0	150.0	149.8	154.9	148.9	145.7	151.6	159.7
OIL AND GAS EXTRACTION	13	4.40	121.7	127.2	129.9	130.4	131.8	132.5	133.9	133.2	134.3	133.6	134.7	135.4	137.1	137.9
STONE AND EARTH MINERALS	14	7.75	137.6	141.4	144.6	142.3	136.0	133.1	128.1	123.9	123.7	123.5	128.2	129.0	130.5	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	147.5	148.4	148.5	149.0	149.3	147.8	149.5	149.0	148.9	148.3	148.6	149.4	149.5	
TOBACCO PRODUCTS	21	6.71	117.8	116.6	118.7	120.0	122.2	121.9	116.2	113.9	119.6	117.4	119.1	123.1		
TEXTILE MILL PRODUCTS	22	2.68	145.0	148.0	143.4	144.0	142.0	139.9	137.1	133.6	132.5	132.6	133.0	134.1	135.8	
APPAREL PRODUCTS	23	3.31	134.4	131.1	131.5	133.8	136.1	131.3	128.6	127.2	121.5	123.8	126.7	128.1		
PAPER AND PRODUCTS	26	3.21	151.0	155.7	157.4	153.6	152.7	148.2	145.7	146.2	143.6	147.1	152.3	153.4	154.0	155.5
PRINTING AND PUBLISHING	27	4.72	136.9	137.8	138.9	139.9	139.2	136.5	135.5	135.4	138.6	140.3	140.3	141.5	143.2	145.1
CHEMICALS AND PRODUCTS	28	7.74	121.8	126.8	218.0	217.4	213.6	209.1	199.2	191.1	190.3	197.8	206.8	209.2	212.7	
PETROLEUM PRODUCTS	29	1.79	143.9	145.4	147.5	144.6	140.7	137.4	133.0	131.3	130.5	126.7	130.5	129.1	131.8	135.4
RUBBER & PLASTICS PRODUCTS	30	2.24	172.2	163.8	265.5	266.8	264.4	261.8	248.1	242.9	242.5	245.9	253.1	258.1	260.4	
LEATHER AND PRODUCTS	31	8.86	71.7	71.2	74.2	73.3	72.8	69.9	70.1	68.5	67.8	67.7	67.2	70.2	71.0	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	75.2	77.5	77.1	77.2	76.9	77.5	77.9	77.5	77.1	77.2	77.1	79.1	79.9	80.5
UMBER AND PRODUCTS	24	1.64	136.9	132.4	131.6	130.2	125.3	105.2	104.5	109.7	112.8	121.7	122.6	122.2	125.4	
FURNITURE AND FIXTURES	25	1.37	161.5	161.0	160.8	159.2	159.5	157.1	149.5	143.1	138.6	141.1	144.8	147.2	148.0	
CLAY, GLASS, STONE PROD	32	2.74	163.9	163.8	165.0	162.4	156.4	148.8	140.8	134.5	134.2	135.7	141.4	144.2	146.7	
PRIMARY METALS																
IRON AND STEEL	33,31,2	6.57	121.3	115.3	116.4	111.9	113.7	106.4	96.1	90.4	81.7	86.0	90.1	100.8	112.4	116.7
FABRICATED METAL PROD	34	5.93	148.5	146.2	145.0	145.7	145.5	141.4	133.2	126.1	123.8	125.8	129.0	132.8	134.3	135.7
NONELECTRICAL MACHINERY	35	9.15	163.7	163.0	167.1	167.0	166.5	163.2	162.1	158.3	158.5	158.8	159.1	160.5	161.7	162.1
ELECTRICAL MACHINERY	36	8.05	175.0	181.6	181.7	179.2	179.2	177.0	171.4	166.6	165.0	166.7	167.5	170.0	172.3	174.2
TRANSPORTATION EQUIP																
MOTOR VEHICLES & PTS	371	9.27	135.4	127.3	122.1	125.7	123.8	115.1	109.8	110.0	110.7	108.3	112.9	118.8	121.8	120.6
AEROSPACE & MISC	372-9	4.50	159.9	137.1	126.2	133.9	130.1	114.7	105.9	106.7	107.9	104.4	113.4	124.2	129.2	126.7
INSTRUMENTS	38	4.77	112.2	118.1	118.3	118.1	117.8	115.5	113.5	113.1	113.4	111.9	112.3	113.6	114.8	114.9
MISCELLANEOUS MFRS	39	2.11	174.9	175.0	175.9	174.8	173.5	173.8	171.0	169.2	167.5	167.6	167.4	169.6	170.9	172.6
UTILITIES																
ELECTRIC		1.51	153.7	153.7	153.8	151.6	152.8	151.2	147.3	143.7	144.7	144.2	142.8	145.0	147.5	149.1
		3.88	185.8	186.0	183.4	185.7	192.4	187.9	186.0	188.7	192.4	195.4	193.9	189.6		

Table 3
INDUSTRIAL PRODUCTION: PERCENT CHANGES
Based on seasonally adjusted indexes

	1980											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
CHANGE FROM PREVIOUS MONTH												
TOTAL INDEX	.1	-.1	-.3	-2.5	-2.9	-1.7	-.8	1.0	1.6	1.9	1.6	1.0
FINAL PRODUCTS	-.1	.5	.0	-1.6	-1.6	-.6	.1	.3	.8	1.3	1.0	.5
CONSUMER GOODS	-.5	.3	.1	-2.2	-2.0	-.2	-.1	.5	1.1	1.6	1.0	.2
DURABLE CONSUMER GOODS	-3.0	1.5	-.3	-5.4	-5.5	-.5	.1	.2	3.2	5.2	2.0	-1.3
NONDURABLE CONSUMER GOODS	.5	-.1	.2	-1.0	-.7	-.1	-.1	.6	.4	.3	.6	.9
BUSINESS EQUIPMENT	.5	.6	.1	-1.1	-1.3	-1.2	.2	.1	.1	.8	.9	.9
INTERMEDIATE PRODUCTS	.8	-1.0	-.6	-4.7	-3.1	-1.8	.7	2.1	2.0	1.2	1.0	.9
MATERIALS	.3	-.3	-.8	-2.8	-4.4	-3.0	-2.5	1.5	2.7	2.8	2.5	1.6
DURABLE GOODS MATERIALS	.1	-.8	-.4	-3.9	-5.7	-4.3	-3.6	1.8	2.2	4.5	4.1	2.2
NONDURABLE GOODS MATERIALS	.4	-.6	-1.6	-2.1	-4.6	-3.4	-2.1	2.3	6.2	2.4	.6	1.0
MANUFACTURING	.1	-.3	-.6	-2.8	-3.0	-2.2	-.9	1.1	2.0	2.1	1.7	.9
NONDURABLE	.4	-.1	-.7	-1.9	-2.2	-1.7	-.4	1.4	2.2	1.0	1.1	1.0
DURABLE	-.1	-.4	-.5	-3.5	-3.7	-2.6	-1.2	.9	1.8	3.0	2.4	.8
MINING AND UTILITIES	.0	.5	1.6	-.9	-.3	.3	.0	.3	.0	-.4	1.3	1.7
CHANGE FROM SAME MONTH A YEAR AGO												
TOTAL INDEX	.5	-.1	-.9	-1.9	-5.7	-7.5	-8.2	-6.8	-5.6	-3.9	-2.0	-1.2
FINAL PRODUCTS	.3	.4	-.6	.0	-3.2	-3.7	-3.4	-2.1	-2.3	-1.1	.1	.5
CONSUMER GOODS	-2.2	-2.2	-3.1	-2.7	-6.4	-6.6	-6.1	-4.0	-3.8	-2.3	-.7	-.1
DURABLE CONSUMER GOODS	-11.7	-10.3	-12.0	-10.2	-19.8	-19.4	-18.2	-13.1	-12.9	-8.8	-4.8	-4.2
NONDURABLE CONSUMER GOODS	1.9	1.4	.7	.3	-.8	-1.1	-1.1	-.5	-.1	.4	.9	1.5
BUSINESS EQUIPMENT	4.0	4.0	3.0	3.3	.4	-.8	-.7	-.8	-1.7	-.3	.5	.5
INTERMEDIATE PRODUCTS	-.1	-1.3	-1.9	-5.8	-8.7	-10.7	-.9	-8.5	-6.2	-5.1	-3.9	-2.6
MATERIALS	.8	.3	-1.0	-2.5	-7.6	-10.7	-13.3	-11.5	-9.1	-6.5	-4.0	-2.7
DURABLE GOODS MATERIALS	-1.5	-2.1	-3.3	-4.8	-11.6	-16.2	-19.5	-16.7	-14.9	-10.8	-6.4	-4.3
NONDURABLE GOODS MATERIALS	5.2	3.6	1.6	-.5	-5.4	-8.5	-11.0	-9.8	-4.6	-2.8	-2.0	-1.9
MANUFACTURING	.3	-.4	-1.8	-2.6	-6.9	-9.0	-9.9	-8.0	-6.8	-4.8	-2.9	-1.9
NONDURABLE	2.7	1.8	.4	-.6	-3.4	-5.1	-6.1	-5.0	-3.1	-1.8	-.8	-.1
DURABLE	-1.6	-2.1	-3.5	-4.2	-9.7	-12.0	-12.8	-10.4	-9.7	-7.1	-4.4	-3.4
MINING AND UTILITIES	2.6	3.4	5.1	4.2	4.4	5.2	4.9	4.0	4.1	2.9	2.9	4.2

Table 2B

INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967	1979	1979	1980											
		PRO- TION	POR- AVG.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES		12.05	144.7	148.8	152.5	153.1	151.2	145.0	143.1	149.1	151.9	157.1	152.3	146.0	148.3	155.1
MINING		6.36	125.5	130.2	130.1	131.2	132.7	133.4	134.1	134.5	127.3	130.5	131.9	134.0	136.2	135.9
UTILITIES		5.69	166.0	169.5	177.4	177.6	171.8	157.9	153.2	165.4	179.4	186.7	175.1	159.4	161.9	176.4
MANUFACTURING		87.95	153.6	147.6	147.4	152.7	153.5	148.5	143.6	144.4	135.1	141.3	148.0	150.5	149.2	144.9
NONDURABLE		35.97	164.0	156.8	158.2	163.8	164.9	161.3	157.1	160.1	151.0	161.2	167.5	167.8	164.0	157.1
DURABLE		51.98	146.4	141.2	139.8	145.0	145.6	139.7	134.2	133.5	124.1	127.6	134.6	138.5	139.0	136.5
MINING																
METAL MINING	10	.51	127.0	127.7	126.0	126.1	128.2	124.0	127.3	129.5	83.8	74.8	78.6	91.2	97.8	
COAL	11,12	.69	135.6	131.9	131.6	137.3	146.5	152.7	151.6	159.1	124.6	156.8	153.4	151.8	151.0	144.8
OIL AND GAS EXTRACTION	13	4.40	121.7	128.3	129.5	131.0	131.5	131.4	132.6	132.3	133.6	133.8	134.7	136.1	139.5	138.9
STONE AND EARTH MINERALS	14	.75	137.6	141.1	135.2	130.3	130.3	133.9	131.5	128.3	122.3	125.7	131.5	135.1	135.8	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	147.5	143.9	142.6	144.3	146.0	143.3	145.1	150.5	147.5	154.7	159.8	158.1	151.0	
TOBACCO PRODUCTS	21	.67	117.8	95.4	120.7	124.2	125.8	116.7	112.9	120.6	104.1	122.7	128.6	135.1		
TEXTILE MILL PRODUCTS	22	2.68	145.0	137.6	135.8	142.6	144.8	143.0	140.8	143.6	118.1	136.5	137.3	139.2	136.6	
APPAREL PRODUCTS	23	3.31	134.4	113.0	123.6	139.7	145.4	134.4	127.7	135.9	107.4	128.0	135.7	134.0		
PAPER AND PRODUCTS	26	3.21	151.0	141.1	154.6	158.1	160.6	153.4	148.5	152.5	133.8	147.3	149.7	159.2	153.4	140.2
PRINTING AND PUBLISHING	27	4.72	136.9	130.8	125.9	130.5	131.6	131.3	133.2	139.9	146.5	152.5	153.6	148.0	144.6	137.8
CHEMICALS AND PRODUCTS	28	7.74	211.8	207.8	207.4	212.2	212.3	210.7	200.3	198.1	192.0	200.1	212.9	213.0	212.0	
PETROLEUM PRODUCTS	29	1.79	143.9	147.2	142.7	139.5	134.1	132.0	132.4	134.6	134.2	131.7	133.4	129.8	134.7	137.2
RUBBER & PLASTICS PRODUCTS	30	2.24	272.2	256.9	257.5	277.7	275.1	267.6	247.0	242.4	223.4	239.5	255.1	264.2	263.9	
LEATHER AND PRODUCTS	31	.86	71.7	67.5	72.5	74.7	75.8	71.5	71.8	71.3	57.8	68.8	69.1	72.7	70.4	
DURABLE MANUFACTURES																
ORDNANCE, PW & GOVT	19,91	3.64	75.2	76.9	77.3	78.3	77.9	78.3	78.5	78.8	77.3	77.1	76.9	77.3	78.2	79.8
LUMBER AND PRODUCTS	24	1.64	136.9	122.8	123.8	131.2	128.4	105.5	104.6	114.8	110.6	124.0	125.8	127.2	122.8	
FURNITURE AND FIXTURES	25	1.37	161.5	160.4	158.8	167.1	164.9	156.7	146.1	143.6	124.4	141.7	148.9	150.1	149.5	
CLAY, GLASS, STONE PROD	32	2.74	163.9	155.9	150.4	152.0	152.9	150.2	143.6	141.5	135.2	141.3	144.8	151.0	149.0	
PRIMARY METALS	33	6.57	121.3	108.1	111.3	114.3	123.2	114.6	102.9	95.8	75.9	82.3	87.8	99.1	106.2	109.3
IRON AND STEEL	331,2	4.21	113.2	99.7	100.8	104.4	115.3	105.6	91.1	80.6	65.2	72.0	77.5	91.1	100.2	
FABRICATED METAL PROD	34	5.93	148.5	144.7	140.7	148.0	147.2	141.2	133.0	127.8	119.9	124.9	130.9	135.0	135.6	134.3
NONELECTRICAL MACHINERY	35	9.15	163.7	158.2	160.8	167.9	166.4	162.2	159.7	162.2	157.6	158.6	165.9	164.1	162.0	158.3
ELECTRICAL MACHINERY	36	8.05	175.0	180.3	177.8	180.1	179.7	175.7	170.0	169.5	159.0	165.1	171.9	175.3	174.5	172.7
TRANSPORTATION EQUIP	37	9.27	135.4	124.0	119.7	127.8	128.2	119.0	113.1	114.1	102.3	99.4	114.2	122.6	123.3	117.5
MOTOR VEHICLES & PTS	371	4.50	159.9	128.4	124.0	138.8	137.4	121.6	111.7	113.6	93.8	88.2	115.5	131.7	131.3	118.6
AEROSPACE & MISC	372-9	4.77	112.2	119.7	115.8	117.5	119.5	116.5	114.5	114.6	110.3	110.1	112.9	114.0	115.8	116.5
INSTRUMENTS	38	2.11	174.9	175.0	170.3	172.2	171.6	171.0	170.4	172.5	166.8	168.7	171.5	172.0	173.6	172.6
MISCELLANEOUS MFRS	39	1.51	153.7	148.2	143.6	150.8	151.1	148.0	145.0	147.5	140.5	149.3	153.4	151.1	148.9	143.7
UTILITIES																
ELECTRIC		3.88	185.8	186.6	195.4	194.8	188.5	170.5	166.5	186.8	208.0	218.4	201.5	177.3		

Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1967	1967	1980											
		PRO- POR- TON	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
METAL MINING	10	.51														
IRON ORE	101,6	.24	117.1	143.8	142.8	136.5	117.4	113.5	96.8	88.8	91.9	79.1	75.0	73.6	94.4	97.7
NONFERROUS ORES	102-5,8,9	.27	135.7	136.7	136.8	138.8	135.7	138.0	135.9	135.8	138.8	93.9	74.3	83.8	96.7	112.4
COPPER CRE	102	.14	165.6	165.8	167.2	164.8	160.3	167.3	162.9	161.6	170.0	84.4	49.6	68.2	90.7	
LEAD AND ZINC ORES	103	.03	83.9	89.2	84.8	96.1	89.8	86.9	87.3	95.4	93.2	92.0	85.8	84.4	93.2	
ANTHRACITE	11	.03	46.7	48.0	48.1	49.2	40.1	44.4	51.4	46.3	47.9	55.3	38.9	35.0	39.2	41.3
BITUMINOUS COAL	12	.66	139.3	140.0	149.5	162.1	148.0	149.1	153.7	143.1	150.5	149.2	166.2	141.3	139.8	150.0
OIL AND GAS EXTRACTION	13	4.40														
CRUDE OIL & NATURAL GAS	131	3.61	97.3	98.0	98.0	99.6	98.9	100.0	100.0	99.0	97.7	97.3	95.5	96.0	95.9	95.5
CRUDE OIL, TOTAL		2.94	94.6	94.9	95.0	96.4	95.8	96.1	97.3	96.1	95.5	95.3	93.3	92.9	92.6	92.5
ALASKA, CALIF. CRUDE		.31	222.4	236.9	232.9	242.5	243.7	246.4	254.3	252.5	250.1	243.6	237.0	235.6	234.1	233.3
TEXAS CRUDE		1.07	90.5	88.7	88.3	88.8	87.7	88.2	87.7	86.9	87.6	87.9	85.6	85.0	84.8	84.3
LA. AND OTHER CRUDE		1.57	72.5	71.4	72.8	73.0	72.4	72.2	73.1	71.9	70.8	71.5	70.6	70.5	70.3	70.7
NATURAL GAS		.67	109.2	112.0	110.9	113.9	112.4	117.0	112.2	111.6	107.1	106.0	105.1	109.5		
NATURAL GAS LIQUIDS	132	.30	110.9	113.8	105.8	111.1	110.1	102.4								
LP PROPANE		.04	95.4	98.4	98.8	99.3	95.6	93.3								
LP MATERIALS		.26	113.4	116.4	107.0	113.1	112.5	103.9								
OIL AND GAS DRILLING	138	.50	303.8	331.3	344.4	354.2	370.7	382.2	391.9	407.4	407.1	420.7	426.1	428.7	432.8	447.9
FOODS	20	8.75														
MEAT PRODUCTS	201	1.17	118.3	118.2	120.3	124.8	121.8	119.9	129.0	133.2	127.9	124.8	116.9	118.8	121.7	117.5
BEEF		.40	105.9	104.4	106.7	105.0	102.9	101.2	107.7	110.5	107.3	106.5	105.3	106.3	110.1	106.7
PORK		.55	122.8	125.8	127.9	133.5	128.3	127.4	138.8	147.0	141.7	137.2	124.2	126.6	128.6	122.2
MISC. MEATS		.22	129.2	123.9	125.9	138.7	139.2	135.1	143.2	139.6	130.4	127.1	119.9	121.8	125.5	124.9
DAIRY PRODUCTS	202	1.14	124.3	127.2	126.7	127.9	127.0	127.8	127.3	127.8	127.5	129.0	130.3	131.5	132.7	133.1
BUTTER	2021	.04	80.0	83.9	83.7	82.1	86.0	93.5	93.4	94.0	91.9	89.7	98.8	97.9	92.8	100.3
CHEESE	2022	.07	252.6	270.9	263.1	271.1	263.7	267.5	252.6	256.4	253.1	261.1	265.7	293.0	303.0	300.2
CONCENTRATED MILK	2023	.12	53.9	61.2	56.0	57.4	55.7	56.1	58.7	57.4	56.2	59.8	59.7	59.7	61.5	64.8
PREPARED DESSERTS	2024	.13	133.4	132.5	135.6	139.0	134.5	134.2	135.0	136.3	135.6	139.3	144.0	138.4	141.8	140.0
CANNED AND FROZEN FOODS	203	1.18	171.6	166.1	170.8	177.4	176.9	171.9	166.8	160.8	161.9	159.6	161.0	158.3	159.1	161.1
GRAIN MILL PRODUCTS	204	.95	167.3	167.0	166.9	168.0	167.5	170.2	161.7	164.5	164.9	162.9	163.7	166.5	162.7	164.9
FLOUR & CORN MILL	204.1,6	.28	115.3	118.8	116.6	116.8	111.3	112.4	102.1	113.4	112.1	110.4	114.1	117.0	114.2	119.9
BAKERY PRODUCTS	205	1.15	121.7	121.6	120.3	122.9	122.4	122.6	121.3	122.2	122.9	123.1	123.9	124.8	124.6	124.5
SUGAR	206	.21	124.8	120.8	124.1	108.5	137.5	126.5	112.0	133.3	141.8	132.0	142.3	129.3	127.5	113.8
CONFECTIONERY	207	.41	107.1	111.5	107.0	99.7	106.7	110.7	98.2	99.4	105.0	114.1	98.0	110.8	125.1	119.3
BEVERAGES	208	1.58	189.3	195.0	195.2	190.3	194.8	197.7	189.1	188.4	188.7	188.3	191.2	196.5	193.2	197.6
BEER AND ALE	2082,3	.52	158.3	163.1	154.2	163.5	170.3	177.4	153.0	163.9	164.6	160.5	161.4	170.9	161.2	
WINES AND BRANDY	2084	.07	243.1	230.4	241.7	233.8	254.4	245.3	263.2	233.8	242.9	240.7	264.3			
LIQUORS	2085	.24	133.4	141.5	156.0	101.2	114.0	118.4	120.0	117.8	114.0	122.1	132.0	134.3	127.8	130.2
SOFT DRINKS	2086,7	.74	224.7	231.8	232.8	234.3	233.1	233.6	230.6	224.6	225.3	224.7	225.0	231.1	234.3	239.0
MISC. FOOD PREPARATIONS	209	.97	145.7	146.3	147.6	147.8	145.8	150.0	148.7	152.5	153.1	153.5	155.1	155.8	152.6	153.6
FATS AND OILS	2091-4,6	.30	143.9	147.3	146.5	148.1	148.2	150.2	145.0	149.6	154.9	155.8	147.5	155.2	148.7	147.5
COFFEE, MISC. FOOD	2095,7-9	.67	146.6	145.9	148.1	147.7	144.7	149.8	150.4	153.8	152.3	152.5	158.6	156.1	154.4	
TOBACCO PRODUCTS	21	.67														
CIGARETTES	211	.54	121.2	114.1	118.0	124.5	119.3	133.1	124.7	118.8	111.6	124.4	117.7	127.1	127.0	130.7
CIGARS	212	.07	60.8	57.6	68.8	53.0	56.5	62.1	59.8	54.6	60.2	57.5	56.7	52.7	50.7	58.6
TEXTILE MILL PRODUCTS	22	2.69														
FABRICS	221-4	1.05	104.5	103.1	104.8	101.0	105.5	104.6	104.7	104.7	103.8	105.9	97.3	102.5	103.1	100.9
COTTON FABRICS	221.4	.60	74.9	74.6	74.3	74.7	76.7	77.1	77.2	76.1	74.0	74.3	69.9	73.7	73.0	70.5
MAN-MADE FABRICS	222	.30	186.4	183.1	187.7	176.8	185.4	182.3	186.6	186.6	186.4	191.6	172.9	181.2	185.2	180.3
WOOL FABRICS	223	.14	55.4	53.4	57.4	51.2	57.0	55.2	46.4	46.7	53.6	56.7	52.1	57.0	55.6	60.5
KNIT GOODS	225	.63	191.4	200.4	202.2	190.7	180.8	182.8	179.1	177.0	174.9	172.2	177.3	164.0	172.2	178.7
HOSIERY	2251,2	.21	215.0	231.2	252.5	204.0	188.2	195.2	201.8	199.7	189.7	204.8	202.1	164.8	188.1	196.8
KNIT GARMENTS	2253-9	.42	179.5	184.8	176.7	183.9	177.1	176.4	167.6	165.4	167.3	155.7	164.8	163.6	164.1	169.5
FABRIC FINISHING	226	.23	146.8	159.5	161.1	139.6	150.9	146.9	147.5	137.7	133.1	142.5	129.5	140.3	141.4	140.6
CARPETING	227	.20	222.0	220.8	219.0	223.7	208.8	223.3	204.7	190.0	194.0	184.7	195.3	198.1	189.3	217.1
YARN & MISC. TEXTILES	228,9	.57	140.6	144.3	143.7	139.3	140.1	142.5	132.0	132.0	135.2	124.0	125.2	129.2	123.7	124.5
APPAREL PRODUCTS	23	3.33														
MEN'S CLOTHING	231,2	1.06	130.5	138.5	143.2	120.6	119.3	136.8	124.9	124.7	133.0	122.6	126.6			
MEN'S SUITS AND COATS	231	.34	94.0	88.6	81.6	81.6	87.9	91.9	99.2	103.4	107.9	120.9	101.2			
MEN'S FURNISHINGS	232	.69	151.0	166.0	176.7	142.0	136.9	161.7	139.9	137.5	148.0	125.7	141.5			
WOMEN'S CLOTHING	233	1.05	171.6	168.4	158.2	167.6	176.4	182.6	163.2	163.4	165.3	158.8	158.4	164.6	163.3	
MISC. APP. & ALLIED GDS	234-9	1.20	105.3	103.3	103.4	103.9	104.9	104.6	101.3	96.0	93.5	92.0	94.0	95.6	97.1	
LUMBER AND PRODUCTS	24	1.64														
LOGGING AND LUMBER	241,2	.82	114.9	114.2	116.4	108.0	109.9	111.0	85.3	90.1	96.2	94.9	105.8	100.0	96.2	101.7
LUMBER	242	.59	108.9	106.9	110.9	99.6	100.9	104.0	72.9	79.7	89.0	85.0	100.9	93.0	90.8	
LUMBER PRODUCTS	243,4,9	.82	158.8	156.8	146.6	153.9	151.4	145.2	122.8	117.4	127.1	132.1	135.4	144.0	148.5	150.0
MILLWORK AND PLYWOOD	243	.50	174.3	169.4	154.0	167.6	164.8	155.4	120.9	116.5	134.5	145.0	148.3	161.0	164.9	
PLYWOOD, PREFAB PROD	2432,3	.29	199.2	193.7	170.2	191.5	186.0	171.9	123.8	126.0	159.1	179.7	179.7	194.9	198.6	
FURNITURE AND FIXTURES	25	1.37														
HOUSEHOLD FURNITURE	251	.87	161.9	162.4	158.6	159.9	157.1	161.3	151.4	145.3	134.6	126.6	130.3	136.8	141.2	144.0
FIXTURES, OFF. FURN.	252,4,9	.42	169.8	175.1	176.0	172.7	173.3	175.3	176.3	167.						

Table 4B
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES
 Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1979	1979	1980										
		TON	PRO- POR-1	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.
METAL MINING	10	.51													
IRON ORE	101,6	.24	117.1	118.6	121.4	111.1	110.7	110.1	101.5	111.2	117.3	86.6	78.4	73.7	81.9
NONFERROUS ORES	102-5,8,9	.27	135.7	137.5	133.4	139.3	139.9	144.3	144.1	141.6	140.3	81.3	71.6	82.9	99.5
COPPER ORE	102	.14	165.6	167.1	160.2	165.5	168.0	176.5	176.4	171.8	172.5	65.8	47.1	66.6	95.3
LEAD AND ZINC ORES	103	.03	83.9	88.0	82.4	93.0	96.0	94.0	92.0	94.3	94.5	83.0	83.0	83.1	94.0
ANTHRACITE	11	.03	46.7	52.5	42.4	43.3	35.3	46.5	49.2	48.2	50.0	48.4	42.9	38.6	42.4
BITUMINOUS COAL	12	.66	139.3	144.9	135.6	135.2	141.5	150.6	156.9	155.8	163.6	127.7	161.5	158.1	156.3
OIL AND GAS EXTRACTION	13	4.40													
CRUDE OIL & NATURAL GAS	131	3.61	97.3	98.4	98.4	99.3	100.3	100.5	99.4	98.7	97.4	96.9	95.2	95.3	95.8
CRUDE OIL, TOTAL		2.94	94.6	95.5	95.0	95.5	96.1	96.2	96.5	96.1	95.3	95.1	93.5	92.9	93.2
ALASKA, CALIF. CRUDE		.31	222.4	242.8	233.8	242.7	243.2	245.2	247.2	246.9	243.3	242.6	242.2	239.1	239.5
TEXAS CRUDE		1.07	90.5	88.9	88.5	87.8	87.8	88.7	88.0	87.0	87.5	87.6	85.3	84.7	84.5
LA. AND OTHER CRUDE		1.57	72.5	71.3	72.1	72.1	73.0	72.3	72.9	72.9	71.7	71.4	70.1	69.9	70.2
NATURAL GAS		.67	109.2	111.3	113.4	116.0	118.8	119.1	112.3	110.3	106.6	105.2	102.5	106.2	
NATURAL GAS LIQUIDS	132	.30	110.9	114.5	106.8	108.1	108.6	102.6							
LP PROPANE		.04	95.4	101.6	102.5	97.9	97.3	95.4							
LP MATERIALS		.26	113.4	116.6	107.5	109.8	110.5	103.8							
OIL AND GAS DRILLING	138	.50	303.8	343.2	356.1	359.2	365.5	372.3	376.2	392.7	400.6	415.7	429.1	437.3	444.9
FOODS	20	8.75													
MEAT PRODUCTS	201	1.17	118.3	126.7	118.7	123.5	120.1	121.9	128.8	126.1	125.0	112.7	117.0	123.2	130.8
BEEF		.40	105.9	106.1	103.2	107.8	106.1	100.6	103.6	104.2	107.3	101.9	108.0	108.9	115.9
PORK		.55	122.8	141.4	130.3	133.8	129.2	136.4	145.7	138.8	131.8	113.7	117.0	128.4	137.2
MISC. MEATS		.22	129.2	127.1	117.5	125.9	122.4	124.0	132.3	133.9	140.0	129.5	133.3	135.8	141.8
DAIRY PRODUCTS	202	1.14	124.3	120.1	120.9	122.3	124.9	128.8	131.1	133.7	137.2	134.2	132.5	129.2	127.0
BUTTER	2021	.04	80.0	73.6	83.4	96.8	100.4	100.9	108.0	110.8	95.1	79.3	77.1	75.0	83.6
CHEESE	2022	.07	252.6	241.1	249.2	251.1	257.9	276.6	279.4	292.5	298.2	268.8	258.8	266.4	268.9
CONCENTRATED MILK	2023	.12	53.9	44.7	48.8	50.9	53.6	57.1	68.8	72.2	76.2	69.3	58.3	50.3	47.0
FROZEN DESSERTS	2024	.13	133.4	106.7	100.2	103.7	117.4	135.4	139.0	148.3	174.2	173.3	174.1	148.1	127.6
CANNED AND FROZEN FOODS	203	1.18	171.6	171.2	157.8	159.5	164.2	159.2	154.0	152.3	159.1	158.5	172.3	191.7	185.0
GRAIN MILL PRODUCTS	204	.95	167.3	171.3	168.7	166.2	166.0	166.0	154.0	157.1	161.5	161.2	170.1	171.4	171.9
FLOUR & CORN MILL.	2041,6	.28	115.3	119.3	114.7	113.1	114.1	111.8	102.2	109.8	107.7	106.6	119.0	119.5	121.0
BAKERY PRODUCTS	205	1.15	121.7	120.1	115.8	115.2	113.4	114.2	114.4	117.3	126.6	133.6	135.4	137.3	129.8
SUGAR	206	.21	124.8	165.7	163.4	125.8	121.5	106.1	97.2	115.8	124.6	103.9	118.6	119.2	162.2
CONFECTIONERY	207	.41	107.1	117.7	93.7	88.8	120.7	111.3	86.6	85.4	89.0	79.2	114.6	157.4	146.4
BEVERAGES	208	1.58	189.3	185.7	178.4	173.8	173.0	188.2	186.1	192.1	206.5	204.1	209.6	210.5	198.9
BEER AND ALE	2082,3	.52	158.3	135.4	128.1	144.7	158.2	174.2	168.5	181.3	192.7	185.1	179.0	167.8	147.8
WINES AND BRANDY	2084	.07	124.3	127.9	278.7	223.3	226.7	260.0	240.0	223.0	240.0	188.0	236.0		
LIQUORS	2085	.24	133.4	159.3	153.8	94.4	103.0	123.1	117.0	113.6	120.7	97.9	125.9	141.6	153.8
SOFT DRINKS	2086,7	.74	124.7	221.6	213.0	215.8	201.4	213.0	216.3	222.6	241.1	253.5	256.0	260.5	243.2
MISC. FOOD PREPARATIONS	209	.97	145.7	151.2	154.6	154.4	155.7	152.2	150.8	149.2	146.5	141.8	148.4	148.7	152.7
FATS AND OILS	2091-4,6	.30	143.9	157.5	160.0	160.1	162.7	160.5	144.1	142.4	145.5	133.4	132.3	140.5	153.1
COFFEE, MISC. FOOD	2095,7-9	.67	146.6	148.4	152.2	151.8	152.5	148.5	153.9	152.3	147.0	145.6	155.7	152.4	152.5
TOBACCO PRODUCTS	21	.67													
CIGARETTES	211	.54	121.2	117.9	94.5	126.5	128.5	130.6	120.8	116.7	124.3	106.6	124.5	130.3	138.0
CIGARS	212	.07	60.8	60.9	49.8	49.7	60.7	63.9	58.6	56.2	63.1	43.4	60.0	58.0	61.0
TEXTILE MILL PRODUCTS	22	2.69													
FABRICS	221-4	1.05	104.5	104.9	98.9	105.0	110.3	108.9	106.3	109.2	106.4	86.1	97.9	100.8	105.5
COTTON FABRICS	221,4	.60	74.9	76.3	69.1	76.5	80.3	81.2	78.8	78.5	75.6	61.6	70.1	72.2	75.6
HAN-MADE FABRICS	222	.30	186.4	188.9	180.8	183.8	193.2	186.5	186.8	196.0	190.0	154.0	175.0	181.0	190.0
WOOL FABRICS	223	.14	55.4	46.8	50.5	57.6	60.6	60.6	51.0	54.3	58.6	45.0	51.0	51.0	52.0
KNIT GOODS	225	.63	191.4	196.6	178.5	163.0	174.3	177.8	183.4	179.0	193.0	170.4	192.1	180.0	177.2
HOSIERY	2251,2	.21	215.0	224.3	211.1	178.5	192.7	204.4	225.0	197.7	208.7	203.2	204.9	172.2	187.0
KNIT GARMENTS	2253-9	.42	179.5	182.6	161.9	155.2	165.0	164.3	162.3	169.5	185.1	153.8	185.6	183.9	172.3
FABRIC FINISHING	226	.23	146.8	158.7	153.6	141.0	154.7	156.2	152.5	145.7	143.2	103.5	132.5	141.2	145.2
CARPETING	227	.20	222.0	229.2	212.0	194.4	196.9	219.6	214.7	191.4	198.7	170.5	186.4	216.1	218.0
YARN & MISC. TEXTILES	228,9	.57	140.6	144.1	131.2	139.8	143.1	144.0	137.2	137.1	138.3	107.1	130.5	128.2	129.6
APPAREL PRODUCTS	23	3.33													
MEN'S OUTERWEAR	231,2	1.06	130.5	127.9	115.4	119.5	133.6	150.7	137.9	131.9	142.3	92.2	121.3		
MEN'S SUITS AND COATS	231	.34	94.0	87.9	69.4	83.3	92.2	98.8	109.4	107.4	110.6	80.0	100.0		
MEN'S FURNISHINGS	232	.69	151.0	150.1	140.1	139.4	156.7	179.6	154.7	146.5	160.9	99.2	134.0		
WOMEN'S OUTERWEAR	233	1.05	171.6	162.3	127.1	160.9	191.1	192.9	175.0	162.8	172.3	139.1	163.4	172.4	174.5
MISC. APP. & ALLIED GDS	234-9	1.20	105.3	101.6	98.5	94.8	100.4	99.3	96.1	93.4	98.5	93.2	104.6	105.6	100.9
LUMBER AND PRODUCTS	24	1.64													
LOGGING AND LUMBER	241,2	.82	114.9	110.2	104.6	98.7	109.4	107.7	86.8	89.4	100.2	96.6	110.0	106.6	103.4
LUMBER	242	.59	108.9	101.5	96.0	93.2	104.2	105.1	78.6	80.4	90.7	82.6	101.8	98.2	96.7
LUMBER PRODUCTS	243,4,9	.82	158.8	156.3	140.9	148.7	152.9	149.0	124.0	119.7	129.3	124.6	138.0	144.9	150.9
MILLWORK AND PLYWOOD	243	.50	174.3	167.1	144.9	161.3	165.5	160.1	121.7	119.4	137.7	134.5	153.9	163.4	168.9
PLYWD, PREFAB PROD	2432,3	.29	199.2	189.8	154.8	185.7	191.7	182.9	126.6	131.1	161.7	159.7	186.4	197.0	204.3
FURNITURE AND FIXTURES	25	1.37													
HOUSEHOLD FURNITURE	251	.87	161.9	164.2	158.2	157.3	165.9	163.1	152.2	141.7	134.9	111.1	133.4	141.6	144.0
FIXTURES, OFF. FURN.	252,4,9	.42	169.8	178.6	174.6	171.7	181.3	179.0	175.4	163.8	169.2	156.0	166.0	172.4	171.5

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PRO- TION	1979 AVG.	1979 NOV.	1980										
					JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
PAPER AND PRODUCTS	26	3.21													
PULP AND PAPER	261-3	1.38	141.9	146.7	151.4	148.2	144.1	144.1	138.5	139.8	141.3	140.1	139.7	148.3	144.7
WOOD PULP	2611	.50	136.4	139.5	141.3	138.4	136.7	138.8	134.3	138.1	135.2	136.0	135.1	142.6	
PAPER	2621	.54	144.1	151.0	155.3	151.0	146.4	144.2	141.2	139.1	143.9	138.6	140.8	147.9	148.9
PAPERBOARD	2631	.34	146.7	150.6	160.0	158.1	151.4	151.8	140.3	143.4	146.0	148.3	144.9	157.2	153.2
CONVERTED PAPER PROD.	2641	.93	164.1	167.8	172.8	172.8	168.0	173.4	165.9	162.5	165.9	160.5	163.3	170.8	173.7
SANITARY PAPER PROD.	2647	.18	140.6	137.5	134.2	141.4	140.5	143.0	134.9	137.4	134.0	134.2	129.6	137.5	140.6
PAPERBOARD CONTAINERS	2651	.84	153.9	150.9	152.2	164.4	151.9	157.0	146.7	133.9	141.9	138.5	143.0	150.4	152.9
BUILDING PAPER AND BOARD	2661	.06	115.7	112.3	106.7	111.9	104.9	85.3	72.6	72.2	73.5	84.5	81.7	95.7	94.7
PRINTING AND PUBLISHING	27	4.72													
NEWSPAPERS	2711	1.38	111.1	111.3	110.0	110.8	112.8	111.7	106.1	107.0	106.8	108.4	108.8	108.5	107.1
PERIOD., BOOKS, CARDS	272,3,7	1.38	123.8	122.6	124.7	127.8	125.8	124.2	123.7	123.5	122.1	126.7	126.9	126.1	132.2
JOB PRINTING	274-6,8,9	1.96	164.2	165.5	166.4	168.1	169.6	170.3	168.4	164.4	163.4	168.7	172.5	170.9	177.4
CHEMICALS AND PRODUCTS	28	7.74													
CHEMICALS & SYN. MAT.	281,2	3.79	234.2	239.2	240.4	246.0	242.2	233.3	228.1	210.1	195.9	192.2	199.9	217.7	227.3
BASIC CHEMICALS	2811	2.54	192.0	196.7	199.6	200.3	199.9	194.9	191.4	186.0	179.2	172.1	171.9	181.5	188.6
ALKALIES & CHLORINE	2812	.14	132.3	136.9	142.1	138.7	133.0	122.6	122.2	116.1	113.1	106.6	107.7	119.1	119.9
GASES, ETC.	2813,5,6	.48	157.7	200.0	207.9	212.5	222.2	198.3	181.5	165.4	151.2	143.1	156.9	183.7	195.8
BASIC ORG. CHEM.	2818	1.18	233.3	240.7	243.7	243.9	239.0	240.0	237.6	237.7	230.0	219.1	213.8	220.0	233.9
INORG. CHEM. NEC	2819	.75	134.9	137.0	136.1	135.8	137.1	135.6	138.3	131.0	129.7	129.0	127.7	131.4	125.9
ACIDS & FERTILIZER MAT.		.55	142.0	148.3	154.1	151.5	150.8	148.6	148.5	138.1	141.4	144.2	142.1	144.7	140.6
SULFURIC ACID, ETC.		.41	137.0	141.6	146.2	141.7	140.0	141.5	143.5	131.8	134.1	138.5	133.8	137.1	135.0
FERTILIZER MATERIALS		.14	156.5	167.6	177.1	179.9	182.1	169.4	163.1	156.6	162.7	160.7	166.6	166.9	156.9
ERDA NUCLEAR MATLS		.15	117.7	106.0	79.9	87.3	96.3	96.3	110.5	111.9	93.6	79.5	79.8	89.1	76.6
SYNTHETIC MATERIALS	2821	1.25	320.1	325.9	323.5	339.3	328.4	311.5	303.0	259.4	230.0	233.3	256.9	291.4	306.1
PLASTICS MATERIALS	2821	.54	420.1	427.0	434.8	452.4	440.1	426.5	398.3	333.3	293.8	297.7	332.8	376.0	395.8
SYNTHETIC RUBBER	2822	.13	130.5	127.9	126.0	120.2	119.2	121.9	112.5	96.2	84.5	72.7	77.9	93.9	105.2
MAN-MADE FIBERS	2823,4	.58	270.8	277.3	265.3	284.0	272.6	248.0	258.0	228.1	204.1	210.4	227.5	258.0	268.7
CHEMICAL PRODUCTS	283-7,9	3.95	190.2	191.5	192.9	194.6	194.5	192.8	190.4	188.5	186.4	188.6	194.2	197.2	193.0
DRUGS AND MEDICINES	2831	1.34	238.2	241.4	242.4	247.0	247.8	246.1	243.8	241.9	234.4	240.7	245.0	255.0	243.7
SOAP AND TOILETRIES	2841	1.29	171.6	174.6	173.0	174.3	174.8	171.9	168.6	165.4	166.9	168.0	174.7	170.8	173.0
PAINTS	2851	.43	137.8	126.7	137.2	131.7	129.4	131.2	126.4	128.0	127.2	125.8	137.2	142.9	139.6
AGRICULTURAL CHEMICALS	2871	.33	221.6	221.4	227.3	229.1	223.3	218.8	219.8	223.3	231.6	238.4	240.2	240.8	230.0
PETROLEUM PRODUCTS	29	1.79													
PETROLEUM REFINING	291,9	1.64	142.8	140.9	144.0	146.0	143.7	139.0	136.9	135.2	133.0	131.2	127.5	130.8	129.4
AUTOMOTIVE GASOLINE		.84	138.5	134.0	137.3	143.4	144.1	137.1	131.5	127.9	127.9	126.3	125.0	128.4	125.4
DISTILLATE FUEL OIL		.29	142.7	142.9	141.5	130.9	121.5	119.4	125.9	127.0	126.6	127.2	115.3	123.6	117.2
RESIDUAL FUEL OIL		.05	222.9	231.6	227.6	205.5	211.3	203.0	216.7	215.5	212.8	204.4	188.6	197.7	209.6
AVIATION FUEL & KEROS.		.17	105.9	106.1	109.9	104.1	103.0	104.8	109.0	107.4	99.1	96.8	93.3	97.0	97.6
MISC. PETROLEUM PROD.		.28	164.3	164.6	173.1	184.7	178.4	175.0							
REFINERY FUEL NEC		.06	142.5	143.9	145.8	144.4	145.5	144.2							
REFINERY NONFUEL MAT.		.14	194.7	192.2	203.4	224.6	213.9	212.2							
REFINERY PRODUCTS NEC		.08	125.2	129.5	137.9	141.7	138.1	129.9							
RUBBER & ELASTICS PROD.	30	2.24													
TIRES	3011	.60	159.1	133.6	118.9	127.1	127.4	132.8	117.6	109.3	104.8	122.7	120.5	127.5	133.0
RUB. PROD. EX. TIRES	302,3,6	.66	153.7	149.6	144.2	146.1	145.9	143.6	141.6	133.0	129.1	130.9	131.1	136.9	142.8
PLASTICS PRODUCTS NEC	3071	.98	421.9	429.6	431.0	441.1	434.1	431.7	433.0	409.2	395.4	399.2	392.5	406.8	413.9
LEATHER AND PRODUCTS	31	.86													
PERS. LEATHER GDS.	313,5-7,9	.22	96.1	94.8	96.2	97.5	93.4	91.7	90.6	84.4	80.1	78.4	81.8	81.6	83.2
SHOES	3141	.53	63.6	61.6	63.0	69.9	65.4	67.0	63.2	68.2	65.6	64.6	63.8	63.8	66.3
CLAY, GLASS, & ST. PROD.	32	2.74													
PRESSED AND BLOWN GLASS	3221	.49	162.6	165.0	162.0	168.9	172.9	162.5	161.6	154.8	152.2	157.7	153.3	160.3	157.5
GLASS CONTAINERS	3221	.28	143.8	147.6	140.4	149.8	154.2	145.5	145.3	137.7	137.4	143.3	139.7	147.8	142.5
CEMENT	3241	.27	120.7	126.7	139.5	128.1	108.6	100.4	102.5	100.4	103.5	103.1	101.9	109.2	109.4
STRUCTURAL CLAY PRODUCTS	3251	.20	126.1	124.6	119.6	120.7	118.4	114.1	105.8	96.7	93.7	94.3	89.5	96.4	98.8
BRICK	3251	.08	124.7	120.9	114.2	123.1	117.7	101.1	99.7	87.0	84.4	91.5	82.7	92.4	95.8
CONCRETE, MISC. CLAY MFR.	326-9	1.51	167.1	166.6	168.5	168.3	165.3	163.6	153.2	145.1	137.1	135.1	138.6	141.4	146.7
PRIMARY METALS	33	6.57													
IRON AND STEEL	331,2	4.21													
BASIC STEEL & MILL PRD	3311	3.34	114.7	111.4	114.3	110.4	106.8	116.0	99.6	85.1	76.1	66.7	73.9	79.9	94.4
BASIC IRON AND STEEL		1.34	105.5	99.7	100.3	101.4	100.1	98.7	93.9	79.7	68.0	63.9	67.0	75.5	87.9
PIG IRON		.46	99.3	93.4	93.9	95.2	91.1	92.9	86.4	73.3	59.6	55.4	59.1	65.4	78.2
RAW STEEL		.72	114.8	108.2	108.5	109.1	109.3	106.0	101.6	84.5	73.8	70.1	72.8	84.7	99.5
COKE AND PRODUCTS		.16	81.8	79.5	81.2	84.1	84.5	81.7	81.0	75.8	66.0	60.4	63.3	62.9	63.4
STEEL MILL PRODUCTS		2.01	120.8	119.2	123.6	116.5	111.2	127.5	103.4	88.7	81.5	68.5	78.5	82.9	98.8
CONSUMER DUR. STEEL		.31	109.8	91.3	96.4	84.6	76.8	94.3	73.3	50.9	52.8	41.3	57.1	61.2	77.9
EQUIPMENT STEEL		.51	129.9	133.4	145.5	134.4	127.4	143.1	122.8	112.5	104.4	80.3	87.3	90.3	100.9
CONSTRUCTION STEEL		.41	81.1	89.5	86.0	88.9	79.3	87.1	68.8	59.1	51.1	44.8	53.1	59.4	69.0
CAN & CLOSURE STEEL		.13	85.7	93.6	84.8	71.8	73.4	107.0	71.7	69.0	53.3	48.8	59.3	58.4	64.6
MISC. STEEL		.65	150.9	145.5	151.0	144.2	142.9	160.6	130.7	110.6	102.2	91.1	101.7	107.2	132.7
IRON & STEEL FOUNDRIES	332	.87	107.7	101.0	93.6	91.5	89.1	94.0	85.1	74.5	70.0	66.4	78.6	79.8	85.3

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PRO- TION	1979 AVG.	1979		1980										
				NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
PAPER AND PRODUCTS	26	3.21														
PULP AND PAPER	261-3	1.38	141.9	146.7	133.9	147.0	149.6	150.3	145.2	144.7	147.3	129.5	141.5	141.4	147.8	146.5
WOOD PULP	261	.50	136.4	140.1	124.3	138.0	140.0	144.3	140.7	142.7	142.4	127.6	137.0	135.0		
PAPER	262	.54	144.1	150.1	140.8	151.4	154.1	150.0	148.1	144.3	147.4	126.8	141.1	141.0	149.1	148.0
PAPERBOARD	263	.34	146.7	151.1	137.3	153.4	156.5	159.7	147.4	148.4	154.3	136.6	148.7	151.4	154.3	153.7
CONVERTED PAPER PROD.	264	.93	164.1	167.5	159.6	173.5	175.4	180.1	172.1	168.3	170.7	147.0	161.9	164.9	175.9	172.9
SANITARY PAPER PROD.	2647	.18	140.6	138.1	127.1	143.4	143.6	145.4	141.8	137.0	135.3	125.6	130.0	131.7	146.1	140.9
PAPERBOARD CONTAINERS	265	.84	153.9	149.3	135.8	150.0	156.7	161.0	151.5	137.7	146.4	130.1	145.1	154.6	163.7	147.6
BUILDING PAPER AND BOARD	266	.06	115.7	111.8	92.2	99.0	108.2	90.1	77.3	76.0	76.7	78.9	86.8	93.2	98.2	93.0
PRINTING AND PUBLISHING	27	4.72														
NEWSPAPERS	271	1.38	111.1	121.9	112.5	101.6	109.2	112.1	110.6	111.6	107.5	98.1	101.9	108.3	114.7	117.2
PERIOD., BOOKS, CARDS	272, 3, 7	1.38	123.8	120.0	117.1	116.7	118.4	117.7	118.0	118.7	125.9	136.0	142.0	140.0	136.2	131.5
JOB PRINTING	274-6, 8, 9	1.96	164.2	161.5	153.4	149.4	154.0	155.0	155.1	158.5	172.5	187.9	198.0	195.0	184.7	173.1
CHEMICALS AND PRODUCTS	28	7.74														
CHEMICALS & SYN. MAT.	281, 2	3.79	234.2	239.9	235.4	234.4	240.5	238.6	235.4	213.0	200.3	186.9	198.0	219.9	227.4	233.0
BASIC CHEMICALS	281	2.54	192.0	198.3	200.2	192.5	194.4	196.0	195.9	186.8	180.3	169.3	171.9	183.4	190.7	197.0
ALKALIES & CHLORINE	2812	.14	132.3	137.9	140.1	128.7	135.4	123.2	127.0	117.7	114.8	105.3	105.9	119.0	121.5	126.0
GASES, ETC.	2813, 5, 6	.48	197.7	196.4	207.2	197.4	218.1	204.5	194.0	171.0	158.0	141.5	153.5	181.9	190.4	
BASIC ORG. CHEM.	2818	1.18	233.3	244.1	243.2	239.0	229.7	237.4	237.1	235.8	230.5	219.3	217.0	225.5	238.8	245.8
INORG. CHEM. NEC	2819	.75	134.9	139.3	139.9	128.7	135.2	139.5	145.4	133.1	128.1	120.5	125.2	130.6	128.5	134.6
ACIDS & FERTILIZER MAT.		.55	142.0	149.7	156.7	141.8	152.6	153.6	158.0	139.6	141.0	134.0	140.0	143.9	141.4	150.6
SULFURIC ACID, ETC.		.41	137.0	142.9	149.0	133.6	143.2	145.0	150.7	130.7	134.2	128.5	132.6	137.9	135.9	143.5
FERTILIZER MATERIALS		.14	156.5	169.3	179.0	165.5	179.7	178.5	179.2	165.4	160.7	150.1	161.4	161.4	157.5	171.0
ERDA NUCLEAR MATLS		.15	117.7	112.1	89.2	87.0	80.5	98.0	111.4	117.0	87.3	74.7	75.7	87.2	86.0	83.0
SYNTHETIC MATERIALS	282	1.25	320.1	324.4	306.9	319.7	334.2	325.3	315.7	266.2	240.9	222.7	251.2	294.1	302.1	306.3
PLASTICS MATERIALS	2821	.54	420.1	419.8	404.8	414.6	440.4	447.6	420.1	345.9	309.6	286.8	327.3	382.0	397.9	
SYNTHETIC RUBBER	2822	.13	130.5	129.0	125.8	118.5	126.1	125.3	120.5	96.7	81.2	66.8	74.9	93.8	105.8	
MAN-MADE FIBERS	2823, 4	.58	270.8	280.6	257.4	277.7	283.3	257.5	263.5	231.1	213.6	199.0	220.9	258.3	258.2	259.6
CHEMICAL PRODUCTS	283-7, 9	3.95	190.2	190.8	181.4	181.5	185.0	187.1	187.1	188.0	196.1	197.0	202.2	208.2	199.3	193.6
DRUGS AND MEDICINES	283	1.34	238.2	240.9	224.0	225.0	229.2	229.9	234.3	237.1	252.9	260.7	261.4	278.2	255.2	246.9
SOAP AND TOILETRIES	284	1.29	171.6	176.0	166.9	165.4	169.0	168.8	163.0	161.6	168.2	173.2	180.5	181.6	181.0	176.0
PAINTS	285	.43	137.8	114.8	105.4	110.7	126.9	137.8	138.2	144.5	151.4	131.8	144.7	139.6	134.2	115.5
AGRICULTURAL CHEMICALS	287	.33	221.6	220.7	228.7	226.6	218.4	225.1	229.0	230.2	231.6	231.5	235.4	234.8	230.2	231.0
PETROLEUM PRODUCTS	29	1.79														
PETROLEUM REFINING	291, 9	1.64	142.8	142.3	146.6	143.9	140.7	134.6	132.2	133.0	135.0	134.3	131.4	132.6	128.4	133.9
AUTOMOTIVE GASOLINE		.84	138.5	134.8	141.1	141.4	138.8	132.0	127.0	126.9	132.0	131.2	129.9	129.9	122.1	129.4
DISTILLATE FUEL OIL		.29	142.7	147.8	146.9	137.2	126.0	116.3	117.2	120.3	124.6	125.5	116.0	122.7	119.1	127.3
RESIDUAL FUEL OIL		.05	222.9	230.4	248.5	233.6	234.1	209.1	210.0	206.0	200.0	192.5	178.4	189.2	193.9	210.3
AVIATION FUEL & KEROS.		.17	105.9	106.2	111.0	102.4	106.0	105.4	106.9	103.0	97.2	95.5	94.5	101.0	97.8	97.0
MISC. PETROLEUM PROD.		.28	164.3	165.6	166.8	167.9	166.7	166.4								
REFINERY FUEL NEC		.06	142.5	140.3	142.4	139.2	142.2	140.2								
REFINERY NONFUEL MAT.		.14	194.7	197.5	209.7	219.9	216.5	213.2								
REFINERY PRODUCTS NEC		.08	125.2	126.3	107.0	94.8	94.6	100.9								
RUBBER & ELASTICS PROD.	30	2.24														
TIRES	301	.60	159.1	136.7	119.3	140.5	151.8	148.4	126.4	101.9	100.1	84.6	107.0	125.9	141.7	133.1
RUB. PROD. EX. TIRES	302, 3, 6	.66	153.7	152.3	145.8	142.1	148.0	144.8	142.4	131.6	130.9	122.4	130.3	139.3	145.1	145.6
PLASTICS PRODUCTS NEC	307	.98	421.9	440.5	416.6	407.5	442.9	441.1	439.0	414.3	405.2	377.0	394.7	415.1	420.1	424.2
LEATHER AND PRODUCTS	31	.86														
PERS. LEATHER GDS.	313, 5-7, 9	.22	96.1	99.2	96.1	90.8	91.8	92.0	88.0	84.7	83.5	73.8	83.5	82.9	86.5	88.1
SHOES	314	.53	63.6	59.3	57.0	67.2	69.8	71.4	66.3	68.9	68.7	52.9	65.2	65.9	70.0	65.7
CLAY, GLASS, & ST. PROD.	32	2.74														
PRESSED AND BLOWN GLASS	322	.49	162.6	162.6	143.6	158.7	170.4	165.7	163.7	157.7	159.5	156.8	161.2	159.8	166.5	158.0
GLASS CONTAINERS	3221	.28	143.8	141.4	112.0	143.2	158.1	150.2	147.5	139.9	147.0	143.6	150.5	143.8	153.2	136.9
CEMENT	324	.27	120.7	121.9	95.5	67.7	73.8	85.0	105.7	113.9	131.3	122.4	129.6	129.6	133.1	
STRUCTURAL CLAY PRODUCTS	325	.20	126.1	128.1	116.9	111.1	109.6	109.9	106.1	98.5	98.4	94.1	93.6	99.2	101.5	97.4
BRICK	3251	.08	124.7	124.7	103.9	96.7	98.8	96.8	101.3	92.3	94.0	94.7	93.4	98.8	100.8	88.0
CONCRETE, MISC. CLAY MFR.	326-9	1.51	167.1	172.3	166.9	159.4	158.5	159.3	153.9	145.5	140.4	134.5	140.4	144.4	151.4	155.4
PRIMARY METALS	33	6.57														
IRON AND STEEL	331, 2	4.21														
BASIC STEEL & MILL PRD	331	3.34	114.7	102.2	104.8	104.1	107.3	119.0	109.2	94.0	81.6	66.8	71.7	76.9	91.7	
BASIC IRON AND STEEL		1.34	105.5	94.0	91.7	96.7	100.7	103.8	100.8	85.2	72.6	63.1	65.7	74.0	85.1	
PIG IRON		.46	99.3	86.9	85.6	88.4	91.3	95.5	92.7	79.3	64.7	56.7	58.6	63.8	75.5	
RAW STEEL		.72	114.8	101.5	97.9	105.6	110.7	114.0	109.8	90.7	78.2	67.5	71.1	83.0	96.0	
COKE AND PRODUCTS		.16	81.8	80.4	81.1	80.2	82.0	81.1	82.9	77.3	69.5	61.5	61.8	62.1	63.3	
STEEL MILL PRODUCTS		2.01	120.8	107.7	113.5	108.9	111.7	129.2	114.9	99.9	87.6	69.2	75.7	78.9	96.0	
CONSUMER DUR. STEEL		.31	109.8	85.8	79.8	84.3	83.0	95.4	80.9	58.9	54.2	40.1	52.9	59.2	77.6	
EQUIPMENT STEEL		.51	129.9	122.4	137.1	128.8	130.6	148.7	136.6	125.4	107.6	77.5	83.0	86.3	99.8	
CONSTRUCTION STEEL		.41	81.1	79.6	78.7	71.5	78.6	84.0	78.0	66.7	58.7	49.9	53.7	57.8	67.3	
CAN & CLOSURE STEEL		.13	85.7	74.1	77.4	85.7	79.0	108.6	70.2	72.2	58.4	53.6	58.1	53.0	58.1	
MISC. STEEL		.65	150.9	131.2	140.4	133.4	140.6	162.7	146.5	125.9	112.0	92.1	98.4	101.0	127.8	
IRON & STEEL FOUNDRIES	332	.87	107.7	96.9	79.9	88.0	93.4	101.0	91.3	79.7	76.7	59.0	73.2	79.9	88.8	86.6

Table 4A—continued
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES
 Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1979	1979	1980											
		PRO- TION	POB- AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
NONFERROUS METALS 333-6,9		2.36	135.8	132.7	131.1	133.4	127.4	128.0	122.0	116.4	118.1	107.3	104.5	107.1	113.5	122.9
PRIMARY NONF. METALS 333		.45	139.5	141.8	135.9	137.1	137.1	139.9	139.1	137.4	141.7	121.3	114.9	118.5	121.4	129.3
COPPER 3331		.09	145.9	155.7	144.8	157.5	147.3	145.1	154.8	141.8	157.9	61.4	30.8	38.5	65.3	106.3
ALUMINUM 3334		.27	153.6	154.1	153.4	152.8	156.3	159.3	158.0	158.8	159.3	155.3	155.7	156.8	155.9	155.7
SECONDARY NONF. METALS 334		.09	167.9	165.4	172.1	165.3	148.5	152.0	146.0	130.5	138.9	137.7	139.5	150.7		
NONFERROUS PRODUCTS 335,6		1.45	140.9	136.1	134.9	139.0	129.9	130.0	120.8	115.3	116.4	103.3	103.4	106.3	115.3	127.4
NONFERROUS MILL PROD 335		1.09	153.9	149.6	149.1	154.7	143.0	141.8	133.5	129.0	132.9	115.0	113.2	116.6	126.5	138.2
COPPER MILL PROD		.48	132.5	127.7	130.2	126.6	115.7	112.1	104.3	111.5	129.4	69.9	64.4	64.4	77.4	104.4
ALUMINUM MILL PROD		.61	170.6	166.7	164.0	176.8	164.5	165.1	156.5	142.7	135.6	150.3	151.5	157.6	164.9	164.8
CONSTRUCTION 336		.13	194.4	198.9	188.8	206.7	192.6	184.5	175.3	148.9	145.2	154.3	152.1	173.9	186.8	193.6
NONCONSTRUCTION 336		.48	164.2	158.0	157.3	168.7	156.8	159.8	151.3	141.0	132.9	149.2	151.3	153.2	159.0	156.9
NONFERROUS FOUNDRIES 336		.35	100.5	94.2	90.5	89.9	89.2	93.4	81.0	72.7	65.0	66.9	73.1	74.3	80.4	93.9
FABRICATED METAL PRODUCTS 34		5.93														
METAL CANS 341		.38	139.0	138.0	135.0	139.8	137.3	136.0	134.5	127.7	119.3	118.9	119.8	121.2	125.6	124.4
PIPE, PLUMB, STRUCT. MET 342-4		2.67	156.3	154.3	154.9	155.3	154.1	154.3	150.0	143.3	136.5	133.4	135.9	139.6	140.7	142.4
HARDWARE, TOOLS, CUTL 342		.76	137.0	133.8	134.9	130.4	131.5	132.7	128.5	119.8	114.4	110.9	116.4	122.0	121.6	126.5
STRUCTURAL METAL PROD 344		1.62	167.1	166.4	165.6	168.4	166.8	166.3	163.2	157.5	150.5	147.7	148.2	152.0	153.2	153.9
OTHER FAB. MET. PROD. 345-9		2.89	142.6	140.0	139.1	137.3	139.1	137.7	134.5	125.1	118.0	115.4	117.7	121.7	126.5	128.0
FASTENERS, STAMP, ETC 345-8		2.03	131.1	127.4	126.5	123.7	125.6	124.9	121.0	111.2	104.5	102.7	106.4	108.5	113.2	114.9
NONELECTRICAL MACHINERY 35		9.15														
ENGINE AND FARM EQUIP. 351,2		1.20	174.3	164.1	164.5	166.9	161.8	162.1	155.5	158.3	152.2	151.6	140.3	146.8	148.0	151.1
FARM TRACTORS 351		.19	107.8	97.1	106.4	98.5	88.2	99.7	75.1	80.7	78.7	91.6	49.5	66.8	74.9	75.6
CONSTRUCTION & ALLIED EQ 353		1.36	155.4	144.8	138.7	155.9	160.9	161.0	160.1	155.2	153.5	149.8	146.4	145.2	142.7	141.3
TRACKLaying TRACTORS 353		.16	99.4	57.1	59.6	92.9	96.0	107.4	104.2	106.2	100.7	95.2	86.2	93.2	69.6	70.7
METALWORKING MACHINERY 354		1.67	126.7	131.1	127.3	129.9	132.0	131.8	129.9	129.2	124.4	123.7	124.3	122.6	120.0	122.9
SPEC. & GEN. IND. EQ 355,6		2.30	129.3	131.7	131.5	132.1	133.1	132.1	128.1	124.7	121.7	123.3	122.4	120.7	121.4	122.5
OFFICE, SERV., & MISC. 357-9		2.63	216.9	219.1	223.8	230.0	227.6	231.5	223.5	221.8	216.7	218.3	227.1	228.8	236.6	238.1
ELECTRICAL MACHINERY 36		8.05														
MAJOR ELECT. EQ. & PTS. 361,2		1.74	149.4	155.4	153.3	154.9	154.4	151.2	143.6	141.5	136.7	133.8	138.2	136.5	137.3	143.2
HOUSEHOLD APPLIANCES 363		.83	150.2	150.5	170.2	155.4	149.8	149.5	138.8	115.6	118.4	109.7	133.4	135.0	142.9	141.9
COOKING STOVES 3631		.08	136.0	136.7	152.2	137.6	136.6	148.5	136.3	105.2	101.4	103.2	108.2	107.8	117.8	112.1
REFRIGERATION APPL. 3632		.26	129.9	127.4	169.7	131.6	124.7	130.5	118.6	80.9	87.5	83.7	112.8	108.9	128.2	119.7
LAUNDRY APPLIANCES 3633		.13	137.3	147.2	170.0	160.6	147.1	134.8	121.8	77.7	99.0	98.1	107.2	139.3	143.1	140.6
MISC. APPLIANCES 3634-6,9		.36	173.2	171.4	175.0	175.1	172.3	169.1	160.5	157.7	152.3	134.8	164.2	158.9	159.4	165.6
TV AND RADIO SETS 365		.52	96.5	92.7	101.0	83.2	88.9	89.4	87.2	86.8	95.0	100.9	78.6	90.3	95.1	106.9
COMMUNICATION EQUIPMENT 366		2.30	148.4	152.1	153.4	156.9	156.5	156.7	158.3	155.7	154.1	154.9	153.5	152.4	152.3	155.2
ELECTRONIC COMPONENTS 367		1.43	295.9	311.4	317.8	324.0	324.1	320.8	323.8	312.4	299.2	297.0	288.3	286.1	289.3	294.6
TV TUBES 3671-3		.31	39.1	49.6	43.6	47.6	43.2	34.4	44.1	40.5	33.9	50.0	37.3	33.7	49.2	
MISC. ELECTRICAL SUPP. 369		.49	185.0	173.3	174.8	168.3	165.6	176.0	166.3	157.2	153.5	151.2	164.2	166.0	174.1	180.4
STORAGE BATTERY, REPL. 3691		.09	217.2	211.9	195.9	158.7	161.0	200.3	197.5	187.8	195.3	205.6	224.3	221.5	227.0	245.5
TRANSPORTATION EQUIPMENT 37		9.27														
MOTOR VEHICLES AND PARTS 371		4.50														
AUTOS, TOTAL		1.90	136.7	118.3	110.2	98.0	116.8	114.9	97.1	88.4	95.7	105.2	91.3	98.0	110.7	114.3
LARGE AUTOS		1.79	83.5	70.8	59.0	51.2	60.5	58.6	45.9	38.1	46.4	55.1	44.4	53.1	58.6	60.4
SMALL AUTOS		.11	11.9	89.8	952.6	866.3	1042.4	1041.1	938.2	914.7	906.8	928.2	862.2	836.0	967.4	1000.3
TRUCKS AND BUSES		.53	212.5	156.6	161.2	132.4	143.7	123.7	102.6	97.7	93.2	90.5	95.2	114.8	133.6	142.5
BUSINESS VEHICLES		.40	146.9	104.1	120.6	88.7	112.7	90.0	77.8	78.9	85.2	79.3	82.1	81.7	92.4	
UTILITY VEHICLES		.13	408.8	313.8	282.6	263.2	236.5	224.7	177.1	154.0	117.3	123.9	134.4	214.0	256.7	
TRUCK TRAILERS		.09	246.0	233.6	223.6	197.8	167.4	182.9	161.1	152.6	143.5	110.6	130.7	149.9	156.4	160.0
MOTOR VEHICLE PARTS		1.98	164.3	150.6	152.7	148.5	146.1	144.1	132.9	122.8	119.2	115.0	118.3	126.3	133.3	138.5
AIRCRAFT AND PARTS 372		3.73	100.0	104.8	107.0	105.8	106.5	107.2	106.0	105.8	105.3	103.9	104.7	105.4	106.4	108.0
SHIPS AND BOATS 373		.56	148.4	152.9	148.6	151.4	152.8	150.3	143.2	140.4	137.7	139.7	138.9	142.0	144.1	145.0
RAIL & MISC. TRANS. EQ 374,5,9		.49	164.6	172.3	164.2	168.9	162.3	161.3	156.8	143.4	151.7	164.3	147.9	139.8	137.0	132.1
RAILROAD EQUIPMENT 374		.26	164.2	176.7	166.6	174.8	167.5	171.8	184.2	169.4	182.8	192.6	153.1	133.5	128.9	
MOBILE HOMES 379		.18	122.9	116.8	112.4	123.2	118.7	105.9	85.0	75.6	74.3	89.2	100.1	106.0	108.2	
INSTRUMENTS 38		2.11														
EQUIPMENT INSTR. & PTS. 381-4		1.07	185.3	186.8	190.0	190.7	190.8	187.8	188.0	185.7	181.3	181.0	182.7	183.6	184.9	188.3
CONSUMER INSTR. PROD. 385-7		1.04	164.1	159.1	158.6	161.8	159.5	160.1	159.6	156.1	155.8	152.7	153.4	150.0	153.6	154.8
MISC. MANUFACTURES 39		1.51														
MISC. CONS. GOODS 391,3,4,6		.86	156.7	161.0	158.3	156.4	156.6	157.8	153.1	151.6	146.8	148.8	150.6	144.3	147.2	153.0
MISC. BUS. SUPPLIES 395,9		.65	149.9	148.1	148.6	150.8	147.1	147.6	146.4	139.9	139.9	140.7	140.6	141.1	142.4	145.3
ELECTRIC UTILITIES 398		3.88	185.8													
ELEC. UTIL. GENERATION		1.90	181.9	180.8	181.0	178.0	182.6	189.8	178.7	179.4	186.7	187.8	191.2	185.1	181.3	
FOSSIL FUEL GENERATION		1.54	169.9	1681												

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES		SIC CODE	1967 PRO- POR- TION	1979 AVG.	1979 NOV.	1979 DEC.	1980 JAN.	1980 FEB.	1980 MAR.	1980 APR.	1980 MAY	1980 JUNE	1980 JULY	1980 AUG.	1980 SEP.	1980 OCT.	1980 NOV.
NONFERROUS METALS 333-6,9			2.36	135.8	128.5	123.2	130.2	132.0	137.3	130.8	123.9	123.3	94.9	100.5	106.2	113.4	118.7
PRIMARY NONF. METALS 333			.45	139.5	145.2	138.7	140.1	139.6	140.8	142.2	139.0	139.3	115.0	111.8	116.6	123.3	132.0
COPPER 3331			.09	145.9	162.2	145.9	157.9	154.0	156.2	170.0	153.5	155.5	46.6	27.7	37.6	66.7	109.4
ALUMINUM 3334			.27	153.6	157.5	156.6	155.2	156.5	156.4	156.7	157.8	158.0	153.6	153.5	155.9	157.3	159.1
SECONDARY NONF. METALS 334			.09	167.9	168.1	157.4	158.4	159.9	162.2	154.3	133.9	146.6	114.1	137.0	149.4		
NONFERROUS PRODUCTS 335,6			1.45	140.9	127.0	121.7	133.6	135.1	143.3	133.6	126.3	124.3	91.0	99.0	104.8	113.6	118.9
NONFERROUS MILL PROD 335			1.09	153.9	138.1	134.7	147.0	146.9	157.0	149.2	142.5	142.2	103.0	108.8	114.8	123.1	127.5
COPPER MILL PROD			.48	132.5	118.9	117.9	122.7	118.2	135.0	123.7	127.3	134.6	54.9	56.5	61.7	75.4	97.2
ALUMINUM MILL PROD			.61	170.6	153.1	147.9	166.0	169.5	174.3	169.2	154.5	148.1	140.8	149.8	156.5	160.6	151.3
CONSTRUCTION			.13	194.4	184.4	159.1	185.5	192.5	195.6	190.1	161.5	161.7	146.4	158.9	173.6	185.9	179.5
NONCONSTRUCTION			.48	164.2	144.6	144.9	160.7	163.2	168.5	163.5	152.6	144.4	139.3	147.3	151.8	153.7	143.6
NONFERROUS FOUNDRIES 336			.35	100.5	92.5	81.0	91.8	98.3	100.7	85.1	75.7	68.7	53.4	68.5	73.7	83.7	92.2
FABRICATED METAL PRODUCTS 34			5.93														
METAL CANS 341			.38	139.0	132.8	124.9	131.3	135.0	133.0	131.3	127.1	123.7	127.1	128.8	127.5	126.7	119.7
HDWE, PRUNE, STRUCT, MET 342-4			2.67	156.3	157.7	155.4	151.9	157.1	156.7	149.1	141.9	136.5	128.1	134.0	141.3	143.4	145.5
HARDWARE, TOOLS, CUTL 342			.76	137.0	136.2	132.5	126.8	133.8	135.1	128.7	119.4	114.6	107.1	112.9	124.9	125.3	128.8
STRUCTURAL METAL PROD 344			1.62	167.1	170.2	168.0	165.4	169.7	168.6	161.5	155.9	150.5	141.5	147.6	152.5	155.3	157.4
OTHER FAB. MET. PROD. 345-9			2.89	142.6	141.7	137.4	131.6	141.3	140.4	135.2	125.6	120.3	111.4	115.8	123.4	128.3	129.5
FASTENERS, STAMP, ETC 345-8			2.03	131.1	129.4	124.8	117.7	127.7	127.3	121.8	111.8	106.7	98.5	104.4	110.3	115.4	116.7
NONELECTRICAL MACHINERY 35			9.15														
ENGINE AND FARM EQUIP. 351,2			1.20	174.3	162.0	164.9	167.5	167.3	167.6	156.4	156.2	154.8	140.4	133.4	150.9	150.2	149.6
FARM TRACTORS			.19	107.8	83.5	90.2	105.9	101.7	113.6	85.9	85.5	89.7	59.9	39.4	69.5	81.6	65.0
CONSTRUCTION & ALLIED EQ 353			1.36	155.4	149.0	141.1	149.3	162.4	159.3	158.4	152.5	155.1	145.3	143.1	151.5	146.7	145.7
TRACKING TRACTORS			.16	99.4	53.3	55.9	91.6	108.9	115.4	112.4	109.9	108.5	80.0	72.3	96.0	71.9	66.0
METALWORKING MACHINERY 354			1.67	126.7	131.0	124.2	126.1	133.6	132.1	129.9	126.5	126.1	122.0	124.2	127.0	122.9	122.8
SPEC. & GENL IND EQ 355,6			2.30	129.3	133.3	129.5	128.0	133.6	131.4	127.3	124.1	124.4	120.8	122.0	125.2	122.7	124.0
OFFICE, SERV. & MISC. 357-9			2.63	126.9	217.5	210.8	214.4	222.8	222.0	217.9	217.4	225.3	231.3	236.7	242.6	243.4	236.7
ELECTRICAL MACHINERY 36			8.05														
MAJOR ELECT. EQ. & PTS. 361,2			1.74	149.4	153.3	147.4	148.3	150.6	149.7	144.1	141.7	141.1	135.6	138.7	141.2	142.7	141.3
HOUSEHOLD APPLIANCES 363			.83	150.2	143.2	137.1	152.2	157.2	157.8	148.2	118.8	124.0	101.4	124.3	138.1	154.7	135.4
COOKING STOVES 3631			.08	136.0	129.7	122.5	136.2	144.3	153.3	147.6	115.2	111.9	84.0	105.5	108.5	129.7	104.9
REFRIGERATION APPL. 3632			.26	129.9	108.2	117.0	136.4	132.4	146.1	137.2	93.4	104.7	89.1	78.6	103.8	130.0	102.5
LAUNDRY APPLIANCES 3633			.13	137.3	128.9	125.5	150.2	151.9	145.6	133.7	84.4	101.4	78.8	124.9	142.0	160.9	123.1
MISC. APPLIANCES 3634-6,9			.36	173.2	177.4	159.6	168.4	180.3	172.0	161.9	151.3	149.6	122.9	162.1	168.7	176.4	171.4
TV AND RADIO SETS 365			.52	96.5	98.5	87.6	77.8	87.5	88.3	83.5	90.9	94.5	77.8	84.3	103.3	109.8	113.5
COMMUNICATION EQUIPMENT 366			2.30	148.4	155.8	159.1	156.3	156.5	156.7	154.5	153.5	154.5	150.5	152.5	153.1	153.5	158.8
ELECTRONIC COMPONENTS 367			1.43	295.9	319.0	323.4	318.7	318.0	314.3	317.1	310.6	304.4	286.4	291.5	291.7	296.5	301.6
TV TUBES 3671-3			.31	39.1	48.2	32.1	46.1	42.7	35.0	46.5	44.6	33.6	37.9	40.4	39.2	57.1	
MISC. ELECTRICAL SUPP. 369			.49	185.0	184.7	188.6	167.3	163.1	166.5	156.3	147.5	147.3	141.3	164.7	179.3	186.8	192.9
STORAGE BATTERY, REPL. 3691			.09	217.2	250.2	235.2	178.6	163.5	162.6	146.5	134.6	155.8	164.7	233.9	281.3	293.3	289.9
TRANSPORTATION EQUIPMENT 37			5.27														
MOTOR VEHICLES AND PARTS 371			4.50														
AUTOS, TOTAL			1.90	136.7	122.4	92.2	97.5	125.1	128.4	110.0	99.3	106.9	76.3	61.6	103.4	124.4	119.3
LARGE AUTOS			1.79	83.5	72.9	50.9	53.4	68.7	65.9	52.8	42.5	52.2	37.5	23.1	57.6	66.2	62.9
SMALL AUTOS			.11	11.9	935.8	771.6	823.0	1052.8	1155.6	1050.8	1033.6	1006.6	714.7	694.1	856.9	1081.6	1047.3
TRUCKS AND BUSES			.53	212.5	155.2	133.2	131.6	164.4	138.4	111.0	99.3	100.1	79.5	79.1	113.2	145.9	137.5
BUSINESS VEHICLES			.40	146.9	101.8	98.9	91.4	135.4	103.5	83.2	78.9	90.5	66.6	66.9	81.7	101.2	
UTILITY VEHICLES			.13	408.8	315.1	235.7	251.9	251.2	242.7	194.1	160.2	129.0	118.2	115.6	207.6	279.8	
TRUCK TRAILERS			.09	246.0	225.8	197.4	172.6	183.2	202.0	177.6	158.2	153.7	102.0	130.2	144.8	153.6	154.7
MOTOR VEHICLE PARTS			1.98	164.3	152.4	158.8	145.1	143.1	142.9	133.1	124.8	121.8	114.0	114.3	126.4	133.9	140.1
AIRCRAFT AND PARTS 372			3.73	100.0	106.5	109.6	106.5	107.2	107.7	105.0	106.0	105.3	101.7	101.9	105.0	105.7	109.7
SHIPS AND BOATS 373			.56	148.4	155.1	154.1	147.2	152.3	150.6	147.1	142.5	140.0	137.3	132.3	138.6	145.6	147.2
RAIL & MISC TRANS EQ 374,5,9			.49	164.6	172.6	158.2	150.2	156.7	174.3	169.4	147.1	157.5	144.8	146.9	143.7	140.8	130.8
RAILROAD EQUIPMENT 374			.26	164.2	185.0	181.4	171.7	162.3	195.0	196.7	168.6	180.8	164.7	140.7	130.8	125.4	
MOBILE HOMES 379			.18	122.9	105.3	81.3	92.5	105.5	107.6	97.3	82.8	86.4	87.1	112.6	115.4	121.7	
INSTRUMENTS 38			2.11														
EQUIPMENT INSTR. & PTS. 381-4			1.07	185.3	189.4	188.7	182.4	187.1	185.0	184.9	184.6	186.4	181.5	184.7	190.3	187.9	190.9
CONSUMER INSTR. PROD. 385-7			1.04	164.1	162.2	160.9	157.8	156.9	157.7	156.7	155.7	158.3	151.7	154.3	152.1	155.6	157.9
MISC. MANUFACTURES 39			1.51														
MISC. CONS. GOODS 391,3,4,6			.86	156.7	162.8	150.4	142.7	154.6	153.4	150.8	150.7	151.6	142.9	157.0	159.0	154.4	154.7
MISC. BUS. SUPPLIES 395,9			.65	149.9	148.9	145.2	144.7	145.8	148.1	144.3	137.6	142.0	139.1	144.0	146.0	146.7	146.0
ELECTRIC UTILITIES			3.88	185.8													
ELEC UTIL GENERATION			1.90	181.9	172.7	184.0	187.5	191.1	182.7	164.3	164.9	191.9	202.5	209.7	186.4	167.5	
FOSSIL FUEL GENERATION			1.54	169.9	162.2	173.7	178.3	184.0	171.1	148.2	147.8	178.2	196.4	203.9	178.5	156.7	
HYDRO & NUCLEAR GENERAT.			.36	233.3	218.0	228.3	227.3	221.6	232.5	233.4	238.4	250.6	228.7	234.8	220.4	213.8	
ELEC UTIL SALES			1.98	189.6	175.6	189.1	203.0	198.4	194.0	176.5	168.0	181.9	213.3	226.7	216.0		
RESIDENTIAL KWH			.83	199.5	174.5	206.0	232.2	227.4	213.3	182.5	163.4	184.3	241.9	264.1	239.7		
NONRESIDENTIAL KWH			1.15	182.5	176.3	177.0	182.1	177.6	180.1	172.2	171.1	180.1	192.7	199.8	199.0		
SIC KWH			.47	156.5	157.4	151.9	150.8	151.2	154.2	153.0	150.2	147.2	140.6	144.9	150.6		
COMMERCIAL & OTHER KWH			.65	199.8	188.6	194.2	203.3	194.7	197.3	184.7	184.6	202.0	227.8	237.5	231.6		
GAS UTILITIES			1.81	123.7													
GAS TRANSMISSION			.65	132.8	134.2	153.3	169.4	174.4									
GAS SALES			1.17	118.7													
RESIDENTIAL GAS			.62	116.0													

Table 5
INDUSTRIAL PRODUCTION: INDEXES; 1967=100
Quarterly averages, seasonally adjusted

SUMMARY GROUPINGS	1979		1980			
	III	IV	I	II	III	IV
TOTAL INDEX	152.6	152.5	152.5	144.6	142.1	148.9
PRODUCTS, TCIAL	149.8	149.9	150.0	144.3	144.0	148.5
FINAL PRODUCTS	146.8	147.2	147.5	143.6	143.0	147.0
CONSUMER GOODS	150.0	149.2	148.3	143.3	143.0	147.7
DURABLE CONSUMER GOODS	152.4	149.8	143.6	131.1	129.9	140.8
AUTOMOTIVE PRODUCTS	157.7	150.5	138.1	122.1	127.1	142.0
HOME GOODS	149.4	149.4	146.7	136.2	131.4	140.2
NONDURABLE CONSUMER GOODS	149.0	149.0	150.1	148.0	148.2	150.4
CLOTHING	131.3	131.3	130.9	127.8	122.7	
CONSUMER STAPLES	153.9	153.9	155.5	153.7	155.2	156.8
CCSUMER ENERGY	150.1	151.6	151.7	151.3	153.8	
(HOME GOODS AND CLOTHING)	141.1	141.1	139.5	132.3	127.4	134.3
EQUIPMENT	142.6	144.3	146.3	144.1	143.0	146.0
BUSINESS EQUIPMENT	172.1	173.0	175.7	172.0	170.3	173.4
INDUSTRIAL EQUIPMENT	152.1	152.8	158.6	157.4	154.5	155.8
COMMERCIAL, TRANSIT, FARM EQ.	195.2	196.3	195.4	188.8	188.5	193.7
DEFENSE AND SPACE EQUIPMENT	92.9	96.2	97.1	97.2	97.2	100.0
INTERMEDIATE PRODUCTS	160.7	160.1	159.4	146.8	147.6	153.9
CONSTRUCTION SUPPLIES	158.1	157.0	154.2	133.6	133.0	142.7
BUSINESS SUPPLIES	163.3	163.3	164.6	159.9	162.0	
COMMERCIAL ENERGY PRODUCTS	170.3	173.0	172.7	171.8	173.7	
MATERIALS	156.9	156.5	156.3	145.1	139.2	149.6
DURABLE GOODS MATERIALS	158.6	156.3	155.0	140.6	131.5	145.1
BASIC METAL MATERIALS	127.0	119.8	117.3	101.7	88.6	
NONDURABLE GOODS MATERIALS	176.8	179.2	179.3	166.0	161.9	175.1
TEXTILE, PAPER AND CHEMICAL MAT	185.0	187.9	187.5	171.9	165.6	182.3
TEXTILE MATERIALS	122.7	123.8	120.6	116.4	113.4	
PAPER MATERIALS	146.8	148.9	146.1	142.1	142.9	
CHEMICAL MATERIALS	227.7	231.8	233.6	208.3	197.9	
ENERGY MATERIALS	128.2	129.0	130.8	130.0	129.6	129.1
MANUFACTURING	153.7	153.4	152.8	143.9	141.0	148.5
DURABLE	145.8	145.3	144.1	133.9	129.8	138.1
NONDURABLE	165.1	165.0	165.5	158.3	157.3	163.6
MINING AND UTILITIES	144.1	147.1	149.5	149.9	150.4	152.0
MINING	125.6	129.7	133.1	133.1	130.2	134.8
UTILITIES	164.7	166.6	168.0	168.7	172.8	171.3

Table 7
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS
Billions of 1972 dollars at annual rates, seasonally adjusted

MAJOR MARKET GROUPINGS	1972	1979	1979	1980												
	DOLS-1	1979	1979	1980	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	
PRODUCTS, TCIAL	507.4	625.3	619.7	615.8	619.8	619.0	599.5	588.6	585.0	586.7	585.9	593.3	604.0	611.4	613.6	
FINAL PRODUCTS	390.9	480.8	476.1	471.2	476.4	475.9	464.5	457.3	455.6	456.9	453.0	458.0	467.0	473.0	473.9	
CONSUMER GOODS	277.5	327.1	322.1	317.6	320.0	321.3	312.5	306.3	305.8	307.7	305.1	309.0	316.1	320.1	321.0	
DURABLE CONSUMER GOODS	82.0	93.6	86.3	82.1	85.3	85.2	79.0	73.9	74.4	76.0	74.1	77.5	82.1	84.3	82.8	
AUTOMOTIVE PRODUCTS	41.1	46.5	38.8	35.5	39.3	39.2	34.3	31.7	33.0	35.6	32.8	35.3	38.8	40.0	37.8	
HOME GOODS	40.9	47.0	47.5	46.7	46.0	46.0	44.7	42.2	41.4	40.4	41.3	42.1	43.3	44.3	44.9	
NONDURABLE CONSUMER GDS	195.5	233.6	235.8	235.4	234.7	236.1	233.6	232.4	231.4	231.7	231.0	231.5	233.9	235.7	238.2	
CLOTHING	28.5	33.9	34.3	33.3	33.0	33.5	32.6	32.1	32.5	31.1	31.8	31.4	31.8			
CONSUMER STAPLES	167.0	199.7	201.5	202.2	201.7	202.6	200.9	200.3	198.9	200.6	199.2	200.2	202.1	203.3	205.1	
CCSUMER ENERGY PROD	39.2	44.3	44.2	44.2	44.0	44.0	43.9	43.1	43.7	43.1	43.4	44.1	43.1	43.8		
(HOME GOODS & CLOTHING)	69.4	80.9	81.8	79.9	79.1	79.6	77.4	74.3	74.0	71.5	73.1	73.5	75.1	76.8	78.1	
EQUIPMENT	113.4	153.6	154.0	153.6	156.3	154.6	152.0	151.0	149.8	149.2	147.9	149.0	150.9	152.9	153.9	
BUSINESS EQUIPMENT	80.6	114.4	113.3	112.8	115.4	113.7	110.9	110.1	109.1	108.4	107.2	108.0	109.4	110.7	110.4	
INDUSTRIAL EQUIPMENT	34.4	48.8	48.4	50.3	51.0	51.3	51.0	50.5	49.6	49.6	49.2	49.3	49.2	49.7	50.2	
COM'L, TRANSIT, FARM EQ	46.2	65.6	64.9	62.5	64.4	62.5	60.0	59.6	59.5	58.8	58.0	58.7	60.2	61.0	60.1	
DEFENSE & SPACE EQUIP.	32.7	39.3	40.7	40.8	40.9	40.9	41.0	40.9	40.7	40.7	40.7	41.0	41.5	42.2	42.6	
INTERMEDIATE PRODUCTS	116.6	144.6	143.6	144.6	143.4	143.1	135.0	131.3	129.4	129.9	132.9	135.3	137.0	138.4	139.6	
CONSTRUCTION SUPPLIES	57.8	67.8	66.5	67.1	66.0	65.4	58.7	56.1	54.8	54.7	57.2	58.9	60.1	61.0	61.4	
BUSINESS SUPPLIES	58.8	76.7	77.1	77.5	77.4	77.7	76.2	75.2	74.6	75.2	75.7	76.5	76.8	77.5		
COMMERCIAL ENERGY PROD	15.6	18.9	19.3	19.2	19.0	19.2	19.2	19.0	18.4	18.8	19.0	19.2	19.1	19.2		

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

	1979		1980			
	III	IV	I	II	III	IV
	621.8	620.7	618.2	591.0	588.7	609.7
	477.5	476.8	474.5	459.1	456.0	471.3
	324.5	323.3	319.6	308.2	307.3	319.0
	90.9	88.6	84.2	75.8	75.9	83.1
	44.0	41.5	38.0	33.0	34.6	38.9
	47.0	47.1	46.2	42.8	41.3	44.2
	233.6	234.7	235.4	232.5	231.4	236.0
	33.9	33.9	33.3	32.4	31.4	
	199.7	200.8	202.1	200.0	200.0	203.5
	43.7	44.0	44.1	43.3	43.7	
	80.9	81.0	79.5	75.2	72.7	76.7
	153.0	153.5	154.9	150.9	148.7	152.3
	113.9	113.1	114.0	110.1	107.9	110.2
	48.8	48.6	50.9	50.4	49.4	49.7
	65.1	64.5	63.1	59.7	58.5	60.5
	39.0	40.5	40.9	40.9	40.8	42.1
	144.4	143.9	143.7	131.9	132.7	138.4
	67.8	67.0	66.2	56.5	56.9	60.8
	76.6	76.9	77.6	75.3	75.8	
	18.5	19.2	19.1	18.9	19.0	

Table 8

INDUSTRIAL PRODUCTION: DIFFUSION INDEXES

Percent of component series higher than in earlier months

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1967-79			
AVERAGE	55.3	58.8	61.6
HIGH	71.7	78.7	82.8
LOW	22.6	15.7	14.7
1978			
NOVEMBER	57.9	66.8	72.6
DECEMBER	70.2	73.8	76.6
1979			
JANUARY	53.0	61.5	69.8
FEBRUARY	57.4	58.3	68.9
MARCH	66.4	62.1	68.1
APRIL	30.0	48.3	56.4
MAY	63.0	50.2	58.7
JUNE	52.8	46.0	52.1
JULY	53.6	61.1	53.4
AUGUST	42.6	51.7	52.6
SEPTEMBER	52.3	50.9	49.6
OCTOBER	55.3	50.2	61.5
NOVEMBER	51.7	53.4	54.9
DECEMBER	55.1	54.5	53.4
1980			
JANUARY	56.0	53.0	53.0
FEBRUARY	44.5	48.9	49.6
MARCH	50.9	45.7	48.7
APRIL	27.0	27.2	30.6
MAY	28.3	21.7	27.0
JUNE	32.8	18.3	22.1
JULY	43.8	29.6	24.0
AUGUST	60.0	40.4	22.1
SEPTEMBER	67.4	63.0	27.2
OCTOBER	62.8	68.5	43.2
NOVEMBER	72.1	79.8	63.6

NOTE: THE DIFFUSION INDEXES SHOW THE PERCENT OF THE INDUSTRIAL PRODUCTION INDEX'S 235 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 9A
ELECTRIC POWER USE BY INDUSTRIES
Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1979 AVG.	1979 Q 3	1979 Q 4	1980 Q 1	1980 Q 2	1980 Q 3	1980 JUNE	1980 JULY	1980 AUG	1980 SEP	1980 OCT	1980 NOV	PERCENT CHG. FROM PREV. MO. (P)	PERCENT CHG. FROM PREV. YR. (P)
TOTAL		560.4	142.9	143.5	141.7	140.9	136.4	133.1	134.1	131.3	132.2	135.7	133.2	136.4	2.5	-4.0
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	153.5	152.7	151.7	152.9	144.7	148.0	142.8	146.0	148.6	149.4	147.1	147.7	.4	-2.1
FINAL PRODUCTS		101.4	151.3	150.4	149.2	150.3	143.3	146.8	141.7	144.7	147.6	148.1	145.5	145.9	.3	-1.4
CONSUMER GOODS		67.4	159.0	157.7	156.3	156.6	148.2	152.1	146.2	149.7	152.9	153.7	150.2	150.7	.3	-2.8
EQUIPMENT		34.0	131.6	131.4	131.2	134.2	131.0	133.1	130.0	131.9	134.0	133.5	133.5	134.0	.3	2.9
INTERMEDIATE PRODUCTS		34.7	160.2	160.1	159.4	160.6	148.8	151.7	146.6	149.7	151.7	153.7	152.1	153.0	.6	-4.0
MATERIALS		424.3	139.4	140.4	138.4	137.0	133.6	128.0	131.1	126.5	126.7	130.9	128.4	132.8	3.5	-4.7
DURABLE		237.7	139.1	140.7	139.7	139.0	131.5	126.0	127.6	124.1	125.3	128.7	128.4	134.8	4.9	-4.0
NONDURABLE		133.0	141.7	142.4	143.0	143.2	137.4	133.2	135.8	131.9	131.9	135.8	136.4	138.9	1.8	-2.6
ENERGY, EX. ERDA		23.8	168.4	166.5	170.3	170.5	176.3	170.6	178.6	174.1	169.7	167.9	167.6	173.6	3.6	-.3
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	173.1	171.9	177.4	180.4	175.4	164.6	173.7	167.1	164.4	162.2	164.3	168.7	2.7	-5.6
MANUFACTURING		519.2	141.2	141.8	139.6	139.0	133.8	131.3	131.4	129.3	130.2	134.3	130.9	134.7	2.9	-4.0
DURABLE	19, 24-25, 32-39	254.1	140.1	140.8	139.2	138.9	130.5	128.0	126.8	125.6	127.7	130.8	129.6	134.8	4.0	-3.3
NONDURABLE	20-23, 26-31	265.1	142.3	142.6	140.2	139.2	137.1	134.2	135.7	132.3	133.5	137.0	132.1	135.0	2.1	-4.6
UTILITIES, OWN USE	491, 2	6.5	140.1	140.1												
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	171.2	172.3	177.4	177.2	171.1	143.6	168.3	152.0	140.2	138.5	143.1	155.0	8.4	-14.2
IRON ORE	101	5.0	189.5	190.5	197.7	192.5	183.5	161.4	180.5	163.4	160.6	160.4	155.7	151.1	-2.9	-25.8
COPPER ORE	102	3.0	155.8	160.3	161.3	168.9	167.6	119.9	164.5	143.2	112.4	104.0	124.8	173.4	38.9	6.1
COAL	11, 2	5.9	191.7	189.0	199.9	204.0	198.0	197.0	195.9	198.2	197.1	195.9	193.1	201.0	4.1	-.5
OIL AND GAS EXTRACTION	13	11.9	173.0	172.7	173.9	176.0	177.0	177.9	177.9	179.0	179.1	175.6	176.0	174.2	-1.0	-.1
CRUDE OIL AND NAT. GAS	131	8.9	190.9	190.0	191.3	195.0	196.9	201.8	198.6	201.8	203.0	200.7	202.6	199.0	-1.8	3.4
NATURAL GAS LIQUIDS	132	2.5	123.0	123.0	124.8	123.0	125.2	116.2	126.8	122.7	117.3	108.7	110.2	110.3	.1	-11.5
STONE AND EARTH MINERALS	14	6.9	159.7	159.0	161.8	166.7	159.2	159.9	155.4	159.7	157.4	162.5	159.0	158.9	-.1	-2.5
CRUSHED STONE	142	1.5	166.8	166.5	170.7	181.2	158.0	153.3	151.6	151.5	151.9	156.4	158.7	157.1	-1.0	-7.0
SAND AND GRAVEL	144	1.1	143.5	142.4	145.1	149.0	138.1	137.7	136.5	139.6	133.4	139.9	138.8	137.5	-.9	-6.3
CHEMICAL MINERALS	147	3.4	162.6	162.9	164.4	167.3	167.6	170.5	165.9	173.8	168.4	169.4	165.9	164.8	-.7	-.1
ORDNANCE	19	4.1	106.0	107.1	103.3	104.5	104.2	109.8	103.6	110.6	106.7	112.0	110.0	112.0	1.8	11.1
FOODS	20	26.8	156.7	156.3	157.4	159.8	157.6	161.8	158.2	160.1	161.7	163.6	158.5	156.4	-1.3	-.4
MEAT PRODUCTS	201	4.2	166.3	164.5	166.0	170.0	168.2	168.7	168.2	167.6	168.1	170.5	165.3	163.0	-1.4	-1.4
DAIRY PRODUCTS	202	4.1	135.9	134.0	139.6	142.4	137.5	141.0	137.9	136.4	139.6	147.1	146.1	144.1	-1.4	3.5
CANNED AND FROZEN FOODS	203	3.2	185.0	186.4	183.7	193.9	192.4	196.9	195.0	198.3	198.7	193.8	190.9	190.5	-.2	4.6
GRAIN MILL PRODUCTS	204	4.8	148.9	149.5	148.7	148.7	145.5	150.8	144.9	148.9	148.3	155.2	149.2	146.8	-1.6	-.4
BAKERY PRODUCTS	205	1.8	133.8	132.2	133.7	135.7	138.0	143.2	139.3	142.4	143.0	144.3	144.3	144.1	-.1	9.1
SUGAR	206	1.2	221.6	241.0	215.9	220.7	267.2	291.4	324.2	281.1	285.5	307.8	205.3	210.7	2.6	-4.2
CONFECTIONERY	207	1.0	133.9	129.5	135.1	151.9	132.6	132.4	127.1	134.8	133.7	128.6	133.7	138.4	3.5	3.4
BEVERAGES	208	2.4	193.6	195.0	197.8	202.3	198.4	203.9	197.6	201.4	205.4	204.9	206.1	205.4	-.4	3.7
MISC. FOOD PRODUCTS	209	4.1	138.6	139.1	140.2	135.5	134.5	142.2	135.3	141.0	143.9	141.6	134.9	128.4	-4.8	-8.1
TOBACCO PRODUCTS	21	.9	125.5	123.2	121.7	125.4	124.4	125.5	125.0	125.4	125.6	125.5	126.4	130.8	3.5	7.5
TEXTILE MILL PRODUCTS	22	20.8	125.6	127.1	124.4	121.6	117.4	116.6	119.0	113.7	116.8	119.3	116.8	113.8	-2.6	-8.7
FABRICS	221-4	11.7	105.9	108.0	105.0	99.7	94.7	94.4	96.7	93.3	92.9	96.8	94.1	90.3	-4.0	-13.8
KNIT GOODS	225	1.7	162.7	162.4	161.4	163.5	153.6	147.3	154.2	143.4	149.4	149.1	150.1	152.3	1.4	-7.0
FABRIC FINISHING	226	1.5	152.7	155.1	156.9	160.0	159.1	156.3	158.2	161.5	151.4	156.0	155.7	153.5	-1.4	-1.6
YARN AND THREAD	228	3.9	163.3	164.0	161.2	160.1	162.5	159.5	164.4	150.9	162.9	164.8	162.4	156.8	-3.5	-2.9
MISC. TEXTILES	229	1.4	153.5	154.3	151.8	147.3	143.6	147.2	146.8	140.2	149.6	151.8	143.1	146.3	2.2	-6.4
APPAREL PRODUCTS	23	3.6	160.4	157.4	156.6	164.9	154.1	161.0	153.2	158.8	162.8	161.5	156.1	155.1	-.6	-.2
MEN'S OUTERWEAR	231, 2	1.0	144.1	142.6	138.7	148.6	144.6	156.0	147.1	159.4	155.7	152.8	144.5	143.0	-1.0	5.3
WOMEN'S OUTERWEAR	233	1.0	199.7	195.3	195.9	208.4	197.6	204.0	196.0	200.7	207.3	203.9	196.6	197.9	.7	1.6
LUMBER AND PRODUCTS	24	8.0	193.4	193.7	194.0	191.4	170.7	175.3	169.1	173.3	173.1	179.4	177.4	179.4	1.1	-7.7
LUMBER	242	3.9	181.4	183.1	181.2	180.3	159.0	160.6	159.1	161.8	158.8	161.0	158.0	160.8	1.8	-12.1
MILLWORK AND PLYWOOD	243	2.2	194.9	193.7	197.1	196.6	166.5	182.5	157.7	179.3	175.9	192.4	190.1	191.1	.6	-2.5
FURNITURE AND FIXTURES	25	2.5	163.7	163.2	164.6	166.1	157.5	154.3	154.0	150.1	155.1	157.7	159.5	157.5	-1.2	-3.6
HOME FURNITURE	251	1.7	180.8	179.7	179.4	179.5	169.6	165.4	163.4	159.8	165.8	170.7	172.6	173.3	.4	-3.9
PAPER AND PRODUCTS	26	49.1	124.4	125.0	124.3	124.6	122.2	124.0	122.9	123.7	123.5	124.7	122.2	125.3	2.6	.5
WOOD PULP	261	3.5	120.6	121.6	120.2	118.2	118.3	113.4	119.2	115.2	113.4	111.7	110.0	113.3	3.0	-7.0
PAPER	262	24.5	119.1	119.3	121.2	122.3	123.0	126.1	124.9	125.7	124.9	127.8	123.3	129.2	4.8	5.7
PAPERBOARD	263	14.8	142.0	143.4	141.7	137.4	134.7	138.2	133.8	138.3	136.0	140.3	135.8	138.7	2.2	-1.4
CONVERTED PAPER	264	2.5	143.7	147.3	141.4	142.4	136.4	138.2	136.8	139.6	139.5	135.7	134.7	134.4	-.2	-5.3
PAPERBOARD CONTAINERS	265	2.3	148.4	147.5	146.8	145.2	136.7	137.2	135.3	136.9	138.5	136.1	141.6	142.5	.6	-1.9
BUILDING PAPER AND BOARD	266	1.4	158.0	157.2	159.7	157.5	134.8	136.3	133.6	132.0	135.7	141.2	148.4	150.3	1.2	-5.7
PRINTING AND PUBLISHING	27	5.8	157.0	154.4	156.8	163.5	157.0	161.9	155.6	159.8	163.8	162.2	160.8	162.0	.8	3.6
NEWSPAPERS	271	1.7	138.3	134.4	136.7	142.0	139.2	140.9	141.2	140.3	140.1	142.3	139.8	136.8	-2.2	1.3
COMMERCIAL PRINTING	275	2.4	170.5	169.6	168.3	176.3	167.6	173.4	166.7	171.3	175.8	173.0	170.7	174.3	2.1	3.8

P--PRELIMINARY

Table 98

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1979 AVG.	1979			1980			1980					PERCENT CHG. FROM PREV.	
				Q 3	Q 4	Q 1	Q 2	Q 3	JUNE	JULY	AUG	SEP	OCT	NOV	MO. (P)	YR. (P)
TOTAL		560.4	142.9	142.7	143.0	139.4	137.3	132.4	134.6	128.9	132.2	136.0	136.8	137.9	.9	-4.0
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	153.5	157.3	153.1	147.2	144.6	152.4	147.0	147.0	153.0	157.3	153.1	150.6	-1.6	-2.1
FINAL PRODUCTS		101.4	151.3	155.7	150.3	144.4	143.0	152.1	146.2	146.5	152.6	157.2	151.6	148.7	-1.9	-1.4
CONSUMER GOODS		67.4	159.0	163.6	157.9	150.0	147.6	157.9	151.0	151.3	158.9	163.5	156.9	153.8	-2.0	-2.8
EQUIPMENT		34.0	131.6	135.4	131.0	130.2	131.1	137.2	133.9	134.1	136.6	140.9	138.0	135.6	-1.7	2.9
INTERMEDIATE PRODUCTS		34.7	160.2	162.0	161.5	155.6	149.8	153.5	149.3	148.5	154.3	157.8	157.7	156.5	-.9	-4.0
MATERIALS		424.3	139.4	137.8	139.6	136.7	134.9	125.7	130.5	123.0	125.3	128.9	131.3	133.7	1.8	-4.7
DURABLE		237.7	139.1	138.5	139.4	138.7	133.9	124.0	128.7	122.4	123.0	126.7	129.8	134.1	3.3	-4.0
NONDURABLE		133.0	141.7	143.3	144.0	140.2	138.4	134.1	137.5	130.0	134.9	137.3	140.0	140.4	.3	-2.6
ENERGY, EX. ERDA		23.8	168.4	158.8	170.3	180.4	173.9	162.7	172.8	162.8	163.8	161.6	161.7	171.9	6.3	-.3
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	173.1	167.7	178.5	181.0	177.8	160.5	176.0	160.1	159.7	161.9	164.9	169.8	3.0	-5.6
MANUFACTURING		519.2	141.2	141.5	140.9	136.9	134.9	131.1	132.3	127.2	131.0	135.0	135.5	136.0	.4	-4.0
DURABLE	19,24-25,32-39	254.1	140.1	139.9	139.4	137.6	132.3	127.2	128.3	123.8	126.8	131.2	132.6	135.3	2.0	-3.3
NONDURABLE	20-23,26-31	265.1	142.3	143.1	142.4	136.2	137.4	134.7	136.2	130.4	135.1	138.6	138.2	136.7	-1.1	-4.6
UTILITIES, OWN USE	491,21	6.5	140.1	130.0												
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	171.2	167.8	177.6	177.1	175.4	139.9	172.8	147.7	134.6	137.3	144.4	153.6	6.4	-14.2
IRON ORE	101	5.0	189.5	186.5	198.3	191.1	188.1	158.0	184.7	162.7	154.1	157.2	157.6	150.1	-4.7	-25.8
COPPER ORE	102	3.0	155.8	151.5	161.7	171.4	173.6	112.9	172.0	131.6	103.1	104.0	126.8	169.9	34.0	6.1
COAL	11,21	5.9	191.7	167.3	200.2	222.8	202.1	174.3	193.0	155.4	184.1	183.5	188.8	199.6	5.7	-.5
OIL AND GAS EXTRACTION	13	11.9	173.0	172.9	174.6	175.8	176.2	178.1	179.3	179.7	176.6	177.9	175.8	175.9	.1	-.1
CRUDE OIL AND NAT. GAS	131	8.9	190.9	188.8	192.2	195.9	196.1	200.6	200.6	201.4	198.5	201.9	201.4	201.1	-.1	3.4
NATURAL GAS LIQUIDS	132	2.5	123.0	127.2	124.9	119.6	124.1	120.3	127.9	127.1	121.9	111.9	111.5	111.0	-.5	-11.5
STONE AND EARTH MINERALS	14	6.9	159.7	159.9	166.1	157.6	162.4	160.8	160.7	157.9	159.4	165.0	166.0	164.3	-1.0	-2.5
CRUSHED STONE	142	1.5	166.8	176.3	180.4	151.3	165.2	162.4	164.2	158.5	162.9	165.8	173.1	174.1	.6	-7.0
SAND AND GRAVEL	144	1.1	143.5	149.9	154.2	126.5	142.7	144.9	144.7	145.3	141.6	147.9	152.3	150.3	-1.3	-6.3
CHEMICAL MINERALS	147	3.4	162.6	159.9	166.8	166.5	168.7	167.4	166.2	164.6	165.3	172.3	169.7	166.8	-1.7	-.1
ORDNANCE	19	4.1	106.0	111.9	103.0	100.3	103.8	114.8	107.9	112.1	114.1	118.1	113.7	112.2	-1.3	11.1
FOODS	20	26.8	156.7	165.9	161.3	150.6	152.9	171.8	161.5	166.4	173.1	176.0	167.5	161.9	-3.4	-.4
MEAT PRODUCTS	201	4.2	166.3	181.0	166.9	155.1	164.9	185.6	174.5	183.7	188.4	184.8	173.5	165.1	-4.9	-1.4
DAIRY PRODUCTS	202	4.1	135.9	151.2	134.6	127.9	138.8	159.1	150.7	155.7	157.8	163.8	148.9	139.1	-6.6	3.5
CANNED AND FROZEN FOODS	203	3.2	185.0	199.9	188.8	181.8	184.3	211.3	191.5	193.2	210.0	230.8	220.1	195.3	-11.3	4.6
GRAIN MILL PRODUCTS	204	4.8	148.9	150.8	153.2	148.4	140.1	152.1	144.6	147.4	152.3	156.4	154.0	154.0	0.0	-.4
BAKERY PRODUCTS	205	1.8	133.8	144.4	133.2	126.1	135.4	156.5	144.6	153.5	156.5	159.6	149.9	144.1	-3.9	9.1
SUGAR	206	1.2	221.6	176.7	293.3	253.2	197.5	213.7	223.7	203.2	213.5	224.4	237.4	298.3	25.7	-4.2
CONFECTIONERY	207	1.0	133.9	138.1	139.8	135.7	132.4	141.1	135.8	131.2	145.3	146.9	147.2	145.8	-1.0	3.4
BEVERAGES	208	2.4	193.6	217.6	193.7	182.6	198.6	227.5	211.2	222.1	232.1	228.3	213.1	200.3	-6.0	3.7
MISC. FOOD PRODUCTS	209	4.1	138.6	144.3	144.5	129.3	131.4	147.5	138.9	145.5	148.2	148.8	140.0	135.0	-3.5	-8.1
TOBACCO PRODUCTS	21	.9	125.5	134.8	126.0	116.0	117.3	137.5	125.9	120.5	141.8	150.1	141.1	137.3	-2.7	7.5
TEXTILE MILL PRODUCTS	22	20.8	125.6	129.9	124.9	114.8	120.7	119.5	127.7	104.8	125.8	127.9	122.1	116.5	-4.5	-8.7
FABRICS	221-41	11.7	105.9	109.7	105.2	94.9	97.4	96.0	103.2	84.7	100.3	103.1	98.4	92.4	-6.1	-13.8
KNIT GOODS	225	1.7	162.7	176.3	160.1	147.0	157.2	160.1	169.3	140.8	170.3	169.1	158.7	154.0	-3.0	-7.0
FABRIC FINISHING	226	1.5	152.7	150.2	158.4	158.6	163.7	151.3	165.8	140.5	153.7	159.6	158.2	158.5	.2	-1.6
YARN AND THREAD	228	3.9	163.3	169.3	162.3	149.1	167.0	165.2	177.6	139.7	177.4	178.4	167.6	162.1	-3.3	-2.9
MISC. TEXTILES	229	1.4	153.5	154.0	152.1	143.6	147.0	147.2	155.7	131.2	158.1	152.3	151.1	144.2	-4.6	-6.4
APPAREL PRODUCTS	23	3.6	160.4	182.3	152.4	145.0	152.2	186.5	166.6	170.4	194.7	194.5	168.1	151.2	-10.0	.2
MEN'S OUTERWEAR	231,21	1.0	144.1	166.0	136.4	128.8	142.5	181.4	161.0	168.3	187.1	188.8	158.4	141.0	-11.0	5.3
WOMEN'S OUTERWEAR	233	1.0	199.7	232.6	187.0	180.2	195.2	242.8	217.0	224.8	257.0	246.7	210.9	187.8	-11.0	1.6
LUMBER AND PRODUCTS	24	8.0	193.4	187.2	194.7	194.4	173.0	169.5	166.7	162.8	168.5	177.3	178.5	183.5	2.8	-7.7
LUMBER	242	3.9	181.4	176.4	182.5	183.0	161.2	154.7	154.3	150.0	154.5	159.6	162.1	163.4	.8	-12.1
MILLWORK AND PLYWOOD	243	2.2	194.9	185.8	195.1	201.5	170.9	175.1	159.2	167.2	169.9	188.2	184.8	196.1	6.1	-2.5
FURNITURE AND FIXTURES	25	2.5	163.7	161.2	165.7	166.7	157.8	152.6	156.0	135.8	158.7	163.4	162.0	161.5	-.3	-3.6
HOME FURNITURE	251	1.7	180.8	175.2	180.4	182.4	170.0	161.4	164.5	140.6	168.9	174.8	175.6	175.4	-.1	-3.9
PAPER AND PRODUCTS	26	49.1	124.4	124.2	124.1	123.9	123.8	123.1	124.5	120.0	125.6	123.9	126.6	125.7	-.7	.5
WOOD PULP	261	3.5	120.6	121.2	120.7	117.3	118.9	113.1	118.0	114.5	111.7	113.1	115.7	112.5	-2.7	-7.0
PAPER	262	24.5	119.1	118.1	120.4	122.3	124.9	124.8	125.2	121.6	128.1	124.7	128.5	128.6	0.0	5.7
PAPERBOARD	263	14.8	142.0	140.5	140.0	138.9	137.5	135.3	138.4	131.1	137.0	137.9	138.3	138.3	0.0	-1.4
CONVERTED PAPER	264	2.5	143.7	148.9	143.8	137.0	137.5	139.8	140.1	136.6	141.3	141.4	142.9	135.9	-4.9	-5.3
PAPERBOARD CONTAINERS	265	2.3	148.4	149.0	146.1	142.7	138.1	138.6	140.5	132.5	143.3	140.1	145.6	143.2	-1.6	-1.9
BUILDING PAPER AND BOARD	266	1.4	158.0	160.1	160.7	152.6	135.4	138.8	132.8	130.8	144.5	141.2	151.7	156.9	3.4	-5.7
PRINTING AND PUBLISHING	27	5.8	157.0	175.5	154.9	146.0	154.1	184.0	164.4	177.9	188.2	186.1	170.7	159.3	-6.7	3.6
NEWSPAPERS	271	1.7	138.3	154.4	134.0	125.5	137.2	161.9	150.1	160.6	162.8	162.2	146.6	133.9	-8.7	1.3
COMMERCIAL PRINTING	275	2.4	170.5	192.3	168.5	156.5	163.7	196.6	174.2	188.1	201.1	200.5	184.5	173.4	-6.0	3.8

P--PRELIMINARY

Table 9A—continued
ELECTRIC POWER USE BY INDUSTRIES
Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1979 AVG.	1979			1980			1980					PERCENT CHG. FROM PREV. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	JUNE	JULY	AUG	SEP	OCT	NOV	(P)	(P)
CHEMICALS AND PRODUCTS	28	116.8	139.0	139.4	135.1	132.0	132.6	125.0	130.4	122.3	123.6	129.1	123.4	127.3	3.2	-7.2
BASIC CHEMICALS	281	96.4	126.2	126.1	121.1	116.6	120.8	111.8	119.4	109.7	110.0	115.8	109.4	112.7	3.1	-9.1
ALKALIES AND CHLORINE	2812	12.3	150.3	150.8	149.6	152.6	146.1	141.3	143.8	137.6	139.7	146.5	150.8	148.6	-1.4	.8
BASIC ORGANIC CHEM. NEC	2818	24.8	145.3	143.6	146.2	148.9	145.6	134.2	143.7	134.1	132.3	136.3	142.9	149.1	4.3	1.1
INORGANIC CHEM. NEC	2819	48.6	113.7	112.5	102.6	93.9	104.3	92.8	102.3	89.7	90.2	98.4	84.7	86.3	1.9	-19.3
ACID AND FERT. MAT'L S.	2819	18.8	111.7	111.7	115.3	113.6	103.1	98.0	101.4	96.3	99.3	98.4	101.6			
ERDA	2819	29.8	114.9	114.2	95.4	81.5	105.1	89.7	103.9	86.5	84.6	98.0	74.4			
SYNTHETIC MATERIALS	282	12.1	204.9	205.9	210.6	209.2	188.9	176.6	177.0	173.9	170.6	185.3	187.6	195.4	4.1	-6.8
PLASTICS MATERIALS	2821	4.4	201.9	201.0	204.4	203.5	197.5	179.6	185.0	180.7	167.9	190.2	195.0			
OTHER SYNTHETICS	2822-4	7.7	206.6	208.3	212.9	212.8	185.1	174.7	173.9	170.6	170.2	183.3	183.5			
DRUGS	283	2.0	198.0	199.7	199.7	207.4	204.2	213.3	201.8	207.5	212.6	219.7	208.8	213.9	2.5	6.7
SOAP AND TOILETRIES	284	1.0	149.8	152.3	150.4	150.2	141.0	151.3	144.1	147.2	156.7	150.1	150.6	149.6	-7.7	-1.0
FARM CHEMICALS	287	2.7	160.4	161.3	163.9	163.1	160.3	173.7	165.4	172.5	173.7	174.8	167.1	170.0	1.8	4.7
PETROLEUM PRODUCTS	29	22.3	178.5	177.2	180.0	183.3	175.8	174.6	174.9	173.2	172.7	177.7	172.9	175.0	1.2	-2.5
RUBBER AND PLASTICS PROD.	30	10.8	188.5	190.0	186.7	185.0	175.3	175.3	169.5	174.5	173.0	178.3	177.6	178.7	.6	-4.4
TIRES	301	3.2	135.6	134.5	130.9	123.2	111.2	110.4	105.8	110.9	107.1	113.2	113.4	118.1	4.1	-12.1
RUBBER PRODUCTS NEC	306	2.3	133.9	133.1	128.7	127.8	119.9	123.0	117.2	125.3	119.0	124.6	127.8	125.1	-2.1	-4.0
PLASTICS PRODUCTS NEC	307	4.8	251.7	257.1	256.5	260.4	250.1	245.9	242.5	243.8	244.2	249.8	248.5	246.2	-9.9	-2.8
LEATHER AND PRODUCTS	31	1.3	117.7	115.3	114.4	118.3	114.8	113.5	113.0	115.4	114.1	111.1	112.7	112.4	-.3	-1.6
SHOES	314	.6	97.9	95.5	94.4	97.2	92.7	92.6	92.0	90.5	94.1	93.3	93.8	94.3	.6	-.7
CLAY, GLASS, STONE PRODUCTS	32	20.8	157.3	156.7	158.4	157.5	146.2	145.2	143.8	143.0	143.1	149.4	148.7	152.0	2.2	-4.4
FLAT GLASS	321	1.2	126.5	124.5	121.3	118.5	110.7	109.7	107.9	107.3	105.8	115.8	111.9	117.7	5.2	-4.2
PRESSED AND BLOWN GLASS	322	3.5	211.4	212.4	211.5	211.7	202.6	203.8	197.3	198.7	201.7	211.1	206.0	212.9	3.4	.6
CEMENT	324	8.4	122.6	122.0	125.5	121.8	113.9	116.1	116.3	115.5	112.4	120.2	118.5	121.6	2.6	-3.8
STRUCTURAL CLAY PRODUCTS	325	1.3	119.7	119.4	119.2	112.6	102.1	99.7	100.8	97.8	97.1	104.3	102.5	99.7	-2.8	-16.3
CONCRETE PRODUCTS	327	2.3	209.1	207.9	208.7	204.5	184.8	180.7	176.9	177.4	182.1	182.7	187.7	188.3	.3	-8.4
PRIMARY METALS	33	132.0	131.9	134.0	131.7	130.9	123.2	118.1	118.9	116.0	117.7	120.5	120.2	127.7	6.2	-3.4
BASIC STEEL & MILL PROD.	331	54.4	120.8	123.7	120.8	118.3	104.7	94.3	94.9	91.6	91.5	99.8	99.5	118.0	18.6	-2.8
IRON & STEEL FOUNDRIES	332	5.9	216.5	217.3	209.4	205.8	190.1	185.9	178.9	177.9	186.7	193.1	193.4	196.4	1.6	-7.4
PRIMARY NONFERROUS METALS	333	59.5	129.8	131.8	130.0	129.8	130.0	127.9	130.4	128.2	128.4	127.0	126.1	126.8	.5	-2.8
ALUMINUM	3334	53.6	126.7	127.8	127.1	127.2	127.6	125.9	127.9	125.9	126.9	125.0	123.9	124.4	.5	-2.5
NONFERROUS MILL PRODUCTS	335	8.4	117.4	119.2	119.8	118.8	113.7	114.3	111.6	110.6	116.5	115.8	118.6	115.7	-2.4	-2.6
NONFERROUS FOUNDRIES	336	1.4	175.1	176.7	175.6	174.3	167.0	160.5	161.8	158.0	161.7	161.9	165.6	162.0	-2.2	-6.6
FABRICATED METAL PRODUCTS	34	14.8	167.9	168.3	165.6	167.0	157.2	154.2	150.5	150.9	153.7	157.9	158.8	159.0	.1	-4.1
METAL CANS	341	1.0	214.3	210.1	211.8	217.3	210.1	204.5	201.9	202.0	202.7	208.8	214.2	215.6	.7	-1.1
STRUCTURE	342	1.6	159.1	160.7	155.0	152.7	142.8	145.1	136.1	132.8	150.5	151.8	145.3	151.6	4.3	-2.0
STRUCTURAL METAL PROD.	344	3.5	145.5	145.0	142.9	146.0	134.8	129.1	128.9	126.3	127.3	133.7	131.6	131.4	-.1	-8.2
FASTENERS	345	1.2	160.0	163.7	161.3	159.8	153.9	149.3	146.8	146.2	151.0	150.8	154.6	154.9	.2	-5.3
METAL STAMPINGS	346	3.1	157.9	156.0	152.9	145.4	134.6	133.5	128.5	132.9	130.9	136.7	137.3	138.2	.7	-9.2
NOELECTRICAL MACHINERY	35	17.3	156.6	157.3	155.1	159.4	155.1	157.2	152.8	156.4	157.9	157.4	157.0	156.6	-.2	1.3
ENGINES AND TURBINES	351	1.4	150.0	151.7	147.3	148.1	129.4	128.4	125.1	127.3	129.1	128.7	124.9	124.0	-.7	-16.1
FARM EQUIPMENT	352	1.2	133.1	134.1	122.5	123.9	121.4	126.9	120.9	123.0	131.7	126.1	124.2	123.3	-.7	-1.2
CONSTRUCTION EQUIPMENT	353	3.0	170.7	174.1	162.3	170.9	174.5	174.7	175.1	178.0	175.9	170.4	174.3	170.4	-2.2	6.6
METALWORKING MACHINERY	354	2.8	130.3	133.0	131.6	132.7	131.9	134.9	130.3	136.1	135.6	133.2	126.6	128.9	1.8	-3.5
SPECIAL INDUSTRY MACH.	355	1.5	150.0	149.2	150.0	151.6	146.0	148.6	143.1	147.7	147.4	150.8	143.9	146.1	1.6	-2.7
GENERAL INDUSTRIAL MACH.	356	2.7	145.1	142.7	145.4	149.8	143.8	145.4	141.7	147.0	145.5	143.6	139.6	141.2	1.1	-2.8
OFFICE AND COMPUTING MACH.	357	1.4	199.8	199.5	203.4	215.1	210.9	223.1	208.3	214.6	228.7	226.0	232.3	234.0	.7	17.6
SERVICE INDUSTRY MACH.	358	1.2	154.9	153.2	150.3	151.6	139.5	134.2	132.1	128.7	135.1	139.0	140.9	140.9	0.0	-5.5
ELECTRICAL MACHINERY	36	19.2	139.7	137.8	140.8	141.9	134.7	135.6	133.0	134.3	136.5	136.0	136.1	138.7	1.9	-1.3
ELECT. DISTRIBUTION EQ.	361	1.8	126.6	120.8	126.0	128.6	119.6	119.9	118.9	113.3	125.6	120.7	116.4	116.7	.2	-7.6
ELECT. INDUST. APPARATUS	362	3.5	127.6	127.0	132.2	130.5	122.6	118.1	118.8	118.5	117.8	118.1	118.1	127.3	7.8	-6.0
HOME APPLIANCES	363	2.2	113.4	111.4	111.3	110.3	96.8	97.5	91.4	90.3	101.6	100.7	105.3	107.8	2.3	-2.4
LIGHTING & WIRING PROD.	364	1.5	151.8	149.9	151.0	148.8	138.4	140.8	132.3	136.1	142.4	144.1	139.7	143.8	2.9	-4.3
RADIO AND TV SETS	365	.8	119.7	117.7	120.9	124.6	117.8	119.8	115.5	120.1	118.0	121.4	120.7	123.1	2.0	1.5
COMMUNICATION EQUIP.	366	3.9	149.4	150.1	148.6	154.1	148.9	155.2	149.4	158.0	157.1	150.5	146.2	151.3	3.5	1.0
ELECTRONIC COMPONENTS	367	4.2	156.7	154.6	163.2	168.1	164.8	167.5	162.1	169.0	167.5	165.9	170.6	174.7	2.4	7.2
TRANSPORTATION EQUIPMENT	37	23.6	135.0	131.7	130.1	126.1	113.9	117.8	109.8	114.7	117.7	120.9	117.3	122.1	4.1	-6.2
MOTOR VEHICLES AND PARTS	371	12.8	149.4	143.5	140.4	132.5	113.7	119.7	107.6	114.4	120.6	124.0	119.8	125.0	4.4	-11.3
AIRCRAFT AND PARTS	372	8.4	93.8	94.5	95.2	97.1	97.2	98.1	97.7	97.7	97.8	99.0	102.2	101.6	-.6	8.8
SHIPS AND BOATS	373	1.3	143.8	141.9	151.5	151.2	140.2	144.7	133.7	144.2	144.0	145.9	142.5	149.4	4.8	-1.0
INSTRUMENTS	38	3.1	161.4	160.9	158.5	162.2	158.4	160.3	153.9	157.2	159.8	163.9	159.7	162.5	1.8	3.1
PHOTOGRAPHIC EQUIPMENT	386	1.4	157.2	157.5	154.1	159.5	156.8	157.9	151.9	154.4	154.0	165.3	151.7	160.9	6.1	4.7
MISC. MANUFACTURES	39	2.5	157.0	155.8	154.5	155.6	149.2	152.0	148.7	152.0	152.1	152.0	151.7	154.1	1.6	-.2
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	144.9	145.4	145.3	145.3	138.6	135.9	136.1	134.3	135.3	138.0	137.5	141.3	2.8	-2.9
ELECTRIC UTILITIES		462.6	156.3	157.2	154.6	154.2	148.7	145.9	145.7	144.0	145.2	148.6	145.4	147.8	1.7	-4.9
SALES TO INDUSTRY		457.1	156.5	157.4	154.8	154.5	148.6	146.0	145.4	143.9	145.4	148.8	145.2	148.2	2.0	-5.0
OWN USE		5.5	140.9	140.8												
INDUSTRIAL GENERATION		102.9	90.2	89.2	91.0	88.5	86.3	83.2	86.1	83.2	81.1	85.4	84.5	93.6	10.8	2.3
SALES TO ELECTRIC UTILITIES		5.1	111.5	86.9												
OWN USE		97.8	89.0	88.7	89.5	88.8	85.0	82.3	84.3	82.4	81.1	83.3	83.0	92.0	11.0	2.5

P--PRELIMINARY

NOTE: TOTALS EXCLUDE INDUSTRIAL GENERATION POWER SALES TO ELECTRIC UTILITIES. ERDA (PART OF SIC 2819) IS THE FORMER ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION. ERDA USE DATA ARE INCLUDED IN TOTAL MATERIALS, ALTHOUGH EXCLUDED FROM THE ENERGY COMPONENT. ALL INDEXES ARE COMPILED FROM SAMPLE REPORTS TO THE FEDERAL RESERVE SYSTEM AND THE 2-DIGIT GROUP TOTALS INCLUDE SOME DATA THAT ARE UNALLOCATED AT THE 3-DIGIT LEVELS. THE 1967 DATA ARE FROM COMPREHENSIVE CENSUS, EEL, AND PPC SOURCES AND ARE PROVIDED FOR REFERENCE. THEY ARE NOT USED AS WEIGHTS TO COMBINE SERIES. THE AGGREGATE INDEXES ARE KWH TOTALS CONVERTED TO A 1967 COMPARISON

Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1979 AVG.	1979 Q 3	1979 Q 4	1980 Q 1	1980 Q 2	1980 Q 3	1980 JUNE	1980 JULY	1980 AUG	1980 SEP	1980 OCT	1980 NOV	PERCENT CHG. FROM PREV. MO. (P)	PERCENT CHG. YR. (P)
CHEMICALS AND PRODUCTS	28	116.8	139.0	136.8	138.3	131.0	132.8	122.6	126.7	120.0	121.1	126.8	128.9	129.2	.2	-7.2
BASIC CHEMICALS	2811	96.4	126.2	121.9	125.4	116.8	120.3	108.0	113.2	105.8	106.8	111.5	115.1	115.2	.1	-9.1
ALKALIES AND CHLORINE	2812	12.3	150.3	151.7	153.0	148.3	145.7	142.1	140.9	139.6	141.5	145.3	151.8	152.5	.4	.8
BASIC ORGANIC CHEM. NEC	2818	24.8	145.3	147.3	149.4	143.6	143.7	137.7	142.7	136.6	135.6	140.9	148.3	151.7	2.3	1.1
INORGANIC CHEM. NEC	2819	48.6	113.7	103.2	108.7	96.9	103.6	85.0	91.7	82.3	83.7	89.1	91.6	90.0	-1.7	-19.3
ACID AND FERT. NAT'L.S.		18.8	111.7	110.3	116.0	112.9	104.4	96.7	101.2	96.6	98.8	94.8	102.7			
ERDA		29.8	114.9	98.7	104.1	86.8	103.1	77.6	85.6	73.2	74.0	85.5	84.6			
SYNTHETIC MATERIALS	2821	12.1	204.9	212.8	205.2	203.7	191.9	182.4	183.9	178.9	177.2	191.2	188.6	189.7	.6	-6.8
PLASTICS MATERIALS	2821	4.4	201.9	206.4	203.5	197.2	198.9	184.4	190.0	182.7	173.8	196.7	198.5			
OTHER SYNTHETICS	2822-4	7.7	206.6	216.3	206.1	207.2	188.2	181.4	180.7	176.9	179.1	188.2	183.2			
DRUGS	2831	2.0	198.0	217.3	197.5	190.1	205.1	232.1	216.2	224.8	227.5	244.1	221.9	212.8	-4.1	6.7
SOAP AND TOILETRIES	2841	1.0	149.8	154.8	151.0	145.8	142.0	153.8	145.2	149.4	155.6	156.4	155.7	151.4	-2.8	-1.0
FARM CHEMICALS	2871	2.7	160.4	157.2	162.6	161.7	166.6	169.3	167.6	167.5	170.4	169.9	166.6	167.2	.4	4.7
PETROLEUM PRODUCTS	29	22.3	178.5	183.6	181.2	177.5	173.9	180.9	178.4	179.6	180.3	182.7	177.2	175.5	-1.0	-2.5
RUBBER AND PLASTICS PROD.	301	10.8	188.5	188.6	188.7	182.9	176.4	174.1	173.4	164.6	174.4	183.3	186.0	182.3	-2.0	-4.4
TIRES	3011	3.2	135.6	134.2	131.1	122.6	111.9	110.2	109.4	105.3	108.1	117.1	120.3	115.8	-3.7	-12.1
RUBBER PRODUCTS NEC	3061	2.3	133.9	131.7	131.8	126.7	119.3	121.8	118.1	114.7	121.6	129.0	133.5	130.0	-2.7	-4.0
PLASTICS PRODUCTS NEC	3071	4.8	251.7	254.5	260.0	256.4	252.9	243.5	246.6	230.6	245.2	254.8	258.2	255.1	-1.2	-2.8
LEATHER AND PRODUCTS	31	1.3	117.7	116.5	115.0	115.7	115.3	114.8	116.9	106.6	119.9	117.9	115.4	114.2	-1.1	-1.6
SHOES	314	.6	97.9	98.2	94.1	94.7	92.7	95.4	95.3	84.6	101.6	100.1	95.5	94.6	-1.0	-7
CLAY, GLASS, STONE PRODUCTS	32	20.8	157.3	160.7	160.8	148.1	148.8	149.0	147.8	144.9	148.4	153.6	155.1	155.3	.1	-4.4
FLAT GLASS	3211	1.2	126.5	127.0	121.7	115.7	110.8	111.8	108.7	107.1	109.9	118.6	118.0	117.4	-5	-4.2
PRESSED AND BLOWN GLASS	3221	3.5	211.4	215.3	212.4	205.5	204.5	206.6	201.1	201.3	205.3	213.2	215.3	215.1	-1	.6
CEMENT	3241	8.4	122.6	128.6	128.6	107.7	117.8	122.3	120.8	119.9	120.5	126.6	125.7	124.9	-6	-3.8
STRUCTURAL CLAY PRODUCTS	3251	1.3	119.7	117.6	120.8	112.3	102.5	98.2	101.5	95.6	96.5	102.5	103.0	102.9	-1	-16.3
CONCRETE PRODUCTS	3271	2.3	209.1	211.1	212.3	195.2	186.8	183.5	181.9	176.7	186.3	187.6	194.5	196.2	.9	-8.4
PRIMARY METALS	33	132.0	131.9	130.7	131.0	132.0	125.8	115.1	119.4	113.5	114.5	117.4	120.8	126.3	4.5	-3.4
BASIC STEEL & MILL PROD.	3311	54.4	120.8	119.1	119.1	120.9	107.8	90.8	95.7	87.7	88.8	95.8	98.7	115.4	16.9	-2.8
IRON & STEEL FOUNDRIES	3321	5.9	216.5	204.5	212.8	207.1	196.9	175.5	183.9	157.9	175.7	192.7	202.7	201.2	-8	-7.4
PRIMARY NONFERROUS METALS	3331	59.5	129.8	130.8	129.9	129.4	131.3	126.9	130.1	129.2	126.7	124.7	127.5	125.2	-1.8	-2.8
ALUMINUM	3334	53.6	126.7	128.6	127.0	125.6	128.3	126.7	127.6	128.5	127.4	124.1	125.2	122.6	-2.1	-2.5
NONFERROUS MILL PRODUCTS	3351	8.4	117.4	116.0	118.3	120.2	116.7	111.3	114.1	104.8	115.3	113.8	120.5	115.2	-4.3	-2.6
NONFERROUS FOUNDRIES	3361	1.4	175.1	170.6	175.8	178.5	168.4	155.0	163.4	148.7	154.2	162.2	170.4	165.1	-3.1	-6.6
FABRICATED METAL PRODUCTS	34	14.8	167.9	166.7	166.1	166.8	158.3	152.8	152.5	145.8	151.7	160.9	163.2	160.6	-1.6	-4.1
METAL CANS	3411	1.0	214.3	222.6	204.2	212.1	209.9	216.6	206.2	213.6	218.4	218.0	217.4	206.1	-5.2	-1
HARDWARE	3421	1.6	159.1	156.4	157.7	153.6	143.2	141.3	137.1	127.9	141.3	154.7	152.1	154.9	1.8	-2.0
STRUCTURAL METAL PROD.	3441	3.5	145.5	142.2	144.6	146.9	134.9	126.6	128.4	120.6	126.9	132.2	135.4	134.1	-9	-8.2
FASTENERS	3451	1.2	160.0	159.8	161.0	162.1	155.7	145.8	149.0	138.3	146.2	153.1	157.9	156.0	-1.2	-5.3
METAL STAMPINGS	3461	3.1	157.9	153.7	153.4	145.0	136.4	131.6	130.7	125.6	130.3	138.8	143.3	140.9	-1.7	-9.2
Nonelectrical Machinery	35	17.3	156.6	160.8	154.7	155.9	155.3	160.7	157.7	156.0	160.4	165.9	161.8	158.6	-2.0	1.3
ENGINES AND TURBINES	3511	1.4	150.0	151.7	147.7	145.9	130.8	128.4	128.6	128.2	124.1	133.0	130.8	127.7	-2.4	-16.1
FARM EQUIPMENT	3521	1.2	133.1	130.4	122.3	122.4	126.1	123.6	132.4	113.9	121.2	135.8	129.7	123.8	-4.6	-1.2
CONSTRUCTION EQUIPMENT	3531	3.0	170.7	174.4	163.4	169.8	174.4	175.0	177.0	171.6	173.2	180.1	176.9	175.9	-6	6.6
METALWORKING MACHINERY	3541	2.8	130.3	132.2	131.4	133.9	131.6	134.1	131.4	131.4	134.1	136.6	130.8	129.3	-1.1	-3.5
SPECIAL INDUSTRY MACH.	3551	1.5	150.0	150.4	149.9	149.6	146.7	150.0	146.9	144.8	148.5	156.6	147.4	148.2	.6	-2.7
GENERAL INDUSTRIAL MACH.	3561	2.7	145.1	144.2	145.6	147.3	144.3	146.8	145.4	143.9	145.7	150.9	144.0	144.0	0.0	-2.8
OFFICE AND COMPUTING MACH.	3571	1.4	199.8	215.1	202.8	201.3	208.2	240.6	217.9	230.1	247.3	244.5	244.9	236.1	-3.6	17.6
SERVICE INDUSTRY MACH.	3581	1.2	154.9	161.1	146.7	144.8	141.6	141.1	141.3	137.4	137.9	148.0	145.2	138.8	-4.4	-5.5
ELECTRICAL MACHINERY	36	19.2	139.7	142.1	140.7	136.8	135.5	139.7	137.7	135.3	139.2	144.7	142.6	139.8	-2.0	-1.3
ELECT. DISTRIBUTION EQ.	3611	1.8	126.6	124.3	124.7	124.6	120.9	123.2	123.1	119.4	124.0	126.4	123.3	115.6	-6.2	-7.6
ELECT. INDUST. APPARATUS	3621	3.5	127.6	127.6	131.4	128.7	124.3	118.6	122.0	117.8	118.3	119.8	123.3	123.5	.2	-6.0
HOME APPLIANCES	3631	2.2	113.4	113.0	110.0	108.9	97.6	99.0	94.6	91.0	98.9	107.1	109.5	107.9	-1.5	-2.4
LIGHTING & WIRING PROD.	3641	1.5	151.8	146.4	151.8	147.4	141.9	137.7	138.8	126.9	133.7	152.4	145.7	147.1	1.0	-4.3
RADIO AND TV SETS	3651	.8	119.7	128.2	119.9	115.3	116.8	130.5	121.8	125.8	130.3	135.6	126.2	123.4	-2.2	1.5
COMMUNICATION EQUIP.	3661	3.9	149.4	158.0	150.7	144.2	148.2	163.4	156.6	160.7	164.5	165.0	158.4	154.8	-2.3	1.0
ELECTRONIC COMPONENTS	3671	4.2	156.7	164.4	161.9	158.4	164.8	178.0	170.2	174.9	177.7	181.5	178.5	174.4	-2.3	7.2
TRANSPORTATION EQUIPMENT	37	23.6	135.0	132.2	131.5	122.9	115.0	118.3	112.4	111.3	118.4	125.2	124.0	124.9	.8	-6.2
MOTOR VEHICLES AND PARTS	3711	12.8	149.4	141.8	142.9	129.3	115.7	118.5	111.1	108.1	119.3	128.2	126.6	129.0	1.9	-11.3
AIRCRAFT AND PARTS	3721	8.4	93.8	99.1	94.6	93.0	97.1	102.9	99.6	102.1	102.1	104.6	105.8	103.0	-2.7	8.8
SHIPS AND BOATS	3731	1.3	143.8	141.5	151.2	153.7	138.4	144.3	134.8	141.9	144.8	146.2	144.0	152.2	5.7	-1.0
INSTRUMENTS	38	3.1	161.4	172.1	157.6	152.1	157.7	171.6	161.9	165.2	170.2	179.3	167.2	162.3	-2.9	3.1
PHOTOGRAPHIC EQUIPMENT	3861	1.4	157.2	165.9	153.7	150.5	157.4	166.3	158.9	160.8	164.0	174.1	158.9	159.2	.2	4.7
MISC. MANUFACTURES	39	2.5	157.0	161.7	155.1	149.9	148.5	157.8	151.8	150.2	160.3	162.9	159.6	155.6	-2.5	-2
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	144.9	145.8	145.7	143.0	139.7	136.2	138.0	132.8	136.3	139.5	140.4	141.9	1.1	-2.9
ELECTRIC UTILITIES		462.6	156.3	156.2	156.1	152.1	150.1	145.1	147.1	140.7	145.1	149.5	149.9	149.4	-3	-4.9
SALES TO INDUSTRY		457.1	156.5	156.6	156.3	152.1	150.2	145.3	147.2	140.6	145.3	149.9	150.3	149.5	-5	-5.0
OWN USE		5.5	140.9	130.6												
INDUSTRIAL GENERATION		102.9	90.2	90.1	91.7	87.3	85.9	84.0	87.0	84.6	83.0	84.4	86.3	92.8	7.6	2.3
SALES TO ELECTRIC UTILITIES		5.1	111.5	116.6												
OWN USE		97.8	89.0	88.7	89.6	88.0	85.6	82.3	84.8	82.4	81.7	82.6	84.3	91.2	8.2	2.5

P--PRELIMINARY

Explanatory Note

Coverage. The industrial production index is a measure of the physical output of the Nation's factories, mines, and electric and gas utilities expressed as a percentage of production in a base period, currently 1967. The 235 individual series representing Standard Industrial Classification (SIC), 1967 edition, codes 10-14, 19-39, 49, and 91 (part) are calculated first as index series relatives. These relatives are aggregated into: (1) market groupings (such as consumer goods, equipment, intermediate products, and materials) from which the total is derived and (2) industry groupings (for example, SIC 2-digit industries) and major aggregates of these groupings, such as manufacturing, mining, and utilities.

Timing. A first estimate of output for a month is published about the 15th of the following month. This estimate may revise in each of the next 3 months as new data become available. After the fourth month, indexes are not further revised until an annual or a benchmark revision.

Source data. The monthly indexes of industrial production are built up from data of two types: (1) directly-measured physical product data, (2) estimates of physical product output derived from input data adjusted by conversion factors that relate these inputs to physical output. The directly measured physical product data (lbs., tons, etc.) are obtained from reports of the Bureau of the Census, Bureau of Mines, other Government agencies, and trade associations. Estimates of physical output based on input data are used when appropriate monthly physical product data are not available. The major input data are (1) hours worked by production workers as indicated by the monthly establishment survey of the Bureau of Labor Statistics, and (2) industrial electric power use as ascertained from utilities by the Federal Reserve Banks. The input conversion estimates are based mainly on their historical trends and recent developments.

Seasonal adjustment. Individual series are seasonally adjusted by the X-11 version of the Method II seasonal adjustment procedure developed by the Bureau of the Census. The seasonal adjustment factors for the basic aggregate series in the summary table and in Tables 1 and 2 are reviewed and edited monthly. The seasonal factors currently being used were developed from data through 1978, edited to minimize the effect of the sharp cyclical decline and recovery in industrial production in 1974 and 1975.

Weights. The total index and various groupings of component series are combined on the basis of 1967 value-added weights (shown in the first column of the index tables). The gross-value-weighted product series are expressed in terms of 1972 dollars.

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

$$I_t = \sum \left(\frac{q_{67}p_{67}}{\sum q_{67}p_{67}} \right) \cdot \left(\frac{q_t}{q_{67}} \right) \cdot 100 = \frac{\sum q_t p_{67}}{\sum q_{67} p_{67}} \cdot 100$$

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 IP, without regard to sign, between the first and fourth estimates is 0.25 per cent; that is, in about half of the cases, the absolute value of the revision from the first to the fourth estimate was less than 0.25 per cent. (Calculated on the basis of data for the August 1971 to July 1976 period.)

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