

FEDERAL RESERVE



Industrial Production

G.12.3

For release at 9:30 a.m. (E.S.T.)
January 15, 1982

Industrial production declined an estimated 2.1 percent in December, reflecting sharp reductions in most industries. This drop follows decreases of 1.9 and 1.6 percent in November and October, respectively. Since its peak in July, industrial production has declined 6.9 percent. At 143.3 percent of the 1967 average, the index for December is 4.7 percent below its level a year earlier.

Market Groupings

Output of consumer goods declined 1.9 percent in December. Sizable further reductions continued in the production of home goods, such as appliances and furniture. Another, but smaller, cutback occurred in output of automotive products, as autos were assembled at an annual rate of 4.6 million units--down about 4 percent from the November rate. Additionally, output of consumer nondurable goods declined 1.1 percent, with an especially large reduction in output of clothing. Production of business equipment decreased 1.2 percent further in December, following similar declines in the preceding two months; this reduction mainly reflected cuts in the output of manufacturing, commercial, and farm equipment. Production of defense and space equipment continued to rise moderately. Output of construction supplies and business supplies declined further.

Production of materials declined sharply, as it has in recent months. The December drops in output of both durable and nondurable materials exceeded 3.5 percent. The curtailment of energy materials production was 0.5 percent.

INDUSTRIAL PRODUCTION: MAJOR MARKET GROUPINGS (Seasonally Adjusted)

INDEXES, 1967=100	1981		PER CENT CHANGES					
	NOV. (P)	DEC. (E)	AUG.	SEP.	OCT.	NOV.	DEC.	DEC. 80
TOTAL	146.4	143.3	-.2	-1.3	-1.6	-1.9	-2.1	-4.7
PRODUCTS, TOTAL	147.8	145.8	-.3	-1.0	-.9	-1.2	-1.4	-2.4
FINAL PRODUCTS	147.5	145.5	-.4	-1.0	-.6	-1.1	-1.4	-1.6
CONSUMER GOODS	145.0	142.3	-.7	-1.2	-.6	-1.3	-1.9	-3.3
DURABLE GOODS	129.8	124.4	-2.7	-1.5	-2.9	-4.8	-4.2	-12.0
NONDURABLE GOODS	151.0	149.4	.1	-1.1	.3	-.1	-1.1	.1
BUSINESS EQUIPMENT	178.4	176.3	-.2	-.9	-1.2	-1.2	-1.2	-.5
DEFENSE AND SPACE	104.9	105.4	.2	.2	1.5	.4	.5	4.4
INTERMEDIATE PRODUCTS	149.2	147.0	.4	-1.4	-2.1	-1.5	-1.5	-5.4
CONSTRUCTION SUPPLIES	132.1	129.2	-.2	-3.0	-3.2	-2.4	-2.2	-11.0
MATERIALS	144.1	139.5	-.1	-1.7	-2.6	-3.0	-3.2	-8.3

Industry Groupings

Manufacturing output in December is estimated to have been 2.3 percent below a month earlier and 5.8 percent below its level a year earlier. The December declines in durable and nondurable manufacturing output were 2.5 and 2.1 percent, respectively. The output of utilities declined 0.5 percent in December, and the production of mining remained about unchanged.

INDUSTRIAL PRODUCTION: MAJOR INDUSTRY GROUPINGS
(Seasonally Adjusted)

INDEXES, 1967=100	1981		PER CENT CHANGES					
	NOV. (P)	DEC. (E)	AUG.	SEP.	OCT.	NOV.	DEC.	DEC. 80
MANUFACTURING	145.1	141.7	.0	-1.4	-1.9	-2.1	-2.3	-5.8
DURABLE	134.4	131.0	-.1	-1.7	-2.1	-2.5	-2.5	-6.6
NONDURABLE	160.5	157.2	.1	-.8	-1.6	-1.7	-2.1	-4.7
MINING	144.0	143.8	-.3	-.7	.5	-1.2	-.1	3.8
UTILITIES	167.9	167.0	-.7	-2.4	.4	-.3	-.5	-.5

P--PRELIMINARY

E--ESTIMATED

FEDERAL RESERVE

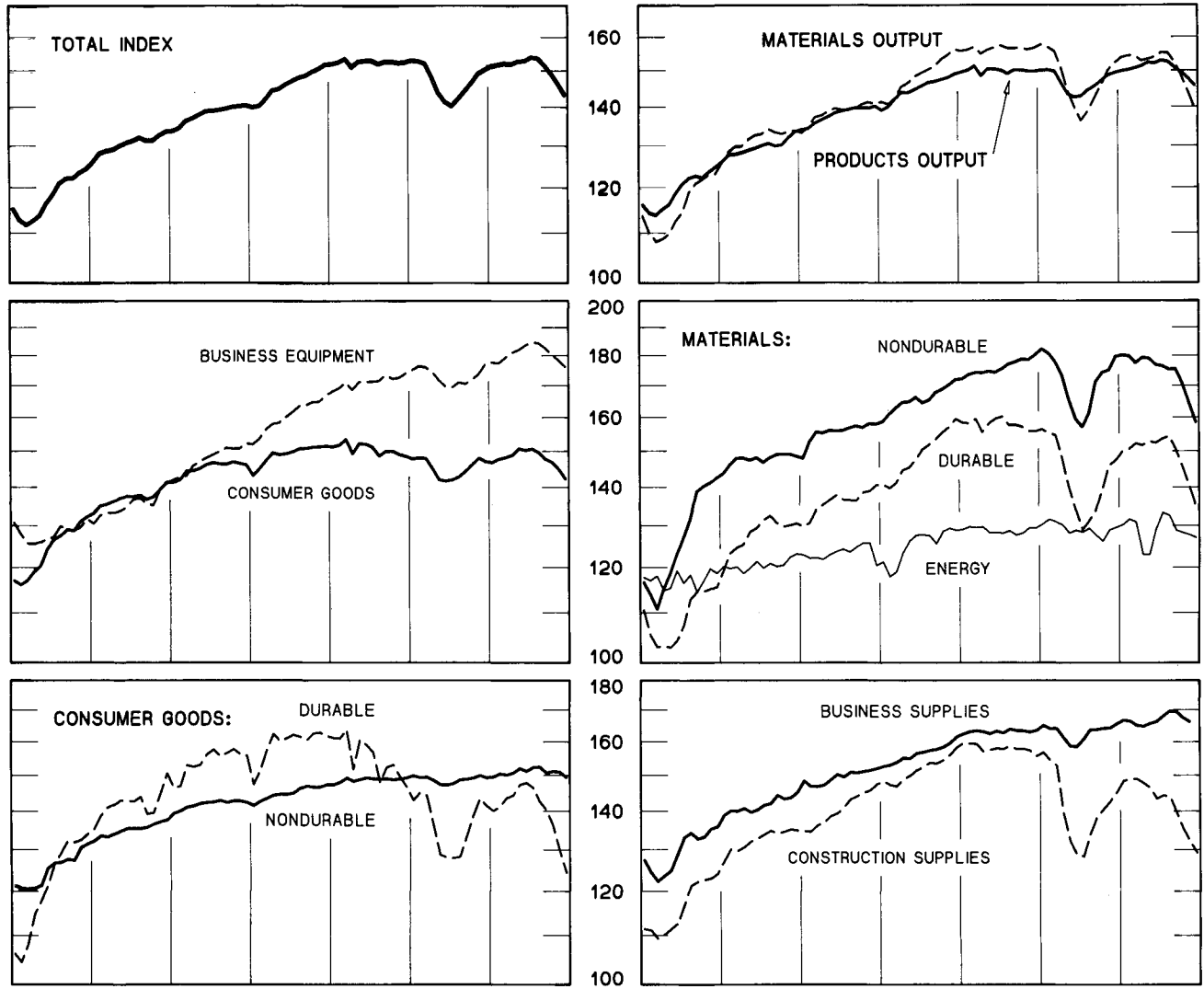


Industrial Production

INDUSTRIAL PRODUCTION

DECEMBER DATA

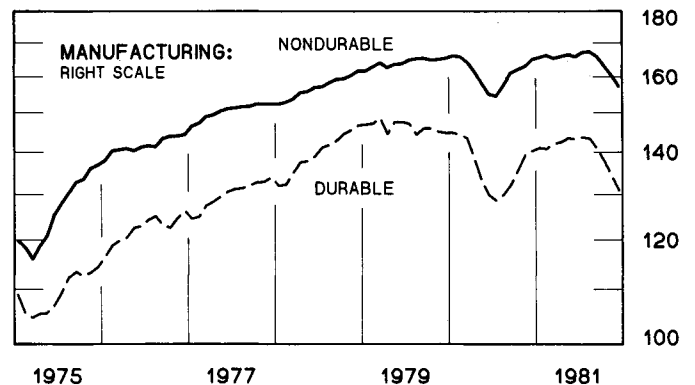
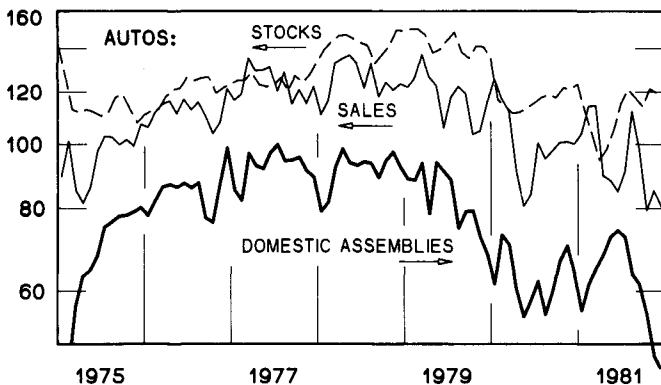
SEASONALLY ADJUSTED, RATIO SCALE, 1967=100



1969-70=100

ANNUAL RATE, MILLIONS OF UNITS

1967=100



AUTOS: SALES AND STOCKS INCLUDE IMPORTS

Table 1A

INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967	1980	1980	1981												
	PRO- TION	PORT- ION	AVG.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	147.0	150.4	151.4	151.8	152.1	151.9	152.7	152.9	153.9	153.6	151.6	149.2	146.4	143.3	
PRODUCTS, TOTAL	60.71	146.7	149.4	149.9	150.2	150.7	151.3	152.3	152.2	153.0	152.6	151.0	149.6	147.8	145.8	
FINAL PRODUCTS	47.82	145.3	147.8	147.8	148.2	149.0	149.9	151.3	151.4	152.1	151.5	150.0	149.1	147.5	145.5	
CONSUMER GOODS	27.68	145.4	147.1	146.9	147.8	148.3	148.9	150.7	150.3	150.7	149.6	147.8	146.9	145.0	142.3	
EQUIPMENT	20.14	145.2	148.8	149.1	148.7	150.0	151.4	152.1	153.0	154.1	154.0	152.9	152.2	151.0	149.9	
INTERMEDIATE PRODUCTS	12.89	151.9	155.4	157.5	157.7	157.1	156.3	156.1	154.9	156.2	156.8	154.6	151.4	149.2	147.0	
MATERIALS	39.29	147.6	152.2	153.8	154.3	154.4	152.9	153.4	154.0	155.3	155.2	152.5	148.5	144.1	139.5	
CONSUMER GOODS																
DURABLE CONSUMER GOODS	7.89	136.7	141.3	140.1	141.2	143.6	144.3	147.3	147.9	146.5	142.5	140.4	136.3	129.8	124.4	
AUTOMOTIVE PRODUCTS	2.83	132.8	139.0	130.4	133.9	139.2	142.9	151.8	153.1	147.6	137.6	139.1	132.8	122.4	120.4	
AUTOS & UTILITY VEHICLES	2.03	110.1	116.2	102.7	108.5	116.1	120.2	129.1	131.4	123.0	107.8	110.0	101.7	89.2	87.0	
AUTOS, TOTAL	1.90	103.6	105.9	93.3	101.1	107.8	113.2	120.0	122.2	118.1	104.0	103.3	92.5	81.1	78.1	
AUTO PARTS & ALLIED GOODS	0.80	190.4	197.0	200.8	198.4	197.5	200.8	209.5	210.0	213.1	212.9	211.8	206.5	205.0		
HOME GOODS	5.06	138.9	142.6	145.6	145.2	146.1	145.0	144.8	145.0	145.8	145.3	141.1	138.2	133.9	126.7	
APPLIANCES, AIR COND & TV	1.40	117.3	126.4	132.2	125.8	129.1	121.2	121.4	120.0	123.6	126.8	119.0	116.7	106.2	89.5	
APPLIANCES AND TV	1.33	119.5	128.7	134.1	128.2	131.2	122.6	122.3	121.4	124.8	128.9	121.4	118.7	107.2		
CARPETING AND FURNITURE	1.07	155.2	157.3	156.2	160.4	160.2	165.2	163.1	166.3	163.2	160.1	158.6	152.6	148.9		
MISC. HOME GOODS	2.59	143.8	145.4	148.4	149.5	149.4	149.7	149.9	149.8	150.7	149.2	145.8	143.9	142.8	140.8	
NONDURABLE CONSUMER GOODS	19.79	148.9	149.3	149.6	150.5	150.1	150.7	152.1	151.2	152.3	152.5	150.8	151.2	151.0	149.4	
CLOTHING	4.29	126.0	121.0	121.2	120.9	118.9	120.6	122.1	120.9	122.8	121.9	119.3	119.3	119.3		
CONSUMER STAPLES	15.50	155.2	157.2	157.5	158.6	158.8	159.0	160.3	159.6	160.5	161.0	159.5	160.0	159.8	158.6	
CONSUMER FOODS & TOBACCO	8.33	147.4	149.0	149.3	150.5	150.5	150.2	151.3	149.6	150.5	150.6	149.5	150.8	151.0		
NONFOOD STAPLES	7.17	164.3	166.6	167.0	168.1	168.4	169.3	170.8	171.3	172.2	173.0	171.1	170.7	170.0	168.7	
CONSUMER CHEMICAL PROD	2.63	208.9	213.8	213.0	219.3	222.0	224.1	225.1	224.4	226.8	227.7	227.5	224.1	221.3		
CONSUMER PAPER PRODUCTS	1.92	123.1	127.7	127.9	129.0	128.7	127.4	127.7	129.2	127.6	128.9	127.7	127.7	128.0		
CONSUMER ENERGY PROD	2.62	149.8	147.8	149.4	145.4	143.7	144.9	147.9	148.9	150.0	150.4	146.4	148.7	149.4		
RESIDENTIAL UTILITIES	1.45	167.9	166.2	167.5	161.3	161.1	162.9	168.9	170.4	172.6	169.7	162.8	167.1			
EQUIPMENT																
BUSINESS EQUIPMENT	12.63	173.2	177.1	177.7	177.5	179.3	181.0	182.0	183.6	184.8	184.4	182.7	180.5	178.4	176.3	
INDUSTRIAL EQUIPMENT	6.77	156.5	159.1	161.5	163.4	164.6	165.9	167.0	169.0	169.4	170.2	168.9	166.9	164.9	162.9	
BUILDING AND MINING EQUIP	1.44	239.9	253.3	264.0	270.4	276.6	281.7	286.4	289.7	290.3	293.0	293.6	295.6	293.3	292.0	
MANUFACTURING EQUIPMENT	3.85	128.2	128.5	127.7	128.4	128.6	128.5	128.4	130.6	130.8	130.8	129.3	125.7	123.4	121.0	
POWER EQUIPMENT	1.47	148.9	146.5	149.1	149.9	149.3	149.9	150.8	151.2	151.6	152.7	150.4	148.4	147.6	146.0	
COM'L, TRANSIT, FARM EQ	5.86	192.4	198.0	196.6	193.7	196.2	198.6	199.4	200.4	202.5	200.9	198.5	196.2	194.0	191.8	
COMMERCIAL EQUIPMENT	3.26	237.8	248.5	249.3	250.4	252.7	254.5	258.0	259.9	263.7	264.3	264.2	259.8	258.3	256.2	
TRANSIT EQUIPMENT	1.93	139.9	139.0	133.1	124.8	127.8	131.5	130.0	129.7	128.4	124.6	121.0	120.6	116.5	116.0	
FARM EQUIPMENT	0.67	123.1	122.4	122.9	116.4	118.5	119.7	113.9	114.9	118.0	111.8	102.1	104.6	103.9		
DEFENSE AND SPACE EQUIPMENT	7.51	98.2	101.0	100.9	100.5	100.7	101.5	102.0	101.7	102.6	102.8	103.0	104.5	104.9	105.4	
INTERMEDIATE PRODUCTS																
CONSTRUCTION SUPPLIES	6.42	140.9	145.2	148.4	148.9	149.0	147.9	146.5	143.4	144.3	144.0	139.7	135.3	132.1	129.2	
BUSINESS SUPPLIES	6.47	162.8	165.5	166.6	166.4	165.1	164.7	165.6	166.2	168.0	169.5	169.4	167.5	166.2		
COMMERCIAL ENERGY PRODUCTS	1.14	172.3	175.4	175.5	174.0	174.7	175.2	179.0	177.7	180.0	176.6	174.2	174.2	174.7		
MATERIALS																
DURABLE GOODS MATERIALS	20.35	143.0	147.4	150.0	150.6	152.2	151.8	152.8	152.4	153.6	154.3	150.4	145.6	140.4	134.9	
DURABLE CONSUMER PARTS	4.58	107.8	113.8	114.7	114.3	118.4	119.7	121.1	123.1	123.2	121.8	114.5	107.4	100.2	93.2	
EQUIPMENT PARTS	5.44	187.2	186.1	189.7	188.9	191.1	192.8	194.0	193.2	193.8	194.7	192.7	190.3	187.1	185.1	
DURABLE MATERIALS NEC	10.34	135.3	142.0	144.7	146.6	146.7	144.3	145.1	143.9	145.9	147.4	144.1	138.9	133.7	127.0	
BASIC METAL MATERIALS	5.57	105.3	114.3	116.6	118.6	118.3	113.8	114.3	112.8	114.5	117.4	113.1	106.4	100.9		
NONDURABLE GOODS MATERIALS	10.47	171.5	179.6	180.2	179.9	177.5	179.3	179.0	176.9	176.5	175.4	175.5	170.6	164.4	158.5	
TEXTILE, PAPER, & CHEM MAT	7.62	177.7	187.8	187.6	187.3	185.1	186.8	187.3	183.7	183.5	182.4	182.5	176.3	169.3	161.8	
TEXTILE MATERIALS	1.85	117.4	112.2	114.8	115.1	114.4	115.1	114.9	113.4	115.5	116.0	114.9	111.5	107.9		
PAPER MATERIALS	1.62	145.6	151.1	150.5	151.0	152.6	152.2	150.9	149.8	150.0	151.5	155.1	149.6	149.2		
CHEMICAL MATERIALS	4.15	217.2	235.9	234.7	233.8	229.5	232.4	233.9	228.4	227.1	224.1	223.4	215.7	204.5		
CONTAINERS, NONDURABLE	1.70	165.9	169.9	173.0	172.3	168.7	172.0	167.8	171.4	171.7	169.4	170.9	166.7	163.7		
NONDURABLE MATERIALS NEC	1.14	138.2	139.7	141.0	141.8	139.6	139.7	140.5	139.6	136.6	137.8	136.2	138.3	132.5		
ENERGY MATERIALS	8.48	129.3	129.6	130.2	131.6	130.9	123.1	123.0	129.3	133.3	132.6	128.9	128.3	127.8	127.1	
PRIMARY ENERGY	4.65	115.2	116.0	115.8	118.2	116.9	104.2	104.4	113.7	120.3	120.9	117.4	116.7	115.7		
CONVERTED FUEL MATERIALS	3.82	146.5	146.1	147.8	148.0	148.1	146.1	145.5	148.2	149.2	146.9	142.9	142.4	142.4		
SUPPLEMENTARY GROUPS																
HOME GOODS AND CLOTHING	9.35	133.0	132.7	134.4	134.1	133.6	133.8	134.4	133.9	135.2	134.5	131.1	129.5	127.2	121.8	
ENERGY, TOTAL	12.23	137.7	137.7	138.5	138.5	137.7	132.6	133.5	138.0	141.2	140.5	136.8	136.9	136.8	136.3	
PRODUCTS	3.76	156.6	156.1	157.3	154.0	153.1	154.1	157.3	157.6	159.1	158.4	154.8	156.4	157.1		
MATERIALS	8.48	129.3	129.6	130.2	131.6	130.9	123.1	123.0	129.3	133.3	132.6	128.9	128.3	127.8	127.1	

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	1980	1980	1981											
	PRO- POR- TION	AVG.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	147.0	145.8	146.4	151.7	152.7	151.5	152.6	156.5	151.0	155.4	155.8	152.5	146.5	139.2
PRODUCTS, TOTAL	60.71	146.7	143.5	143.9	149.3	150.2	149.5	150.9	156.0	151.5	156.0	157.6	154.1	147.9	140.4
FINAL PRODUCTS	47.82	145.3	141.9	142.7	148.0	148.9	148.0	149.5	155.0	150.1	154.4	156.5	153.6	147.6	140.1
CONSUMER GOODS	27.68	145.4	138.1	140.8	147.0	148.1	147.2	148.4	154.4	147.7	154.7	156.2	153.0	144.4	134.5
EQUIPMENT	20.14	145.2	147.0	145.3	147.0	149.9	149.1	151.0	155.9	153.3	154.0	157.0	154.4	151.9	147.9
INTERMEDIATE PRODUCTS	12.89	151.9	149.7	148.1	154.1	155.1	155.2	155.9	159.7	156.9	162.0	161.5	156.0	149.1	141.5
MATERIALS	39.29	147.6	149.6	150.4	155.4	156.7	154.5	155.1	157.2	150.2	154.3	153.2	150.1	144.2	137.2
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	136.7	132.1	134.1	142.8	148.3	148.3	150.5	153.6	134.8	137.4	142.4	145.0	131.8	117.9
AUTOMOTIVE PRODUCTS	2.83	132.8	125.2	127.1	136.8	149.7	153.1	160.6	163.3	128.4	122.0	132.5	145.1	126.9	111.1
AUTOS & UTILITY VEHICLES	2.03	110.1	97.0	99.1	111.0	130.1	134.7	144.1	147.7	100.5	84.9	97.2	115.5	99.7	74.5
AUTOS, TOTAL	1.90	103.6	88.6	90.0	102.9	121.3	127.4	135.6	137.8	95.1	81.4	89.8	105.4	86.8	67.3
AUTO PARTS & ALLIED GOODS	.80	190.4	197.0	198.0	202.4	199.3	199.6	202.6	202.8	199.4	216.2	221.9	220.1	208.6	203.9
HOME GOODS	5.06	138.9	136.0	138.1	146.2	147.5	145.7	144.9	148.2	138.4	146.0	148.0	145.0	134.5	121.8
APPLIANCES, AIR COND & TV	1.40	117.3	106.8	125.4	132.0	136.8	129.7	127.0	124.6	112.5	120.6	124.2	126.7	102.4	75.3
APPLIANCES AND TV	1.33	119.5	109.0	126.5	133.2	136.4	128.7	126.0	125.4	114.2	125.3	128.7	130.6	104.5	
CARPETING AND FURNITURE	1.07	155.2	155.7	149.6	164.1	163.5	163.9	160.4	166.8	146.3	161.2	166.3	160.2	152.0	
MISC. HOME GOODS	2.59	143.8	143.7	140.1	146.5	146.8	146.8	148.1	153.3	149.3	153.5	153.3	148.6	144.7	139.1
NONDURABLE CONSUMER GOODS	19.79	148.9	140.5	143.5	148.7	148.0	146.7	147.6	154.8	152.9	161.6	161.7	156.1	149.4	141.0
CLOTHING	4.29	126.0	102.7	113.1	125.1	124.3	123.6	121.9	129.3	109.7	128.5	128.9	123.8		
CONSUMER STAPLES	15.50	155.2	151.0	151.9	155.2	154.6	153.1	154.8	161.9	164.8	170.8	170.7	165.1	158.7	152.4
CONSUMER FOODS & TOBACCO	8.33	147.4	141.0	140.9	145.9	147.5	146.5	148.1	151.9	149.4	158.8	161.0	159.1	152.3	
NONFOOD STAPLES	7.17	164.3	162.6	164.6	166.0	162.7	160.8	162.5	173.4	182.6	184.6	182.0	172.1	166.3	164.4
CONSUMER CHEMICAL PROD	2.63	208.9	202.9	197.1	208.0	212.5	215.2	220.9	234.5	242.8	240.4	245.9	233.2	220.4	
CONSUMER PAPER PRODUCTS	1.92	123.1	120.9	120.2	124.9	124.1	122.8	124.1	131.3	133.8	139.8	137.5	132.3	126.5	
CONSUMER ENERGY PROD	2.62	149.8	152.7	164.5	154.0	141.1	134.0	131.9	142.9	158.0	161.5	150.5	139.8	141.0	
RESIDENTIAL UTILITIES	1.45	167.9	169.3	192.4	177.1	160.5	147.4	142.9	158.7	186.9	187.8	169.7	153.3		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	173.2	173.5	172.0	178.4	179.0	178.0	180.2	187.5	184.1	184.9	189.2	184.5	179.8	172.5
INDUSTRIAL EQUIPMENT	6.77	156.5	157.6	157.5	164.4	164.6	163.5	164.3	170.6	167.2	170.4	173.6	170.5	167.3	161.9
BUILDING AND MINING EQUIP	1.44	239.9	256.3	258.4	271.7	274.3	276.9	280.6	288.5	286.1	293.9	301.1	302.2	300.2	294.9
MANUFACTURING EQUIPMENT	3.85	128.2	125.3	124.5	130.5	129.3	126.9	126.3	132.3	128.9	131.5	132.8	127.8	124.5	118.4
POWER EQUIPMENT	1.47	148.9	145.1	144.5	147.7	149.1	147.8	149.8	155.2	150.8	155.8	155.1	153.1	148.7	144.9
COM'L, TRANSIT, FARM EQ	5.86	192.4	192.0	188.7	194.5	195.7	194.7	198.5	206.9	203.5	201.6	207.3	200.5	194.2	184.7
COMMERCIAL EQUIPMENT	3.26	237.8	240.1	235.5	247.1	245.1	247.1	254.9	268.2	273.4	274.1	279.7	265.5	259.4	245.5
TRANSIT EQUIPMENT	1.93	139.9	136.3	133.4	130.4	135.4	131.5	132.1	133.2	118.9	114.9	119.8	122.9	117.1	113.8
FARM EQUIPMENT	.67	123.1	118.2	120.4	123.2	128.6	122.3	115.4	121.3	106.8	98.7	107.3	108.0	99.2	
DEFENSE AND SPACE EQUIPMENT	7.51	98.2	102.3	100.6	100.7	101.1	100.7	102.1	102.7	101.5	102.1	102.7	103.8	105.1	106.7
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	140.9	138.9	138.1	146.3	148.4	150.2	149.2	149.1	142.1	145.3	143.4	139.6	132.6	123.3
BUSINESS SUPPLIES	6.47	162.8	160.5	158.0	161.9	161.7	160.1	162.7	170.2	171.5	178.7	179.5	172.2	165.5	
COMMERCIAL ENERGY PRODUCTS	1.14	172.3	170.0	174.6	170.7	168.0	162.4	169.1	181.6	195.3	196.1	187.2	173.8	165.6	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	143.0	145.9	144.6	150.6	154.7	154.0	156.2	156.1	148.0	151.6	151.9	147.9	140.6	133.6
DURABLE CONSUMER PARTS	4.58	107.8	116.1	113.0	114.7	119.9	121.2	123.4	124.6	116.2	116.7	115.0	109.6	101.8	94.7
EQUIPMENT PARTS	5.44	187.2	189.5	187.8	188.7	191.5	191.5	195.1	194.7	188.1	191.8	194.5	192.7	189.0	188.7
DURABLE MATERIALS NEC	10.34	135.3	136.1	135.8	146.5	150.8	148.7	150.2	149.8	141.0	145.9	145.0	141.3	132.4	121.6
BASIC METAL MATERIALS	5.57	105.3	107.9	111.9	120.1	126.0	122.0	123.4	118.6	107.0	112.1	111.4	105.8	96.2	
NONDURABLE GOODS MATERIALS	10.47	171.5	172.4	175.5	181.4	180.6	182.6	181.0	181.5	169.2	175.6	175.8	174.2	165.7	151.8
TEXTILE, PAPER, & CHEM MAT	7.62	177.7	180.7	182.2	188.7	188.4	191.6	189.9	189.1	176.7	182.7	182.7	177.7	170.2	155.3
TEXTILE MATERIALS	1.85	117.4	103.8	110.5	116.2	114.6	116.8	118.6	119.8	100.7	120.4	118.4	117.9	108.6	
PAPER MATERIALS	1.62	145.6	137.2	148.6	156.2	160.2	157.8	154.7	155.4	140.7	153.0	150.9	150.7	149.0	
CHEMICAL MATERIALS	4.15	217.2	232.1	227.4	233.8	232.5	238.2	236.0	233.2	224.7	222.1	223.9	214.9	206.0	
CONTAINERS, NONDURABLE	1.70	165.9	150.9	165.3	176.1	174.1	174.1	170.5	178.5	166.5	174.7	173.9	174.6	160.0	
NONDURABLE MATERIALS NEC	1.14	138.2	149.2	145.5	140.6	138.2	135.3	137.0	135.2	123.7	130.2	132.7	150.5	144.3	
ENERGY MATERIALS	8.48	129.3	130.5	133.5	134.8	132.0	121.2	120.7	129.8	132.0	134.6	128.2	125.8	126.5	128.0
PRIMARY ENERGY	4.65	115.2	115.3	114.4	119.1	117.9	105.2	105.6	115.2	116.0	121.0	117.8	116.2	115.7	
CONVERTED FUEL MATERIALS	3.82	146.5	149.0	156.5	153.8	149.1	140.6	139.0	147.5	151.2	151.0	140.8	137.5	139.6	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	133.0	120.7	126.6	136.5	136.8	135.6	134.3	139.5	125.3	138.0	139.2	135.2	125.9	111.7
ENERGY, TOTAL	12.23	137.7	138.9	143.9	142.2	137.3	127.7	127.6	137.4	143.4	146.1	138.5	133.3	133.2	137.4
PRODUCTS	3.76	156.6	157.9	167.6	159.1	149.3	142.6	143.2	154.6	169.3	172.1	161.6	150.1	148.5	
MATERIALS	8.48	129.3	130.5	133.5	134.8	132.0	121.2	120.7	129.8	132.0	134.6	128.2	125.8	126.5	128.0

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	1980	1980	1981											
		PRO- TION	1980 AVG.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES		12.05	149.5	152.4	153.3	154.1	154.8	150.5	152.1	156.3	159.1	158.2	155.8	156.4	155.3	154.7
MINING		6.36	132.7	138.6	140.4	143.1	143.2	135.2	135.4	141.7	146.5	146.0	145.0	145.7	144.0	143.8
UTILITIES		5.69	168.3	167.9	167.6	166.4	167.8	167.6	170.7	172.7	173.1	171.9	167.8	168.4	167.9	167.0
MANUFACTURING		87.95	146.7	150.4	151.1	151.2	151.6	152.0	152.8	152.4	153.2	153.2	151.1	148.2	145.1	141.7
NONDURABLE		35.97	161.2	165.0	165.6	166.2	165.3	165.9	166.4	165.8	167.1	167.3	165.9	163.2	160.5	157.2
DURABLE		51.98	136.7	140.3	141.0	140.8	142.1	142.5	143.5	143.2	143.6	143.4	140.9	137.9	134.4	131.0
MINING																
METAL MINING	10	.51	109.2	122.2	125.5	134.1	131.1	123.1	125.0	123.5	123.6	124.1	121.5	119.3	108.3	
COAL	11,12	.69	146.7	153.5	147.5	159.0	151.2	75.9	77.0	122.9	170.0	167.4	161.9	166.9	160.8	158.8
OIL AND GAS EXTRACTION	13	4.40	133.3	138.4	141.4	142.2	144.1	146.1	146.2	148.2	147.7	148.2	148.8	149.2	148.9	149.3
STONE AND EARTH MINERALS	14	.75	132.8	137.4	138.4	140.0	138.8	133.7	132.2	132.7	133.3	128.2	123.4	124.0	124.2	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	149.6	151.0	151.9	152.5	152.4	151.9	152.2	151.3	151.6	151.9	150.7	151.6	152.4	
TOBACCO PRODUCTS	21	.67	119.9	118.8	123.5	125.4	125.7	122.2	122.3	120.9	121.3	123.8	122.4	122.0		
TEXTILE MILL PRODUCTS	22	2.68	138.6	135.6	138.4	139.3	136.2	138.9	138.8	138.3	139.4	140.7	136.3	132.4	127.9	
APPAREL PRODUCTS	23	3.31	127.0	122.7	123.8	121.6	120.3	121.6	122.6	121.1	122.6	122.6	122.5	118.4		
PAPER AND PRODUCTS	26	3.21	151.1	157.0	156.5	156.0	157.6	157.0	155.9	153.4	154.9	156.7	158.6	153.3	152.3	152.8
PRINTING AND PUBLISHING	27	4.72	139.6	143.0	143.9	144.8	142.7	141.6	141.3	143.1	144.4	146.1	145.9	145.9	143.5	144.0
CHEMICALS AND PRODUCTS	28	7.74	207.1	220.5	218.9	219.8	218.5	219.8	220.6	218.4	221.5	219.2	216.3	209.7	203.7	
PETROLEUM PRODUCTS	29	1.79	132.9	131.3	133.1	131.5	130.3	130.0	129.8	129.3	128.7	130.4	129.1	128.3	128.4	129.1
RUBBER & PLASTICS PRODUCTS	30	2.24	255.7	262.3	264.0	270.2	269.5	275.2	280.3	285.1	285.3	286.7	282.2	276.3	267.5	
LEATHER AND PRODUCTS	31	.86	70.1	67.9	68.9	68.3	68.8	68.9	69.8	68.4	70.1	69.6	69.7	71.2	69.7	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	78.5	79.6	78.6	78.4	78.5	79.8	80.9	80.9	80.6	81.8	82.3	82.6	83.9	84.2
LUMBER AND PRODUCTS	24	1.64	119.3	123.6	127.4	126.2	125.6	126.3	126.2	122.5	122.9	119.1	113.2	109.6	106.2	
FURNITURE AND FIXTURES	25	1.37	150.0	148.6	150.0	154.3	155.6	158.7	158.9	162.4	164.9	163.3	159.9	157.2	154.5	
CLAY, GLASS, STONE PROD	32	2.74	147.5	153.0	156.8	156.4	154.6	154.3	151.7	148.1	148.7	148.2	147.3	143.5	139.5	
PRIMARY METALS																
IRON AND STEEL	33, 331,2	4.21	92.4	103.0	108.7	108.4	108.0	103.4	105.6	98.5	99.7	105.1	99.2	91.8	86.8	
FABRICATED METAL PROD	34	5.93	134.1	135.7	135.8	137.6	139.2	139.5	138.4	139.3	140.1	140.0	136.8	133.7	129.0	125.1
NOELECTRICAL MACHINERY	35	9.15	162.8	166.9	167.3	168.3	169.2	169.7	172.1	174.1	176.7	176.4	173.9	170.2	168.1	164.3
ELECTRICAL MACHINERY	36	8.05	172.8	175.1	177.6	174.9	177.4	178.8	179.9	180.1	180.9	182.6	180.0	179.6	175.7	170.2
TRANSPORTATION EQUIP																
MOTOR VEHICLES & PTS	37	9.27	116.9	120.4	117.4	116.1	119.5	121.3	123.7	123.4	119.8	115.4	114.2	110.6	105.4	103.9
AEROSPACE & MISC	372-9	4.50	119.0	125.7	120.0	119.9	127.1	130.7	136.4	137.5	130.5	123.1	120.4	113.8	104.3	100.9
INSTRUMENTS	38	2.11	171.1	171.9	173.9	171.1	170.0	170.0	170.6	171.3	172.1	172.3	169.7	168.6	167.0	165.0
MISCELLANEOUS MFRS	39	1.51	148.3	151.0	152.9	154.9	155.4	157.3	157.0	158.8	159.4	158.6	154.2	152.5	154.3	153.0
UTILITIES																
ELECTRIC		3.88	189.7	189.5	189.3	187.1	188.9	188.6	192.9	195.6	196.2	194.2	188.3	189.3	189.0	188.0

Table 3

INDUSTRIAL PRODUCTION: PERCENT CHANGES

Based on seasonally adjusted indexes

	1981											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
CHANGE FROM PREVIOUS MONTH												
TOTAL INDEX	-.7	-.3	-.2	-.1	.5	.1	-.7	-.2	-1.3	-1.6	-1.9	-2.1
FINAL PRODUCTS	-.0	-.3	-.5	-.6	-.9	-.1	-.5	-.4	-1.0	-1.6	-1.1	-1.4
CONSUMER GOODS	-.1	-.6	-.3	-.4	1.2	-.3	-.3	-.7	-1.2	-.6	-1.3	-1.9
DURABLE CONSUMER GOODS	-.9	-.8	1.7	-.5	2.1	-.4	-.9	-2.7	-1.5	-2.9	-4.8	-4.2
NONDURABLE CONSUMER GOODS	-.2	-.6	-.3	-.4	-.9	-.6	-.7	-.1	-1.1	-.3	-.1	-1.1
BUSINESS EQUIPMENT	-.3	-.1	1.0	-.9	-.6	-.9	-.7	-.2	-.9	-1.2	-1.2	-1.2
INTERMEDIATE PRODUCTS	1.4	-.1	-.4	-.5	-.1	-.8	-.8	-.4	-1.4	-2.1	-1.5	-1.5
MATERIALS	1.1	-.3	-.1	-1.0	-.3	-.4	-.8	-.1	-1.7	-2.6	-3.0	-3.2
DURABLE GOODS MATERIALS	1.8	-.4	1.1	-.3	-.7	-.3	-.8	-.5	-2.5	-3.2	-3.6	-3.9
NONDURABLE GOODS MATERIALS	-.3	-.2	-1.3	1.0	-.2	-1.2	-.2	-.6	-.1	-2.8	-3.6	-3.6
MANUFACTURING	-.5	-.1	-.3	-.3	-.5	-.3	-.5	-.0	-1.4	-1.9	-2.1	-2.3
NONDURABLE	-.4	-.4	-.5	-.4	-.3	-.4	-.8	-.1	-.8	-1.6	-1.7	-2.1
DURABLE	-.5	-.1	-.9	-.3	-.7	-.2	-.3	-.1	-1.7	-2.1	-2.5	-2.5
MINING AND UTILITIES	-.5	-.5	-.5	-2.8	1.1	2.8	1.8	-.6	-1.5	-.4	-.7	-.4
CHANGE FROM SAME MONTH A YEAR AGO												
TOTAL INDEX	-1.0	-.7	-.0	2.5	6.2	8.1	9.7	8.0	5.0	1.8	-1.9	-4.7
FINAL PRODUCTS	-.4	-.3	1.0	3.1	5.9	6.5	6.8	5.7	4.1	2.3	-.1	-1.6
CONSUMER GOODS	-.7	-.3	-.2	2.5	6.1	6.0	6.1	4.7	2.3	-.4	-2.1	-3.3
DURABLE CONSUMER GOODS	-2.0	-2.7	-.5	5.7	14.4	15.5	14.5	11.1	5.2	-1.9	-9.5	-12.0
NONDURABLE CONSUMER GOODS	-.2	-.7	-.4	1.4	3.2	2.7	3.1	2.6	1.3	1.3	-.7	-.1
BUSINESS EQUIPMENT	1.4	-.6	1.8	3.7	5.9	8.2	9.0	7.8	7.0	5.0	2.6	-.5
INTERMEDIATE PRODUCTS	-2.1	-.9	-.9	4.0	7.3	7.8	8.0	5.3	2.2	-.7	-2.7	-5.4
MATERIALS	-2.4	-1.7	-.8	1.3	6.4	10.2	13.9	11.8	7.0	1.8	-4.0	-8.3
DURABLE GOODS MATERIALS	-4.0	-3.0	-1.6	2.6	9.1	13.6	19.1	17.5	12.3	4.4	-3.9	-8.5
NONDURABLE GOODS MATERIALS	-1.1	-.5	-.1	3.5	8.2	10.9	12.3	8.7	2.5	-2.1	-6.1	-11.7
MANUFACTURING	-1.6	-1.2	-.3	2.7	6.5	8.7	10.0	8.5	5.0	1.2	-2.6	-5.8
NONDURABLE	-.2	-.2	-.6	2.7	5.2	6.9	8.1	6.2	3.0	-.7	-1.5	-4.7
DURABLE	-2.6	-2.5	-1.0	2.9	7.7	10.2	11.6	10.4	6.7	1.6	-3.4	-6.6
MINING AND UTILITIES	3.9	3.6	2.4	1.0	2.7	5.0	6.8	5.5	4.2	5.0	2.5	1.5

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS
 Not seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967	1980	1980	1981											
		PRO- POR- TION	AVG.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES																
MINING		12.05	149.5	153.1	158.6	158.1	154.4	145.2	145.5	155.6	161.4	164.1	156.8	152.8	151.8	155.7
UTILITIES		6.36	132.7	137.9	137.3	141.7	143.1	135.1	135.9	142.8	143.0	146.9	146.4	148.1	145.5	143.2
MANUFACTURING																
NONDURABLE		87.95	146.7	144.9	144.8	150.7	152.5	152.4	153.4	156.6	149.5	154.3	155.5	152.6	145.7	136.8
DURABLE		35.97	161.2	156.5	156.9	164.3	164.8	165.3	166.1	170.5	163.9	172.2	173.4	169.6	161.3	149.2
		51.98	136.7	137.0	136.4	141.3	144.1	143.4	144.7	147.0	139.5	142.0	143.1	140.8	135.0	128.2
MINING																
METAL MINING	10	.51	109.2	114.0	115.7	125.6	126.6	123.1	131.3	132.1	124.6	131.3	129.6	122.2	105.4	
COAL	11,12	.69	146.7	143.6	137.5	160.5	161.3	80.7	80.4	130.3	145.2	169.7	164.7	172.7	158.1	148.3
OIL AND GAS EXTRACTION	13	4.40	133.3	139.9	141.0	142.7	144.0	145.1	145.2	147.1	146.5	148.1	148.9	150.2	151.2	150.9
STONE AND EARTH MINERALS	14	.75	132.8	137.5	130.1	129.1	132.6	134.2	135.5	136.7	132.8	129.5	126.6	130.9	128.2	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	149.6	146.5	143.9	147.3	148.6	148.0	149.4	153.0	150.7	158.5	161.8	161.5	153.9	
TOBACCO PRODUCTS	21	.67	119.9	97.1	126.0	132.5	128.3	117.0	118.8	123.8	107.3	129.3	132.2	133.8		
TEXTILE MILL PRODUCTS	22	2.68	138.6	124.4	127.3	135.9	135.8	140.0	142.1	145.9	128.1	147.1	144.5	140.4	130.7	
APPAREL PRODUCTS	23	3.31	127.0	103.0	115.1	127.7	125.7	124.4	122.6	128.4	108.3	128.4	130.1	124.8		
PAPER AND PRODUCTS	26	3.21	151.1	142.3	153.2	161.3	165.1	162.8	158.4	159.4	145.0	157.4	156.9	157.3	151.4	138.4
PRINTING AND PUBLISHING	27	4.72	139.6	136.4	130.0	136.0	135.3	135.6	138.6	147.8	152.7	158.8	159.8	152.7	144.9	136.7
CHEMICALS AND PRODUCTS	28	7.74	207.1	211.7	208.3	215.0	217.2	221.6	222.8	226.0	223.5	221.8	222.6	213.5	203.0	
PETROLEUM PRODUCTS	29	1.79	132.9	134.9	130.0	127.8	124.8	124.9	127.7	131.9	131.6	135.4	132.0	128.3	131.8	131.6
RUBBER & PLASTICS PRODUCTS	30	2.24	255.7	255.8	255.3	282.1	280.4	279.1	279.1	286.0	268.4	280.4	285.0	284.4	271.0	
LEATHER AND PRODUCTS	31	.86	70.1	64.4	67.4	70.7	72.0	70.3	71.5	70.9	59.7	69.7	70.7	74.9	70.2	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	78.5	79.4	78.8	78.8	79.0	80.1	81.1	81.7	80.9	81.3	81.1	81.7	83.2	84.1
LUMBER AND PRODUCTS	24	1.64	119.3	113.7	119.8	126.4	127.4	127.5	126.8	126.8	119.4	122.7	117.2	114.8	105.0	
FURNITURE AND FIXTURES	25	1.37	150.0	149.5	147.7	162.8	158.7	158.1	154.0	162.9	148.0	164.0	165.5	159.2	156.5	
CLAY, GLASS, STONE PROD	32	2.74	147.5	146.0	143.6	146.4	150.5	155.6	154.4	155.8	149.8	154.4	151.8	149.2	141.8	
PRIMARY METALS																
IRON AND STEEL	33,2	6.57	102.3	104.3	108.7	116.9	123.2	119.2	120.2	113.1	102.3	109.0	106.2	100.1	91.6	84.3
FABRICATED METAL PROD	34	5.93	134.1	134.3	131.8	139.7	140.8	138.8	138.2	140.6	136.2	139.9	138.8	135.9	130.3	123.9
NONELECTRICAL MACHINERY	35	9.15	162.8	162.4	161.0	169.2	169.6	167.7	170.0	178.3	176.7	177.1	180.4	174.0	168.4	159.9
ELECTRICAL MACHINERY	36	8.05	172.8	173.6	174.2	175.6	177.6	177.1	179.4	182.4	175.4	181.1	184.5	185.1	178.1	169.5
TRANSPORTATION EQUIP	37	9.27	116.9	117.6	115.3	116.6	123.8	124.7	127.7	128.7	112.3	107.6	111.9	114.4	107.2	102.3
MOTOR VEHICLES & PTS	371,2	4.50	119.0	118.1	117.3	121.1	134.5	137.3	143.6	146.9	118.1	109.0	114.9	121.3	107.1	95.6
AEROSPACE & MISC	372,3	4.77	114.9	117.1	113.4	112.3	113.6	112.9	112.8	111.5	106.7	106.4	109.0	107.8	107.3	108.2
INSTRUMENTS	38	2.11	171.1	172.1	168.5	168.7	168.5	167.3	169.8	174.7	172.4	172.4	173.8	171.0	169.7	165.0
MISCELLANEOUS MFRS	39	1.51	148.3	145.6	142.2	153.3	153.6	154.0	154.6	162.3	154.8	164.9	165.0	158.8	155.8	147.5
UTILITIES																
ELECTRIC		3.88	189.7	189.7	204.5	195.8	184.1	171.3	173.5	195.2	213.5	215.0	193.4	177.5	175.7	188.4

Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1980	1980	1981												
		PRO- TION	FOR- AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
METAL MINING	10	.51															
IRON ORE	101,6	.24	96.6	97.7	113.6	119.8	117.1	116.2	101.6	96.8	100.2	106.7	109.9	108.6	108.8	82.4	
NONFERROUS ORES	102-5,8,9	.27	120.4	124.7	132.8	131.4	135.0	133.1	130.0	134.3	134.4	158.4	152.7	150.5	141.9	137.8	
COPPER ORE	102	.14	134.7	145.3	162.1	158.2	162.6	158.9	158.9	166.1	170.3	207.8	196.4	189.7	176.0		
LEAD AND ZINC ORES	103	.03	89.0	82.6	82.1	83.8	82.6	80.3	61.3	65.0	49.5	73.9	79.4	96.1	89.5		
ANTHRACITE	11	.03	43.7	41.3	39.7	32.5	64.8	52.0	62.5	25.2	52.3	58.3	47.7	35.6	49.9	62.5	
BITUMINOUS COAL	12	.66	150.9	150.0	163.2	170.1	172.3	164.1	79.9	75.8	122.7	174.1	179.5	151.7	158.8	156.3	
OIL AND GAS EXTRACTION	13	4.40															
CRUDE OIL & NATURAL GAS	131	3.61	97.9	96.7	98.6	98.7	97.5	98.7	99.3	98.3	99.3	98.2	98.9	98.1	97.6	97.2	
CRUDE OIL, TOTAL		2.94	94.9	93.2	95.1	95.4	95.0	95.7	96.3	95.2	96.2	95.2	94.8	95.0	94.0	93.9	
ALASKA, CALIF. CRUDE		.31	243.5	235.4	243.8	245.8	248.2	249.4	255.9	251.0	257.3	251.6	246.0	248.5	245.6	246.8	
TEXAS CRUDE		1.07	86.9	85.7	85.8	86.0	85.3	85.7	84.8	84.6	84.8	85.0	84.9	84.5	83.5	82.9	
LA. AND OTHER CRUDE		1.57	71.5	70.6	72.4	72.5	71.7	72.6	73.0	72.1	72.6	71.6	72.0	72.3	71.7	71.6	
NATURAL GAS		.67	111.1	111.9	114.4	113.3	108.7	111.8	112.7	111.8	112.8	111.5	116.8	111.5			
NATURAL GAS LIQUIDS	132	.30	102.7	101.4	100.9												
LP PROPANE		.04	93.4	94.3	91.5												
LP MATERIALS		.26	104.2	102.6	102.4												
OIL AND GAS DRILLING	138	.50	405.8	439.5	440.9	463.0	487.7	502.1	523.0	528.4	527.8	531.1	534.5	538.1	544.6	546.3	
FOODS	20	8.75															
MEAT PRODUCTS	201	1.17	123.1	117.4	123.3	127.0	124.6	126.7	127.9	128.3	121.9	124.4	119.0	120.7	120.2	118.7	
BEEF		.40	106.6	106.5	109.8	110.0	108.5	113.7	112.2	113.7	110.6	108.7	108.3	110.0	109.0	110.3	
PORK		.55	131.8	122.2	129.4	133.1	128.6	127.8	130.5	130.5	124.2	129.4	120.8	122.2	122.9	117.9	
MISC. MEATS		.22	130.9	124.8	132.2	142.2	143.3	147.2	149.7	149.0	136.6	140.0	133.5	136.1	133.8	135.9	
DAIRY PRODUCTS	202	1.14	129.5	133.7	132.4	133.0	133.6	133.0	132.6	132.1	131.1	132.1	134.1	135.9	137.0	138.5	
BUTTER	2021	.04	92.7	100.1	96.9	98.0	99.9	105.0	98.2	97.8	90.6	88.7	108.1	109.5	106.1	108.9	
CHEESE	2022	.07	275.1	302.4	307.7	304.7	295.4	291.8	286.8	280.9	280.8	269.7	285.0	307.3	318.6	316.5	
CONCENTRATED MILK	2023	.12	59.0	63.6	64.0	62.3	63.7	61.8	61.0	58.6	55.8	59.1	68.6	70.5	72.5	78.5	
FROZEN DESSERTS	2024	.13	136.8	145.2	130.9	137.9	145.0	140.7	141.5	141.6	137.0	142.2	141.0	141.1	142.3	148.8	
CANNED AND FROZEN FOODS	203	1.18	164.8	161.6	168.1	169.2	172.8	176.6	177.4	173.1	171.8	173.5	175.0	164.2	169.0	184.0	
GRAIN MILL PRODUCTS	204	.95	165.1	165.3	165.6	168.3	164.7	164.2	161.8	164.7	164.8	161.6	160.9	168.3	160.5	158.9	
FLOUR & CORN MILL.	2041,6	.28	114.0	124.5	118.1	128.6	117.8	120.8	115.3	122.0	117.8	111.3	114.5	114.1	112.3	115.4	
BAKERY PRODUCTS	205	1.15	125.0	127.7	128.7	126.5	130.1	129.0	128.7	129.4	129.0	128.1	129.1	127.5	130.0	129.8	
SUGAR	206	.21	128.1	127.8	127.2	127.1	148.1	133.3	132.5	148.5	143.1	116.2	139.9	132.0	133.4	112.3	
CONFECTIONERY	207	.41	109.8	130.6	114.2	97.8	91.0	92.4	92.6	83.5	85.7	94.8	89.5	89.5	106.3	96.6	
BEVERAGES	208	1.58	193.2	200.0	195.4	189.2	206.4	201.6	196.2	199.3	193.0	194.6	194.0	195.2	197.7	201.4	
BEER AND ALE	2082,3	.52	164.5	172.3	158.5	151.8	176.3	175.4	165.4	179.6	163.9	161.2	168.1	164.9			
WINES AND BRANDY	2084	.07	251.9	264.9	238.1	257.1	261.6	253.5	274.5	262.1	286.7	297.1					
LIQUORS	2085	.24	122.4	120.8	111.9	116.4	130.3	122.1	125.8	126.8	130.3	147.7	132.2	139.7	132.2	128.9	
SOFT DRINKS	2086,7	.74	231.4	239.5	244.9	233.4	247.6	241.3	233.9	231.4	225.8	224.4	224.6	227.2	232.8	236.8	
MISC. FOOD PREPARATIONS	209	.97	151.6	153.9	152.3	152.3	149.8	153.4	151.7	154.7	155.2	155.8	159.4	162.3	160.6	160.1	
FATS AND OILS	2091-4,6	.30	149.3	148.5	148.9	141.0	138.8	142.2	143.5	139.1	147.1	147.4	144.6	158.1	154.7	151.8	
COFFEE, MISC. FOOD	2095,7-9	.67	152.6	156.3	155.6	157.4	154.8	158.5	155.4	161.8	158.9	159.7	166.1	164.1	163.4		
TOBACCO PRODUCTS	21	.67															
CIGARETTES	211	.54	122.8	126.3	120.8	130.3	129.2	136.4	126.1	126.1	117.1	131.9	135.8	130.9	125.4	123.9	
CIGARS	212	.07	58.2	61.3	59.5	61.2	58.3	64.3	57.8	57.5	56.3	64.0	63.6	58.3	54.2	57.9	
TEXTILE MILL PRODUCTS	22	2.69															
FABRICS	221-4	1.05	105.1	105.1	102.9	94.6	99.0	97.7	102.8	103.1	107.2	122.4	110.0	109.3	104.1	97.4	
COTTON FABRICS	221,4	.60	73.6	70.8	64.8	67.3	67.4	64.7	67.4	67.7	65.9	73.5	67.7	66.8	68.6	63.2	
MAN-MADE FABRICS	222	.30	191.1														
WOOL FABRICS	223	.14	55.0														
KNIT GOODS	225	.63	180.7	185.0	180.6	188.1	185.2	182.4	183.3	188.4	185.0	197.7	197.6	186.5	186.3	188.7	
HOSIERY	2251,2	.21	205.5	213.6	213.8	229.1	220.1	216.6	221.4	238.2	213.6	243.1	241.6	223.3	238.0	242.3	
KNIT GARMENTS	2253-9	.42	168.1	170.5	163.8	167.2	167.4	165.1	164.0	163.1	170.5	174.6	175.2	167.8	160.0	161.5	
FABRIC FINISHING	226	.23	140.5	141.3	136.0	137.0	146.9	147.6	145.4	142.7	141.3	157.4	141.7	141.5	143.1	136.4	
CARPETING	227	.20	203.2	217.1	212.6	204.8	193.0	202.7	193.8	207.5	201.6	186.3	184.3	184.2	164.9	159.2	
YARN & MISC. TEXTILES	228,9	.57	130.6	124.0	117.8	121.6	122.9	119.9	121.4	121.1	121.6	126.7	126.1	129.3	121.2	115.4	
APPAREL PRODUCTS	23	3.33															
MEN'S OUTERWEAR	231,2	1.06	127.7	140.8	117.4	113.0	107.9	109.7	108.7	113.6	110.9	118.4	120.8	121.1	113.9		
MEN'S SUITS AND COATS	231	.34	100.9	112.0	98.5	96.1	104.0	100.0	101.7	111.2	112.8	120.1	113.0	114.4	110.9		
MEN'S FURNISHINGS	232	.69	143.4	157.9	128.7	123.2	111.5	116.3	113.9	116.6	111.8	119.6	126.8	126.6	117.3		
WOMEN'S OUTERWEAR	233	1.05	158.9	157.9	146.3	147.2	153.2	151.1	146.8	151.1	150.4	146.7	149.9				
MISC. APP. & ALLIED GDS	234-9	1.20	98.7	99.9	102.0	103.8	104.5	105.7	104.9	103.3	104.3	106.7	105.3	103.8	103.8		
LUMBER AND PRODUCTS	24	1.54															
LOGGING AND LUMBER	241,2	.82	99.6	103.3	96.2	101.7	99.6	103.2	55.9	102.7	96.3	94.6	98.9	87.0	87.5	90.4	
LUMBER	242	.59	92.0	100.0	89.6	94.0	94.3	97.2	89.8	95.9	88.5	85.1	92.4	76.1	77.8		
LUMBER PRODUCTS	243,4,9	.82	138.9	145.5	147.0	151.6	151.7	150.1	154.6	148.2	150.5	150.9	140.0	140.6	133.4	126.8	
MILLWORK AND PLYWOOD	243	.50	149.4	158.8	160.1	167.6	167.1	164.4	171.8	160.9	164.1	167.1	147.0	148.7	139.3		
PLYWD, PREFAB PROD	2432,3	.29	172.9	184.5	184.6	197.7	198.7	193.3	205.4	183.7	191.7	199.8	169.0	172.8	160.3		
FURNITURE AND FIXTURES	25	1.37															
HOUSEHOLD FURNITURE	251	.87	144.4	141.3	144.8	145.6	151.6	153.5	154.2	153.1	157.9	160.3	154.2	153.1	150.5	147.4	

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

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967		1980			1981										
		PRO- POR- TION	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
METAL MINING	10	.51															
IRON ORE	101,61	.24	96.6	80.6	96.6	97.5	110.4	112.7	106.6	121.2	127.9	116.8	114.8	108.8	94.4	68.0	
NONFERROUS ORES	102-5,8,9	.27	120.4	125.5	129.5	131.9	139.2	139.0	137.8	140.3	135.9	131.6	146.1	148.1	147.0	138.7	
COPPER ORE	102	.14	134.7	146.5	155.3	158.8	170.4	167.6	172.1	176.6	162.1	186.6	185.3	185.0			
LEAD AND ZINC ORES	103	.03	89.0	81.5	79.8	81.1	88.3	86.9	64.6	64.2	50.2	66.7	76.8	94.7	90.3		
ANTHRACITE	11	.03	43.7	45.1	35.0	28.6	57.1	54.5	59.8	26.2	54.5	51.0	52.6	39.3	54.0	68.3	
BITUMINOUS COAL	12	.66	150.9	155.3	148.0	141.9	164.7	165.7	81.6	82.6	133.4	149.0	174.5	169.8	177.5	161.8	
OIL AND GAS EXTRACTION	13	4.40															
CRUDE OIL & NATURAL GAS	131	3.61	97.9	97.1	99.1	98.5	98.9	99.2	98.7	98.1	99.0	97.8	98.5	97.4	97.5	97.6	
CRUDE OIL, TOTAL		2.94	94.9	93.8	95.0	94.6	95.3	95.8	95.5	95.2	95.9	94.9	94.9	94.9	94.7	94.6	
ALASKA, CALIF. CRUDE		.31	243.5	241.3	244.8	246.0	247.7	248.2	248.7	245.5	250.4	250.6	251.4	252.2	251.2	253.0	
TEXAS CRUDE		1.07	86.9	85.9	86.0	85.1	85.4	86.2	85.1	84.7	84.7	84.7	84.6	84.2	83.8	83.1	
LA. AND OTHER CRUDE		1.57	71.5	70.5	72.0	71.6	72.3	72.7	72.8	73.1	73.5	71.5	71.5	71.6	71.5		
NATURAL GAS		.67	111.1	111.2	117.0	115.3	114.9	113.8	112.8	110.5	112.2	140.6	113.9	108.2			
NATURAL GAS LIQUIDS	132	.30	102.7	102.0	101.8												
LP PROPANE		.04	93.4	97.4	94.9												
LP MATERIALS		.26	104.2	102.8	102.9												
OIL AND GAS DRILLING	138	.50	405.8	455.3	455.9	469.5	480.9	489.0	502.1	509.4	519.4	524.7	538.2	548.9	559.8	566.0	
FOODS	20	8.75															
MEAT PRODUCTS	201	1.17	123.4	125.7	121.5	125.6	122.9	128.4	127.4	121.5	119.8	112.9	119.5	125.3	129.4	126.9	
BEEF		.40	106.6	108.2	106.2	113.0	111.9	113.0	107.9	107.2	110.6	104.0	111.1	112.6	114.8	112.1	
PORK		.55	131.8	137.4	131.9	133.4	129.5	136.9	137.0	123.2	115.5	107.3	113.8	123.9	131.1	132.5	
MISC. MEATS		.22	130.9	128.0	123.3	129.1	126.0	135.1	138.3	142.9	146.7	142.7	148.5	151.7	154.2	139.4	
DAIRY PRODUCTS	202	1.14	129.5	126.0	126.5	127.3	131.3	134.2	136.7	138.3	141.2	137.4	136.1	133.2	130.9	130.2	
BUTTER	2021	.04	92.7	87.8	96.6	115.5	116.7	113.3	113.5	115.3	93.8	78.4	84.3	83.9	95.6	95.5	
CHEESE	2022	.07	275.1	269.1	291.4	282.2	288.9	301.7	317.2	320.5	330.8	277.6	277.6	279.4	282.7	281.7	
CONCENTRATED MILK	2023	.12	59.0	46.4	55.8	55.3	61.3	62.9	71.5	73.7	75.7	68.5	67.0	59.4	55.4	57.3	
FROZEN DESSERTS	2024	.13	136.8	116.9	96.7	102.9	126.6	142.0	145.7	154.1	176.0	176.9	170.5	151.0	128.1	119.8	
CANNED AND FROZEN FOODS	203	1.18	164.8	166.6	155.3	152.1	160.4	163.5	163.7	163.9	168.9	172.3	187.3	198.8	196.6	189.7	
GRAIN MILL PRODUCTS	204	.95	165.1	169.6	167.3	166.5	163.4	160.3	154.3	157.3	161.4	159.9	167.2	173.3	169.7	163.0	
FLOUR & CORN MILL.	2041,6	.28	114.0	125.0	116.2	124.5	120.7	120.2	115.4	118.1	113.2	107.5	119.4	116.5	119.0	115.9	
BAKERY PRODUCTS	205	1.15	125.0	126.1	123.9	118.6	120.6	120.2	121.4	124.2	132.9	139.0	141.1	140.3	135.4	128.2	
SUGAR	206	.21	128.1	175.3	167.4	147.4	130.9	111.8	115.0	129.0	125.8	91.5	116.6	121.7	169.8	154.0	
CONFECTIONERY	207	.41	109.8	137.9	100.0	87.1	102.9	92.9	81.7	71.7	72.7	65.8	104.6	127.2	124.4	102.0	
BEVERAGES	208	1.58	193.2	189.9	178.0	173.0	183.2	191.8	193.4	203.5	210.9	209.3	212.5	209.0	204.1	191.4	
BEER AND ALE	2082,3	.52	164.5	143.0	131.7	134.3	163.8	172.2	182.1	198.6	191.9	185.9	186.4	161.9			
WINES AND BRANDY	2084	.07	251.9	321.1	274.5	245.5	233.1	268.7	250.3	250.0	283.3	232.0					
LIQUORS	2085	.24	122.4	136.1	110.3	108.2	117.6	126.9	122.9	122.4	138.3	119.1	125.9	147.6	159.9	145.1	
SOFT DRINKS	2086,7	.74	231.4	229.0	224.1	215.0	213.9	220.1	219.4	229.3	241.6	253.1	255.6	256.0	241.6	226.4	
MISC. FOOD PREPARATIONS	209	.97	151.6	159.0	159.5	159.0	159.9	155.4	153.8	151.5	148.6	144.3	152.8	155.1	160.7	165.3	
FATS AND OILS	2091-4,6	.30	149.3	159.0	158.4	152.7	152.5	151.8	142.3	132.3	138.4	126.4	130.2	143.9	159.3	162.3	
COFFEE, MISC. FOOD	2095,7-9	.67	152.6	159.0	160.0	161.8	163.2	157.1	159.0	160.2	153.3	152.5	163.1	160.2	161.4		
TOBACCO PRODUCTS	21	.67															
CIGARETTES	211	.54	122.8	130.5	96.8	132.4	139.1	133.8	122.2	123.8	130.5	113.0	143.7	134.2	136.3	128.0	
CIGARS	212	.07	58.2	64.9	43.1	57.3	62.7	66.2	56.6	59.2	59.0	48.3	67.4	64.2	65.2	61.3	
TEXTILE MILL PRODUCTS	22	2.69															
FABRICS	221-4	1.05	105.1	106.0	95.7	98.2	103.5	101.5	104.3	107.6	109.9	99.3	110.7	107.6	106.5	99.0	
COTTON FABRICS	221,4	.60	73.6	72.5	60.2	68.9	70.6	68.2	68.8	69.8	67.3	60.9	67.9	65.5	71.0	64.7	
MAN-MADE FABRICS	222	.30	191.1														
WOOL FABRICS	223	.14	55.0														
KNIT GOODS	225	.63	180.7	181.5	159.7	161.1	179.4	178.3	188.4	190.2	204.2	195.6	213.4	203.6	191.1	185.0	
HOSIERY	2251,2	.21	205.5	207.2	178.7	200.5	225.4	226.8	246.9	235.8	235.0	241.2	245.0	233.3	236.6	235.0	
KNIT GARMENTS	2253-9	.42	168.1	168.5	150.1	141.1	156.0	153.7	158.8	167.1	188.6	172.5	197.4	188.6	168.0	159.6	
FABRIC FINISHING	226	.23	140.5	140.6	129.7	138.4	150.6	156.9	150.3	151.0	152.0	114.3	145.0	142.4	146.9	135.7	
CARPETING	227	.20	203.2	225.6	205.8	177.9	182.0	199.5	203.3	209.3	205.0	171.2	175.9	201.0	189.8	165.4	
YARN & MISC. TEXTILES	228,9	.57	130.6	123.8	108.1	121.6	125.3	121.2	126.0	125.6	124.9	110.0	131.5	128.5	126.9	115.0	
APPAREL PRODUCTS	23	3.33															
MEN'S OUTERWEAR	231,2	1.06	127.7	130.6	95.3	112.2	120.1	120.5	120.0	120.0	118.2	88.9	116.0	125.8	121.4		
MEN'S SUITS AND COATS	231	.34	100.9	111.2	83.8	98.2	109.1	107.5	112.2	115.5	115.6	79.5	111.6	124.7	122.1		
MEN'S FURNISHINGS	232	.69	143.4	142.7	102.1	120.9	127.6	129.1	125.9	124.2	121.5	94.4	120.1	128.7	123.2		
WOMEN'S OUTERWEAR	233	1.05	158.9	151.9	117.6	141.3	166.0	159.9	157.4	150.6	156.7	128.5	154.4				
MISC. APP. & ALLIED GDS	234-9	1.20	98.7	98.3	97.2	94.8	100.0	100.5	99.6	100.5	109.8	108.1	116.8	114.5	107.8		
LUMBER AND PRODUCTS	24	1.64															
LOGGING AND LUMBER	241,2	.82	99.6	99.6	86.5	93.0	99.3	100.2	98.4	102.0	100.3	96.2	102.9	92.9	94.2	87.4	
LUMBER	242	.59	92.0	95.0	77.6	87.9	97.4	98.2	96.8	96.7	90.2	82.7	93.2	80.4	82.9		
LUMBER PRODUCTS	243,4,9	.82	138.9	144.9	140.8	146.4	153.4	154.5	156.4	151.4	153.2	142.6	142.4	141.4	135.4	126.5	
MILLWORK AND PLYWOOD	243	.50	149.4	156.6	150.3	161.4	168.2	170.0	173.5	165.1	168.0	155.6	152.7	151.1	142.7		
PLYWD, PREFAB PROD	2432,3	.29	172.9	180.8	167.9	191.7	204.8	205.7	210.1	191.2	194.9	177.6	175.3	174.6	164.9		
FURNITURE AND FIXTURES </																	

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1980	1980	1981												
		PRO- 1 TON	PRO- 1 AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
PAPER AND PRODUCTS	261	3.21															
PULP AND PAPER	261-3	1.38	144.1	147.1	151.3	147.8	148.7	152.0	149.8	148.3	147.2	149.3	149.7	157.5	145.4	147.4	
WOOD PULP	2611	.50	138.5	139.7	140.5	140.2	143.2	142.6	142.5	142.4	138.6	139.4	142.9	150.9			
PAPER	2621	.54	145.8	149.5	155.6	148.8	149.2	157.3	151.2	149.9	151.6	153.3	153.8	158.8	149.8	154.7	
PAPERBOARD	2631	.34	149.5	154.3	160.2	157.4	155.8	157.4	158.5	154.6	152.9	157.7	153.2	165.1	146.3	149.4	
CONVERTED PAPER PROD.	2641	.93	169.0	173.7	178.2	168.0	170.7	179.9	172.8	172.7	172.8	174.3	175.0	182.1	172.2	173.9	
SANITARY PAPER PROD.	2647	.18	138.1	142.1	142.4	145.0	147.4	150.4	145.9	148.0	148.5	147.9	149.2	150.1	149.3	145.8	
PAPERBOARD CONTAINERS	2651	.84	147.8	147.8	152.1	166.3	154.2	153.1	153.4	144.4	148.8	153.7	152.2	150.7	146.9	140.9	
BUILDING PAPER AND BOARD	2661	.06	87.7	90.2	95.1	97.0	92.4	90.1	93.3	86.9	88.7	91.8	78.4	77.3	68.5		
PRINTING AND PUBLISHING	271	4.72															
NEWSPAPERS	2711	1.38	109.1	108.1	109.8	108.8	110.1	107.6	107.5	106.6	105.0	109.8	109.7	109.1	108.5	106.0	
PERIOD., BOOKS, CARDS	272, 3, 7	1.38	127.2	134.6	132.7	133.7	136.1	133.6	130.8	132.6	133.0	132.3	133.1	132.0	133.8	133.7	
JOB PRINTING	274-6, 8, 9	1.96	169.8	171.7	175.3	176.5	181.2	176.5	173.5	172.0	175.2	177.5	181.1	179.6	180.5	179.4	
CHEMICALS AND PRODUCTS	281	7.74															
CHEMICALS & SYN. MAT.	281, 2	3.79	222.2	230.6	244.0	244.0	241.0	232.5	236.6	237.2	232.2	236.9	228.8	225.7	218.1	208.2	
BASIC CHEMICALS	2811	2.54	187.4	189.9	198.2	198.4	197.6	188.3	192.8	195.0	189.5	191.1	185.9	184.0	178.0	172.8	
ALKALIES & CHLORINE	2812	.14	121.4	125.0	131.6	124.1	125.5	119.3	121.8	119.8	121.7	115.1	113.0	112.7	104.4	100.0	
GASES, ETC.	2813, 5, 6	.48	184.3	196.5	207.5	203.2	200.7	188.7	186.2	189.0	182.2	185.0	182.2	172.0			
BASIC ORG. CHEM.	2818	1.18	231.6	232.1	242.5	242.7	244.0	232.5	243.6	250.0	239.4	240.1	240.3	233.4	229.6	226.3	
INORG. CHEM. NEC	2819	.75	132.4	131.6	135.5	140.1	136.6	131.7	130.7	128.8	132.7	134.2	115.0	121.2	114.9	111.6	
ACIDS & FERTILIZER MAT.		.55	145.9	147.8	153.3	156.9	150.4	145.9	145.1	142.5	146.1	146.7	121.1	131.0	124.9	119.6	
SULFURIC ACID, ETC.		.41	138.5	142.4	143.7	145.3	139.4	136.6	137.4	136.2	138.3	138.9	113.3	121.8	115.9	110.5	
FERTILIZER MATERIALS		.14	167.6	163.5	181.3	190.5	182.3	172.7	167.2	160.8	168.8	169.4	143.4	157.9	150.8	146.0	
ERDA NUCLEAR MATLS		.15	89.5	78.4	77.5	87.1	93.7	84.6	82.5	82.1	88.2	93.5	91.6	86.1	77.5	79.9	
SYNTHETIC MATERIALS	2821	1.25	293.3	313.7	337.2	336.7	329.3	322.5	326.0	323.0	319.2	330.1	316.1	310.5	299.6	280.1	
PLASTICS MATERIALS	28211	.54	386.5	424.8	446.0	459.6	448.2	456.4	440.5	439.1	440.2	443.1	431.9	424.8	408.9		
SYNTHETIC RUBBER	2822	.13	103.2	110.7	117.5	119.0	107.6	118.0	105.7	106.0	103.0	106.5	100.7	96.1			
MAN-MADE FIBERS	2823, 4	.58	250.3	257.0	286.6	272.4	269.7	244.9	270.1	264.9	256.3	276.5	257.9	253.5	246.0	226.8	
CHEMICAL PRODUCTS	283-7, 9	3.95	192.4	192.3	197.1	197.0	201.8	203.4	203.5	205.9	203.7	207.9	208.5	205.8	200.2	198.0	
DRUGS AND MEDICINES	2831	1.34	245.7	246.2	258.5	252.1	264.8	265.2	267.6	271.4	264.4	275.0	273.2	267.1	265.3	266.0	
SOAP AND TOILETRIES	2841	1.29	170.8	169.8	171.6	172.2	175.5	179.2	177.5	178.2	180.4	182.3	181.5	180.0	172.8	170.3	
PAINTS	2851	.43	130.5	127.1	120.8	125.2	125.4	132.6	131.6	133.5	131.7	129.5	139.6	133.4	121.0	107.4	
AGRICULTURAL CHEMICALS	2871	.33	230.5	234.7	238.2	248.6	238.9	232.8	235.8	239.2	241.1	248.1	250.0	256.7	239.9	239.5	
PETROLEUM PRODUCTS	291	1.79															
PETROLEUM REFINING	291, 9	1.64	132.8	129.5	132.4	134.9	133.3	129.5	129.2	128.9	128.6	127.1	130.4	129.6	128.3	129.7	
AUTOMOTIVE GASOLINE		.84	131.6	130.0	130.7	130.9	129.9	124.7	124.5	122.4	123.1	122.1	129.0	130.4	131.4	133.7	
DISTILLATE FUEL OIL		.29	120.8	118.5	126.4	131.6	126.1	115.2	120.8	120.1	119.9	115.8	120.5	118.4	112.1	118.0	
RESIDUAL FUEL OIL		.05	120.9	120.9	201.3	191.1	197.7	193.4	191.6	186.4	186.2	177.6	180.7	179.9	178.2	154.6	
AVIATION FUEL & KEROS.		.17	100.5	98.4	98.6	98.2	91.4	100.6	97.3	106.0	100.2	103.5	97.1	88.0	90.4	93.8	
MISC. PETROLEUM PROD.		.28	155.2	144.2	152.4												
REFINERY FUEL NEC		.06	138.5	121.4	146.0												
REFINERY NONFUEL MAT.		.14	187.6	174.7	175.8												
REFINERY PRODUCTS NEC		.08	108.6	105.4	114.8												
RUBBER & PLASTICS PROD.	301	2.24															
TIRES	3011	.60	123.3	126.9	120.1	130.3	136.2	142.6	136.4	156.8	152.0	191.4	160.4	148.4	143.5	132.1	
RUB. PROD. EX. TIRES	302, 3, 6	.66	139.1	143.6	144.4	143.0	144.7	143.8	143.2	149.0	149.5	151.5	148.2	146.9	144.2	137.8	
PLASTICS PRODUCTS NEC	3071	.98	415.9	412.4	428.6	436.4	438.5	436.8	446.1	444.5	452.7	467.9	454.2	452.2	451.6	433.5	
LEATHER AND PRODUCTS	311	.86															
PERS. LEATHER GDS.	313, 5-7, 9	.22	86.1	84.3	87.4	90.9	87.5	87.1	90.1	89.6	90.0	93.0	92.9	92.1	95.1	92.6	
SHOES	314	.53	65.7	68.5	61.6	64.3	62.3	63.4	61.9	65.1	57.4	62.3	59.3	60.5	63.4	63.3	
CLAY, GLASS, & ST. PROD.	321	2.74															
PRESSED AND BLOWN GLASS	3221	.49	159.7	159.6	158.4	161.9	166.4	162.5	165.0	162.6	165.7	166.6	161.6	163.8	157.6	153.6	
GLASS CONTAINERS	32211	.28	143.5	142.1	136.1	142.8	144.5	143.6	149.1	145.9	149.9	145.6	143.7	144.8	143.3	135.2	
CEMENT	3241	.27	107.3	113.0	126.5	122.6	106.8	114.3	109.2	98.4	96.1	100.6	96.3	100.6	93.5		
STRUCTURAL CLAY PRODUCTS	3251	.20	101.6	95.3	102.3	100.7	97.7	96.3	101.0	97.6	98.6	99.8	92.7	94.2	90.5	84.8	
BRICK	32511	.08	94.5	82.6	92.9	89.5	82.3	79.6	85.4	79.4	79.3	79.9	65.7	70.6	69.7	64.6	
CONCRETE, MISC. CLAY MFR.	326-9	1.51	149.5	148.8	154.2	157.8	159.4	156.9	157.3	156.8	152.0	152.4	154.3	151.8	147.6	143.6	
PRIMARY METALS	331	6.57															
IRON AND STEEL	331, 2	4.21															
BASIC STEEL & MILL PRD	3311	3.34	94.0	114.4	110.4	110.2	111.5	116.2	105.2	106.8	99.5	98.9	108.4	103.5	92.8	90.6	
BASIC IRON AND STEEL		1.34	86.1	99.0	100.9	100.6	100.2	99.9	96.8	95.2	90.5	92.1	91.2	90.7	82.2	77.9	
PIG IRON		.46	78.2	91.5	95.6	95.5	90.6	94.0	87.4	86.1	81.9	82.3	84.8	83.8	75.4	71.4	
RAW STEEL		.72	94.3	110.9	111.8	109.5	112.1	109.9	108.8	106.7	102.0	105.0	102.0	102.3	93.2	88.7	
COKE AND PRODUCTS		.16	71.3	66.4	67.3	75.0	73.7	72.1	69.5	69.0	63.4	62.1	60.7	57.7	52.2	47.3	
STEEL MILL PRODUCTS		2.01	99.3	124.7	116.8	116.5	119.1	127.0	110.9	114.6	105.5	103.4	119.9	112.1	99.9	99.2	
CONSUMER DUR. STEEL		.31	71.2	97.3	92.0	89.1	84.1	90.3	85.2	87.0	86.4	80.0	96.9	79.6	69.3	61.1	
EQUIPMENT STEEL		.51	112.9	129.4	119.0	124.7	129.4	141.2	122.0	125.1	113.5	112.8	134.1	123.0	110.3	113.7	
CONSTRUCTION STEEL		.41	67.4	83.0	80.1	88.9	85.2	89.9	73								

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1980	1980	1981												
		PRO- TION	PRO- AVG.	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	144.1	147.1	133.8	146.6	154.3	158.5	157.2	153.6	153.4	138.0	151.6	150.2	148.5	147.4	
WOOD PULP	2611	.50	138.5	140.3	123.6	139.8	146.7	148.3	149.3	147.1	145.9	130.8	144.9	142.8			
PAPER	262	.54	145.8	148.6	141.1	149.2	157.1	163.6	158.6	155.5	155.3	140.2	154.2	151.4	152.6	153.8	
PAPERBOARD	263	.34	149.5	154.8	137.5	152.7	161.0	165.6	166.5	160.0	161.6	145.3	157.2	159.0	150.2	149.8	
CONVERTED PAPER PROD.	264	.93	169.0	173.4	164.6	168.8	178.1	186.8	179.2	178.8	177.8	159.6	173.5	175.8	174.5	173.6	
SANITARY PAPER PROD.	2647	.18	138.1	142.7	134.9	147.0	150.6	153.0	153.3	147.6	150.0	138.4	149.6	143.8	155.1	146.4	
PAPERBOARD CONTAINERS	265	.84	147.8	146.2	135.7	151.7	159.1	157.0	158.5	148.5	153.6	144.4	154.4	154.9	157.3	139.4	
BUILDING PAPER AND BOARD	266	.06	87.7	89.8	82.2	85.8	95.3	95.2	99.3	91.5	92.6	85.7	83.3	75.3	71.0		
PRINTING AND PUBLISHING	27	4.72															
NEWSPAPERS	2711	1.38	109.1	118.3	112.3	99.8	106.7	108.0	112.1	111.2	105.7	99.3	102.7	108.8	115.4	115.9	
PERIOD., BOOKS, CARDS	272,3,7	1.38	127.2	131.8	124.6	122.1	128.1	126.7	124.8	127.4	137.1	142.0	148.9	146.5	137.8	130.9	
JOB PRINTING	274-6,8,9	1.96	169.8	167.6	161.6	156.9	164.5	160.6	159.8	165.8	185.0	197.7	207.9	204.9	189.3	175.1	
CHEMICALS AND PRODUCTS	28	7.74															
CHEMICALS & SYM. MAT.	281,2	3.79	222.2	231.1	238.8	232.4	239.2	237.9	244.2	240.7	238.1	230.0	226.5	228.1	218.4	208.7	
BASIC CHEMICALS	2811	2.54	187.4	191.4	198.9	190.8	192.2	189.4	197.3	195.9	190.8	188.1	186.0	186.1	180.2	174.3	
ALKALIES & CHLORINE	2812	.14	121.4	125.9	129.8	115.2	127.8	119.9	126.6	121.5	123.6	113.7	111.2	112.6	105.8	100.7	
GASES, ETC.	2813,5,6	.48	184.3	193.0	206.8	188.8	197.0	194.6	199.0	192.3	183.8	180.2	181.0	180.4	167.2		
BASIC ORG. CHEM.	2818	1.18	231.6	235.4	242.0	237.8	234.5	229.9	243.1	248.0	239.9	240.3	243.9	239.2	234.4	229.5	
INORG. CHEM. NEC	2819	.75	132.4	133.6	139.2	132.6	134.8	135.6	137.7	130.6	131.1	125.4	112.6	120.3	117.5	113.4	
ACIDS & FERTILIZER MAT.	282	.55	145.9	149.2	155.9	146.8	152.2	150.8	154.4	144.0	145.7	136.4	119.2	130.3	125.6	120.7	
SULFURIC ACID, ETC.	2821	.41	138.5	143.7	146.4	137.0	142.6	140.0	144.3	135.1	138.4	128.9	112.3	122.5	116.7	111.5	
FERTILIZER MATERIALS	2822	.14	167.6	165.1	183.3	175.3	179.9	182.0	183.7	169.8	166.8	158.2	139.0	152.7	151.4	147.5	
ERDA NUCLEAR MATLS	2823,4	.15	89.5	83.0	86.6	86.8	78.3	86.1	83.2	85.9	82.3	87.9	86.9	84.3	87.0	84.5	
SYNTHETIC MATERIALS	2824	1.25	293.3	312.1	320.0	317.0	335.0	336.9	339.8	331.8	334.5	315.3	309.1	313.6	296.2	278.6	
PLASTICS MATERIALS	2821	.54	386.5	417.6	415.2	421.2	448.5	478.9	464.6	455.7	463.9	426.9	424.7	431.6	411.1		
SYNTHETIC RUBBER	2822	.13	103.2	111.7	117.4	117.3	113.8	121.2	113.3	106.6	99.0	97.8	96.8	96.0			
MAN-MADE FIBERS	2823,4	.58	250.3	260.1	278.0	266.0	280.3	254.3	275.8	268.4	268.2	261.5	250.4	253.8	236.4	229.5	
CHEMICAL PRODUCTS	283-7,9	3.95	192.4	191.7	185.6	184.0	191.8	197.2	199.9	205.2	214.3	217.3	217.2	217.4	206.9	197.5	
DRUGS AND MEDICINES	2831	1.34	245.7	245.7	238.9	229.7	244.9	247.7	257.2	266.0	285.3	297.8	291.5	291.4	277.8	265.5	
SOAP AND TOILETRIES	284	1.29	170.8	171.2	165.6	163.4	169.7	176.0	171.6	174.1	181.8	188.0	187.5	191.3	180.7	171.7	
PAINTS	285	.43	130.5	115.6	93.3	106.2	123.2	139.1	143.6	150.4	156.4	135.2	147.4	130.3	116.3	97.5	
AGRICULTURAL CHEMICALS	287	.33	230.5	234.0	239.6	245.9	233.6	239.5	245.7	246.6	241.1	240.9	245.0	250.3	240.1	238.8	
PETROLEUM PRODUCTS	29	1.79															
PETROLEUM REFINING	291,9	1.64	132.8	130.7	134.9	133.1	130.5	125.3	124.7	126.9	130.7	130.3	134.3	131.5	127.2	130.9	
AUTOMOTIVE GASOLINE	2911	.84	131.6	130.8	134.4	129.1	125.1	120.1	120.3	121.4	127.0	126.9	134.0	132.0	128.0	134.5	
DISTILLATE FUEL OIL	2912	.29	120.8	122.5	131.2	137.9	130.8	113.2	112.5	113.7	118.0	114.3	112.1	117.6	113.9	122.0	
RESIDUAL FUEL OIL	2913	.05	209.0	208.7	219.8	217.3	219.0	199.2	185.7	178.2	175.0	167.3	170.9	172.2	164.8	153.8	
AVIATION FUEL & KEROS.	2914	.17	100.5	98.5	99.6	96.6	94.0	101.2	95.5	101.7	98.3	102.2	98.4	91.6	90.6	93.9	
MISC. PETROLEUM PROD.	2915	.28	155.2	145.3	147.1												
REFINERY FUEL NEC	2916	.06	138.5	118.4	142.6												
REFINERY NONFUEL MAT.	2917	.14	187.6	179.5	181.2												
REFINERY PRODUCTS NEC	2918	.08	108.6	102.8	89.1												
RUBBER & PLASTICS PROD.	30	2.24															
TIRES	301	.60	123.3	129.0	120.0	142.3	161.3	159.1	146.0	145.8	144.2	124.6	140.0	146.6	152.8	132.9	
RUB. PROD. EX. TIRES	302,3,6	.66	139.1	146.2	145.9	139.1	146.7	145.0	143.9	147.6	151.6	141.9	147.5	149.6	146.4	140.3	
PLASTICS PRODUCTS NEC	307	.98	415.9	422.8	413.5	403.3	448.0	446.6	452.2	450.0	464.1	442.3	456.6	461.6	458.5	444.2	
LEATHER AND PRODUCTS	31	.86															
PERS. LEATHER GDS.	313,5-7,9	.22	86.1	88.2	87.3	84.7	86.0	87.4	87.5	89.9	93.8	87.5	94.8	93.5	98.9	96.9	
SHOES	314	.53	65.7	65.9	55.7	61.8	66.4	67.6	65.0	65.8	60.1	51.0	60.6	62.5	67.0	60.9	
CLAY, GLASS, & ST. PROD.	32	2.74															
PRESSED AND BLOWN GLASS	322	.49	159.7	157.3	140.6	152.1	163.9	165.7	167.1	165.5	173.7	165.5	169.9	163.4	166.5	151.5	
GLASS CONTAINERS	3221	.28	143.5	136.1	108.6	136.5	148.1	148.2	151.3	148.2	160.4	145.9	154.8	140.9	154.0	129.5	
CEMENT	324	.27	107.3	108.7	86.6	64.8	72.6	96.8	112.6	111.7	121.9	119.4	122.5	119.4	113.7		
STRUCTURAL CLAY PRODUCTS	325	.20	101.6	98.0	100.2	94.0	91.4	94.7	101.1	99.3	103.1	99.1	95.8	96.4	92.7	87.2	
BRICK	3251	.08	94.5	85.2	84.5	70.3	69.1	76.2	86.7	84.2	88.3	82.7	74.2	75.5	73.4	66.6	
CONCRETE, MISC. CLAY MFR.	326-9	1.51	149.5	153.8	152.8	149.4	152.8	152.8	158.0	157.3	155.7	151.7	156.3	154.9	152.3	148.4	
PRIMARY METALS	33	6.57															
IRON AND STEEL	331,2	4.21															
BASIC STEEL & MILL PRD	331	3.34	94.0	104.9	101.2	103.7	112.0	119.3	115.6	118.4	106.7	99.0	105.1	99.5	90.1	83.1	
BASIC IRON AND STEEL	3311	1.34	86.1	93.2	92.2	96.0	100.8	105.2	103.9	102.0	96.6	90.8	89.6	88.8	79.6	73.3	
PIG IRON	3312	.46	78.2	85.1	87.2	88.7	90.8	96.6	93.8	93.2	88.9	84.2	84.1	81.7	72.8	66.4	
RAW STEEL	3313	.72	94.3	104.0	100.8	106.0	113.6	118.1	117.6	114.5	108.1	101.1	99.7	100.3	89.9	83.2	
COKE AND PRODUCTS	3314	.16	71.3	67.2	67.2	71.5	71.5	71.5	71.1	70.4	66.7	63.3	59.3	57.0	52.1	47.9	
STEEL MILL PRODUCTS	3315	2.01	99.3	112.8	107.2	108.8	119.5	128.7	123.3	129.3	113.5	104.4	115.5	106.6	97.2	89.6	
CONSUMER DUR. STEEL	3316	.31	71.2	91.5	76.1	88.8	90.9	91.4	94.0	100.6	88.8	77.7	89.8	77.0	69.0	57.4	
EQUIPMENT STEEL	3317	.51	112.9	118.8	112.1	119.5	132.6	146.7	135.7	139.4	117.0	108.9	127.4	117.6	109.1	104.4	
CONSTRUCTION STEEL	3318	.41	67.4	73.8	73.3	71.5	80.1	86.7	83.2	82.0	72.7	71.5	74.6	70.5	60.1	55.6	
CAN & CLOSURE STEEL	3319	.13	69.4	66.1	69.3	75.0	84.1	70.2	69.1	66.5	63.6	64.9	72.3	64.4	54.1	53.3	
MISC.																	

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1980	1980			1981										
		PRO- POR- TION	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
NONFERROUS METALS	333-6,9	2.36	119.8	123.2	127.1	124.1	125.9	127.7	122.2	121.6	123.1	131.8	128.8	125.0	119.1	112.7	
PRIMARY NONF. METALS	3333	.45	131.3	129.3	132.4	134.3	136.8	142.0	139.5	132.7	134.5	139.5	134.5	131.8	123.8	117.9	
COPPER	3331	.09	113.1	106.3	121.4	121.9	119.4	134.6	135.1	125.3	150.2	165.9	140.8	143.9	129.8	127.1	
ALUMINUM	3334	.27	156.5	155.7	154.8	157.7	161.0	164.2	161.8	160.0	157.5	155.0	152.0	147.2	141.2	132.7	
SECONDARY NONF. METALS	334	.09	146.7	153.9	154.1	135.9	134.3	130.1	130.2	135.1	139.3	154.4	148.8	155.1	138.7		
NONFERROUS PRODUCTS	335,6	1.45	121.1	127.6	131.9	127.1	129.0	130.6	122.0	123.1	124.8	133.4	132.2	127.4	121.1	112.5	
NONFERROUS MILL PROD	335	1.09	134.4	140.3	147.8	142.9	145.7	146.0	135.1	136.4	139.1	149.7	147.4	143.0	136.5	126.4	
COPPER MILL PROD		.48	103.6	108.6	120.7	113.8	121.4	120.2	102.4	111.0	112.5	135.4	131.6	121.1	118.2	111.3	
ALUMINUM MILL PROD		.61	158.5	165.1	169.0	165.7	164.7	166.3	160.7	156.3	159.9	161.0	159.7	160.2	151.0	138.2	
CONSTRUCTION		.13	177.2	195.6	195.6	182.4	183.8	168.3	169.6	164.6	161.9	175.6	161.2	169.6	162.5	156.4	
NONCONSTRUCTION		.48	153.4	156.8	161.8	161.1	159.5	165.8	158.3	154.1	159.4	157.0	159.3	157.6	147.8	133.3	
NONFERROUS FOUNDRIES	336	.35	80.0	87.9	82.2	78.1	77.2	82.5	81.4	81.7	80.3	82.3	85.2	78.9	72.8	69.0	
FABRICATED METAL PRODUCTS	34	5.93															
METAL CANS	341	.38	128.1	127.7	131.4	129.2	130.6	131.6	131.7	131.7	130.1	124.8	126.8	124.6	126.9	129.5	
HOME, PLUMB, STRUCT, MET	342-4	2.67	144.1	141.4	144.6	145.2	147.4	148.0	147.7	146.1	145.8	148.1	148.9	143.7	141.7	137.8	
HARDWARE, TOOLS, CUTL	342	.76	123.8	125.9	130.6	126.6	132.6	135.0	133.7	132.4	136.9	137.9	138.6	130.9	127.5	126.8	
STRUCTURAL METAL PROD	344	1.62	156.7	152.3	154.1	157.6	157.9	157.4	156.6	154.7	152.1	155.9	156.2	152.5	152.4	146.8	
OTHER FAB. MET. PROD.	345-9	2.89	125.6	124.2	127.7	129.1	129.3	131.1	132.1	132.7	134.1	135.7	136.1	131.8	127.4	121.6	
FASTENERS, STAMP, ETC	345-8	2.03	111.7	110.3	113.2	114.1	114.2	116.7	117.0	118.3	119.1	121.6	121.0	116.9	111.7	105.3	
NONELECTRICAL MACHINERY	35	9.15															
ENGINE AND FARM EQUIP.	351,2	1.20	154.0	150.7	152.6	153.6	148.8	151.4	150.9	152.3	152.1	157.8	147.6	145.4	145.8	143.7	
FARM TRACTORS		.19	79.2	70.0	71.8	65.3	68.9	92.1	85.8	75.5	82.6	99.8	57.3	71.7	83.2	78.4	
CONSTRUCTION & ALLIED EQ	353	1.36	151.8	143.6	149.0	153.6	155.1	158.1	155.5	158.2	160.6	160.5	164.4	156.3	157.3	153.2	
TRACKLAYING TRACTORS		.16	91.1	68.1	67.1	75.9	77.4	81.1	74.7	79.4	82.9	70.8	87.2	86.4	81.5	86.2	
METALWORKING MACHINERY	354	1.67	126.1	121.1	124.1	123.7	124.9	126.1	122.9	125.6	128.0	130.6	129.5	126.1	119.1	118.7	
SPEC. & GENL IND EQ	355,6	2.30	125.7	122.5	127.9	128.1	129.7	129.0	127.8	126.8	127.6	127.3	128.2	125.3	125.5	123.7	
OFFICE, SERV. & MISC.	357-9	2.63	228.7	240.1	248.2	246.7	250.3	256.9	252.5	260.8	260.0	264.3	263.3	264.1	257.0	257.0	
ELECTRICAL MACHINERY	36	8.05															
MAJOR ELECT. EQ. & PTS.	361,2	1.74	142.3	141.4	143.1	145.6	145.9	146.2	145.2	151.4	149.9	150.4	148.1	148.8	145.0	146.2	
HOUSEHOLD APPLIANCES	363	.83	136.1	142.0	148.2	144.6	145.9	149.4	141.1	140.4	137.2	146.7	152.5	140.0	134.1	114.6	
COOKING STOVES	3631	.08	120.6	112.0	131.9	131.3	146.6	136.4	139.5	125.1	110.1	137.4	132.7	114.1	109.8	96.6	
REFRIGERATION APPL.	3632	.26	112.2	119.7	134.1	120.2	121.7	135.6	125.1	120.2	117.6	130.8	136.6	113.5	116.0	85.4	
LAUNDRY APPLIANCES	3633	.13	125.5	140.6	147.8	141.7	135.1	125.5	125.8	115.4	128.3	137.0	127.5	137.4	125.2	106.4	
MISC. APPLIANCES	3634-6,9	.36	161.2	165.8	162.6	166.8	167.6	171.5	158.8	168.2	161.3	164.3	178.1	166.3	156.3	143.3	
TV AND RADIO SETS	365	.52	92.3	107.9	106.1	108.0	102.0	102.0	96.9	89.9	94.4	103.5	93.8	91.4	90.5	92.5	
COMMUNICATION EQUIPMENT	366	2.30	154.9	153.9	155.6	158.6	157.6	158.9	160.9	161.3	161.3	165.0	163.5	161.6	163.1	160.6	
ELECTRONIC COMPONENTS	367	1.43	304.6	293.5	300.5	306.5	305.0	308.9	314.8	313.0	309.9	313.5	313.7	312.7	314.8	314.3	
TV TUBES	3671-3	.31	41.9	47.0	44.8	41.1	41.5	35.6	41.8	33.3	32.3	48.7	40.6	31.6	37.2	39.5	
MISC. ELECTRICAL SUPP.	369	.49	167.3	181.0	179.6	182.1	172.4	180.4	185.9	191.9	186.8	190.0	193.2	187.1	190.1	178.2	
STORAGE BATTERY, REPL.	3691	.09	205.4	245.5	216.4	211.3	189.7	202.9	231.0	252.9	227.9	239.9	264.3	239.6	240.0	207.3	
TRANSPORTATION EQUIPMENT	37	9.27															
MOTOR VEHICLES AND PARTS	371	4.50															
AUTOS, TOTAL		1.90	103.6	115.4	105.9	93.3	101.1	107.8	113.2	120.0	122.2	118.1	104.0	103.3	92.5	81.1	
LARGE AUTOS		1.79	54.3	60.4	61.2	53.3	51.5	57.8	61.3	63.1	60.0	50.4	44.5	59.8	49.8	48.1	
SMALL AUTOS		.11	915.7	1019.8	840.1	750.1	916.3	929.5	966.7	1055.7	1144.1	1230.6	1082.0	819.2	793.5	622.4	
TRUCKS AND BUSES		.53	117.8	142.3	139.8	124.5	113.7	127.5	123.3	141.3	144.7	117.3	102.4	107.0	122.3	106.7	
BUSINESS VEHICLES		.40	89.4	100.0	98.0	86.5	80.0	91.0	90.8	101.6	104.6	91.4	82.0	73.8	84.8		
UTILITY VEHICLES		.13	202.8	268.9	264.6	238.4	214.6	236.4	220.4	260.4	264.5	194.7	163.4	206.4	234.5		
TRUCK TRAILERS		.09	162.1	167.0	170.5	160.2	135.6	148.2	139.0	160.2	158.3	137.5	154.3	157.4	165.1	153.7	
MOTOR VEHICLE PARTS		1.98	132.1	137.2	139.1	142.6	138.9	144.7	149.0	149.8	149.4	145.6	145.6	138.6	129.7	123.7	
AIRCRAFT AND PARTS	372	3.73	106.1	107.9	109.4	108.0	106.3	106.3	106.4	105.6	104.8	103.9	103.8	104.6	104.1	103.2	
SHIPS AND BOATS	373	.56	144.0	145.3	144.0	152.9	149.0	151.5	146.9	148.1	142.1	143.8	149.3	146.2	141.1	137.5	
RAIL & MISC TRANS EQ	374,5,9	.49	148.3	130.9	128.1	124.6	115.8	115.1	115.5	116.7	115.7	116.7	101.9	102.0	97.4	91.3	
RAILROAD EQUIPMENT	374	.26	156.0	113.4	109.4	105.0	89.0	86.1	85.5	84.0	90.9	84.0	59.1	63.4	63.6	51.5	
MOBILE HOMES	379	.18	99.7	117.1	113.9	113.7	116.0	114.7	113.6	118.6	107.4	115.6	113.1	107.4	97.8		
INSTRUMENTS	38	2.11															
EQUIPMENT INSTR. & PTS.	381-4	1.07	185.9	185.0	188.3	190.8	188.0	185.7	186.1	187.0	187.0	190.7	190.6	189.1	187.6	186.6	
CONSUMER INSTR. PROD.	385-7	1.04	155.9	154.1	154.5	158.1	155.3	155.1	153.9	153.6	153.2	154.0	150.7	149.0	148.9	146.7	
MISC. MANUFACTURES	39	1.51															
MISC. CONGS. GOODS	391,3,4,6	.86	151.3	150.4	154.6	156.2	163.2	163.0	164.0	164.5	165.5	172.9	165.5	156.9	156.6	160.7	
MISC. BUS. SUPPLIES	395,9	.65	144.2	144.0	147.2	147.8	144.4	145.7	146.0	145.2	148.7	150.7	151.3	149.7	145.0	146.1	
ELECTRIC UTILITIES		3.88	189.7														
ELC UTIL GENERATION		1.90	184.4	189.7	181.9	180.9	182.1	186.4	184.1	187.7	191.2	189.9	189.8	183.6	184.0		
FOSSIL FUEL GENERATION		1.54	174.1	179.6	173.4	173.1	172.2	179.6	176.2	178.1	179.6	178.2	175.3	169.5	174.6		
HYDRO & NUCLEAR GENERAT.		.36	228.7	233.1	218.6	214.6	224.6	215.5	218.2	229.5	241.2	240.1	252.0	244.2	224.1		
ELC UTIL SALES		1.98	194.7	195.4	196.9	197.4	192.0	191.4	192.8	197.9	199.8	202.2	198.4	192.8			
RESIDENTIAL KWH		.83	210.8	210.5	210.1	211.2	200.0	199.3	202.1	212.1	214						

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1980	1980	1981											
		PRO- POR- TION	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
NONFERROUS METALS	333-6,9	2.36	119.8	119.1	119.3	121.2	130.2	137.1	131.0	129.4	128.9	114.6	122.5	123.5	118.9	109.2
PRIMARY NONF. METALS	333	.45	131.3	132.0	135.2	137.5	139.2	142.7	142.3	134.1	132.5	128.7	129.2	129.2	125.9	120.6
COPPER	3331	.09	113.1	109.4	122.2	122.4	124.9	144.8	148.5	135.6	147.8	126.3	126.3	139.1	132.7	131.8
ALUMINUM	3334	.27	156.5	159.1	158.1	160.2	161.2	161.2	160.5	159.0	156.2	153.3	149.9	146.3	142.5	135.6
SECONDARY NONF. METALS	334	.09	146.7	156.4	140.9	130.2	144.6	138.9	137.6	138.6	147.0	128.0	146.1	153.8	142.6	
NONFERROUS PRODUCTS	335,6	1.45	121.1	119.0	118.9	122.1	134.0	144.2	134.9	134.7	133.7	115.3	124.8	125.1	119.1	104.8
NONFERROUS MILL PROD	335	1.09	134.4	129.4	133.5	135.7	149.7	162.0	150.7	150.6	149.3	131.3	139.3	140.1	132.9	116.7
COPPER MILL PROD		.48	103.6	101.2	109.3	110.3	124.1	144.7	121.4	126.7	117.0	106.3	115.5	116.1	115.1	103.7
ALUMINUM MILL PROD		.61	158.5	151.6	152.5	155.7	169.8	175.6	173.8	169.3	174.6	150.9	158.0	159.0	146.9	126.9
CONSTRUCTION		.13	177.2	181.3	164.8	163.7	183.7	178.4	183.9	178.6	180.3	166.6	168.5	169.3	161.7	145.0
NONCONSTRUCTION		.48	153.4	143.5	149.1	153.5	166.0	174.8	171.0	166.8	173.1	146.6	155.1	156.2	142.9	122.0
NONFERROUS FOUNDRIES	336	.35	80.0	86.3	73.6	79.8	85.1	88.9	85.5	85.0	84.9	65.7	79.8	78.3	75.8	67.7
FABRICATED METAL PRODUCTS	34	5.93														
METAL CANS	341	.38	128.1	122.8	121.5	121.3	128.4	128.9	128.5	131.0	134.9	133.4	136.3	131.1	128.0	124.6
HDWE, PLUMB, STRUC, MET	342-4	2.67	144.1	144.4	145.1	142.0	150.2	150.2	146.8	144.7	145.8	142.2	146.8	145.5	144.4	140.8
HARDWARE, TOOLS, CUTL	342	.76	123.8	128.1	128.3	123.1	134.9	137.5	133.9	131.9	137.1	133.1	134.4	134.0	131.4	129.1
STRUCTURAL METAL PROD	344	1.62	156.7	155.8	156.3	154.7	160.6	159.5	155.0	153.0	152.0	149.3	155.5	153.0	154.5	150.1
OTHER FAB. MET. PROD.	345-9	2.89	125.6	125.6	126.1	123.7	131.5	133.7	132.8	133.2	136.6	130.9	133.9	133.6	129.1	123.1
FASTENERS, STAMP, ETC	345-8	2.03	111.7	112.0	111.5	108.6	116.1	119.0	117.8	118.9	121.6	116.6	118.7	118.8	113.8	107.0
NONELECTRICAL MACHINERY	35	9.15														
ENGINE AND FARM EQUIP.	351,2	1.20	154.0	149.3	153.8	153.9	153.5	156.5	152.2	150.2	154.5	146.3	140.3	149.3	148.1	142.3
FARM TRACTORS		.19	79.2	60.2	60.9	70.2	79.4	104.9	98.2	80.0	94.2	65.3	45.6	74.6	90.7	67.4
CONSTRUCTION & ALLIED EQ	353	1.36	151.8	147.7	151.2	146.8	156.3	156.2	153.6	155.3	162.0	156.2	160.9	163.3	161.7	157.3
TRACKLAYING TRACTORS		.16	91.1	63.6	62.9	74.9	87.8	87.2	80.6	82.2	89.3	59.5	73.1	89.0	84.2	80.4
METALWORKING MACHINERY	354	1.67	126.1	121.0	121.1	120.1	126.4	126.4	122.9	123.0	129.8	128.8	129.4	130.6	122.0	118.6
SPEC. & GENL IND EQ	355,6	2.30	125.7	124.0	125.7	124.1	130.1	128.3	127.0	126.2	130.5	124.7	127.7	130.0	126.9	125.3
OFFICE, SERV. & MISC.	357-9	2.63	228.7	238.7	233.9	230.1	244.3	246.1	246.2	255.8	270.2	280.5	275.8	280.7	264.6	255.6
ELECTRICAL MACHINERY	36	8.05														
MAJOR ELECT. EQ. & PTS.	361,2	1.74	142.3	139.5	137.6	139.5	142.2	144.8	145.6	151.6	154.7	152.3	148.7	154.0	150.7	144.3
HOUSEHOLD APPLIANCES	363	.83	136.1	135.5	120.4	141.7	152.8	157.9	151.1	146.0	145.1	135.3	141.8	143.3	145.4	110.2
COOKING STOVES	3631	.08	120.6	104.8	106.0	129.9	154.8	140.8	151.1	137.3	121.4	111.8	129.5	114.6	120.9	90.5
REFRIGERATION APPL.	3632	.26	112.2	102.5	92.3	124.6	129.0	152.0	145.0	138.4	141.1	138.8	95.0	107.8	117.7	72.9
LAUNDRY APPLIANCES	3633	.13	125.5	123.1	109.0	132.6	139.4	135.6	138.1	125.4	131.3	110.2	148.5	140.0	140.8	93.1
MISC. APPLIANCES	3634-6,9	.36	161.2	171.6	148.7	160.5	174.9	174.4	160.4	161.4	158.9	147.6	176.5	177.3	173.1	148.7
TV AND RADIO SETS	365	.52	92.3	114.6	91.8	101.2	100.6	101.2	92.8	94.1	93.8	80.5	100.6	104.4	104.8	98.2
COMMUNICATION EQUIPMENT	366	2.30	154.9	157.5	161.3	158.0	157.5	158.9	157.0	159.2	161.8	160.4	162.4	162.3	164.4	164.4
ELECTRONIC COMPONENTS	367	1.43	304.6	300.6	305.6	301.4	299.3	302.7	308.2	311.0	315.3	302.5	317.2	318.7	322.2	322.1
TV TUBES	3671-3	.31	41.9	45.7	33.0	39.8	41.0	36.2	44.1	36.7	32.0	36.9	44.0	36.8	43.1	38.4
MISC. ELECTRICAL SUPP.	369	.49	167.3	193.6	194.1	182.1	169.9	170.7	174.2	178.9	179.6	178.1	193.8	201.8	203.5	189.6
STORAGE BATTERY, REPL.	3691	.09	205.4	289.9	259.9	237.7	192.7	164.7	171.4	181.3	181.8	192.2	275.6	304.3	310.0	244.8
TRANSPORTATION EQUIPMENT	37	9.27														
MOTOR VEHICLES AND PARTS	371	4.50														
AUTOS, TOTAL		1.90	103.6	119.3	88.6	90.0	102.9	121.3	127.4	135.6	137.8	95.1	81.4	89.8	105.4	86.8
LARGE AUTOS		1.79	54.3	62.9	53.4	54.4	55.1	65.9	69.3	71.3	67.2	38.8	29.8	49.4	57.3	52.0
SMALL AUTOS		.11	915.7	1047.3	667.9	675.1	888.8	1031.8	1082.7	1192.9	1298.5	1021.4	930.5	753.7	896.7	659.7
TRUCKS AND BUSES		.53	117.8	137.1	113.9	124.5	126.1	143.0	133.0	144.2	157.6	101.9	82.9	107.6	135.1	103.9
BUSINESS VEHICLES		.40	89.4	94.0	79.4	89.1	92.0	104.7	97.2	103.6	113.0	76.8	65.6	75.3	93.3	
UTILITY VEHICLES		.13	202.8	266.2	217.0	230.5	228.0	257.7	240.2	265.6	291.1	177.2	134.6	204.4	260.3	
TRUCK TRAILERS		.09	162.1	161.5	150.5	139.8	148.4	163.7	153.3	166.0	169.5	126.8	153.8	152.0	162.2	148.6
MOTOR VEHICLE PARTS		1.98	132.1	139.8	146.2	140.6	136.1	143.6	147.2	150.2	151.7	144.2	140.3	139.3	131.1	125.5
AIRCRAFT AND PARTS	372	3.73	106.1	109.6	112.0	108.8	107.0	106.8	105.5	105.9	104.9	101.8	101.1	104.3	103.4	104.9
SHIPS AND BOATS	373	.56	144.0	147.5	149.3	148.6	148.4	151.9	150.8	150.7	144.4	141.0	142.0	142.7	142.5	139.5
RAIL & MISC TRANS EQ	374,5,9	.49	148.3	129.6	119.6	108.1	111.4	122.0	126.1	122.2	124.2	105.3	105.6	106.6	101.6	89.1
RAILROAD EQUIPMENT	374	.26	156.0	118.7	119.1	103.1	86.2	97.7	91.3	83.6	89.9	71.8	54.3	62.1	61.9	53.9
MOBILE HOMES	379	.18	99.7	105.5	82.4	85.4	103.1	116.5	130.1	129.9	124.9	112.8	127.2	116.9	110.0	
INSTRUMENTS	38	2.11														
EQUIPMENT INSTR. & PTS.	381-4	1.07	185.9	187.5	187.0	182.3	184.2	182.9	183.1	185.8	192.3	191.2	192.7	195.9	190.6	189.2
CONSUMER INSTR. PROD.	385-7	1.04	155.9	157.2	156.8	154.2	152.7	152.7	151.1	153.2	155.7	153.0	151.5	151.1	150.8	149.6
MISC. MANUFACTURES	39	1.51														
MISC. CONS. GOODS	391,3,4,6	.86	151.3	152.1	146.9	142.5	161.1	158.5	161.6	163.6	170.9	166.1	172.5	172.8	164.2	162.5
MISC. BUS. SUPPLIES	395,9	.65	144.2	144.7	143.8	141.8	143.1	146.2	143.9	142.8	150.9	148.9	155.0	154.8	149.4	146.9
ELECTRIC UTILITIES		3.88	189.7													
ELEC UTIL GENERATION		1.90	184.4	180.8	183.2	192.4	189.5	180.6	167.9	173.0	197.4	206.4	207.6	182.0	170.0	
FOSSIL FUEL GENERATION		1.54	174.1	171.9	173.7	183.5	177.2	170.7	156.5	159.9	185.4	197.8	196.7	172.8	164.2	
HYDRO & NUCLEAR GENERAT.		.36	228.7	219.1	224.1	230.7	242.6	223.1	216.8	229.5	249.1	243.3	254.6	221.3	195.0	
ELEC UTIL SALES		1.98	194.7	177.2	195.9	216.1	201.8	187.4	174.5	173.9	193.1	220.4	222.1	204.3		
RESIDENTIAL KWH		.83	210.8	178.2	214.3	254.7	227.7	198.3	175.0	16						

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

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

SUMMARY GROUPINGS	1980		1981			
	III	IV	I	II	III	IV
TOTAL INDEX	142.3	148.7	151.8	152.5	153.0	146.3
PRODUCTS, TOTAL	144.3	148.4	150.3	151.9	152.2	147.7
FINAL PRODUCTS	143.3	147.0	148.3	150.9	151.2	147.4
CONSUMER GOODS	143.2	147.2	147.7	150.0	149.4	144.7
DURABLE CONSUMER GOODS	129.9	141.2	141.6	146.5	143.1	130.2
AUTOMOTIVE PRODUCTS	126.5	142.0	134.5	149.3	141.4	125.2
HOME GOODS	131.9	140.7	145.6	144.9	144.1	132.9
NONDURABLE CONSUMER GOODS	148.4	149.5	150.1	151.3	151.9	150.5
CLOTHING	123.8	123.0	120.3	121.2	121.3	
CONSUMER STAPLES	155.3	156.9	158.3	159.6	160.3	159.5
CONSUMER ENERGY (HOME GOODS AND CLOTHING)	151.9	148.2	146.2	147.2	148.9	
(HOME GOODS AND CLOTHING)	128.2	132.6	134.0	134.0	133.6	126.2
EQUIPMENT	143.4	146.7	149.3	152.2	153.7	151.0
BUSINESS EQUIPMENT	170.4	174.3	178.2	182.2	184.0	178.4
INDUSTRIAL EQUIPMENT	154.7	156.0	163.2	167.3	169.5	164.9
COMMERCIAL, TRANSIT, FARM EQ.	188.6	195.5	195.5	199.5	200.6	194.0
DEFENSE AND SPACE EQUIPMENT	97.9	100.2	100.7	101.7	102.8	104.9
INTERMEDIATE PRODUCTS	148.2	153.7	157.4	155.8	155.9	149.2
CONSTRUCTION SUPPLIES	133.7	142.8	148.8	145.9	142.7	132.2
BUSINESS SUPPLIES	162.7	164.6	166.0	165.5	169.0	
COMMERCIAL ENERGY PRODUCTS	172.8	174.2	174.7	177.3	176.9	174.7
MATERIALS	139.2	149.4	154.2	153.4	154.3	144.0
DURABLE GOODS MATERIALS	131.4	144.3	150.9	152.3	152.8	140.3
BASIC METAL MATERIALS	89.3	109.9	117.8	113.6	115.0	100.3
NONDURABLE GOODS MATERIALS	163.2	176.3	179.2	178.4	175.8	164.5
TEXTILE, PAPER AND CHEMICAL MAT	167.0	183.7	186.7	185.9	182.8	
TEXTILE MATERIALS	113.2	113.7	114.8	114.5	115.5	
PAPER MATERIALS	143.6	149.7	151.4	151.0	152.2	
CHEMICAL MATERIALS	200.0	228.2	232.7	231.6	224.9	
ENERGY MATERIALS	128.4	128.2	130.9	125.1	131.6	127.7
MANUFACTURING	141.5	148.6	151.3	152.4	152.5	145.0
DURABLE	130.2	138.4	141.3	143.1	142.6	134.4
NONDURABLE	157.7	163.4	165.7	166.0	166.8	160.3
MINING AND UTILITIES	149.5	150.9	154.1	153.0	157.7	155.5
MINING	130.3	135.3	142.2	137.4	145.8	144.5
UTILITIES	170.9	168.5	167.3	170.3	170.9	167.8

	1980		1981			
	III	IV	I	II	III	IV
PRODUCTS, TOTAL	590.3	609.4	615.1	619.2	616.4	598.9
FINAL PRODUCTS	456.9	471.0	473.6	479.7	477.1	465.6
CONSUMER GOODS	308.1	318.1	318.7	322.1	320.3	311.5
DURABLE CONSUMER GOODS	75.8	83.2	82.2	86.5	83.9	75.0
AUTOMOTIVE PRODUCTS	34.4	38.9	36.4	41.0	38.4	33.0
HOME GOODS	41.4	44.3	45.8	45.5	45.5	42.0
NONDURABLE CONSUMER GOODS	232.3	234.9	236.5	235.6	236.5	236.5
CLOTHING	31.8	31.8	30.5	30.7	31.2	
CONSUMER STAPLES	200.4	203.1	206.1	205.0	205.3	206.3
CONSUMER ENERGY (HOME GOODS AND CLOTHING)	43.2	42.8	42.1	42.0	42.5	
(HOME GOODS AND CLOTHING)	73.3	76.1	76.3	76.2	76.7	72.2
EQUIPMENT	148.9	153.0	154.9	157.6	156.8	154.1
BUSINESS EQUIPMENT	107.9	110.8	112.7	114.9	113.7	110.1
INDUSTRIAL EQUIPMENT	49.3	49.8	52.5	53.5	54.0	52.7
COMMERCIAL, TRANSIT, FARM EQ.	58.6	61.0	60.2	61.5	59.7	57.4
DEFENSE AND SPACE EQUIPMENT	40.9	42.2	42.2	42.7	43.1	44.0
INTERMEDIATE PRODUCTS	133.4	138.4	141.5	139.4	139.3	133.2
CONSTRUCTION SUPPLIES	57.2	61.1	63.6	61.9	60.6	55.7
BUSINESS SUPPLIES	76.2	77.3	77.9	77.5	78.8	
COMMERCIAL ENERGY PRODUCTS	18.8	19.0	19.1	19.4	19.3	19.2
MATERIALS	139.2	149.4	154.2	153.4	154.3	144.0
DURABLE GOODS MATERIALS	131.4	144.3	150.9	152.3	152.8	140.3
BASIC METAL MATERIALS	89.3	109.9	117.8	113.6	115.0	100.3
NONDURABLE GOODS MATERIALS	163.2	176.3	179.2	178.4	175.8	164.5
TEXTILE, PAPER AND CHEMICAL MAT	167.0	183.7	186.7	185.9	182.8	
TEXTILE MATERIALS	113.2	113.7	114.8	114.5	115.5	
PAPER MATERIALS	143.6	149.7	151.4	151.0	152.2	
CHEMICAL MATERIALS	200.0	228.2	232.7	231.6	224.9	
ENERGY MATERIALS	128.4	128.2	130.9	125.1	131.6	127.7
MANUFACTURING	141.5	148.6	151.3	152.4	152.5	145.0
DURABLE	130.2	138.4	141.3	143.1	142.6	134.4
NONDURABLE	157.7	163.4	165.7	166.0	166.8	160.3
MINING AND UTILITIES	149.5	150.9	154.1	153.0	157.7	155.5
MINING	130.3	135.3	142.2	137.4	145.8	144.5
UTILITIES	170.9	168.5	167.3	170.3	170.9	167.8

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

MAJOR MARKET GROUPINGS	1972	1980		1981											
	DOLS- LARS	1980 AVG.	1980 DEC.	1981 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
PRODUCTS, TOTAL	507.4	601.9	612.4	612.9	614.5	618.0	616.2	622.2	619.2	621.4	616.5	611.5	606.2	598.9	591.5
FINAL PRODUCTS	390.9	465.2	472.6	471.6	472.8	476.4	476.3	482.4	480.5	481.9	476.4	473.0	471.2	465.8	459.7
CONSUMER GOODS	277.5	313.3	317.7	316.8	318.8	320.5	320.0	324.3	322.1	324.0	319.3	317.7	315.4	311.9	307.3
DURABLE CONSUMER GOODS	82.0	79.8	82.9	80.6	81.8	84.3	84.7	87.1	87.7	86.7	83.0	81.9	78.7	74.5	71.7
AUTOMOTIVE PRODUCTS	41.1	36.1	37.9	34.9	36.1	38.2	39.2	41.7	42.0	40.4	37.1	37.6	35.2	32.1	31.5
HOME GOODS	40.9	43.7	45.1	45.7	45.6	46.1	45.5	45.4	45.7	46.3	45.9	44.3	43.5	42.4	40.2
NONDURABLE CONSUMER GDS	195.5	233.5	234.8	236.2	237.1	236.3	235.3	237.2	234.4	237.3	236.4	235.8	236.7	237.4	235.6
CLOTHING	28.5	32.2	31.1	30.8	30.5	30.1	30.1	31.0	30.9	31.5	31.6	30.6	30.5		
CONSUMER STAPLES	167.0	201.3	203.6	205.4	206.6	206.2	205.2	206.2	203.5	205.8	204.8	205.2	206.2	207.0	205.9
CONSUMER ENERGY PROD (HOME GOODS & CLOTHING)	39.2	43.1	43.1	42.9	42.2	41.3	41.6	42.0	42.3	42.3	43.0	42.2	42.6	43.2	
(HOME GOODS & CLOTHING)	69.4	75.8	76.2	76.5	76.1	76.2	75.6	76.4	76.6	77.8	77.5	74.9	74.0	72.8	69.9
EQUIPMENT	113.4	152.0	154.9	154.8	154.0	155.9	156.3	158.1	158.5	157.9	157.1	155.3	155.9	154.0	152.5
BUSINESS EQUIPMENT	80.6	110.8	112.4	112.4	112.0	113.8	113.7	115.3	115.8	114.9	114.0	112.1	112.0	110.0	108.1
INDUSTRIAL EQUIPMENT	34.4	50.1	50.9	51.8	52.6	53.1	53.1	53.4	53.8	53.8	54.6	53.4	53.2	52.7	52.2
COM'L, TRANSIT, FARM EQ.	46.2	60.7	61.4	60.6	59.3	60.6	60.5	61.8	62.0	61.1	59.3	58.7	58.9	57.3	55.9
DEFENSE & SPACE EQUIP.	32.7	41.2	42.6	42.5	42.0	42.1	42.6	42.8	42.7	43.0	43.1	43.2	43.8	43.9	44.4
INTERMEDIATE PRODUCTS	116.6	136.7	139.8	141.2	141.7	141.7	139.9	139.8	138.7	139.5	140.1	138.4	134.9	133.1	131.8
CONSTRUCTION SUPPLIES	57.8	60.3	61.8	63.6	63.7	63.7	62.7	62.3	60.8	61.2	61.4	59.1	57.2	55.6	54.4
BUSINESS SUPPLIES	58.8	76.4	77.9	77.7	78.0	78.0	77.2	77.4	77.9	78.3	78.7	79.3	77.7	77.5	
COMMERCIAL ENERGY PROD	15.6	18.9	19.2	19.0	18.9	19.4	19.2	19.6	19.5	19.6	19.4	19.0	19.0	19.2	

Table 8
INDUSTRIAL PRODUCTION: DIFFUSION INDEXES
 Percent of component series higher than in earlier months

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1967-80			
AVERAGE	54.9	57.9	60.5
HIGH	71.7	78.7	82.8
LOW	22.6	15.7	14.7
1979			
NOVEMBER	51.7	53.4	54.9
DECEMBER	55.1	54.5	53.4
1980			
JANUARY	55.7	52.1	53.6
FEBRUARY	44.0	47.7	50.6
MARCH	48.3	46.4	49.8
APRIL	26.2	26.4	28.9
MAY	23.8	20.9	26.0
JUNE	35.3	17.2	21.3
JULY	41.7	26.8	23.8
AUGUST	60.0	41.5	21.1
SEPTEMBER	67.9	62.6	25.5
OCTOBER	61.3	65.5	42.8
NOVEMBER	70.0	74.5	65.7
DECEMBER	65.5	70.6	71.5
1981			
JANUARY	58.1	69.4	78.1
FEBRUARY	52.8	63.0	76.6
MARCH	53.4	61.7	75.7
APRIL	44.5	47.4	67.7
MAY	50.9	52.8	57.0
JUNE	50.4	48.3	52.1
JULY	67.4	59.1	56.0
AUGUST	46.6	58.9	53.2
SEPTEMBER	31.9	45.3	43.2
OCTOBER	30.6	26.2	36.4
NOVEMBER	35.5	25.1	31.1

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)	BILL. KWH. 1967	1980 AVG.	1980			1981			1981					PERCENT CHG. FROM PREV. MO. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	JUNE	JULY	AUG	SEP	OCT	NOV	(P)	(P)
TOTAL		560.4	136.5	133.1	135.8	138.2	137.8	139.7	139.3	141.4	139.8	137.8	132.0	131.8	-1	-2.7
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	148.7	148.0	149.2	152.4	151.3	153.9	152.3	155.0	154.7	152.0	147.9	147.2	-4	-2
FINAL PRODUCTS		101.4	147.0	146.8	147.6	150.9	150.3	153.1	151.6	154.5	154.1	150.5	146.4	145.9	-3	.1
CONSUMER GOODS		67.4	152.3	152.1	152.3	156.6	156.2	158.7	157.5	160.4	159.9	155.8	151.1	150.8	-3	-2
EQUIPMENT		34.0	133.5	133.1	135.6	136.6	135.5	138.4	136.5	139.2	139.3	136.7	134.2	133.6	-5	-2
INTERMEDIATE PRODUCTS		34.7	153.7	151.7	154.0	156.8	154.2	156.7	154.5	156.5	156.7	156.8	152.5	151.2	-9	-9
MATERIALS		424.3	132.4	128.0	131.3	133.6	133.3	134.9	134.9	137.0	134.8	132.8	126.6	126.8	.2	-3.6
DURABLE		237.7	132.0	126.0	131.5	134.1	133.4	132.8	133.6	133.9	133.2	131.2	125.8	124.9	-8	-5.3
NONDURABLE		133.0	138.1	133.2	138.9	141.1	141.6	140.2	141.1	143.0	139.9	137.7	133.6	134.1	.3	-3.5
ENERGY, EX. ERDA		23.8	172.4	170.6	172.5	173.3	154.9	176.3	163.0	182.3	172.6	174.2	177.1	182.0	2.7	3.9
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.6	164.6	169.8	179.3	160.7	178.7	165.2	182.4	179.1	174.7	177.3	176.1	-7	4.4
MANUFACTURING		519.2	134.4	131.3	133.7	136.1	136.3	137.5	137.5	139.3	137.4	135.9	129.1	129.6	.4	-3.0
DURABLE	19,24-25,32-39	254.1	132.5	128.0	132.7	134.8	134.3	134.3	134.9	135.7	134.6	132.6	126.9	126.2	-6	-4.9
NONDURABLE	20-23,26-31	265.1	136.3	134.2	134.9	137.5	138.3	140.5	139.9	142.1	140.9	138.4	131.3	133.2	1.4	-1.2
UTILITIES, OWN USE	491,2	6.5	140.1	140.1												
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	161.0	143.6	151.6	168.4	170.2	175.0	172.0	178.1	178.2	168.8	165.8	164.6	-7	9.3
IRON ORE	101	5.0	173.4	161.4	155.9	176.7	186.2	189.8	191.7	194.3	196.3	178.9	175.2	168.9	-3.6	11.2
COPPER ORE	102	3.0	152.6	119.9	152.3	171.5	161.3	171.8	158.0	171.1	176.1	168.2	161.9	171.9	6.2	9.0
COAL	11,2	5.9	200.2	197.0	201.4	204.8	104.2	204.6	121.3	217.1	193.5	203.0	207.9	214.5	3.2	4.9
OIL AND GAS EXTRACTION	13	11.9	177.2	177.9	178.1	182.4	184.4	187.7	186.3	188.6	188.4	185.9	189.2	185.2	-2.1	5.5
CRUDE OIL AND NAT. GAS	131	8.9	199.4	201.8	204.0	208.2	207.2	210.2	207.6	212.2	210.2	208.3	212.9	209.5	-1.6	5.1
NATURAL GAS LIQUIDS	132	2.5	119.4	116.2	113.5	118.3	124.0	123.0	124.8	124.0	121.9	123.0	125.4	123.1	-1.8	7.9
STONE AND EARTH MINERALS	14	6.9	162.0	159.9	163.1	167.1	157.6	154.0	156.8	160.7	152.3	149.1	151.4	151.3	-1	-6.6
CRUSHED STONE	142	1.5	162.9	153.3	163.3	166.6	152.3	152.6	151.6	153.9	151.3	152.5	150.8	144.6	-4.1	-10.7
SAND AND GRAVEL	144	1.1	140.9	137.7	140.9	151.1	135.7	135.4	133.6	136.5	134.4	135.3	130.8	126.6	-3.2	-7.3
CHEMICAL MINERALS	147	3.4	168.8	170.5	170.1	170.0	165.2	159.3	165.9	173.7	157.4	146.8	157.4	157.9	.3	-6.2
ORDNANCE	19	4.1	106.7	109.8	108.3	99.5	99.5	102.8	99.1	106.9	99.0	102.4	104.0	101.9	-2.0	-7.8
FOODS	20	26.8	159.5	161.8	158.6	161.4	161.4	161.9	160.6	162.0	161.2	162.6	159.6	160.2	.4	2.6
MEAT PRODUCTS	201	4.2	168.2	168.7	166.3	171.0	170.6	167.7	169.1	166.8	167.1	169.3	164.0	163.2	-5	-6
DAIRY PRODUCTS	202	4.1	141.5	141.0	145.5	149.5	143.9	139.7	141.2	139.9	139.2	140.0	139.4	145.9	4.7	3.4
CANNED AND FROZEN FOODS	203	3.2	194.1	196.9	193.3	192.2	191.9	192.9	191.0	196.5	196.8	185.4	189.3	205.5	8.5	7.5
GRAIN MILL PRODUCTS	204	4.8	148.4	150.8	148.5	147.4	145.9	148.9	145.8	149.0	144.6	153.1	145.0	141.0	-2.7	-3.8
BAKERY PRODUCTS	205	1.8	140.4	143.2	144.1	144.2	144.4	145.0	143.8	147.9	144.8	142.4	146.3	144.0	-1.6	1.8
SUGAR	206	1.2	238.5	291.4	213.8	257.0	324.8	360.0	360.9	348.3	353.4	378.3	250.8	248.3	-1.0	17.9
CONFECTIONERY	207	1.0	139.0	132.4	141.8	148.4	133.5	131.7	132.2	137.5	128.1	129.4	138.2	142.3	2.9	-1
BEVERAGES	208	2.4	203.2	203.9	208.3	210.1	201.5	200.2	198.0	201.1	198.2	201.3	204.7	203.5	-6	-2.1
MISC. FOOD PRODUCTS	209	4.1	135.7	142.2	130.6	128.2	133.2	137.5	134.4	133.9	139.6	138.9	135.0	132.6	-1.7	4.8
TOBACCO PRODUCTS	21	.9	125.6	125.5	126.9	127.6	124.0	124.4	122.8	122.9	126.3	123.9	125.0	127.7	2.2	-1.4
TEXTILE MILL PRODUCTS	22	20.8	117.6	116.6	114.9	113.7	117.4	118.3	117.5	121.5	118.1	115.2	110.4	107.4	-2.7	-5.9
FABRICS	221-4	11.7	95.2	94.4	92.3	90.4	94.6	93.7	93.3	98.1	92.0	91.0	87.7	84.9	-3.2	-7.2
KNIT GOODS	225	1.7	153.5	147.3	150.9	151.3	150.3	153.0	153.9	156.9	154.3	147.8	140.9	139.5	-1.0	-8.3
FABRIC FINISHING	226	1.5	157.2	156.3	153.8	152.1	154.3	161.1	155.3	168.5	159.1	155.8	149.7	140.5	-6.1	-8.3
YARN AND THREAD	228	3.9	159.9	159.5	157.2	157.9	161.5	163.5	163.5	163.9	167.5	159.2	154.4	148.5	-3.8	-4.8
MISC. TEXTILES	229	1.4	145.3	147.2	143.1	137.2	145.1	148.0	149.8	144.3	145.5	154.2	138.5	141.5	2.2	-2.4
APPAREL PRODUCTS	23	3.6	159.3	161.0	157.6	163.4	159.8	166.0	160.6	169.5	167.9	160.6	160.7	160.6	0.0	4.2
MEN'S OUTERWEAR	231,2	1.0	148.8	156.0	144.8	149.2	149.4	152.1	150.3	156.6	152.6	147.0	146.1	143.8	-1.6	.8
WOMEN'S OUTERWEAR	233	1.0	202.2	204.0	199.9	205.1	196.9	203.5	196.3	209.3	203.4	197.9	196.1	200.0	2.0	2.2
LUMBER AND PRODUCTS	24	8.0	179.5	175.3	180.6	180.7	177.3	178.9	179.3	179.3	177.6	179.8	177.1	171.6	-3.1	-4.3
LUMBER	242	3.9	165.3	160.6	161.1	161.9	159.7	165.8	163.6	164.2	162.3	170.9	170.2	170.9	.4	6.4
MILLWORK AND PLYWOOD	243	2.2	185.3	182.5	195.8	194.9	188.3	183.0	187.6	186.9	182.7	179.5	179.4	163.4	-8.9	-14.7
FURNITURE AND FIXTURES	25	2.5	159.3	154.3	159.1	159.9	161.7	166.5	164.5	171.4	164.6	163.4	160.8	158.4	-1.5	1.4
HOME FURNITURE	251	1.7	171.8	165.4	172.2	174.8	175.1	177.0	178.1	180.4	175.2	175.5	171.6	167.6	-2.3	-1.5
PAPER AND PRODUCTS	26	49.1	123.9	124.0	125.0	124.7	126.1	126.2	127.6	128.8	125.0	124.3	121.3	125.1	3.1	-1
WOOD PULP	261	3.5	116.0	113.4	114.1	117.6	119.8	116.9	122.1	119.5	113.3	118.1	112.3	120.1	6.9	4.7
PAPER	262	24.5	124.8	126.1	128.2	126.5	127.4	127.7	130.2	131.1	126.0	126.0	121.8	128.8	5.7	-4
PAPERBOARD	263	14.8	137.3	138.2	139.1	134.1	131.0	131.9	127.9	136.3	131.3	128.0	123.6	127.1	2.8	-8.6
CONVERTED PAPER	264	2.5	137.6	138.2	133.8	138.8	140.1	146.0	142.8	146.5	145.6	145.9	140.7	142.6	1.4	7.4
PAPERBOARD CONTAINERS	265	2.3	140.7	137.2	144.2	145.2	141.3	142.8	142.8	144.8	142.9	140.5	142.2	146.4	3.0	1.9
BUILDING PAPER AND BOARD	266	1.4	144.0	136.3	148.2	148.5	155.5	143.1	156.4	144.8	140.4	144.1	148.6	140.4	-5.5	-5.4
PRINTING AND PUBLISHING	27	5.8	161.4	161.9	163.5	169.6	164.2	167.6	165.2	167.8	168.5	166.4	164.6	166.1	.9	2.7
NEWSPAPERS	271	1.7	140.7	140.9	141.2	145.7	142.9	144.2	144.3	145.0	143.3	144.2	141.0	143.5	1.8	5.9
COMMERCIAL PRINTING	275	2.4	172.6	173.4	173.4	181.9	175.8	180.3	177.4	178.8	181.7	180.5	178.6	181.4	1.5	5.0

P--PRELIMINARY

Table 9B

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BILL. KWH. 1967	1980 AVG.	1980			1981			1981					PERCENT CHG. FROM PREV. MO. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	JUNE	JULY	AUG	SEP	OCT	NOV	(P)	(P)
TOTAL		560.4	136.5	132.4	136.9	136.7	138.7	138.9	139.9	138.9	139.8	138.1	135.6	133.3	-1.7	-2.7
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	148.7	152.4	150.4	146.8	151.3	158.5	156.7	156.1	159.3	160.1	153.9	150.1	-2.5	-2
FINAL PRODUCTS		101.4	147.0	152.1	148.6	145.1	150.0	158.5	156.5	156.4	159.4	159.7	152.5	148.6	-2.5	.1
CONSUMER GOODS		67.4	152.3	157.9	153.8	150.0	155.6	164.7	162.7	162.2	166.1	165.8	157.9	153.9	-2.5	.2
EQUIPMENT		34.0	133.5	137.2	135.3	132.5	135.6	142.6	140.5	141.6	142.1	144.2	138.6	135.2	-2.5	-2
INTERMEDIATE PRODUCTS		34.7	153.7	153.5	156.0	152.0	155.2	158.6	157.4	155.3	159.3	161.1	158.2	154.7	-2.2	-9
MATERIALS		424.3	132.4	125.7	132.4	133.3	134.6	132.4	134.3	133.2	133.3	130.8	129.5	127.7	-1.4	-3.6
DURABLE		237.7	132.0	124.0	131.3	133.8	135.8	130.7	134.8	132.1	130.8	129.2	127.2	124.3	-2.3	-5.3
NONDURABLE		133.0	138.1	134.1	139.8	138.1	142.6	141.1	142.9	140.9	143.1	139.2	137.1	135.6	-1.1	-3.5
ENERGY, EX. ERDA		23.8	172.4	162.7	172.5	183.4	152.8	168.2	157.7	170.4	166.5	167.6	170.9	180.1	5.4	3.9
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.6	160.5	170.9	180.0	162.9	174.3	167.4	174.7	173.9	174.4	178.0	177.3	-4	4.4
MANUFACTURING		519.2	134.4	131.1	134.9	134.0	137.4	137.3	138.5	137.0	138.3	136.6	133.7	130.9	-2.1	-3.0
DURABLE	19,24-25,32-39	254.1	132.5	127.2	132.9	133.5	136.2	133.5	136.5	133.8	133.7	133.0	129.8	126.7	-2.4	-4.9
NONDURABLE	20-23,26-31	265.1	136.3	134.7	136.9	134.5	138.5	140.9	140.4	140.1	142.6	140.0	137.4	134.9	-1.8	-1.2
UTILITIES, OWN USE	491,21	6.5	140.1	130.0												
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	9.9	161.0	139.9	151.8	168.2	174.5	170.5	176.6	173.1	171.1	167.3	167.3	163.2	-2.5	9.3
IRON ORE	1011	5.0	173.4	158.0	156.5	175.4	190.8	185.8	196.1	193.5	188.4	175.4	172.3	167.7	-5.4	11.2
COPPER ORE	1021	3.0	152.6	112.9	152.6	174.2	167.0	162.3	165.2	157.2	161.5	168.2	164.5	168.4	2.4	9.0
COAL	11,21	5.9	200.2	174.3	201.7	223.9	106.2	180.4	119.5	170.2	180.7	190.3	203.3	213.0	4.8	4.9
OIL AND GAS EXTRACTION	131	11.9	177.2	178.1	178.7	182.2	183.6	187.8	187.8	189.4	185.8	188.3	189.0	187.0	-1.0	5.5
CRUDE OIL AND NAT. GAS	1311	8.9	199.4	200.6	205.0	209.3	206.3	209.0	209.7	211.8	205.6	209.5	211.6	211.8	.1	5.1
NATURAL GAS LIQUIDS	1321	2.5	119.4	120.3	113.5	115.0	123.0	127.2	125.9	128.5	126.6	126.6	126.9	123.9	-2.4	7.9
STONE AND EARTH MINERALS	141	6.9	162.0	160.8	167.3	158.1	160.8	154.8	162.1	158.9	154.3	151.4	158.1	156.4	-1.1	-6.6
CRUSHED STONE	1421	1.5	162.9	162.4	172.5	139.2	159.4	161.6	164.2	161.0	162.2	161.7	164.5	160.2	-2.6	-10.7
SAND AND GRAVEL	1441	1.1	140.9	144.9	149.5	128.3	140.2	142.6	141.6	142.1	142.6	143.0	143.5	138.4	-3.6	-7.3
CHEMICAL MINERALS	1471	3.4	168.8	167.4	172.5	169.2	166.3	156.1	166.2	164.5	154.5	149.3	161.1	159.8	-2.8	-6.2
ORDNANCE	191	4.1	106.7	114.8	108.1	95.5	99.1	107.4	103.2	108.4	105.8	107.9	107.5	102.1	-5.1	-7.8
FOODS	201	26.8	159.5	171.8	162.5	152.2	156.6	171.9	164.0	168.3	172.5	174.9	168.7	165.9	-1.7	2.6
MEAT PRODUCTS	2011	4.2	168.2	185.6	167.2	156.1	167.3	184.5	175.5	182.8	187.3	183.5	172.2	165.3	-4.0	-6
DAIRY PRODUCTS	2021	4.1	141.5	159.1	140.2	134.2	145.1	157.6	154.3	159.8	157.3	155.8	142.0	140.8	-9	3.4
CANNED AND FROZEN FOODS	2031	3.2	194.1	211.3	198.8	180.2	183.8	206.7	187.6	191.4	208.0	220.8	218.3	210.6	-3.5	7.5
GRAIN MILL PRODUCTS	2041	4.8	148.4	152.1	153.0	147.1	140.5	150.1	145.5	147.5	148.5	154.4	149.6	148.0	-1.1	-3.8
BAKERY PRODUCTS	2051	1.8	140.4	156.5	143.5	134.0	141.6	158.4	149.2	159.4	158.4	157.5	152.0	144.0	-5.3	1.8
SUGAR	2061	1.2	238.5	213.7	289.3	286.9	241.0	264.0	249.0	251.8	264.3	275.8	289.9	351.6	21.3	17.9
CONFECTIONERY	2071	1.0	139.0	141.1	146.8	132.4	133.5	140.3	141.4	133.8	139.3	147.7	152.1	149.8	-1.5	-1
BEVERAGES	2081	2.4	203.2	227.5	204.1	189.5	201.6	223.4	211.7	221.8	224.0	224.3	211.7	199.4	-6.3	-2.1
MISC. FOOD PRODUCTS	2091	4.1	135.7	147.5	134.7	122.4	130.1	142.7	137.9	138.2	143.8	146.0	140.1	139.5	-4	4.8
TOBACCO PRODUCTS	211	.9	125.6	137.5	131.5	118.0	116.8	136.3	123.7	118.1	142.6	148.2	139.5	134.0	-4.0	-1.4
TEXTILE MILL PRODUCTS	221	20.8	117.6	119.5	115.4	107.4	120.6	120.9	126.1	111.9	127.2	123.5	115.3	110.0	-4.7	-5.9
FABRICS	221-41	11.7	95.2	96.0	92.5	86.0	97.2	95.1	99.5	89.1	99.3	97.0	91.7	86.8	-5.4	-7.2
KNIT GOODS	2251	1.7	153.5	160.1	149.7	136.0	154.0	165.8	168.9	154.1	175.9	167.6	148.9	141.0	-5.3	-8.3
FABRIC FINISHING	2261	1.5	157.2	151.3	155.3	150.8	158.8	155.8	162.7	146.6	161.4	159.4	152.1	145.0	-4.6	-8.3
YARN AND THREAD	2281	3.9	159.9	165.2	158.4	147.2	166.0	168.9	176.6	151.7	182.4	172.5	159.3	153.6	-3.6	-4.8
MISC. TEXTILES	2291	1.4	145.3	147.2	143.5	133.8	148.5	147.8	158.8	135.0	153.8	154.7	146.2	139.5	-4.6	-2.4
APPAREL PRODUCTS	231	3.6	159.3	186.5	153.4	143.7	157.9	192.0	174.7	181.9	200.8	193.3	173.1	156.6	-9.5	4.2
MEN'S OUTERWEAR	231,21	1.0	148.8	181.4	142.6	129.2	147.1	176.8	164.4	165.4	183.4	181.5	160.2	141.8	-11.5	.8
WOMEN'S OUTERWEAR	2331	1.0	202.2	242.8	190.7	177.3	194.6	242.0	217.3	234.4	252.2	239.4	210.4	189.8	-9.8	2.2
LUMBER AND PRODUCTS	241	8.0	179.5	169.5	181.3	183.5	179.7	172.9	176.8	168.4	172.8	177.6	178.1	175.6	-1.4	-4.3
LUMBER	2421	3.9	165.3	154.7	162.2	164.3	161.8	159.8	158.7	152.2	157.9	169.3	174.6	173.6	-6	6.4
MILLWORK AND PLYWOOD	2431	2.2	185.3	175.1	193.8	199.7	193.1	175.5	199.5	174.4	176.5	175.6	174.4	167.7	-3.8	-14.7
FURNITURE AND FIXTURES	251	2.5	159.3	152.6	160.1	160.5	162.0	164.3	166.6	155.2	168.4	169.3	163.4	162.4	-6	1.4
HOME FURNITURE	2511	1.7	171.8	161.4	173.2	177.7	175.6	172.3	179.4	158.8	178.6	179.7	174.5	169.7	-2.8	-1.5
PAPER AND PRODUCTS	261	49.1	123.9	123.1	124.8	124.0	127.7	125.4	129.3	124.9	127.1	124.0	125.6	125.4	-1	-1
WOOD PULP	2611	3.5	116.0	113.1	114.5	116.7	120.4	116.7	120.9	118.7	111.6	119.6	118.1	119.2	.9	4.7
PAPER	2621	24.5	124.8	124.8	127.3	126.5	129.4	126.3	130.5	126.7	129.2	123.0	126.9	128.1	1.0	-4
PAPERBOARD	2631	14.8	137.3	135.3	137.4	135.5	133.7	129.1	132.2	129.2	132.2	125.8	125.8	126.7	.7	-8.6
CONVERTED PAPER	2641	2.5	137.6	139.8	136.2	133.6	141.3	147.6	146.2	143.4	147.5	152.0	149.3	144.2	-3.4	7.4
PAPERBOARD CONTAINERS	2651	2.3	140.7	138.6	143.5	142.6	142.7	144.2	148.2	140.2	147.9	144.6	146.2	147.1	.7	1.9
BUILDING PAPER AND BOARD	2661	1.4	144.0	138.8	149.1	143.9	156.2	145.7	155.5	143.5	149.5	144.1	151.9	146.6	-3.5	-5.4
PRINTING AND PUBLISHING	271	5.8	161.4	184.0	161.4	151.5	161.3	190.4	174.5	186.7	193.7	190.9	174.8	163.2	-6.6	2.7
NEWSPAPERS	2711	1.7	140.7	161.9	138.3	128.8	140.9	165.6	153.4	166.0	166.5	164.4	147.8	140.5	-4.9	5.9
COMMERCIAL PRINTING	2751	2.4	172.6	196.6	173.5	161.5	171.8	204.4	185.4	196.3	207.8	209.2	193.1	180.4	-6.5	5.0

P--PRELIMINARY

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

SERIES	SIC (1967)	BIL. KWH. 1967	1980 AVG.	1980			1981			1981					PERCENT CHG. FROM PREV.	
				Q 3	Q 4	Q 1	Q 2	Q 3	JUNE	JULY	AUG	SEP	OCT	NOV	MO. (P)	YR. (P)
CHEMICALS AND PRODUCTS	28	116.8	129.0	125.0	126.5	129.4	131.2	133.9	134.2	135.3	135.0	131.3	121.7	123.1	1.2	-3.1
BASIC CHEMICALS	281	96.4	115.2	111.8	111.7	113.6	116.8	119.6	121.0	121.7	120.6	116.7	106.3	107.7	1.3	-4.3
ALKALIES AND CHLORINE	2812	12.3	147.2	141.3	149.2	153.8	155.7	150.7	158.0	151.2	150.2	150.6	142.8	141.5	-9	-5.0
BASIC ORGANIC CHEM. NEC	2818	24.8	143.5	134.2	146.0	151.4	152.4	143.7	148.6	144.7	145.5	141.0	137.3	136.6	-5	-5.8
INORGANIC CHEM. NEC	2819	48.6	94.2	92.8	86.1	86.3	89.9	97.4	97.3	99.6	98.2	94.6	81.5	82.1	.7	-4.5
ACID AND FERT. MAT'LS.		18.8	104.3	98.0	102.5	100.2	98.4	99.1	98.4	101.6	101.2	94.4	91.6	90.1	-1.6	-12.4
ERDA		29.8	87.8	89.7	76.7	77.3	84.6	97.1	97.3	99.9	97.1	94.4	75.0	78.6	4.7	1.8
SYNTHETIC MATERIALS	282	12.1	192.4	176.6	196.7	200.3	195.6	192.0	190.8	195.3	190.6	190.1	187.5	191.3	2.0	-3.3
PLASTICS MATERIALS	2821	4.4	196.2	179.6	205.4	216.2	214.7	207.1	209.7	209.9	204.7	206.8	196.5	204.3	4.0	-1
OTHER SYNTHETICS	2822-4	7.7	190.4	174.7	190.8	192.2	186.2	183.5	181.8	187.9	181.1	181.6	182.5	183.5	.5	-5.2
DRUGS	283	2.0	210.0	213.3	215.2	220.7	220.8	221.9	218.4	225.5	223.3	216.8	216.0	220.6	2.1	3.6
SOAP AND TOILETRIES	284	1.0	147.5	151.3	147.7	150.5	149.4	159.2	154.1	159.9	161.1	156.5	148.8	144.4	-3.0	-7.7
FARM CHEMICALS	287	2.7	166.8	173.7	171.1	175.0	170.2	182.2	172.2	179.6	180.7	186.4	174.2	175.8	.9	2.1
PETROLEUM PRODUCTS	29	22.3	177.5	174.6	176.7	185.6	181.2	181.3	181.6	180.6	180.9	182.4	178.0	181.3	1.8	3.9
RUBBER AND PLASTICS PROD.	30	10.8	178.9	175.3	180.4	181.6	185.2	189.1	185.6	193.7	188.1	185.4	180.1	177.9	-1.2	-1.2
TIRES	301	3.2	115.0	110.4	115.4	112.0	111.4	114.0	111.5	116.3	114.9	110.9	105.8	108.3	2.3	-7.4
RUBBER PRODUCTS NEC	306	2.3	124.7	123.0	127.9	130.2	133.2	132.2	134.9	136.9	128.5	131.0	125.4	121.3	-3.3	-2.9
PLASTICS PRODUCTS NEC	307	4.8	252.1	245.9	252.3	258.0	264.4	270.9	265.9	276.0	269.8	266.9	262.9	256.2	-2.6	2.3
LEATHER AND PRODUCTS	31	1.3	114.8	113.5	112.7	117.0	115.2	120.2	116.6	121.6	122.3	116.8	117.4	113.7	-3.2	2.4
SHOES	314	.6	94.1	92.6	94.0	98.9	94.6	99.2	95.7	99.5	101.4	96.6	98.2	94.3	-4.0	2.3
CLAY, GLASS, STONE PRODUCTS	32	20.8	149.7	145.2	150.7	151.6	150.0	148.5	149.0	150.0	147.2	148.4	143.8	144.6	.6	-4.3
FLAT GLASS	321	1.2	113.6	109.7	115.9	112.3	114.2	116.8	114.5	116.0	117.7	116.7	110.7	116.3	5.0	.8
PRESSED AND BLOWN GLASS	322	3.5	207.4	203.8	212.0	211.6	208.3	208.8	208.2	209.3	206.2	210.8	193.3	196.7	1.7	-7.4
CEMENT	324	8.4	117.4	116.1	118.7	116.9	115.6	111.6	114.8	115.3	108.2	111.2	110.9	113.5	2.3	-6.3
STRUCTURAL CLAY PRODUCTS	325	1.3	104.6	99.7	104.2	102.7	103.3	104.2	104.4	104.8	103.2	104.4	97.7	91.1	-6.8	-11.3
CONCRETE PRODUCTS	327	2.3	189.5	180.7	189.3	193.9	190.4	184.9	183.4	186.2	184.5	184.1	180.6	177.3	-1.9	-4.3
PRIMARY METALS	33	132.0	124.0	118.1	123.5	125.5	124.5	123.0	124.3	124.6	123.6	120.9	115.4	114.4	-.9	-7.8
BASIC STEEL & MILL PROD.	331	54.4	106.1	94.3	106.3	110.9	111.0	108.5	109.6	111.7	108.2	105.7	98.4	100.7	2.3	-6.8
IRON & STEEL FOUNDRIES	332	5.9	195.6	185.9	199.7	203.3	204.2	210.8	207.5	216.2	211.8	204.4	185.6	184.7	-5	-8.6
PRIMARY NONFERROUS METALS	333	59.5	128.6	127.9	126.9	126.6	125.3	122.3	124.7	123.5	123.1	120.3	116.8	113.9	-2.5	-10.3
ALUMINUM	3334	53.6	126.2	125.9	124.1	124.4	120.5	116.9	119.6	119.2	116.6	115.0	112.0	108.8	-2.9	-12.7
NONFERROUS MILL PRODUCTS	335	8.4	116.3	114.3	118.7	115.8	115.3	119.6	116.9	122.5	117.2	119.0	116.6	111.7	-4.2	-4.3
NONFERROUS FOUNDRIES	336	1.4	167.2	160.5	166.7	171.7	173.0	175.2	177.3	176.9	175.1	173.6	168.1	163.6	-2.6	-.8
FABRICATED METAL PRODUCTS	34	14.8	159.6	154.2	160.2	162.8	162.6	167.6	164.0	167.9	170.4	164.4	160.9	160.1	-.5	1.0
METAL CANS	341	1.0	211.7	204.5	216.1	211.8	211.8	205.4	213.8	204.9	206.1	205.1	212.1	214.4	1.1	-7.7
HARDWARE	342	1.6	147.7	145.1	150.4	153.4	155.6	160.1	158.9	160.5	166.8	153.1	145.9	148.3	1.7	-1.6
STRUCTURAL METAL PROD.	344	3.5	135.8	129.1	133.4	138.2	133.3	135.6	132.1	135.5	135.8	135.2	132.4	131.2	-.9	-.4
FASTENERS	345	1.2	155.5	149.3	158.8	160.8	160.3	166.0	163.0	166.6	167.2	164.2	161.4	157.0	-2.7	-7.7
METAL STAMPINGS	346	3.1	138.4	133.5	140.2	143.3	148.2	160.0	152.1	162.8	160.2	156.9	147.9	148.2	.2	6.8
NONELECTRICAL MACHINERY	35	17.3	157.9	157.2	160.4	163.4	164.4	167.6	165.5	169.3	167.5	165.9	162.3	161.5	-.5	2.5
ENGINES AND TURBINES	351	1.4	135.1	128.4	135.4	145.3	141.2	145.7	143.8	146.2	152.1	138.9	133.1	134.4	.9	5.2
FARM EQUIPMENT	352	1.2	124.7	126.9	127.0	125.3	114.9	110.1	110.0	115.0	116.0	99.3	99.5	103.4	4.0	-17.4
CONSTRUCTION EQUIPMENT	353	3.0	174.1	174.7	176.5	178.6	181.9	188.8	185.5	191.9	191.9	182.7	187.3	178.1	-4.9	3.8
METALWORKING MACHINERY	354	2.8	132.3	134.9	130.0	130.1	131.8	138.0	135.3	140.0	138.1	135.9	127.1	127.8	.6	-1.1
SPECIAL INDUSTRY MACH.	355	1.5	148.9	148.6	149.6	151.6	144.0	142.8	143.8	142.5	143.8	142.0	139.4	140.0	.4	-5.8
GENERAL INDUSTRIAL MACH.	356	2.7	145.6	145.4	144.0	149.0	148.7	151.4	149.8	151.2	151.7	151.3	147.2	144.7	-1.7	2.2
OFFICE AND COMPUTING MACH.	357	1.4	222.5	223.1	241.1	253.8	258.5	266.6	258.1	265.5	263.9	270.4	258.0	270.4	4.8	13.4
SERVICE INDUSTRY MACH.	358	1.2	142.0	134.2	144.0	140.8	141.2	135.5	140.1	142.0	130.6	133.8	132.9	129.7	-2.4	-8.8
ELECTRICAL MACHINERY	36	19.2	137.6	135.6	138.6	140.6	141.5	145.5	143.3	146.6	145.9	144.2	139.8	139.8	0.0	2.7
ELECT. DISTRIBUTION EQ.	361	1.8	121.3	119.9	117.8	120.2	122.3	126.7	125.5	119.8	136.7	123.4	118.4	121.3	2.4	4.1
ELECT. INDUST. APPARATUS	362	3.5	123.7	118.1	123.8	124.7	127.0	127.1	126.1	129.8	124.3	127.1	121.8	125.5	3.0	-1.3
HOME APPLIANCES	363	2.2	102.9	97.5	107.5	109.4	111.2	113.3	112.9	111.5	118.6	109.7	107.5	104.4	-2.9	-2.5
LIGHTING & WIRING PROD.	364	1.5	142.6	140.8	142.7	144.1	144.1	149.7	146.1	153.5	149.6	146.0	140.8	144.9	2.9	3.0
RADIO AND TV SETS	365	.8	120.5	119.8	120.5	128.8	124.3	124.9	126.3	129.7	123.2	122.0	119.0	120.1	.9	1.8
COMMUNICATION EQUIP.	366	3.9	151.7	155.2	148.8	153.3	151.9	158.8	152.0	161.8	160.2	154.4	150.8	151.2	.2	3.3
ELECTRONIC COMPONENTS	367	4.2	168.5	167.5	174.3	175.6	176.3	181.4	178.2	183.7	177.9	182.7	178.3	178.6	.2	5.2
TRANSPORTATION EQUIPMENT	37	23.6	120.1	117.8	122.8	124.0	124.3	126.0	127.4	130.4	126.0	121.6	113.5	114.3	.7	-7.3
MOTOR VEHICLES AND PARTS	371	12.8	122.9	119.7	125.8	126.9	128.7	130.4	133.0	136.7	130.4	124.1	114.8	113.7	-1.0	-10.7
AIRCRAFT AND PARTS	372	8.4	99.2	98.1	104.5	103.6	100.9	101.6	101.1	102.4	101.8	100.5	98.0	96.6	-1.4	-5.8
SHIPS AND BOATS	373	1.3	146.5	144.7	150.1	160.5	156.2	162.4	156.2	160.5	163.0	163.6	154.5	169.8	9.9	14.9
INSTRUMENTS	38	3.1	160.8	160.3	163.1	168.9	168.7	173.1	168.8	175.7	172.6	171.0	166.5	172.0	3.3	7.1
PHOTOGRAPHIC EQUIPMENT	386	1.4	158.5	157.9	160.4	167.6	166.4	169.5	167.2	171.2	164.7	172.5	159.2	172.8	8.5	7.8
MISC. MANUFACTURES	39	2.5	152.6	152.0	153.7	159.4	158.7	151.4	161.3	163.9	162.3	157.9	152.6	155.7	2.0	2.5
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	139.9	135.9	140.2	142.7	141.5	142.4	142.0	144.3	142.6	140.4	136.2	136.3	0.0	-2.8
ELECTRIC UTILITIES		462.6	149.3	145.9	148.6	151.7	151									

Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1980 AVG.	1980			1981			1981					PERCENT CHG. FROM PREV. MO. 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	129.0	122.6	129.5	128.3	131.3	131.3	130.4	132.8	132.3	128.9	127.2	125.0	-1.7	-3.1
BASIC CHEMICALS	281	96.4	115.2	108.0	115.6	113.8	116.2	115.6	114.7	117.4	117.1	112.3	111.8	110.0	-1.6	-4.3
ALKALIES AND CHLORINE	2812	12.3	147.2	142.1	152.5	149.5	155.2	151.7	154.8	153.4	152.2	149.4	143.8	145.2	.9	-5.0
BASIC ORGANIC CHEM.NEC	2818	24.8	143.5	137.7	149.2	145.8	150.4	147.5	147.6	147.4	149.2	145.8	142.5	139.1	-2.4	-5.8
INORGANIC CHEM. NEC	2819	48.6	94.2	85.0	91.2	89.0	88.8	89.4	87.2	91.3	91.1	85.7	88.2	85.6	-2.9	-4.5
ACID AND FERT. MAT'LS.		18.8	104.3	96.7	103.1	99.5	99.6	97.9	98.2	102.0	100.7	90.9	92.6	89.9	-2.9	-12.4
ERDA		29.8	87.8	77.6	83.6	82.2	82.0	84.0	80.2	84.5	85.0	82.4	85.3	82.8	-2.9	1.8
SYNTHETIC MATERIALS	2821	12.1	192.4	182.4	191.6	195.0	198.8	198.4	198.2	201.0	198.0	196.1	188.4	185.7	-1.4	-3.3
PLASTICS MATERIALS	2821	4.4	196.2	184.4	204.4	209.5	216.3	212.7	215.3	212.3	211.8	213.9	200.1	201.0	.5	-1
OTHER SYNTHETICS	2822-4	7.7	190.4	181.4	184.7	187.1	189.4	190.6	188.9	194.8	190.5	186.5	182.1	177.4	-2.6	-5.2
DRUGS	283	2.0	210.0	232.1	212.7	202.3	221.8	241.3	233.9	244.2	239.0	240.8	229.6	219.5	-4.4	3.6
SOAP AND TOILETRIES	284	1.0	147.5	153.8	148.4	146.1	150.4	161.8	155.4	162.3	160.0	163.1	153.9	146.1	-5.0	-7
FARM CHEMICALS	287	2.7	166.8	169.3	169.7	173.4	176.9	177.6	174.5	174.3	177.3	181.1	173.7	172.8	-5	2.1
PETROLEUM PRODUCTIS	29	22.3	177.5	180.9	177.9	179.6	179.2	187.9	185.2	187.3	188.8	187.5	182.5	181.8	-4	3.9
RUBBER AND PLASTICS PROD.	30	10.8	178.9	174.1	182.3	179.6	186.5	187.6	189.9	182.7	189.6	190.6	188.6	181.5	-3.8	-1.2
TIRES	301	3.2	115.0	110.2	115.4	111.4	112.1	113.7	115.3	110.5	115.9	114.6	112.3	106.2	-5.4	-7.4
RUBBER PRODUCTS NEC	306	2.3	124.7	121.8	130.8	129.1	132.6	130.8	136.0	125.3	131.4	135.6	131.1	126.0	-3.9	-2.9
PLASTICS PRODUCTS NEC	307	4.8	252.1	243.5	255.6	254.1	267.4	268.1	270.4	261.1	270.9	272.3	273.2	265.4	-2.8	2.3
LEATHER AND PRODUCTS	31	1.3	114.8	114.8	113.2	114.4	115.8	121.6	120.7	112.4	128.6	123.9	120.2	115.5	-3.9	2.4
SHOES	314	.6	94.1	95.4	93.6	96.3	94.6	102.1	99.1	93.0	109.5	103.7	100.1	94.6	-5.5	2.3
CLAY, GLASS, STONE PRODUCTS	32	20.8	149.7	149.0	153.0	142.6	152.6	152.4	153.1	151.9	152.6	152.5	150.0	147.8	-1.5	-4.3
FLAT GLASS	321	1.2	113.6	111.8	116.1	119.7	114.2	119.2	115.3	115.8	122.2	119.5	116.8	115.9	-8	.8
PRESSED AND BLOWN GLASS	322	3.5	207.4	206.6	212.8	205.5	210.4	211.6	212.1	212.0	210.0	212.9	202.0	198.6	-1.7	-7.4
CEMENT	324	8.4	117.4	122.3	121.8	103.4	119.5	117.6	119.3	119.7	116.0	117.1	117.6	116.5	-9	-6.3
STRUCTURAL CLAY PRODUCTS	325	1.3	104.6	98.2	105.6	102.3	103.7	102.6	105.1	102.4	102.6	102.7	98.2	94.0	-4.3	-11.3
CONCRETE PRODUCTS	327	2.3	189.5	183.5	192.6	185.1	192.5	187.7	188.6	185.5	188.7	189.0	187.1	184.7	-1.3	-4.3
PRIMARY METALS	33	132.0	124.0	115.1	122.9	126.6	127.1	120.0	124.8	121.8	120.2	117.8	116.0	113.2	-2.4	-7.8
BASIC STEEL & MILL PROD.	331	54.4	106.1	90.8	104.8	113.4	114.2	104.5	110.6	107.0	104.9	101.5	97.6	98.5	.9	-6.8
IRON & STEEL FOUNDRIES	332	5.9	195.6	175.5	202.8	204.4	211.5	198.4	213.3	192.0	199.3	203.9	194.5	189.1	-2.8	-8.6
PRIMARY NONFERROUS METALS	333	59.5	128.6	126.9	126.9	126.3	126.6	121.4	124.5	124.5	121.5	118.2	118.1	112.5	-4.7	-10.3
ALUMINUM	3334	53.6	126.2	126.7	124.0	122.8	121.2	117.6	119.4	121.7	117.1	114.2	113.2	107.1	-5.4	-12.7
NONFERROUS MILL PRODUCTS	335	8.4	116.3	111.3	117.1	117.2	118.3	116.3	119.5	116.1	115.9	116.9	118.5	111.3	-6.1	-4.3
NONFERROUS FOUNDRIES	336	1.4	167.2	155.0	166.8	175.9	174.5	169.2	179.1	166.5	167.0	174.0	172.9	166.7	-3.6	-8
FABRICATED METAL PRODUCTS	34	14.8	159.6	152.8	160.6	162.6	163.8	166.0	166.1	162.2	168.2	167.5	165.4	161.7	-2.3	1.0
METAL CANS	341	1.0	211.7	216.6	208.3	206.8	211.7	217.6	218.3	216.6	222.0	214.1	215.2	205.0	-4.8	-7
HARDWARE	342	1.6	147.7	141.3	152.9	154.3	156.1	155.7	160.0	154.5	156.6	156.0	152.7	151.6	-8	-1.6
STRUCTURAL METAL PROD.	344	3.5	135.8	126.6	135.0	139.0	133.5	132.9	131.6	129.4	135.4	134.0	136.2	133.9	-1.7	-4
PASTENERS	345	1.2	155.5	145.8	158.4	163.1	162.2	162.0	165.4	157.6	161.8	166.6	164.8	158.1	-4.0	-7
METAL STAMPINGS	346	3.1	138.4	131.6	140.5	142.9	150.3	157.6	154.7	153.8	159.6	159.4	154.4	151.0	-2.2	6.8
NONELECTRICAL MACHINERY	35	17.3	157.9	160.7	159.8	159.9	164.7	171.3	170.8	168.8	170.2	174.9	167.3	163.6	-2.2	2.5
ENGINES AND TURBINES	351	1.4	135.1	128.4	135.4	143.0	142.7	145.6	147.8	147.3	146.1	143.5	139.5	138.4	-8	5.2
FARM EQUIPMENT	352	1.2	124.7	123.6	126.8	123.6	119.3	106.7	120.5	106.5	106.7	106.9	104.0	103.9	-1	-17.4
CONSTRUCTION EQUIPMENT	353	3.0	174.1	175.0	177.4	177.4	181.7	189.0	187.5	185.0	189.0	193.1	190.1	183.8	-3.3	3.8
METALWORKING MACHINERY	354	2.8	132.3	134.1	129.8	131.2	131.6	137.1	136.4	135.3	136.6	139.4	131.2	128.2	-2.3	-1.1
SPECIAL INDUSTRY MACH.	355	1.5	148.9	150.0	149.3	149.6	144.7	144.0	147.5	139.6	145.0	147.4	142.8	141.9	-6	-5.8
GENERAL INDUSTRIAL MACH.	356	2.7	145.6	146.8	144.0	146.6	149.2	153.0	153.7	148.0	151.9	159.0	151.8	147.6	-2.7	2.2
OFFICE AND COMPUTING MACH.	357	1.4	222.5	240.6	240.1	237.6	255.2	287.5	269.9	284.6	285.3	292.6	272.0	272.9	.3	13.4
SERVICE INDUSTRY MACH.	358	1.2	142.0	141.1	140.4	134.4	143.5	142.5	149.7	151.6	133.4	142.5	137.0	127.8	-6.7	-8.8
ELECTRICAL MACHINERY	36	19.2	137.6	139.7	138.3	135.5	142.4	150.0	148.4	147.8	148.8	153.4	146.5	140.9	-3.8	2.7
ELECT. DISTRIBUTION EQ.	361	1.8	121.3	123.2	116.6	116.5	123.6	130.1	130.0	126.2	134.9	129.2	125.4	120.3	-4.1	4.1
ELECT. INDUSTR. APPARATUS	362	3.5	123.7	118.6	123.0	122.9	128.8	127.6	129.5	129.0	124.9	129.0	127.2	121.7	-4.3	-1.3
HOME APPLIANCES	363	2.2	102.9	99.0	106.1	108.1	112.4	114.9	116.8	112.4	115.5	116.6	111.8	104.5	-6.5	-2.5
LIGHTING & WIRING PROD.	364	1.5	142.6	137.7	143.4	142.7	147.8	146.0	153.3	143.1	140.4	154.4	146.9	148.2	.9	3.0
RADIO AND TV SETS	365	.8	120.5	130.5	119.4	119.3	123.5	136.0	133.3	135.8	136.0	136.3	124.5	120.4	-3.3	1.8
COMMUNICATION EQUIP.	366	3.9	151.7	163.4	150.8	143.4	151.2	167.2	159.3	164.5	167.7	169.3	163.4	154.6	-5.3	3.3
ELECTRONIC COMPONENTS	367	4.2	168.5	178.0	172.8	165.5	176.4	192.9	187.1	190.2	188.7	199.9	186.5	178.2	-4.4	5.2
TRANSPORTATION EQUIPMENT	37	23.6	120.1	118.3	124.0	120.8	125.7	126.4	130.4	126.5	126.7	126.0	120.0	116.9	-2.5	-7.3
MOTOR VEHICLES AND PARTS	371	12.8	122.9	118.5	127.9	123.9	131.2	128.8	137.3	129.2	128.9	128.3	121.4	117.4	-3.3	-10.7
AIRCRAFT AND PARTS	372	8.4	99.2	102.9	103.7	99.2	100.8	106.5	103.0	107.0	106.3	106.2	101.6	98.0	-3.5	-5.8
SHIPS AND BOATS	373	1.3	146.5	144.3	149.6	163.1	154.3	161.9	157.4	158.0	163.8	163.9	156.2	173.0	10.8	14.9
INSTRUMENTS	38	3.1	160.8	171.6	162.1	158.4	168.1	185.2	177.5	184.7	183.8	187.1	174.3	171.8	-1.5	7.1
PHOTOGRAPHIC EQUIPMENT	386	1.4	158.5	166.3	159.7	158.0	167.3	178.4	174.9	178.2	175.4	181.7	166.7	170.9	2.5	7.8
MISC. MANUFACTURES	39	2.5	152.6	157.8	154.2	153.5	157.9	167.4	164.7	162.0	171.0	169.3	160.5	157.3	-2.0	2.5
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	139.9	136.2	140.6	140.5	142.7	142.8	144.0	142.7	143.6	142.0	139.1			

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:

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

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.