

FEDERAL RESERVE



Industrial Production

INDUSTRIAL PRODUCTION

For release at 9:30 a.m. (EDT)
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G.12.3

Industrial production declined an estimated 0.7 percent in June, following revised decreases of 0.6 percent in May and 1.1 percent in April. Again in June, gains in output of consumer durable goods were offset by a sharp cutback in business equipment production and a reduction in output of materials. At 138.4 percent of the 1967 average the total index for June was 10.6 percent below its recent peak in July 1981.

Market Groupings

Output of consumer durable goods increased 1.7 percent in June, reflecting a sizable gain in automotive products and a large advance in home goods. Autos were assembled at an annual rate of 5.9 million units--up from the rate of 5.6 million units in May. Nondurable consumer goods output declined, however, reflecting decreased output of most consumer staples. Business equipment production was reduced 2.7 percent further in June, bringing the total decline in this sector to 15.4 percent since July 1981; this cutback compares with a total reduction of 14.3 percent that occurred over seven months in the 1974-75 recession. In June there were reductions in most major categories of business equipment, but they were most pronounced in building and mining equipment and in manufacturing equipment. Output of construction supplies declined 0.7 percent further.

Materials production was reduced 0.7 percent in June--a somewhat smaller decline than has occurred in recent months. Output of basic metals and equipment parts was weaker, while parts for consumer durables advanced for the fifth consecutive month. Another large cutback occurred in production of nondurable materials in June, particularly in the textiles, paper, and chemical grouping. Energy materials also declined again.

INDUSTRIAL PRODUCTION: MAJOR MARKET GROUPINGS (Seasonally Adjusted)

Indexes, 1967=100	1982		Percentage change					
	May (p)	June (e)	Feb.	Mar.	Apr.	May	June	June 81
			From preceding month					
Total	139.4	138.4	1.6	-.8	-1.1	-.6	-.7	-9.5
Products, total	142.4	141.3	1.2	-.6	-.6	-.4	-.8	-7.2
Final Products	142.3	141.3	.9	-.6	-.4	-.3	-.7	-6.7
Consumer Goods	143.3	143.4	1.6	-.2	.5	.8	.1	-4.6
Durable	133.6	135.9	4.8	1.7	2.0	2.2	1.7	-8.1
Nondurable	147.2	146.4	.5	-.9	.0	.3	-.5	-3.2
Business Equipment	160.8	156.4	-.3	-1.5	-2.4	-2.5	-2.7	-14.8
Defense and Space	107.6	108.0	1.2	.5	-.1	.7	.4	6.2
Intermediate Products	142.6	141.6	2.0	-.8	-1.2	-.6	-.7	-8.6
Construction Supplies	122.4	121.5	2.7	-1.5	-2.2	-.4	-.7	-15.3
Materials	134.8	133.9	2.3	-1.4	-1.7	-1.0	-.7	-13.1

p--preliminary e--estimate

Major Industry Groupings

Manufacturing output declined further in June, reflecting a 0.9 percent reduction in durable goods output and a 0.5 percent decline in nondurables. Both mining and utility output were off sharply, by 2.7 and 1.1 percent, respectively.

INDUSTRIAL PRODUCTION: MAJOR INDUSTRY GROUPINGS (Seasonally Adjusted)

Indexes, 1967=100	1982		Percentage change					
	May	June	Feb.	Mar.	Apr.	May	June	June
	(p)	(e)	From preceding month					June 81
Manufacturing	138.2	137.3	1.7	-.6	-1.0	-.4	-.7	-9.9
Durable	126.4	125.3	1.7	-.9	-1.2	-.2	-.9	-12.5
Nondurable	155.3	154.6	1.7	-.3	-.7	-.6	-.5	-6.8
Mining	130.2	126.7	-1.5	-3.0	-3.3	-2.5	-2.7	-10.6
Utilities	169.9	168.0	-.8	-.2	.6	-.6	-1.1	-2.7
p--preliminary e--estimate								

FEDERAL RESERVE

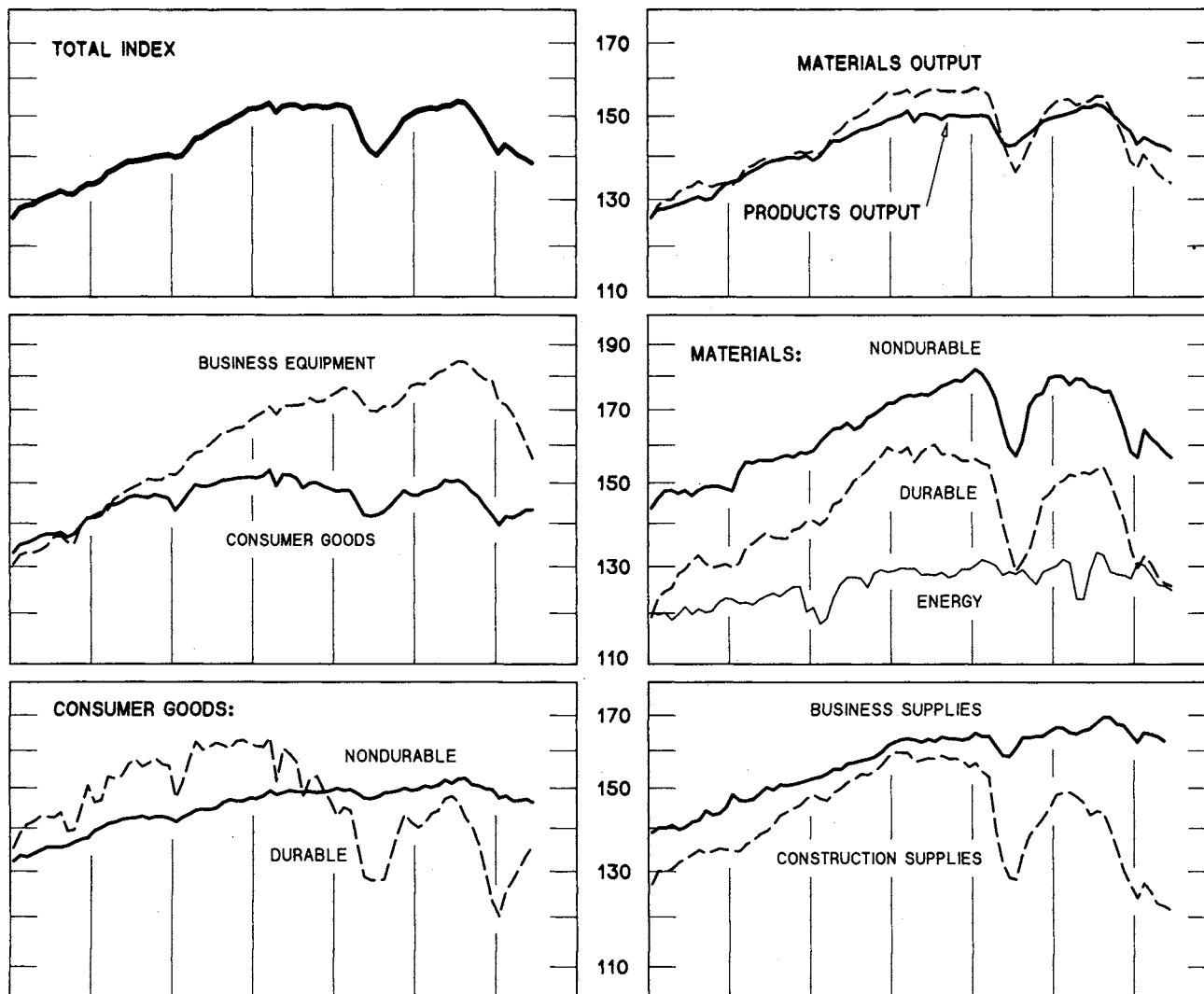


Industrial Production

INDUSTRIAL PRODUCTION

JUNE DATA

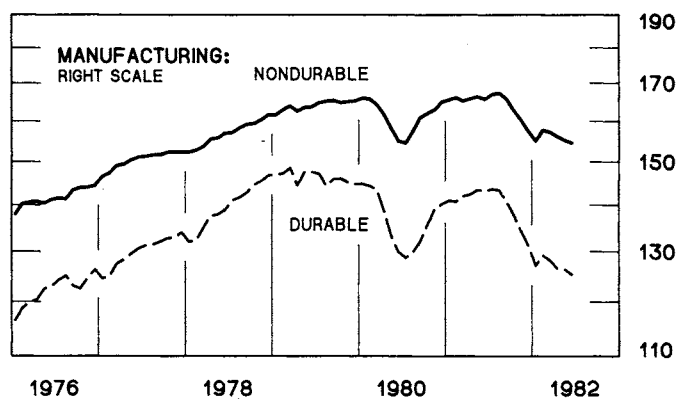
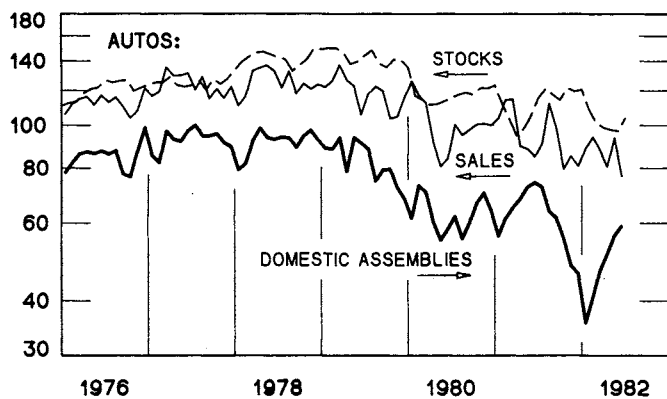
SEASONALLY ADJUSTED, RATIO SCALE, 1967=100



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 PRO- TION	1981 AVG.	1981 JUNE	1981 JULY	1981 AUG.	1981 SEP.	1981 OCT.	1981 NOV.	1981 DEC.	1982					
										JAN.	FEB.	MAR.	APR.	MAY	JUNE
TOTAL INDEX	100.00	151.0	152.9	153.9	153.6	151.6	149.1	146.3	143.4	140.7	142.9	141.7	140.2	139.4	138.4
PRODUCTS, TOTAL	60.71	150.6	152.2	153.0	152.6	151.0	149.4	147.5	146.2	142.9	144.6	143.7	142.9	142.4	141.3
FINAL PRODUCTS	47.82	149.5	151.4	152.1	151.5	150.0	148.9	147.2	146.3	142.8	144.1	143.3	142.7	142.3	141.3
CONSUMER GOODS	27.68	147.9	150.3	150.7	149.6	147.8	146.5	144.0	142.0	139.6	141.8	141.5	142.2	143.3	143.4
EQUIPMENT	20.14	151.8	153.0	154.1	154.0	152.9	152.1	151.5	152.1	147.2	147.3	145.9	143.3	140.9	138.3
INTERMEDIATE PRODUCTS	12.89	154.4	154.9	156.2	156.8	154.6	151.4	148.7	145.9	143.4	146.3	145.2	143.5	142.6	141.6
MATERIALS	39.29	151.6	154.0	155.3	155.2	152.5	148.5	144.6	139.0	137.2	140.4	138.5	136.1	134.8	133.9
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	140.5	147.9	146.5	142.5	140.4	136.3	129.7	123.2	120.1	125.9	128.1	130.7	133.6	135.9
AUTOMOTIVE PRODUCTS	2.83	137.9	153.1	147.6	137.6	139.1	132.8	121.7	119.2	109.2	117.5	125.0	130.0	139.1	143.0
AUTOS & UTILITY VEHICLES	2.03	111.2	131.4	123.0	107.8	110.0	101.7	88.9	87.5	71.6	82.0	93.6	100.6	111.8	117.1
AUTOS, TOTAL	1.90	103.4	122.2	118.1	104.0	103.3	92.5	81.1	78.1	61.3	70.5	79.8	87.2	96.1	101.9
AUTO PARTS & ALLIED GOODS	.80	205.6	208.0	210.0	213.1	212.9	211.8	205.0	199.7	204.4	207.8	204.5	204.6	208.5	208.9
HOME GOODS	5.06	142.0	145.0	145.8	145.3	141.1	138.2	134.1	125.4	126.3	130.6	129.9	131.1	130.5	131.9
APPLIANCES, AIR COND & TV	1.40	119.6	120.0	123.6	126.8	119.0	116.7	107.7	85.7	100.6	103.5	97.0	102.6	99.9	105.1
APPLIANCES AND TV	1.33	121.2	121.4	124.8	128.9	121.4	118.7	108.7	86.6	101.6	104.1	97.4	103.1	100.8	
CARPETING AND FURNITURE	1.07	158.0	166.3	163.2	160.1	158.6	152.6	146.9	144.4	137.9	147.8	151.3	151.8	149.5	
MISC. HOME GOODS	2.59	147.4	149.8	150.7	149.2	145.8	143.9	143.2	139.1	135.4	138.1	138.9	138.0	139.3	139.9
NONDURABLE CONSUMER GOODS	19.79	150.9	151.2	152.3	152.5	150.8	150.5	149.7	149.5	147.4	148.1	146.8	146.8	147.2	146.4
CLOTHING	4.29	119.8	120.9	122.8	121.9	119.3	117.8	116.1	113.8						
CONSUMER STAPLES	15.50	159.5	159.6	160.5	161.0	159.5	159.6	159.0	159.4	158.9	159.2	158.1	158.3	158.7	157.6
CONSUMER FOODS & TOBACCO	8.33	150.3	149.6	150.5	150.6	149.5	150.7	150.4	150.9	150.0	151.1	149.6	148.4		
NONFOOD STAPLES	7.17	170.0	171.3	172.2	173.0	171.1	169.9	169.1	169.3	169.1	168.7	168.0	169.7	169.1	168.2
CONSUMER CHEMICAL PROD	2.63	223.1	224.4	226.8	227.7	227.5	223.0	220.3	220.1	220.1	218.2	217.8	218.3	217.8	
CONSUMER PAPER PRODUCTS	1.92	127.9	129.2	127.6	128.9	127.7	126.9	125.7	127.2	127.0	130.2	127.8	128.7	126.7	
CONSUMER ENERGY PROD	2.62	147.7	148.9	150.0	150.4	146.4	148.2	149.4	149.1	148.9	147.2	147.6	151.1	151.4	
RESIDENTIAL UTILITIES	1.45	166.3	170.4	172.6	169.7	162.8	166.2	167.4	167.5	172.3	171.6	170.4	174.5		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	181.1	183.6	184.8	184.4	182.7	180.5	179.0	179.0	172.2	171.6	169.0	164.9	160.8	156.4
INDUSTRIAL EQUIPMENT	6.77	166.4	169.0	169.4	170.2	168.9	166.9	165.1	164.0	158.1	155.9	151.2	145.9	139.8	134.0
BUILDING AND MINING EQUIP	1.44	286.2	289.7	290.3	293.0	293.6	295.6	293.8	294.6	289.0	274.9	256.9	242.2	225.6	210.1
MANUFACTURING EQUIPMENT	3.85	127.9	130.6	130.8	130.8	129.3	125.7	123.6	122.0	116.9	116.8	116.3	114.0	110.6	107.1
POWER EQUIPMENT	1.47	149.7	151.2	151.6	152.7	150.4	148.4	147.1	145.5	137.4	141.1	139.0	134.8	132.3	129.7
CON'L, TRANSIT, FARM EQ	5.86	198.0	200.4	202.5	200.9	198.5	196.2	195.0	196.3	188.5	189.9	189.5	186.9	185.0	182.3
COMMERCIAL EQUIPMENT	3.26	258.7	259.9	263.7	264.3	264.2	259.8	260.6	262.9	256.1	256.4	257.8	253.1	248.9	245.1
TRANSIT EQUIPMENT	1.93	125.4	129.7	128.4	124.6	121.0	120.6	116.6	117.5	109.0	110.4	110.5	110.9	110.8	108.6
FARM EQUIPMENT	.67	112.0	114.9	118.0	111.8	102.1	104.6	101.7	98.9	88.4	95.1	84.9	83.5	87.5	
DEFENSE AND SPACE EQUIPMENT	7.51	102.7	101.7	102.6	102.8	103.0	104.5	105.3	107.0	105.2	106.5	107.0	106.9	107.6	108.0
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	141.9	143.4	144.3	144.0	139.7	135.2	130.1	127.0	124.2	127.5	125.6	122.9	122.4	121.5
BUSINESS SUPPLIES	6.47	166.7	166.2	168.0	169.5	169.4	167.5	167.1	164.6	162.4	165.1	164.6	164.0	162.7	
COMMERCIAL ENERGY PRODUCTS	1.14	176.4	177.7	180.0	176.6	174.2	174.3	177.0	177.3	181.7	184.1	184.5	185.0	180.8	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	149.1	152.4	153.6	154.3	150.4	145.6	141.0	134.0	129.7	132.4	130.7	127.8	126.4	125.8
DURABLE CONSUMER PARTS	4.58	114.5	123.1	123.2	121.8	114.5	107.6	102.8	92.9	86.9	92.2	94.1	94.7	98.7	102.9
EQUIPMENT PARTS	5.44	191.2	193.2	193.8	194.7	192.7	190.3	188.7	183.3	177.2	180.1	177.5	174.0	169.6	167.4
DURABLE MATERIALS NEC	10.34	142.3	143.9	145.9	147.4	144.1	138.9	132.9	126.1	123.6	125.1	122.2	118.2	116.0	114.1
BASIC METAL MATERIALS	5.57	112.0	112.8	114.5	117.4	113.1	106.5	101.6	94.8	94.5	94.3	88.6	82.0	78.3	
NONDURABLE GOODS MATERIALS	10.47	174.6	176.9	176.5	175.4	175.5	170.6	164.7	158.3	156.8	164.2	162.0	160.3	158.2	156.7
TEXTILE, PAPER, & CHEM MAT	7.62	181.4	183.7	183.5	182.4	182.5	176.4	169.9	161.9	159.1	167.9	166.6	164.3	162.3	160.5
TEXTILE MATERIALS	1.85	113.0	113.4	115.5	116.0	114.9	111.6	106.9	102.0	97.3	102.2	104.5	104.5	104.5	
PAPER MATERIALS	1.62	150.6	149.8	150.0	151.5	155.1	149.6	150.2	141.2	143.2	148.5	146.7	143.5	142.5	
CHEMICAL MATERIALS	4.15	224.0	228.4	227.1	224.1	223.4	215.9	205.8	196.8	193.0	204.9	202.2	199.3	195.9	
CONTAINERS, NONDURABLE	1.70	169.3	171.4	171.7	169.4	170.9	166.7	163.5	161.9	162.4	166.7	161.3	159.8	155.9	
NONDURABLE MATERIALS NEC	1.14	137.4	139.6	136.6	137.8	136.2	137.1	131.9	128.6	132.4	136.0	132.4	134.1	134.4	
ENERGY MATERIALS	8.48	129.0	129.3	133.3	132.6	128.9	128.3	128.1	127.4	130.9	130.3	128.2	126.1	125.8	125.0
PRIMARY ENERGY	4.65	115.0	113.7	120.3	120.9	117.4	116.4	115.6	115.9	119.2	119.5	119.2	117.6	117.0	
CONVERTED FUEL MATERIALS	3.82	145.9	148.2	149.2	146.9	142.9	142.8	143.4	141.4	145.1	143.4	139.1	136.4	136.6	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	131.8	133.9	135.2	134.5	131.1	128.8	125.9	120.1	117.0	120.1	118.9	119.4	119.1	119.9
ENERGY, TOTAL	12.23	137.4	138.0	141.2	140.5	136.8	136.9	137.2	136.7	139.5	138.9	137.6	136.9	136.4	135.6
PRODUCTS	3.76	156.4	157.6	159.1	158.4	154.8	156.1	157.8	157.7	158.8	158.4	158.8	161.3	160.3	
MATERIALS	8.48	129.0	129.3	133.3	132.6	128.9	128.3	128.1	127.4	130.9	130.3	128.2	126.1	125.8	125.0

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	1981	1981				1982									
	PRO- TION	1981 AVG.	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	
TOTAL INDEX	100.00	151.0	156.5	151.0	155.4	155.8	152.4	146.4	139.1	136.6	142.7	142.0	139.3	138.8	141.6	
PRODUCTS, TOTAL	60.71	150.6	156.0	151.5	156.0	157.6	153.8	147.4	140.7	137.7	143.6	143.0	140.8	140.7	144.9	
FINAL PRODUCTS	47.82	149.5	155.0	150.1	154.4	156.5	153.3	147.0	141.1	138.1	143.8	143.0	140.5	140.3	144.6	
CONSUMER GOODS	27.68	147.9	154.4	147.7	154.7	156.2	152.5	143.3	134.3	134.1	140.9	141.0	140.3	140.8	147.2	
EQUIPMENT	20.14	151.8	155.9	153.3	154.0	157.0	154.4	152.1	150.6	143.7	147.7	145.7	140.8	139.6	141.0	
INTERMEDIATE PRODUCTS	12.89	154.4	159.7	156.9	162.0	161.5	155.9	148.5	139.3	136.3	143.2	143.2	141.9	142.2	146.0	
MATERIALS	39.29	151.6	157.2	150.2	154.3	153.2	150.1	144.8	136.7	135.0	141.5	140.3	137.1	135.8	136.6	
CONSUMER GOODS																
DURABLE CONSUMER GOODS	7.89	140.5	153.6	134.8	137.4	142.4	145.0	131.7	116.7	115.4	127.9	131.6	134.2	135.8	140.9	
AUTOMOTIVE PRODUCTS	2.83	137.9	163.3	128.4	122.0	132.5	145.1	126.3	109.6	107.1	121.5	133.1	138.0	146.1	151.7	
AUTOS & UTILITY VEHICLES	2.03	111.2	147.7	100.5	84.9	97.2	115.5	94.5	74.9	69.9	85.5	104.7	112.6	123.9	131.2	
AUTOS, TOTAL	1.90	103.4	137.8	95.1	81.4	89.8	105.4	86.8	67.3	59.9	73.2	90.0	98.2	108.6	114.7	
AUTO PARTS & ALLIED GOODS	.80	205.6	202.8	199.4	216.2	221.9	220.1	207.0	197.7	201.6	212.9	205.4	202.4	202.6	203.7	
HOME GOODS	5.06	142.0	148.2	138.4	146.0	148.0	145.0	134.7	120.7	120.1	131.5	130.8	132.0	130.0	134.8	
APPLIANCES, AIR COND & TV	1.40	119.6	124.6	112.5	120.6	124.2	126.7	103.8	72.2	96.6	109.5	102.4	111.7	102.9	109.3	
APPLIANCES AND TV	1.33	121.2	125.4	114.2	125.3	128.7	130.6	106.0	73.3	96.8	109.2	100.2	109.9	102.2		
CARPETING AND FURNITURE	1.07	158.0	166.8	146.3	161.2	166.3	160.2	150.0	143.8	132.1	151.2	154.4	150.6	147.0		
MISC. HOME GOODS	2.59	147.4	153.3	149.3	153.5	153.3	148.6	145.1	137.5	127.8	135.4	136.5	135.4	137.7	143.1	
NONDURABLE CONSUMER GOODS	19.79	150.9	154.8	152.9	161.6	161.7	155.5	148.0	141.3	141.5	146.0	144.7	142.8	142.8	149.7	
CLOTHING	4.29	119.8	129.3	109.7	128.5	128.9	122.3	112.8	97.9							
CONSUMER STAPLES	15.50	159.5	161.9	164.8	170.8	170.7	164.7	157.7	153.3	153.9	155.8	154.1	152.3	153.1	159.8	
CONSUMER FOODS & TOBACCO	8.33	150.3	151.9	149.4	158.8	161.0	159.0	151.3	143.4	141.6	146.5	146.6	144.7			
NONFOOD STAPLES	7.17	170.0	173.4	182.6	184.6	182.0	171.2	165.3	164.8	168.1	166.6	162.7	161.2	160.7	170.2	
CONSUMER CHEMICAL PROD	2.63	223.1	234.5	242.8	240.4	245.9	232.1	219.4	208.2	203.7	207.0	208.4	209.6	213.6		
CONSUMER PAPER PRODUCTS	1.92	127.9	131.3	133.8	139.8	137.5	131.5	124.2	120.7	121.3	126.1	123.2	124.0	123.2		
CONSUMER ENERGY PROD	2.62	147.7	142.9	158.0	161.5	150.5	139.3	141.0	153.5	166.5	155.8	145.9	139.8	135.2		
RESIDENTIAL UTILITIES	1.45	166.3	158.7	186.9	187.8	169.7	152.4	149.9	170.2	202.0	187.4	169.8	158.5			
EQUIPMENT																
BUSINESS EQUIPMENT	12.63	181.1	187.5	184.1	184.9	189.2	184.5	179.8	175.7	166.7	172.2	168.5	161.5	158.7	159.9	
INDUSTRIAL EQUIPMENT	6.77	166.4	170.6	167.2	170.4	173.6	170.5	167.2	163.5	154.2	156.8	151.2	143.8	137.7	135.4	
BUILDING AND MINING EQUIP	1.44	286.2	288.5	286.1	293.9	301.1	302.2	299.7	300.6	282.9	276.3	254.8	238.1	221.1	209.2	
MANUFACTURING EQUIPMENT	3.85	127.9	132.3	128.9	131.5	132.8	127.8	124.7	119.4	114.0	118.7	117.0	112.6	108.8	108.5	
POWER EQUIPMENT	1.47	149.7	155.2	150.8	150.8	155.1	153.1	148.2	144.5	133.2	139.1	138.9	132.8	131.4	133.2	
COM'L, TRANSIT, FARM EQ	5.86	198.0	206.9	203.5	201.6	207.3	200.5	194.5	189.9	181.2	190.0	188.4	181.9	182.9	188.2	
COMMERCIAL EQUIPMENT	3.26	258.7	268.2	273.4	274.1	279.7	265.5	260.2	253.6	243.4	252.0	250.9	243.8	243.9	252.9	
TRANSIT EQUIPMENT	1.93	125.4	133.2	118.9	114.9	119.8	122.9	117.2	115.2	109.2	115.3	117.1	110.9	112.6	111.5	
FARM EQUIPMENT	.67	112.0	121.3	106.8	98.7	107.3	108.0	97.1	95.0	85.6	102.8	90.0	85.3	88.6		
DEFENSE AND SPACE EQUIPMENT	7.51	102.7	102.7	101.5	102.1	102.7	103.8	105.6	108.4	104.9	106.7	107.5	106.0	107.7	109.1	
INTERMEDIATE PRODUCTS																
CONSTRUCTION SUPPLIES	6.42	141.9	149.1	142.1	145.3	143.4	139.6	130.6	120.3	116.5	125.8	125.1	124.4	124.6	126.4	
BUSINESS SUPPLIES	6.47	166.7	170.2	171.5	178.7	179.5	172.2	166.3	158.0	155.9	160.4	161.2	159.2	159.7		
COMMERCIAL ENERGY PRODUCTS	1.14	176.4	181.6	195.3	196.1	187.2	173.9	166.9	171.4	182.8	180.8	176.9	171.4	170.1		
MATERIALS																
DURABLE GOODS MATERIALS	20.35	149.1	156.1	148.0	151.6	151.9	147.9	141.2	132.5	125.7	132.3	132.5	129.3	128.7	128.8	
DURABLE CONSUMER PARTS	4.58	114.5	124.6	116.2	116.7	115.0	109.8	104.5	94.4	85.6	92.6	95.4	95.8	100.6	104.1	
EQUIPMENT PARTS	5.44	191.2	194.7	188.1	191.8	194.5	192.7	190.5	186.9	175.5	179.9	177.9	172.8	170.5	168.7	
DURABLE MATERIALS NEC	10.34	142.3	149.8	141.0	145.9	145.8	141.2	131.5	120.8	117.3	124.8	125.0	121.2	119.2	118.6	
BASIC METAL MATERIALS	5.57	112.0	118.6	107.0	112.1	111.4	106.0	96.9	89.1	93.3	95.3	94.0	87.5	83.9		
NONDURABLE GOODS MATERIALS	10.47	174.6	181.5	169.2	175.6	175.8	174.2	166.1	151.7	153.3	166.5	165.1	162.4	159.3	160.8	
TEXTILE, PAPER, & CHEM MAT	7.62	181.4	189.1	176.7	182.7	182.7	177.8	170.9	155.6	155.4	170.3	169.9	167.2	163.7	165.3	
TEXTILE MATERIALS	1.85	113.0	119.8	100.7	120.4	118.4	117.9	107.6	94.4	93.7	103.2	104.6	106.0	107.8		
PAPER MATERIALS	1.62	150.6	155.4	140.7	153.0	150.9	150.8	150.1	128.3	142.4	153.7	155.1	147.7	146.0		
CHEMICAL MATERIALS	4.15	224.0	233.2	224.7	222.1	223.9	215.1	207.3	193.6	188.0	206.9	204.8	202.2	195.6		
CONTAINERS, NONDURABLE	1.70	169.3	178.5	166.5	174.7	173.9	174.6	159.7	143.8	155.2	170.4	166.5	162.7	158.4		
NONDURABLE MATERIALS NEC	1.14	137.4	135.2	123.7	130.2	132.7	149.1	143.7	137.6	136.6	134.9	131.1	129.9	131.0		
ENERGY MATERIALS	8.48	129.0	129.8	132.0	134.6	128.2	125.8	127.1	128.0	134.6	132.6	128.7	124.7	123.7	125.6	
PRIMARY ENERGY	4.65	115.0	115.2	116.0	121.0	117.8	115.9	116.1	115.2	118.1	120.3	120.3	118.9	118.2		
CONVERTED FUEL MATERIALS	3.82	145.9	147.5	151.2	151.0	140.8	137.8	140.5	143.4	154.5	148.2	139.2	131.7	130.4		
SUPPLEMENTARY GROUPS																
HOME GOODS AND CLOTHING	9.35	131.8	139.5	125.3	138.0	139.2	134.5	124.6	110.2	109.4	122.0	121.5	121.1	118.7	124.8	
ENERGY, TOTAL	12.23	137.4	137.4	143.4	146.1	138.5	133.2	133.8	137.5	145.9	142.1	136.8	132.3	130.5	135.1	
PRODUCTS	3.76	156.4	154.6	169.3	172.1	161.6	149.8	148.8	158.9	171.5	163.4	155.3	149.4	145.8		
MATERIALS	8.48	129.0	129.8	132.0	134.6	128.2	125.8	127.1	128.0	134.6	132.6	128.7	124.7	123.7	125.6	

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	1981	1981	1982											
		PRO- TION	POR- AVG.	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
MINING AND UTILITIES		12.05	155.0	156.3	159.1	158.2	155.8	156.1	155.4	154.7	157.4	155.6	153.1	151.3	148.9	146.2
MINING		6.36	142.2	141.7	146.5	146.0	145.0	145.3	143.3	142.6	144.5	142.4	138.1	133.6	130.2	126.7
UTILITIES		5.69	169.1	172.7	173.1	171.9	167.8	168.1	168.9	168.2	171.8	170.4	170.0	171.0	169.9	168.0
MANUFACTURING		87.95	150.4	152.4	153.2	153.2	151.1	148.0	145.0	142.0	138.5	140.9	140.1	138.7	138.2	137.3
NONDURABLE		35.97	164.8	165.8	167.1	167.3	165.9	162.8	160.3	157.4	155.1	157.8	157.3	156.2	155.3	154.6
DURABLE		51.98	140.5	143.2	143.6	143.4	140.9	137.8	134.4	131.3	127.1	129.3	128.2	126.6	126.4	125.3
MINING																
METAL MINING	10	5.1	123.1	123.5	123.6	124.1	121.5	119.8	115.4	110.9	121.3	120.8	109.9	104.0	96.8	
COAL	11,12	6.9	141.3	122.9	170.0	167.4	161.9	166.9	160.8	145.5	147.9	156.0	155.6	146.2	150.7	147.7
OIL AND GAS EXTRACTION	13	4.40	146.8	148.2	147.7	148.2	148.8	148.9	148.4	150.5	151.5	146.6	141.4	137.4	133.1	129.2
STONE AND EARTH MINERALS	14	7.5	129.4	132.7	133.3	128.2	123.4	122.0	116.7	115.7	115.8	120.5	121.6	119.6	116.9	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	152.1	151.3	151.6	151.9	150.7	151.4	153.0	152.8	151.1	151.7	150.8	149.4		
TOBACCO PRODUCTS	21	6.7	122.2	120.9	121.3	123.8	122.4	124.3	119.6	112.6	112.7	126.7	126.7	116.1		
TEXTILE MILL PRODUCTS	22	2.68	135.7	138.3	139.4	140.7	136.3	132.5	126.1	122.8	120.0	125.8	126.0	126.1	125.1	
APPAREL PRODUCTS	23	3.31	120.4	121.1	122.6	122.6	122.5	117.8	113.8	114.1						
PAPER AND PRODUCTS	26	3.21	155.0	153.4	154.9	156.7	158.6	153.3	152.6	146.6	148.3	151.5	150.6	149.7	146.8	144.8
PRINTING AND PUBLISHING	27	4.72	144.2	143.1	144.4	146.1	145.9	145.6	143.4	145.3	145.6	146.4	145.9	144.2	143.4	142.5
CHEMICALS AND PRODUCTS	28	7.74	125.6	128.4	221.5	219.2	216.3	208.8	204.6	199.8	196.7	201.3	200.3	198.5	195.0	
PETROLEUM PRODUCTS	29	1.79	129.7	129.3	128.7	130.4	129.1	128.3	128.0	128.3	123.3	119.5	121.3	121.6	123.7	124.7
RUBBER & PLASTICS PRODUCTS	30	2.24	174.0	185.1	285.3	286.7	282.2	276.0	264.1	247.3	244.7	251.8	253.4	255.1	253.9	
LEATHER AND PRODUCTS	31	8.6	69.3	68.4	70.1	69.6	69.7	71.2	70.8	65.6	63.1	64.0	61.2	59.6	62.0	
DURABLE MANUFACTURES																
ORDNANCE, PYT & GOVT	19,91	3.64	81.1	80.9	80.6	81.8	82.3	82.5	84.3	85.5	84.1	83.8	83.8	84.3	86.0	86.3
LUMBER AND PRODUCTS	24	1.64	119.1	122.5	122.9	119.1	113.2	109.6	104.7	104.8	99.2	104.9	103.5	103.6	108.3	
FURNITURE AND FIXTURES	25	1.37	157.2	162.4	164.9	163.3	159.9	157.2	153.7	149.4	144.3	148.4	150.2	151.3	150.9	
CLAY, GLASS, STONE PROD	32	2.74	147.9	148.1	148.7	148.2	147.3	143.4	135.9	131.5	128.5	135.0	131.5	127.0	126.8	
PRIMARY METALS	33	6.57	107.9	107.4	109.4	113.1	108.6	102.3	96.6	89.6	89.7	88.5	83.0	76.5	74.0	70.9
IRON AND STEEL	331,2	4.21	99.8	98.5	99.7	105.1	99.2	92.2	87.2	79.2	79.6	78.5	73.0	65.1	62.6	
FABRICATED METAL PROD	34	5.93	136.4	139.3	140.1	140.0	136.8	133.8	130.2	126.1	120.7	121.4	121.1	119.1	117.3	115.0
NONELECTRICAL MACHINERY	35	9.15	171.2	174.1	176.7	176.4	173.9	169.7	167.9	167.4	160.9	160.0	157.3	153.7	151.4	148.4
ELECTRICAL MACHINERY	36	8.05	178.4	180.1	180.9	182.6	180.0	179.6	175.7	170.7	168.2	172.9	172.6	172.0	170.9	170.1
TRANSPORTATION EQUIP	37	9.27	116.1	123.4	119.8	115.4	114.2	110.6	106.1	103.7	96.6	102.0	104.4	105.9	110.0	111.4
MOTOR VEHICLES & PTS	371	4.50	122.3	137.5	130.5	123.1	120.4	113.8	105.5	100.4	90.4	98.6	105.6	110.8	119.8	124.0
AEROSPACE & MISC	372-9	4.77	110.2	110.2	109.7	108.2	108.5	107.5	106.8	106.8	102.4	105.3	103.2	101.3	100.7	99.5
INSTRUMENTS	38	2.11	170.3	171.3	172.1	172.3	169.7	168.6	167.1	166.8	162.2	164.5	163.0	162.8	164.0	164.9
MISCELLANEOUS MPFS	39	1.51	154.7	158.8	159.4	158.6	154.2	151.5	151.7	147.9	144.9	144.5	145.3	144.6	143.6	142.4
UTILITIES																
ELECTRIC		3.88	190.9	195.6	196.2	194.2	188.3	189.4	190.9	190.2	195.2	192.5	191.7	193.1	191.6	189.1

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

	1981						1982					
	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
CHANGE FROM PREVIOUS MONTH												
TOTAL INDEX	.7	-.2	-1.3	-1.7	-1.9	-2.0	-1.9	1.6	-.8	-1.1	-.6	-.7
FINAL PRODUCTS	.5	-.4	-1.0	-.7	-1.1	-1.6	-2.4	.9	-.6	-.4	-.3	-.7
CONSUMER GOODS	.3	-.7	-1.2	-.9	-1.7	-1.4	-1.7	1.6	-.2	.5	.8	.1
DURABLE CONSUMER GOODS	-.9	-2.7	-1.5	-2.9	-4.8	-5.0	-2.5	4.8	1.7	2.0	2.2	1.7
NONDURABLE CONSUMER GOODS	.7	.1	-1.1	-.2	-.5	-.1	-1.4	.5	-.9	.0	.3	-.5
BUSINESS EQUIPMENT	.7	-.2	-.9	-1.2	-.8	.0	-3.8	-.3	-1.5	-2.4	-2.5	-2.7
INTERMEDIATE PRODUCTS	.8	.4	-1.4	-2.1	-1.8	-1.9	-1.7	2.0	-.8	-1.2	-.6	-.7
MATERIALS	.8	-.1	-1.7	-2.6	-2.6	-3.9	-1.3	2.3	-1.4	-1.7	-1.0	-.7
DURABLE GOODS MATERIALS	.8	.5	-2.5	-3.2	-3.2	-5.0	-3.2	2.1	-1.3	-2.2	-1.1	-.5
NONDURABLE GOODS MATERIALS	-.2	-.6	.1	-2.8	-3.5	-3.9	-.9	4.7	-1.3	-1.1	-1.3	-.9
MANUFACTURING	.5	.0	-1.4	-2.1	-2.0	-2.1	-2.5	1.7	-.6	-1.0	-.4	-.7
NONDURABLE	.8	.1	-.8	-1.9	-1.5	-1.8	-1.5	1.7	-.3	-.7	-.6	-.5
DURABLE	.3	-.1	-1.7	-2.2	-2.5	-2.3	-3.2	1.7	-.9	-1.2	-.2	-.9
MINING AND UTILITIES	1.8	-.6	-1.5	.2	-.4	-.5	1.7	-1.1	-1.6	-1.2	-1.6	-1.8
CHANGE FROM SAME MONTH A YEAR AGO												
TOTAL INDEX	9.7	8.0	5.0	1.7	-1.9	-4.7	-7.1	-5.9	-6.8	-7.7	-9.7	-9.5
FINAL PRODUCTS	6.8	5.7	4.1	2.2	-.1	-1.0	-3.4	-2.8	-3.8	-4.8	-5.9	-6.7
CONSUMER GOODS	6.1	4.7	2.3	.1	-2.8	-3.5	-5.0	-4.1	-4.6	-4.5	-4.9	-4.6
DURABLE CONSUMER GOODS	14.5	11.1	5.2	-1.9	-9.6	-12.8	-14.3	-10.8	-10.8	-9.4	-9.3	-8.1
NONDURABLE CONSUMER GOODS	3.1	2.6	1.3	.8	-.2	-.1	-1.5	-1.6	-2.2	-2.6	-3.2	-3.2
BUSINESS EQUIPMENT	9.0	7.8	7.0	5.0	2.9	1.1	-3.1	-3.3	-5.7	-8.9	-11.6	-14.8
INTERMEDIATE PRODUCTS	8.0	5.3	2.2	-.7	-3.1	-6.1	-9.0	-7.2	-7.6	-8.2	-8.6	-8.6
MATERIALS	13.9	11.8	7.0	1.8	-3.7	-8.7	-10.8	-9.0	-10.3	-11.0	-12.1	-13.1
DURABLE GOODS MATERIALS	19.1	17.5	12.3	4.4	-3.5	-9.1	-13.5	-12.1	-14.1	-15.8	-17.3	-17.5
NONDURABLE GOODS MATERIALS	12.3	8.7	2.5	-2.1	-5.9	-11.9	-13.0	-8.7	-8.7	-10.6	-11.6	-11.4
MANUFACTURING	10.0	8.5	5.0	1.0	-2.6	-5.6	-8.3	-6.8	-7.6	-8.8	-9.6	-9.9
NONDURABLE	8.1	6.2	3.0	.4	-1.7	-4.6	-6.3	-5.1	-4.8	-5.8	-6.7	-6.8
DURABLE	11.6	10.4	6.7	1.5	-3.4	-6.4	-9.9	-8.2	-9.8	-11.2	-11.9	-12.5
MINING AND UTILITIES	6.8	5.5	4.2	4.8	2.6	1.5	2.7	1.0	-1.1	.5	-2.1	-6.5

Table 2B

INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967 PRO- POR- TION	1981 AVG.	1981							1982					
				JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
MINING AND UTILITIES		12.05	155.0	155.6	161.4	164.1	156.8	152.5	152.0	155.2	164.3	159.7	152.7	146.4	142.4	145.5
MINING		6.36	142.2	142.8	143.0	146.9	146.4	147.7	144.8	141.9	141.6	141.3	138.1	134.0	131.0	127.9
UTILITIES		5.69	169.1	169.7	181.8	183.1	168.3	157.9	160.1	169.9	189.8	180.6	169.1	160.3	155.0	164.9
MANUFACTURING		87.95	150.4	156.6	149.5	154.3	155.5	152.4	145.6	137.0	133.1	140.7	140.7	138.4	138.5	140.9
NONDURABLE		35.97	164.8	170.5	163.9	172.2	173.4	169.3	161.0	149.4	147.1	156.6	156.6	154.8	154.9	159.0
DURABLE		51.98	140.5	147.0	139.5	142.0	143.1	140.7	134.9	128.4	123.4	129.7	129.7	127.0	127.1	128.5
MINING																
METAL MINING	10	.51	123.1	132.1	124.6	131.3	129.6	122.7	112.3	102.0	113.2	113.2	106.1	104.0	101.6	
COAL	11,12	.69	141.3	130.3	145.2	169.7	164.7	172.7	158.1	134.2	137.8	157.4	166.0	155.5	157.4	156.6
OIL AND GAS EXTRACTION	13	4.40	146.8	147.1	146.5	148.1	148.9	150.0	150.6	152.1	151.0	147.2	141.3	136.5	132.2	128.2
STONE AND EARTH MINERALS	14	.75	129.4	136.7	132.8	129.5	126.6	128.8	120.5	115.8	108.9	111.1	116.1	120.1	119.8	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	152.1	153.0	150.7	158.5	161.8	161.2	154.5	148.3	144.0	147.1	146.5	145.6		
TOBACCO PRODUCTS	21	.67	122.2	123.8	107.3	129.3	132.2	136.4	123.2	91.2	115.9	136.0	130.3	108.2		
TEXTILE MILL PRODUCTS	22	2.68	135.7	145.9	128.1	147.1	144.5	140.4	128.9	112.7	110.4	122.7	125.6	127.3	128.1	
APPAREL PRODUCTS	23	3.31	120.4	128.4	108.3	128.4	130.1	124.2	111.3	98.3						
PAPER AND PRODUCTS	26	3.21	155.0	159.4	145.0	157.4	156.9	157.3	151.7	131.8	146.3	157.7	158.9	153.1	149.2	150.5
PRINTING AND PUBLISHING	27	4.72	144.2	147.8	152.7	158.8	159.8	152.3	144.8	138.5	131.5	138.0	137.8	138.2	140.7	147.2
CHEMICALS AND PRODUCTS	28	7.74	125.6	122.0	223.5	221.8	222.6	212.6	203.9	191.8	188.1	198.4	199.1	198.6	197.0	
PETROLEUM PRODUCTS	29	1.79	129.7	131.9	131.6	135.4	132.0	128.3	131.3	130.8	120.5	116.1	116.2	116.9	121.7	127.2
RUBBER & PLASTICS PRODUCTS	30	2.24	127.4	128.0	268.4	280.4	285.0	284.0	267.6	240.9	234.5	264.9	261.9	257.3	252.8	
LEATHER AND PRODUCTS	31	.86	69.3	70.9	59.7	69.7	70.7	74.9	71.2	62.1	61.7	66.2	64.0	60.8	63.5	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	81.1	81.7	80.9	81.3	81.1	81.7	83.5	85.3	84.3	84.3	84.8	84.7	86.2	87.2
LUMBER AND PRODUCTS	24	1.64	119.1	126.8	119.4	122.7	117.2	114.8	103.6	96.4	93.2	105.2	104.9	104.6	108.8	
FURNITURE AND FIXTURES	25	1.37	157.2	162.9	148.0	164.0	165.5	159.2	155.7	149.7	142.1	156.6	153.2	151.2	146.2	
CLAY, GLASS, STONE PROD	32	2.74	147.9	155.8	149.8	154.4	151.8	149.1	138.0	125.2	117.7	127.3	127.1	128.0	129.1	
PRIMARY METALS																
IRON AND STEEL	33,1,2	6.57	107.9	113.1	102.3	109.0	106.2	100.4	91.9	83.4	87.7	89.8	88.7	82.2	79.0	74.7
FABRICATED METAL PROD	34	4.21	99.8	104.2	95.4	101.5	96.5	89.9	82.1	73.1	77.3	78.2	78.1	70.7	67.7	
NONELECTRICAL MACHINERY	35	5.93	136.4	140.6	136.2	139.9	138.8	136.0	131.4	124.8	117.1	123.3	122.5	118.5	117.1	116.1
ELECTRICAL MACHINERY	36	9.15	171.2	178.3	176.7	177.1	180.4	173.5	168.2	162.9	154.9	160.8	157.7	151.9	149.5	152.0
TRANSPORTATION EQUIP	37	8.05	178.4	182.4	175.4	181.1	184.5	185.1	178.1	170.1	165.3	173.6	172.5	170.5	170.1	172.2
MOTOR VEHICLES & PTS	371	9.27	116.1	128.7	112.3	107.6	111.9	114.4	108.0	101.9	95.2	102.9	108.0	108.8	113.3	116.0
AEROSPACE & MISC	372-9	4.50	122.3	146.9	118.1	109.0	114.9	121.3	108.3	95.2	88.9	100.5	111.7	116.4	125.7	132.2
INSTRUMENTS	38	4.77	110.2	111.5	106.7	106.4	109.0	107.8	107.7	108.3	101.1	105.0	104.4	101.7	101.6	100.7
MISCELLANEOUS MPFS	39	2.11	170.3	174.7	172.4	172.4	173.8	171.0	169.7	166.8	157.1	162.2	161.6	160.2	163.1	168.2
UTILITIES																
ELECTRIC		3.88	190.9	195.2	213.5	215.0	193.4	177.5	178.1	189.4	214.7	200.6	186.1	176.3	171.7	188.6

Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1981	1981	1982													
		PRO- TION	PRO- TION	AVG.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	
METAL MINING	101	.51																
IRON ORE	101,61	.24	104.4	96.8	100.2	106.7	109.9	108.6	108.8	82.4	86.0	117.3	102.5	87.4	87.4			
NONFERROUS ORES	102-5,8,9	.27	139.8	134.3	134.4	158.4	152.7	150.5	142.8	150.8	131.1	128.6	127.5	119.6	108.5	103.9		
COPPER ORE	1021	.14	173.5	166.1	170.3	207.8	196.4	189.7	177.0	191.1	157.2	154.9						
LEAD AND ZINC ORES	1031	.03	77.0	65.0	49.5	73.9	79.4	96.1	89.7	83.3	79.5	81.3						
ANTHRACITE	111	.03	49.2	25.2	52.3	58.3	47.7	35.6	49.9	62.5	50.7	54.2	61.2	53.9	55.4	51.7		
BITUMINOUS COAL	121	.66	145.0	75.8	122.7	174.1	179.5	151.7	158.8	156.3	152.0	169.7	169.0	168.8	156.4	148.4		
OIL AND GAS EXTRACTION	131	4.40																
CRUDE OIL & NATURAL GAS	1311	3.61	98.2	98.3	99.3	98.2	98.9	98.1	97.3	96.5	97.5	99.0	97.3	96.7	98.4	97.9		
CRUDE OIL, TOTAL		2.94	95.1	95.2	96.2	95.2	94.8	95.0	94.0	93.9	94.5	96.2	94.7	94.2	95.1	94.4		
ALASKA, CALIF. CRUDE		.31	249.9	251.0	257.3	251.6	246.0	248.5	245.6	246.8	252.8	262.4	264.9	263.7	270.3	269.4		
TEXAS CRUDE		1.07	84.5	84.6	84.8	85.0	84.9	84.5	83.5	82.9	82.4	83.5	83.1	82.7	82.7	82.6		
LA. AND OTHER CRUDE		1.57	72.1	72.1	72.6	71.6	72.0	72.3	71.7	71.6	72.0	72.6	69.3	69.0	69.4	68.2		
NATURAL GAS		.67	111.8	111.8	112.8	111.5	116.8	111.5	111.9	108.1	110.5	111.3	108.8	107.8				
NATURAL GAS LIQUIDS	1321	.30																
LP PROPANE		.04																
LP MATERIALS		.26																
OIL AND GAS DRILLING	1381	.50	523.4	528.4	527.8	531.1	534.5	538.1	544.6	546.5	554.3	550.7	531.1	493.2	453.6	414.9		
FOODS	201	8.75																
MEAT PRODUCTS	2011	1.17	123.7	128.3	121.9	124.4	119.0	120.7	120.2	118.7	126.7	120.5	119.6	119.4				
BEEF		.40	110.6	113.7	110.6	108.7	108.3	110.0	109.0	110.3	112.5	109.8	108.3	108.0				
PORK		.55	126.5	130.5	124.2	129.4	120.8	122.2	122.9	117.9	131.0	121.0	116.3	116.1				
MISC. MEATS		.22	140.3	149.0	136.6	140.0	133.5	136.1	133.8	135.9	141.6	138.2	147.9	147.7				
DAIRY PRODUCTS	2021	1.14	134.1	132.1	131.1	132.1	134.1	135.9	137.0	138.5	138.5	136.5	137.1	136.7				
BUTTER	20211	.04	100.6	97.8	90.6	88.7	108.1	109.5	106.1	108.9	101.9	108.0	106.0	106.7				
CHEESE	20221	.07	296.4	280.9	280.8	281.0	285.0	307.3	318.6	316.5	322.9	314.0	309.6	305.9				
CONCENTRATED MILK	20231	.12	64.5	58.6	55.8	59.1	68.6	70.5	72.5	78.5	75.7	68.8	68.8	68.2				
FROZEN DESSERTS	20241	.13	141.9	141.6	137.0	142.2	141.0	141.1	142.3	148.8	148.3	139.4	147.0	144.1				
CANNED AND FROZEN FOODS	2031	1.18	173.1	173.1	171.8	173.5	175.0	164.2	169.0	180.0	177.5	172.0	173.8	174.9	169.4	167.2		
GRAIN MILL PRODUCTS	2041	.95	162.8	164.7	164.8	161.6	160.9	168.3	160.5	158.8	156.2	160.4	162.6	160.9	160.9	158.0		
FLOUR & CORN MILL.	2041,61	.28	116.0	122.0	117.8	111.3	114.5	114.1	112.3	114.7	104.5	125.0	121.7	116.9	108.1	112.9		
BAKERY PRODUCTS	2051	1.15	128.5	129.4	129.0	128.1	129.1	127.5	130.0	128.0	126.6	123.1	124.4	122.6	121.4	121.8		
SUGAR	2061	.21	132.5	148.5	143.1	116.2	139.9	132.0	133.4	127.3	118.0	125.3	122.2					
CONFECTIONERY	2071	.41	92.8	83.5	85.7	94.8	89.5	89.5	106.3	92.3	96.6	90.2	99.2	96.7	94.7	93.9		
BEVERAGES	2081	1.58	196.7	199.3	193.0	194.6	194.0	195.2	196.1	199.3	200.1	200.6	210.3	199.8	195.6	195.0		
BEER AND ALE	2082,31	.52	166.9	179.6	163.9	161.2	168.1	164.9	160.7	169.9	165.8	180.6	181.4	177.8	164.9			
WINES AND BRANDY	20841	.07	272.2	262.1	286.7	297.1	283.3	281.1	299.0	270.6	244.6	261.8						
LIQUORS	20851	.24	130.1	126.8	130.3	147.7	132.2	139.7	132.0	128.3	129.7	113.0	127.9	118.7	123.7	122.9		
SOFT DRINKS	2086,71	.74	232.9	231.4	225.8	224.4	224.6	227.2	232.8	236.9	243.2	237.8	250.8	237.4	233.4	226.0		
MISC. FOOD PREPARATIONS	2091	.97	156.4	154.7	155.2	155.8	159.4	162.3	160.8	161.1	161.1	157.9	156.1	156.0	154.4	161.2		
FATS AND OILS	2091-4,61	.30	146.8	139.1	147.1	147.4	144.6	158.1	155.0	155.0	152.3	144.3	150.5	140.8	141.9	147.9		
COFFEE, MISC. FOOD	2095,7-91	.67	160.7	161.8	158.9	159.7	166.1	164.1	163.4	163.8	165.2	164.1	158.6	163.0	160.1			
TOBACCO PRODUCTS	211	.67																
CIGARETTES	2111	.54	127.4	126.1	117.1	131.9	135.8	130.9	128.7	122.0	112.1	117.1	129.2	136.4	114.2			
CIGARS	2121	.07	57.9	57.5	56.3	64.0	63.6	58.3	51.2	49.1	55.4	62.8	63.3	62.1	52.9			
TEXTILE MILL PRODUCTS	221	2.69																
FABRICS	221-41	1.05	102.7	103.1	107.2	122.4	110.0	109.3	104.1	95.5	90.7	79.4	85.9	86.8	89.4	90.2		
COTTON FABRICS	221,41	.60	66.1	67.7	65.9	73.5	67.7	66.8	68.6	62.2	54.4	58.4	60.2	59.2	63.5	61.4		
MAN-MADE FABRICS	2221	.30	198.9															
WOOL FABRICS	2231	.14	52.3															
KNIT GOODS	2251	.63	186.6	188.4	185.0	197.7	197.6	186.5	186.3	183.8	174.7	176.1	168.4	168.8	166.0	174.6		
HOSIERY	2251,21	.21	229.0	238.2	213.6	243.1	241.6	223.3	238.0	242.3	223.0	242.3	198.5	199.5	194.4			
KNIT GARMENTS	2253-91	.42	165.1	163.1	170.5	174.6	175.2	167.8	160.0	154.1	150.2	142.5	153.2	153.2	151.6	150.4		
FABRIC FINISHING	2261	.23	141.8	142.7	141.3	157.4	141.7	141.5	143.1	138.9	121.2	117.9	129.2	126.3	139.3	127.5		
CARPETING	2271	.20	186.2	207.5	201.6	186.3	184.3	184.2	164.9	159.2	158.7	165.5	180.6	200.8	180.9	176.9		
YARN & MISC. TEXTILES	228,91	.57	121.5	121.1	121.6	126.7	126.1	129.3	121.3	114.7	110.6	103.5	115.6	117.6	114.0	117.3		
APPAREL PRODUCTS	231	3.33																
MEN'S OUTERWEAR	231,21	1.06	114.5	113.6	110.9	118.4	120.8	121.1	113.9	123.1	118.0	94.8	101.9					
MEN'S SUITS AND COATS	2311	.34	107.2	111.2	112.8	120.1	113.0	114.4	110.9	103.5	102.7	75.2	88.9					
MEN'S FURNISHINGS	2321	.69	119.9	116.6	111.8	119.6	126.8	126.6	117.3	135.1	127.6	105.6	109.8					
WOMEN'S OUTERWEAR	2331	1.05	144.1	151.1	150.4	146.7	149.9	145.6	130.0	125.0	128.5	101.1						
MISC. APP. & ALLIED GDS	234-91	1.20	104.1	103.3	104.3	106.7	105.3	103.8	103.8	102.5	101.1	93.7	99.9	100.0				
LUMBER AND PRODUCTS	241	1.64																
LOGGING AND LUMBER	241,21	.82	94.2	102.7	96.3	94.6	98.9	87.0	87.5	82.7	78.8	75.6	80.5	79.9	74.3	84.9		
LUMBER	2421	.59	86.0	95.9	88.5	85.1	92.4	76.1	77.8	70.3	67.9	70.6	70.2	70.9				
LUMBER PRODUCTS	243,4,91	.82	143.8	148.2	150.5	150.9	140.0	140.6	133.4	127.4	126.6	121.2	128.8	128.8	131.4	134.2		
MILLWORK AND PLYWOOD	2431	.50	155.5	160.9	164.1	167.1	147.0	148.7	139.3	134.1	133.5	130.0	137.4	139.0	141.4			
PLYWD, PREFAB PROD	2432,31	.29	182.0	183.7	191.7	199.8	169.0	172.8	160.3	155.1	155.7	151.4	163.7	168.7				
FURNITURE AND FIXTURES	251	1.37																
HOUSEHOLD FURNITURE	2511	.87	151.7	153.1	157.9	160.3	154.2	153.1	150.5	144.9	142.0	133.2	140.3	143.0	140.9	142.1		
FIXTURES, OFF. FURN.	252,4,91	.42	177.5	176.3	182.0	191.0	189.2	183.9	174.6	178.7	174.0	173.1	179.3	175.1	179.6	170.7		

Table 4B

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1981	1981									1982				
		PRO- POR- TION	AVG.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	
METAL MINING	101	.51															
IRON ORE	101,6	.24	104.4	121.2	127.9	116.8	114.8	108.8	94.4	68.0	73.1	95.5	96.7	84.8	91.7		
NONFERROUS ORES	102-5,8,9	.27	139.8	140.3	135.9	131.6	146.1	148.1	147.9	151.8	127.9	129.0	131.5	125.1	115.0	108.1	
COPPER ORE	102	.14	173.5	176.6	172.9	162.1	186.6	185.3	186.0	192.6	150.6	155.5					
LEAD AND ZINC ORES	103	.03	77.0	64.2	50.2	66.7	76.8	94.7	90.5	82.2	77.3	78.7					
ANTHRACITE	11	.03	49.2	26.2	54.5	51.0	52.6	39.3	54.0	68.3	44.7	47.7	53.9	56.5	53.0	53.8	
BITUMINOUS COAL	12	.66	145.0	82.6	133.4	149.0	174.5	169.8	177.5	161.8	137.9	141.5	161.6	170.5	159.7	161.6	
OIL AND GAS EXTRACTION	13	4.40															
CRUDE OIL & NATURAL GAS	131	3.61	98.2	98.1	99.0	97.8	98.5	97.4	97.2	97.0	98.0	98.7	98.7	97.2	97.8	97.6	
CRUDE OIL, TOTAL	2.94	95.1	95.2	95.9	94.9	94.9	94.9	94.9	94.7	94.6	94.5	95.4	94.9	94.3	94.3	94.3	
ALASKA, CALIF. CRUDE	.31	249.9	245.5	250.4	250.6	251.4	252.2	251.2	253.0	253.8	262.7	264.4	262.4	262.7	263.5		
TEXAS CRUDE	1.07	84.5	84.7	84.7	84.7	84.6	84.2	83.8	83.1	82.6	82.6	83.2	83.2	82.9	82.7		
LA. AND OTHER CRUDE	1.57	72.1	73.1	73.5	71.5	71.5	71.6	71.6	71.5	71.6	71.7	69.9	69.1	69.2	69.2		
NATURAL GAS	.67	111.8	110.5	112.2	110.6	113.9	108.2	108.4	107.5	113.0	113.3	115.0	109.7				
NATURAL GAS LIQUIDS	132	.30															
LP PROPANE	.04																
LP MATERIALS	.26																
OIL AND GAS DRILLING	138	.50	523.4	509.4	519.4	524.7	538.2	548.9	559.8	566.2	573.1	558.4	523.7	480.4	435.5	400.0	
FOODS	20	8.75															
MEAT PRODUCTS	201	1.17	123.7	121.5	119.8	112.9	119.5	125.3	129.4	126.9	124.8	119.2	117.7	120.7			
BEEF	.40	110.6	107.2	110.6	104.0	111.1	112.6	114.8	112.1	108.8	112.8	111.7	107.4				
PORK	.55	126.5	123.2	115.5	107.3	113.8	123.9	131.1	132.5	133.5	121.2	117.1	124.3				
MISC. MEATS	.22	140.3	142.9	146.7	142.7	148.5	151.7	151.2	139.4	132.1	125.5	130.0	135.6				
DAIRY PRODUCTS	202	1.14	134.1	138.3	141.2	137.4	136.1	133.2	130.9	130.2	131.8	130.6	134.8	137.9			
BUTTER	.04	100.6	115.3	93.8	78.4	84.3	83.9	95.6	95.5	101.6	127.3	125.8	115.1				
CHEESE	.07	296.4	320.5	330.8	288.3	277.6	279.4	282.7	281.7	305.8	290.8	302.8	316.3				
CONCENTRATED MILK	.12	64.5	73.7	75.7	68.5	67.0	59.4	55.4	57.3	66.0	61.0	66.3	69.4				
FROZEN DESSERTS	.13	141.9	154.1	176.0	176.9	170.5	151.0	128.1	119.8	109.6	104.0	128.3	145.4				
CANNED AND FROZEN FOODS	203	1.18	173.1	163.9	168.9	172.3	187.3	192.8	196.6	185.6	164.0	154.6	161.3	162.0	156.4	158.3	
GRAIN MILL PRODUCTS	204	.95	162.8	157.3	161.4	159.9	167.2	173.3	169.7	162.9	157.8	158.6	161.3	157.0	153.2	150.9	
FLOUR & CORN MILL.	204,1,6	.28	116.0	118.1	113.2	107.5	119.4	116.5	119.0	115.2	102.8	121.0	124.7	116.3	108.2	109.3	
BAKERY PRODUCTS	205	1.15	128.5	124.2	132.9	139.0	141.1	140.3	135.4	126.4	121.9	115.4	115.3	114.2	114.5	116.9	
SUGAR	.21	132.5	129.0	125.8	91.5	116.6	121.7	169.8	174.6	155.3	145.3	108.0					
CONFECTIONERY	.41	92.8	71.7	72.7	65.8	104.6	127.2	124.4	97.5	84.6	80.4	112.2	97.2	83.5	80.7		
BEVERAGES	208	1.58	196.7	203.5	210.9	209.3	212.5	209.0	202.5	189.6	182.2	183.1	186.7	190.2	192.9	199.1	
BEER AND ALE	208,3	.52	166.9	198.6	191.9	185.9	186.4	161.9	147.4	141.0	137.8	159.8	168.5	174.6	181.5		
WINES AND BRANDY	.07	272.2	250.0	283.3	232.0	253.0	280.0	360.0	328.0	282.0	250.0						
LIQUORS	.24	130.1	122.4	138.3	119.1	125.9	147.6	159.6	144.5	127.9	105.1	115.5	123.5	120.7	118.7		
SOFT DRINKS	.74	232.9	229.3	241.6	253.1	255.6	256.0	241.6	226.5	222.5	219.0	216.7	216.5	218.9	224.0		
MISC. FOOD PREPARATIONS	209	.97	156.4	151.5	148.6	144.3	152.8	155.1	160.9	166.3	168.7	164.8	166.7	158.0	156.6	157.9	
FATS AND OILS	209,1-4,6	.30	146.8	132.3	138.4	126.4	130.2	143.9	159.7	165.7	166.1	156.1	165.6	150.3	140.6	140.8	
COFFEE, MISC. FOOD	209,5,7-9	.67	160.7	160.2	153.3	152.5	163.1	160.2	161.4	166.6	169.8	168.7	167.2	161.5	163.8		
TOBACCO PRODUCTS	21	.67															
CIGARETTES	211	.54	127.4	123.8	130.5	113.0	143.7	134.2	139.9	126.0	89.8	119.0	139.1	133.8	110.7		
CIGARS	.07	57.9	59.2	59.0	48.3	67.4	64.2	61.6	52.0	40.1	58.8	68.0	63.9	51.8			
TEXTILE MILL PRODUCTS	22	2.69															
FABRICS	221-8	1.05	102.7	107.6	109.9	99.3	110.7	107.6	106.5	97.0	85.7	82.5	89.8	90.2	90.8	94.2	
COTTON FABRICS	.60	66.1	69.8	67.3	60.9	67.9	65.5	71.0	63.7	50.6	59.8	63.0	62.4	64.8	63.3		
HAN-MADE FABRICS	.30	198.9															
WOOL FABRICS	.14	52.3															
KNIT GOODS	225	.63	186.6	190.2	204.2	195.6	213.4	203.6	191.1	180.1	154.0	151.1	163.1	165.0	170.4	176.3	
HOSIERY	225,1,2	.21	229.0	235.8	235.0	241.2	245.0	233.3	236.6	235.0	186.4	212.0	203.3	208.9	216.8		
KNIT GARMENTS	.42	165.1	167.1	188.6	172.5	197.4	188.6	168.0	152.3	137.6	120.2	142.7	142.7	146.8	154.1		
FABRIC FINISHING	226	.23	141.8	151.0	152.0	114.3	145.0	142.4	146.9	138.2	115.6	119.1	132.5	134.2	144.0	134.9	
CARPETING	.20	186.2	209.3	205.0	171.2	175.9	201.0	189.8	165.4	153.6	144.1	144.1	170.5	197.6	189.8	178.4	
YARN & MISC. TEXTILES	.57	121.5	125.6	124.9	110.0	131.5	128.5	127.0	114.3	101.6	103.8	117.9	118.8	118.4	121.7		
APPAREL PRODUCTS	23	3.33															
MEN'S OUTERWEAR	231,2	1.06	114.5	120.0	118.2	88.9	116.0	125.8	121.4	114.4	95.9	90.6	100.1				
MEN'S SUITS AND COATS	.34	107.2	115.5	115.6	79.5	111.6	124.7	122.1	102.7	87.4	73.6	87.2					
MEN'S FURNISHINGS	.69	119.9	124.2	121.5	94.4	120.1	128.7	123.2	122.1	101.2	100.0	107.8					
WOMEN'S OUTERWEAR	233	1.05	144.1	150.6	156.7	128.5	154.4	152.5	138.9	120.2	103.2	97.1					
MISC. APP. & ALLIED GDS	234-9	1.20	104.1	100.5	109.8	108.1	116.8	114.5	107.8	100.9	96.3	85.6	95.5	95.1			
LUMBER AND PRODUCTS	24	1.64															
LOGGING AND LUMBER	241,2	.82	94.2	102.0	100.3	96.2	102.9	92.9	94.2	80.0	71.3	69.2	79.8	77.1	76.0	84.2	
LUMBER	.59	86.0	96.7	90.2	82.7	93.2	80.4	82.9	66.8	58.8	66.1	72.5	71.6				
LUMBER PRODUCTS	243,4,9	.82	143.8	151.4	153.2	142.6	142.4	141.4	135.4	127.0	121.4	117.1	130.3	132.6	133.0	137.2	
MILLWORK AND PLYWOOD	243	.50	155.5	165.1	168.0	155.6	152.7	151.1	142.7	132.3	125.2	125.1	138.4	144.1	142.8		
PLYWD, PREFAB PROD	243,2,3	.29	182.0	191.2	194.9	177.6	175.3	174.6	164.9	152.0	141.6	146.8	168.7	179.5			
FURNITURE AND FIXTURES	25	1.37															
HOUSEHOLD FURNITURE	251	.87	151.7	149.3	158.2	140.7	157.9	158.5	153.5	146.5	141.6	131.0	148.1	144.6	141.7	138.6	
FIXTURES, OFF. FURN.	252,4,9	.42	177.5	172.2	181.6	176.9	185.0	188.7	179.0	182.3	172.6	172.1	187.6	178.8	178.7	166.8	

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1981	1981	1982										
		PRO- TION	FOR- TION	AVG.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
PAPER AND PRODUCTS	261	3.21													
PULP AND PAPER	261-31	1.38	148.7	148.3	147.2	149.3	149.7	157.5	145.5	148.0	139.9	142.1	147.8	146.7	138.5
WOOD PULP	2611	.50	141.3	142.4	138.6	139.4	142.9	150.9	140.4	140.4	130.9	130.8	141.6	142.0	133.2
PAPER	2621	.54	152.0	149.9	151.6	153.3	153.8	158.8	149.8	154.9	145.3	151.3	151.9	151.3	142.6
PAPERBOARD	2631	.34	154.4	154.6	152.9	157.7	153.2	165.1	146.3	148.4	144.8	144.2	150.4	146.5	139.8
CONVERTED PAPER PROD.	2641	.93	173.5	172.7	172.8	174.3	175.0	182.1	172.2	174.1	167.6	170.5	173.3	175.3	170.0
SANITARY PAPER PROD.	2647	.18	147.2	148.0	148.5	147.9	149.2	150.1	149.3	146.1	138.5				
PAPERBOARD CONTAINERS	2651	.84	150.4	144.4	148.8	153.7	152.2	150.7	146.9	140.9	140.6	149.4	145.2	145.9	141.7
BUILDING PAPER AND BOARD	2661	.06	82.1	86.9	88.7	91.8	78.4	77.3	66.0	64.0	57.1	65.2	62.2	61.8	
PRINTING AND PUBLISHING	271	4.72													
NEWSPAPERS	2711	1.38	108.1	106.6	105.0	109.8	109.7	109.1	108.5	106.4	108.5	105.1	109.0	107.2	104.6
PERIOD., BOOKS, CARDS	272, 3, 7	1.38	132.7	132.6	133.0	132.3	133.1	132.0	132.7	130.4	132.8	136.2	138.5	132.9	133.1
JOB PRINTING	274-6, 8, 9	1.96	178.1	172.0	175.2	177.5	181.1	179.6	180.5	181.3	181.7	181.3	183.0	184.0	180.8
CHEMICALS AND PRODUCTS	281	7.74													
CHEMICALS & SYM. MAT.	281-21	3.79	228.6	237.2	232.2	236.9	228.8	225.7	218.3	209.9	200.7	202.4	213.2	204.8	199.6
BASIC CHEMICALS	2811	2.54	186.8	195.0	189.5	191.1	185.9	184.0	177.7	173.5	169.4	172.5	176.4	168.3	162.4
ALKALIES & CHLORINE	2812	.14	114.7	119.8	121.7	115.1	113.0	112.7	104.4	100.0	99.6	104.4	107.8	102.3	105.2
GASES, ETC.	2813, 5, 6	.48	181.5	186.0	175.9	182.2	185.0	182.2	172.0	165.3	152.3	169.2	190.9	165.0	156.9
BASIC ORG. CHEM.	2818	1.18	236.7	250.0	239.4	240.1	240.3	233.4	228.9	225.0	222.3	219.0	214.6	211.5	208.2
INORG. CHEM. NEC	2819	.75	125.5	128.8	132.7	134.2	115.0	121.2	114.9	111.7	110.4	114.7	120.2	115.0	105.0
ACIDS & FERTILIZER MAT.	2821	.55	137.2	142.5	146.1	146.7	121.1	131.0	124.9	119.8	118.6	118.6	127.4	122.6	109.6
SULFURIC ACID, ETC.	2821	.41	128.4	136.2	138.3	138.9	113.3	121.8	115.9	110.7	109.3	114.2	119.1	114.4	101.5
FERTILIZER MATERIALS	2821	.14	162.8	160.8	168.8	169.4	143.4	157.9	150.8	146.2	145.4	146.1	151.6	146.1	133.0
ERDA NUCLEAR MATLS	2821	.15	85.0	82.1	88.2	93.5	91.6	86.1	77.5	79.9	77.6	85.0	94.0	85.3	83.1
SYNTHETIC MATERIALS	2821	1.25	313.7	323.0	319.2	330.1	316.1	310.5	301.0	284.2	264.4	263.2	288.1	279.2	275.4
PLASTICS MATERIALS	2821	.54	429.3	439.1	440.2	443.1	431.9	424.8	408.9	390.9	365.1	365.5	413.5	404.8	398.2
SYNTHETIC RUBBER	2822	.13	103.3	106.0	103.0	106.5	100.7	96.1	102.7	97.9	76.1	86.4	92.4	100.4	90.5
MAN-MADE FIBERS	2823, 4	.58	254.4	264.9	256.3	276.5	257.9	253.5	246.3	227.7	213.9	208.7	216.5	203.4	203.7
CHEMICAL PRODUCTS	283-7, 9	3.95	203.0	205.9	203.7	207.9	208.5	205.8	200.1	198.1	198.8	198.1	195.8	195.3	195.2
DRUGS AND MEDICINES	2831	1.34	267.1	271.4	264.4	275.0	273.2	267.1	265.3	264.9	272.1	269.0	263.6	264.7	264.3
SOAP AND TOILETRIES	2841	1.29	177.0	178.2	180.4	182.3	181.5	180.0	172.5	171.4	173.4	173.8	174.6	171.3	169.1
PAINTS	2851	.43	127.4	133.5	131.7	129.5	139.6	133.4	121.0	107.9	107.8	114.3	107.6	107.1	113.3
AGRICULTURAL CHEMICALS	2871	.33	241.4	239.2	241.1	248.1	250.0	256.7	239.5	243.8	223.5	221.7	216.7	223.6	220.9
PETROLEUM PRODUCTS	291	1.79													
PETROLEUM REFINING	291, 9	1.64	129.8	128.9	128.6	127.1	130.4	129.6	128.3	129.7	130.1	125.3	121.5	122.7	123.3
AUTOMOTIVE GASOLINE		.84	127.9	122.4	123.1	122.1	129.0	130.4	131.4	133.7	132.3	127.6	124.5	126.3	125.3
DISTILLATE FUEL OIL		.29	120.3	120.1	119.9	115.8	120.5	118.4	112.1	118.0	124.6	113.3	107.0	106.9	115.9
RESIDUAL FUEL OIL		.05	181.2	186.4	186.2	177.6	180.7	179.9	178.2	154.6	156.5	147.3	135.6	143.9	151.8
AVIATION FUEL & KEROS.		.17	96.8	106.0	100.2	103.5	97.1	88.0	90.4	93.8	96.6	91.7	97.6	105.9	101.6
MISC. PETROLEUM PROD.		.28													
REFINERY FUEL NEC		.06													
REFINERY NONFUEL MAT.		.14													
REFINERY PRODUCTS NEC		.08													
RUBBER & PLASTICS PROD.	301	2.24													
TIRES	3011	.60	142.1	156.8	152.0	191.4	160.4	148.4	143.5	133.7	107.3	120.8	133.2	138.1	133.2
RUB. PROD. EX. TIRES	302, 3, 6	.66	144.5	149.0	149.5	151.5	148.2	146.9	144.2	136.6	132.0	125.3	128.6	130.1	129.4
PLASTICS PRODUCTS NEC	307	.98	442.7	444.5	452.7	467.9	454.2	452.2	450.8	424.0	410.7	407.0	412.9	407.6	408.1
LEATHER AND PRODUCTS	311	.86													
PERS. LEATHER GDS.	313, 5-7, 9	.22	91.0	89.6	90.0	93.0	92.9	92.1	95.1	92.5	91.8	84.8	83.8	80.7	82.8
SHOES	314	.53	61.8	65.1	57.4	62.3	59.3	60.5	63.4	65.3	55.9	57.7	57.5	54.5	50.5
CLAY, GLASS, & ST. PROD.	321	2.74													
PRESSED AND BLOWN GLASS	3221	.49	161.5	162.6	165.7	166.6	161.6	163.8	157.6	153.9	149.9	151.4	161.8	153.2	152.0
GLASS CONTAINERS	3221	.28	143.5	145.9	149.9	145.6	143.7	144.8	143.3	135.2	131.2	134.3	148.0	140.0	140.5
CEMENT	3241	.27	102.2	98.4	96.1	100.6	96.3	100.6	93.5	102.7	105.5	93.7	91.2	93.4	87.5
STRUCTURAL CLAY PRODUCTS	3251	.20	94.7	97.6	98.6	99.8	92.7	94.2	90.5	84.2	82.9	74.9	75.3	74.6	72.5
BRICK	3251	.08	75.4	79.4	79.3	79.9	65.7	70.6	69.7	63.6	64.1	54.6	54.6	52.3	52.3
CONCRETE, MISC. CLAY HFR.	326-9	1.51	151.2	156.8	152.0	152.4	154.3	151.8	147.5	136.9	133.1	130.4	138.7	133.0	128.8
PRIMARY METALS	331	6.57													
IRON AND STEEL	331, 21	4.21													
BASIC STEEL & MILL PRD	3311	3.34	102.5	106.8	99.5	98.9	108.4	103.5	93.4	91.1	83.5	85.2	78.7	77.2	65.0
BASIC IRON AND STEEL		1.34	91.6	95.2	90.5	92.1	91.2	90.7	83.5	79.0	77.2	74.6	73.1	68.2	60.3
PIG IRON		.46	83.8	86.1	81.9	82.3	84.8	83.8	75.4	71.4	70.0	64.9	61.9	60.4	51.4
RAW STEEL		.72	102.5	106.7	102.0	105.0	102.0	102.3	93.2	88.7	86.9	82.3	81.1	75.9	68.6
COKE AND PRODUCTS		.16	64.7	69.0	63.4	62.1	60.7	57.7	62.7	56.9	53.7	67.6	68.6	55.9	48.3
STEEL MILL PRODUCTS		2.01	109.8	114.6	105.5	103.4	119.9	112.1	99.9	99.2	87.8	92.2	82.4	83.1	68.2
CONSUMER DUR. STEEL		.31	81.3	87.0	86.4	80.0	96.9	79.6	69.3	61.1	60.4	58.0	48.9	60.2	55.1
EQUIPMENT STEEL		.51	120.5	125.1	113.5	112.8	134.1	123.0	110.3	113.7	92.9	105.1	94.0	85.3	69.7
CONSTRUCTION STEEL		.41	71.6	72.7	63.2	64.2	73.8	72.4	61.6	62.5	55.3	64.5	54.9	55.3	42.7
CAN & CLOSURE STEEL		.13	66.9	63.6	58.0	59.1	73.8	70.9	60.2	67.3	71.6	56.3	74.9	58.6	50.3
MISC. STEEL		.65	147.8	156.3	144.5	140.9	158.2	152.3	138.6	135.5	120.5	123.1	108.2	115.0	92.9
IRON & STEEL FOUNDRIES	332	.87	89.1	95.2	86.3	91.7	93.9	84.7	83.5	79.8	69.9	73.6	71.5	68.2	63.4

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967											1982				
		PRO- PORTION	1981 AVG.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	
PAPER AND PRODUCTS	261	3.21															
PULP AND PAPER	261-31	1.38	148.7	153.6	153.4	138.0	151.6	150.2	148.6	148.0	123.9	141.0	153.4	153.0	145.3	143.7	
WOOD PULP	2611	.50	141.3	147.1	145.9	130.8	144.9	142.8	143.2	141.0	115.2	130.4	145.0	147.6	139.6		
PAPER	2621	.54	152.0	155.5	155.3	140.2	154.2	151.4	152.6	154.0	131.7	151.7	159.9	157.4	149.6	146.6	
PAPERBOARD	2631	.34	154.4	160.0	161.6	145.3	157.2	159.0	150.2	148.8	124.3	139.9	155.5	154.1	146.9	144.6	
CONVERTED PAPER PROD.	2641	.93	173.5	178.8	177.8	159.6	173.5	175.8	174.5	173.9	154.8	171.2	180.9	182.0	176.3	170.6	
SANITARY PAPER PROD.	26473	.18	147.2	147.6	150.0	138.4	149.6	143.8	155.1	146.7	131.2						
PAPERBOARD CONTAINERS	2651	.84	150.4	148.5	153.6	144.4	154.4	154.9	157.3	139.4	125.4	136.3	149.8	149.6	146.4	140.4	
BUILDING PAPER AND BOARD	2661	.06	82.1	91.5	92.6	85.7	83.3	75.3	68.5	63.7	49.4	57.7	64.2	65.3			
PRINTING AND PUBLISHING	271	4.72															
NEWSPAPERS	2711	1.38	108.1	111.2	105.7	99.3	102.7	108.8	115.4	116.4	111.0	96.5	105.6	107.5	109.0	108.0	
PERIOD., BOOKS, CARDS	272, 3, 71	1.38	132.7	127.4	137.1	142.0	148.9	146.5	136.7	127.7	124.7	124.4	130.3	126.0	127.0	126.3	
JOB PRINTING	274-6, 8, 91	1.96	178.1	165.8	185.0	197.7	207.9	204.9	189.3	176.9	167.5	161.2	166.2	167.4	166.5	173.7	
CHEMICALS AND PRODUCTS	281	7.74															
CHEMICALS & SYN. MAT.	281, 21	3.79	228.6	240.7	238.1	230.0	226.5	228.1	218.6	210.4	196.5	193.0	211.4	209.5	206.1	199.0	
BASIC CHEMICALS	2811	2.54	186.8	195.9	190.8	188.1	186.0	186.1	179.9	175.0	170.0	166.1	171.4	169.2	166.1	160.7	
ALKALIES & CHLORINE	28121	.14	114.7	121.5	123.6	113.7	111.2	112.6	105.8	100.7	98.2	96.9	109.8	102.8	109.4	102.0	
GASES, ETC.	2813, 5, 61	.48	181.5	192.3	183.8	180.2	181.0	180.4	167.2	162.4	151.8	157.2	187.4	170.2	167.7		
BASIC ORG. CHEM.	28181	1.18	236.7	248.0	239.9	240.3	243.9	239.2	233.7	228.2	221.9	214.6	206.2	209.2	207.8	200.0	
INORG. CHEM. NEC	28191	.75	125.5	130.6	131.1	125.4	112.6	120.3	117.5	113.5	113.7	108.9	118.3	118.2	110.3	104.2	
ACIDS & FERTILIZER MAT.		.55	137.2	144.0	145.7	136.4	119.2	130.3	125.6	120.9	120.5	114.6	128.9	126.7	116.8	107.8	
SULFURIC ACID, ETC.		.41	128.4	135.1	138.4	128.9	112.3	122.5	116.7	111.7	111.4	107.7	121.8	117.3	106.6	97.2	
FERTILIZER MATERIALS		.14	162.8	169.8	166.8	158.2	139.0	152.7	151.4	147.7	147.0	134.4	149.6	154.0	146.2	138.6	
BRDA NUCLEAR MATLS		.15	85.0	85.9	82.3	87.9	86.9	84.3	87.0	84.5	86.7	84.7	78.6	86.8	83.8	86.1	
SYNTHETIC MATERIALS	2821	1.25	313.7	331.8	334.5	315.3	309.1	313.6	297.6	282.7	250.5	247.7	292.8	291.7	287.5	276.9	
PLASTICS MATERIALS	28211	.54	429.3	455.7	463.9	426.9	424.7	431.6	411.1	384.3	339.9	335.0	413.8	424.8	420.0		
SYNTHETIC RUBBER	28221	.13	103.3	106.6	99.0	97.8	96.8	96.0	103.3	98.7	76.0	85.1	97.8	103.2	97.0		
MAN-MADE FIBERS	2823, 41	.58	254.4	268.4	268.2	261.5	250.4	253.8	236.6	230.4	207.5	203.8	225.0	211.2	208.0	196.7	
CHEMICAL PRODUCTS	283-7, 91	3.95	203.0	205.2	214.3	217.3	217.2	217.4	206.8	197.5	187.3	184.7	185.9	189.1	191.5	195.1	
DRUGS AND MEDICINES	2831	1.34	267.1	266.0	285.3	297.8	291.5	291.4	277.8	264.4	251.4	245.1	243.8	247.2	254.0	259.0	
SOAP AND TOILETRIES	2841	1.29	177.0	174.1	181.8	188.0	187.5	191.3	180.4	172.8	167.3	164.9	168.8	168.2	163.5	166.6	
PAINTS	2851	.43	127.4	150.4	156.4	135.2	147.4	130.3	116.3	97.9	83.3	96.6	105.6	112.4	123.4	137.5	
AGRICULTURAL CHEMICALS	2871	.33	241.4	246.6	241.1	240.9	245.0	250.3	239.7	243.1	224.8	219.3	211.9	230.1	230.2	222.5	
PETROLEUM PRODUCTS	291	1.79															
PETROLEUM REFINING	291, 91	1.64	129.8	126.9	130.7	130.3	134.3	131.5	127.2	130.9	132.4	123.3	118.9	118.8	118.9	123.4	
AUTOMOTIVE GASOLINE		.84	127.9	121.4	127.0	126.9	134.0	132.0	128.0	134.5	136.0	125.8	119.9	121.6	121.0	127.4	
DISTILLATE FUEL OIL		.29	120.3	113.7	118.0	114.3	121.2	117.6	113.9	122.0	129.3	118.7	111.0	104.1	107.9	121.1	
RESIDUAL FUEL OIL		.05	181.2	178.2	175.0	167.3	170.9	172.2	164.8	153.8	170.9	167.5	150.3	148.2	147.1	147.1	
AVIATION FUEL & KEROS.		.17	96.8	101.7	98.3	102.2	98.4	91.6	90.6	93.9	97.6	90.2	100.4	106.5	99.7	86.0	
MISC. PETROLEUM PROD.		.28															
REFINERY FUEL NEC		.06															
REFINERY NONFUEL MAT.		.14															
REFINERY PRODUCTS NEC		.08															
RUBBER & PLASTICS PROD.	301	2.24															
TIRES	3011	.60	142.1	145.8	144.2	124.6	140.0	146.6	152.8	135.2	106.8	131.2	157.1	153.5	142.7	142.5	
RUB. PROD. EX. TIRES	302, 3, 61	.66	144.5	147.6	151.6	141.9	147.5	149.6	146.4	141.1	133.4	121.9	130.4	131.1	130.0	129.3	
PLASTICS PRODUCTS NEC	3071	.98	442.7	450.0	464.1	442.3	456.6	461.6	457.7	434.4	395.8	376.2	422.2	417.1	413.8	401.8	
LEATHER AND PRODUCTS	311	.86															
PERS. LEATHER GDS.	313, 5-7, 91	.22	91.0	89.9	93.8	87.5	94.8	93.5	98.9	96.8	91.7	79.0	82.4	81.0	80.4	83.4	
SHOES	3141	.53	61.8	65.8	60.1	51.0	60.6	62.5	67.0	62.8	50.5	55.4	61.3	58.1	53.0	58.3	
CLAY, GLASS, & ST. PROD.	321	2.74															
PRESSED AND BLOWN GLASS	3221	.49	161.5	165.5	173.7	165.5	169.9	163.4	166.5	151.8	132.8	142.3	159.7	156.3	153.9	150.3	
GLASS CONTAINERS	32211	.28	143.5	148.2	160.4	145.9	154.8	140.9	154.0	129.5	104.7	128.4	151.7	144.5	142.6	140.3	
CEMENT	3241	.27	102.2	111.7	121.9	119.4	122.5	119.4	113.7	98.8	72.2	49.5	62.0	79.1	90.3		
STRUCTURAL CLAY PRODUCTS	3251	.20	94.7	99.3	103.1	99.1	95.8	96.4	92.7	86.6	81.7	71.1	71.0	71.9	72.5	71.3	
BRICK	32511	.08	75.4	84.2	88.3	82.7	74.2	75.5	73.4	65.6	58.3	42.9	45.8	50.1	53.1	56.0	
CONCRETE, MISC. CLAY MFR.	326-91	1.51	151.2	157.3	155.7	151.7	156.3	154.9	152.2	141.5	131.8	123.5	133.0	129.6	129.3	125.9	
PRIMARY METALS	331	6.57															
IRON AND STEEL	331, 21	4.21															
BASIC STEEL & MILL PRD	3311	3.34	102.5	118.4	106.7	99.0	105.1	99.5	90.6	83.5	76.6	80.3	79.1	79.3	71.3	68.2	
BASIC IRON AND STEEL		1.34	91.6	102.0	96.6	90.8	89.6	88.8	80.8	74.4	70.5	71.3	73.5	71.8	64.7	58.6	
PIG IRON		.46	83.8	93.2	88.9	84.2	84.1	81.7	72.8	66.4	63.8	60.3	62.0	62.1	55.1	52.4	
RAW STEEL		.72	102.5	114.5	108.1	101.1	99.7	100.3	89.9	83.2	78.4	79.7	82.2	81.6	74.2	65.4	
COKE AND PRODUCTS		.16	64.7	70.4	66.7	63.3	59.3	57.0	62.6	57.6	53.6	64.5	66.6	55.5	49.4	45.7	
STEEL MILL PRODUCTS		2.01	109.8	129.3	113.5	104.4	115.5	106.6	97.2	89.6	80.7	86.2	82.8	84.2	75.8	74.5	
CONSUMER DUR. STEEL		.31	81.3	100.6	88.8	77.7	89.8	77.0	69.0	57.4	50.0	57.8	52.9	60.9	60.8	65.9	
EQUIPMENT STEEL		.51	120.5	139.4	117.0	108.9	127.4	117.6	109.1	104.4	87.5	100.8	96.4	88.6	77.6	68.3	
CONSTRUCTION STEEL		.41	71.6	82.0	72.7	71.5	74.6	70.5	60.1	55.6	50.6	51.9	51.6	53.3	48.4	50.6	
CAN & CLOSURE STEEL		.13	66.9	66.5	63.6	64.9	72.3	64.4	54.1	53.3	65.4	67.2	80.7	59.5	49.2	56.6	
MISC. STEEL		.65	147.8	177.9	158.4	142.4	153.1	143.5	133.5	122.2	112.1	113.9	106.5	116.5	104.1	102.2	
IRON & STEEL FOUNDRIES	3321	.87	89.1	101.9	94.6	81.5	87.5	84.8	87.0	76.5	59.7	70.8	75.0	73.3	68.0	66.0	

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PRO- POR- TION	1981 AVG.	1981 MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	1982				
												JAN.	FEB.	MAR.	APR.	MAY
NONFERROUS METALS 333-6,9		2.36	122.4	121.6	123.1	131.8	128.8	125.0	119.3	112.8	108.0	108.9	106.7	100.7	96.0	93.5
PRIMARY NONF. METALS 3331		.45	131.9	132.7	134.5	139.5	134.5	131.8	128.7	118.0	117.1	111.3	113.5	108.8	103.4	101.0
COPPER 33311		.09	135.6	125.3	150.2	165.9	140.8	143.9	134.5	128.0	140.3	117.6	129.2	113.1	106.2	88.8
ALUMINUM 3334		.27	151.4	160.0	157.5	155.0	152.0	147.2	141.2	132.7	128.5	124.3	124.1	123.3	119.6	116.3
SECONDARY NONF. METALS 334		.09	140.5	135.1	139.3	154.4	148.8	155.1	138.7	147.2	141.6	133.5	121.6	125.9		
NONFERROUS PRODUCTS 335,6		1.45	124.0	123.1	124.8	133.4	132.2	127.4	121.0	112.1	105.8	111.0	106.3	98.6	94.4	92.8
NONFERROUS MILL PROD 3351		1.09	138.9	136.4	139.1	149.7	147.4	143.0	136.5	126.1	120.0	126.0	120.1	110.0	104.1	100.6
COPPER MILL PROD		.48	115.7	111.0	112.5	135.4	131.6	121.1	118.2	106.2	102.4	104.6	86.9	77.2	73.2	71.6
ALUMINUM MILL PROD		.61	157.1	156.3	159.9	161.0	159.7	160.2	151.0	141.7	133.9	142.7	146.2	135.7	128.3	123.3
CONSTRUCTION		.13	166.6	164.6	161.9	175.6	161.2	169.6	162.5	156.4	141.6	158.1	165.3	139.3	141.7	141.0
NONCONSTRUCTION		.48	154.4	154.1	159.4	157.0	159.3	157.6	147.8	137.7	131.7	138.6	141.0	134.8	124.7	118.5
NONFERROUS FOUNDRIES 336		.35	77.6	81.7	80.3	82.3	85.2	78.9	72.6	68.4	61.4	64.3	63.2	63.0	64.4	68.4
FABRICATED METAL PRODUCTS 34		5.93														
METAL CANS 341		.38	128.4	131.7	130.1	124.8	126.8	124.6	126.9	128.0	124.6	120.8	121.1	125.9	122.5	116.3
HDWE, PLUMB, STRUCT, MET 342-4		2.67	144.7	146.1	145.8	148.1	148.9	143.7	141.7	138.0	136.4	134.5	133.0	131.0	128.7	125.5
HARDWARE, TOOLS, CUTL 3421		.76	131.5	132.4	136.9	137.9	136.6	130.9	127.5	125.2	120.8	117.3	113.4	114.3	111.7	111.7
STRUCTURAL METAL PROD 344		1.62	154.0	154.7	152.1	155.9	156.2	152.5	152.4	147.6	148.0	147.0	145.7	142.0	139.8	134.6
OTHER FAB. MET. PROD. 345-9		2.89	129.8	132.7	134.1	135.7	136.1	131.8	127.6	122.2	116.4	109.9	110.7	110.5	109.0	108.2
FASTENERS, STAMP, ETC 345-8		2.03	114.7	118.3	119.1	121.6	121.0	116.9	112.1	106.2	100.1	94.5	95.4	96.5	95.1	95.3
Nonelectrical Machinery 35		9.15														
ENGINE AND FARM EQUIP. 351,2		1.20	148.8	152.3	152.1	157.8	147.6	145.4	145.8	142.7	138.3	126.8	132.9	123.3	119.9	123.9
FARM TRACTORS		.19	78.4	75.5	82.6	99.8	57.3	71.7	83.2	78.4	82.5	52.0	71.3	59.7	55.8	61.0
CONSTRUCTION & ALLIED EQ 353		1.36	157.0	158.2	160.6	160.5	164.4	156.3	157.3	152.1	153.5	146.9	141.6	137.6	133.5	127.9
TRACKLAYING TRACTORS		.16	80.1	79.4	82.9	70.8	87.2	86.4	81.5	86.2	77.8	48.7	69.0	60.5	54.7	51.9
METALWORKING MACHINERY 354		1.67	124.2	125.6	128.0	130.6	129.5	126.1	119.1	118.1	115.6	114.7	115.8	117.0	112.5	108.9
SPEC. & GENL IND EQ 355,6		2.30	126.6	126.8	127.6	127.3	128.2	125.3	125.5	123.4	120.9	114.8	114.1	112.3	108.5	106.0
OFFICE, SERV. & MISC. 357-9		2.63	258.2	260.8	260.0	264.3	263.3	264.1	257.0	257.7	262.7	258.5	256.0	260.3	246.8	245.3
ELECTRICAL MACHINERY 36		8.05														
MAJOR ELECT. EQ. & PTS. 361,2		1.74	146.6	151.4	149.9	150.4	148.1	148.8	145.0	143.7	139.0	129.4	130.8	131.5	121.0	117.2
HOUSEHOLD APPLIANCES 363		.83	137.5	140.4	137.2	146.7	152.5	140.0	134.1	114.7	93.4	112.0	117.7	108.9	117.6	112.2
COOKING STOVES 3631		.08	121.7	125.1	110.1	137.4	132.7	114.1	109.8	96.6	68.2	90.4	104.5	76.6	103.6	92.0
REFRIGERATION APPL. 3632		.26	116.3	120.2	117.6	130.8	136.6	113.5	116.0	85.4	48.5	86.0	90.7	84.4	93.3	82.7
LAUNDRY APPLIANCES 3633		.13	123.6	115.4	128.3	137.0	127.5	137.4	125.2	106.4	65.2	109.9	116.8	106.7	109.8	110.4
MISC. APPLIANCES 3634-6,9		.36	162.1	168.2	161.3	164.3	178.1	166.3	156.3	143.5	142.8	136.8	140.8	135.1	141.6	139.3
TV AND RADIO SETS 365		.52	94.7	89.9	94.4	103.5	93.8	91.4	90.5	92.5	73.6	80.6	85.2	77.1	87.6	76.4
COMMUNICATION EQUIPMENT 366		2.30	161.5	161.3	161.3	165.0	163.5	161.6	163.1	161.1	165.3	162.7	167.1	169.2	168.7	168.2
ELECTRONIC COMPONENTS 367		1.43	311.7	313.0	309.9	313.5	313.7	312.7	314.8	314.0	314.4	308.1	321.8	321.6	319.4	316.4
TV TUBES 3671-3		.31	37.8	33.3	32.3	48.7	40.6	31.6	37.2	39.5	33.5	34.4				
MISC. ELECTRICAL SUPP. 369		.49	183.2	191.9	186.8	190.0	193.2	187.1	190.1	177.7	163.5	165.1	173.7	175.2	178.4	182.9
STORAGE BATTERY, REPL. 3691		.09	224.7	252.9	227.9	239.9	264.3	239.6	240.0	207.3	200.2	217.7	232.5	227.9	245.6	264.6
TRANSPORTATION EQUIPMENT 37		9.27														
MOTOR VEHICLES AND PARTS 371		4.50														
AUTOS, TOTAL		1.90	103.4	120.0	122.2	118.1	104.0	103.3	92.5	81.1	78.1	61.3	70.5	79.8	87.2	96.1
LARGE AUTOS		1.79	54.5	63.1	60.0	50.4	44.5	59.8	49.8	48.1	48.6	42.0	50.6	48.9	54.3	60.2
SMALL AUTOS		.11	908.3	1055.7	1144.1	1230.6	1082.0	819.2	793.5	622.4	564.1	378.7	398.8	587.1	628.5	686.5
TRUCKS AND BUSES		.53	121.0	141.3	144.7	117.3	102.4	107.0	122.3	107.8	112.1	109.9	121.8	141.9	145.9	167.0
BUSINESS VEHICLES		.40	86.9	101.6	104.6	91.4	82.0	73.8	84.8	76.3	75.5	72.9	79.9	91.5	96.5	
UTILITY VEHICLES		.13	223.1	260.4	264.5	194.7	163.4	206.4	234.5	202.1	221.6	220.7	247.0	292.7	293.6	
TRUCK TRAILERS		.09	151.3	160.2	158.3	137.5	154.3	157.4	165.1	154.6	148.0	128.5	121.0	126.7	116.1	124.4
MOTOR VEHICLE PARTS		1.98	139.5	149.8	149.4	145.6	145.6	138.6	129.7	126.1	116.6	111.6	118.5	119.9	123.8	129.9
AIRCRAFT AND PARTS 372		3.73	105.0	105.6	104.8	103.9	103.8	104.6	104.1	103.2	103.6	99.8	102.1	101.1	99.1	97.7
SHIPS AND BOATS 373		.56	145.8	148.1	142.1	143.8	149.3	146.2	141.1	140.8	138.2	127.2	134.0	132.1	129.0	128.7
RAIL & MISC TRANS EQ 374,5,9		.49	108.9	116.7	115.7	116.7	101.9	102.0	97.4	91.3	94.5	95.2	93.1	90.5	84.4	90.6
RAILROAD EQUIPMENT 374		.26	76.5	84.0	90.9	84.0	59.1	63.4	63.6	51.5	56.8	54.8	49.4	46.3	39.0	49.8
MOBILE HOMES 379		.18	110.0	118.6	107.4	115.6	113.1	107.4	97.8	99.4	102.2	105.7	116.2	113.7	106.6	
INSTRUMENTS 38		2.11														
EQUIPMENT INSTR. & PTS. 381-4		1.07	187.9	187.0	187.0	190.7	190.6	189.1	187.6	185.9	186.5	180.8	184.2	181.3	179.3	180.2
CONSUMER INSTR. PROD. 385-7		1.04	152.0	153.6	153.2	154.0	150.7	149.0	148.9	147.5	145.9	144.9	145.8	146.4	146.4	147.2
MISC. MANUFACTURES 39		1.51														
MISC. CONS. GOODS 391,3,4,6		.86	161.4	164.5	165.5	172.9	165.5	156.9	156.6	157.3	150.8	149.7	146.9	152.2	147.9	147.8
MISC. BUS. SUPPLIES 395,9		.65	146.7	145.2	148.7	150.7	151.3	149.7	145.0	144.5	141.5	140.1	139.3	139.7	135.7	134.0
ELECTRIC UTILITIES 398		3.88	190.9													
ELEC UTIL GENERATION		1.90	185.7	187.7	191.2	189.9	189.8	183.6	184.0	185.4	183.1	189.5	184.8	182.7	182.5	
FOSSIL FUEL GENERATION		1.54	174.9	178.1	179.6	178.2	175.3	169.5	174.6	173.8	168.6	175.5	169.7	165.5	164.5	
HYDRO & NUCLEAR GENERAT.		.36	232.1	229.5	241.2	240.1	252.0	244.2	224.2	235.4	245.6	249.9	249.7	256.6	260.2	
ELEC UTIL SALES		1.98	196.0	197.9	199.8	202.2	198.4	192.8	194.5	196.1	197.0	200.7	199.9	200.4		
RESIDENTIAL KWH		.83	207.7	212.1	214.4	217.8	212.4	200.2	207.4	209.6	209.8	216.9	216.1	214.4		
NONRESIDENTIAL KWH		1.15	187.6	187.7	189.4	191.0	188.5	187.4	185.3	186.4	187.8	189.1	188.4	190.4		
SIC KWH		.47	150.0	149.5	152.6	154.3	152.4	149.2	145.0	143.9	142.7	139.4	136.0	135.1		
COMMERCIAL & OTHER KWH		.65	212.8	212.7	214.3	216.4	213.1	213.2	212.4	214.9	218.6	223.1	223.3	227.2		
GAS UTILITIES 399		1.81														
GAS TRANSMISSION		.65														
GAS SALES		1.17														
RESIDENTIAL GAS		.62														
INDUSTRIAL GAS		.35														
COM'L & OTHER GAS		.20														

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1981	1981	1982											
		PRO- TION	PRO- AVG.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY
NONFERROUS METALS 333-6,9		2.36	122.4	129.4	128.9	114.6	122.5	123.5	119.0	109.4	101.8	106.3	110.4	107.6	102.7	99.2
PRIMARY NONF. METALS 333		.45	131.9	134.1	132.5	128.7	129.2	129.2	126.7	120.7	119.5	113.9	115.8	109.5	105.6	102.0
COPPER 3331		.09	135.6	135.6	147.8	126.3	126.3	139.1	137.3	132.7	141.4	117.9	135.2	121.7	116.6	96.3
ALUMINUM 3334		.27	151.4	159.0	156.2	153.3	149.9	146.3	142.5	135.6	131.2	126.3	124.2	121.1	118.6	115.6
SECONDARY NONF. METALS 334		.09	140.5	138.6	147.0	128.0	146.1	153.8	142.6	149.6	129.5	127.9	131.0	134.4		
NONFERROUS PRODUCTS 335,6		1.45	124.0	134.7	133.7	115.3	124.8	125.1	119.0	104.4	95.5	106.6	110.4	108.2	104.2	101.2
NONFERROUS MILL PROD 335		1.09	138.9	150.6	149.3	131.3	139.3	140.1	132.9	116.4	108.5	119.7	123.5	121.2	115.9	110.8
COPPER MILL PROD		.48	115.7	126.7	117.0	106.3	115.5	116.1	115.1	98.9	92.7	101.4	88.8	93.0	86.8	81.8
ALUMINUM MILL PROD		.61	157.1	169.3	174.6	150.9	158.0	159.0	146.9	130.1	120.9	134.1	150.7	143.3	138.8	133.6
CONSTRUCTION		.13	166.6	178.6	180.3	166.6	168.5	169.3	161.7	145.0	119.3	141.9	165.2	147.7	153.7	153.0
NONCONSTRUCTION		.48	154.4	166.8	173.1	146.6	155.1	156.2	142.9	126.0	121.3	132.0	146.8	142.1	134.7	128.3
NONFERROUS FOUNDRIES 336		.35	77.6	85.0	84.9	65.7	79.8	78.3	75.6	67.2	55.0	65.7	69.7	67.9	67.6	71.2
FABRICATED METAL PRODUCTS 34		5.93														
METAL CANS 341		.38	128.4	131.0	134.9	133.4	136.3	131.1	128.0	123.1	115.3	113.4	119.0	123.1	119.6	115.7
HDWE, PLUMB, STRUCT, MET 342-4		2.67	144.7	144.7	145.8	142.2	146.8	145.5	144.4	141.0	136.8	131.6	135.5	133.0	127.9	124.3
HARDWARE, TOOLS, CUTL 342		.76	131.5	131.9	137.1	133.1	134.4	134.0	131.4	127.5	118.6	114.0	115.4	116.4	111.9	111.3
STRUCTURAL METAL PROD 344		1.62	154.0	153.0	152.0	149.3	155.5	153.0	154.5	151.0	150.1	144.3	148.2	143.9	138.4	133.2
OTHER FAB. MET. PROD. 345-9		2.89	129.8	133.2	136.6	130.9	133.9	133.6	129.3	123.7	115.0	105.4	112.5	112.7	109.5	108.5
FASTENERS, STAMP, ETC 345-8		2.03	114.7	118.9	121.6	116.6	118.7	118.8	114.2	107.9	98.7	90.0	97.0	98.4	95.8	95.8
NONELECTRICAL MACHINERY 35		9.15														
ENGINE AND FARM EQUIP. 351,2		1.20	148.8	150.2	154.5	146.3	140.3	149.3	148.1	141.3	139.3	127.5	137.3	127.0	120.4	122.1
FARM TRACTORS		.19	78.4	80.0	94.2	65.3	45.6	74.6	90.7	67.4	70.0	55.9	82.2	68.0	63.8	64.7
CONSTRUCTION & ALLIED EQ 353		1.36	157.0	155.3	162.0	156.2	160.9	163.3	161.7	156.2	155.7	140.3	142.7	135.9	131.7	125.5
TRACKLAYING TRACTORS		.16	80.1	82.2	89.3	59.5	73.1	89.0	84.2	80.4	72.9	48.0	78.3	65.0	59.0	53.7
METALWORKING MACHINERY 354		1.67	124.2	123.0	129.8	128.8	129.4	130.6	122.0	118.0	112.8	111.4	117.2	117.2	112.5	106.6
SPEC. & GEN'L IND EQ 355,6		2.30	126.6	126.2	130.5	124.7	127.7	130.0	126.9	125.0	118.9	111.2	114.4	111.7	107.8	105.5
OFFICE, SERV. & MISC. 357-9		2.63	258.2	255.8	270.2	280.5	275.8	280.7	264.6	256.3	247.7	240.8	249.3	248.9	240.5	240.3
ELECTRICAL MACHINERY 36		8.05														
MAJOR ELECT. EQ. & PTS. 361,2		1.74	146.6	151.6	154.7	152.3	148.7	154.0	150.7	141.8	133.6	123.9	127.6	130.2	121.4	117.3
HOUSEHOLD APPLIANCES 363		.83	137.5	146.0	145.1	135.3	141.8	143.3	145.4	110.3	79.8	109.3	123.7	114.6	125.4	116.0
COOKING STOVES 3631		.08	121.7	137.3	121.4	111.8	129.5	114.6	120.9	90.5	57.8	87.8	110.4	79.9	111.7	100.4
REFRIGERATION APPL. 3632		.26	116.3	138.4	141.1	138.8	95.0	107.8	117.7	72.9	33.7	89.2	96.7	94.0	108.0	95.2
LAUNDRY APPLIANCES 3633		.13	123.6	125.4	131.3	110.2	148.5	140.0	140.8	93.1	48.1	102.8	120.8	115.4	120.8	119.9
MISC. APPLIANCES 3634-6,9		.36	162.1	161.4	158.9	147.6	176.5	177.3	173.1	148.8	130.6	131.5	147.8	137.4	143.1	133.3
TV AND RADIO SETS 365		.52	94.7	94.1	93.8	80.5	100.6	104.4	104.8	98.2	63.7	75.0	83.9	76.3	83.9	80.2
COMMUNICATION EQUIPMENT 366		2.30	161.5	159.2	161.8	160.4	162.4	162.3	164.4	164.9	171.3	162.0	167.1	169.2	164.6	166.1
ELECTRONIC COMPONENTS 367		1.43	311.7	311.0	315.3	302.5	317.2	318.7	322.2	321.7	320.5	303.0	315.7	315.1	312.6	314.3
TV TUBES 3671-3		.31	37.8	36.7	32.0	36.9	44.0	36.8	43.1	38.4	24.7	33.3				
MISC. ELECTRICAL SUPP. 369		.49	183.2	178.9	179.6	178.1	193.8	201.8	203.5	189.2	176.8	165.8	171.5	164.9	166.2	169.4
STORAGE BATTERY, REPL. 3691		.09	224.7	181.3	181.8	192.2	275.6	304.3	310.0	244.8	240.4	245.0	236.2	185.0	182.2	189.7
TRANSPORTATION EQUIPMENT 37		9.27														
MOTOR VEHICLES AND PARTS 371		4.50														
AUTOS, TOTAL		1.90	103.4	135.6	137.8	95.1	81.4	89.8	105.4	86.8	67.3	59.9	73.2	90.0	98.2	108.6
LARGE AUTOS		1.79	54.5	71.3	67.2	38.8	29.8	49.4	57.3	52.0	42.9	42.8	54.1	55.8	61.4	68.0
SMALL AUTOS		.11	908.3	192.9	1298.5	1021.4	930.5	753.7	896.7	659.7	468.2	340.8	386.8	651.7	703.9	775.8
TRUCKS AND BUSES		.53	121.0	144.2	157.6	101.9	82.9	107.6	135.1	104.9	91.3	109.7	134.6	158.0	157.6	170.3
BUSINESS VEHICLES		.40	86.9	103.6	113.0	76.8	65.6	75.3	93.3	71.7	60.4	75.1	91.9	105.2	103.3	
UTILITY VEHICLES		.13	223.1	265.6	291.0	177.2	134.6	204.4	260.3	204.1	183.9	213.4	262.4	316.1	320.0	
TRUCK TRAILERS		.09	151.3	166.0	169.5	126.8	153.8	152.0	162.2	149.5	130.6	112.1	132.4	139.9	128.0	128.9
MOTOR VEHICLE PARTS		1.98	139.5	150.2	151.7	144.2	140.3	139.3	131.1	128.0	121.5	110.2	116.3	119.0	122.4	130.2
AIRCRAFT AND PARTS 372		3.73	105.0	105.9	104.9	101.8	101.1	104.3	103.4	104.8	106.1	100.4	102.8	101.5	98.2	98.0
SHIPS AND BOATS 373		.56	145.8	150.7	144.4	141.0	142.0	142.7	142.5	142.9	143.2	123.6	133.5	132.5	132.4	130.9
RAIL & MISC TRANS EQ 374,5,9		.49	108.9	122.2	124.2	105.3	105.6	106.6	101.6	89.1	84.8	79.9	89.2	94.5	92.8	95.7
RAILROAD EQUIPMENT 374		.26	76.5	83.6	89.9	71.8	54.3	62.1	61.9	53.9	61.9	53.8	47.9	52.5	41.6	49.6
MOBILE HOMES 379		.18	110.0	129.9	124.9	112.8	127.2	116.9	110.0	89.6	73.9	79.4	103.3	115.5	122.0	
INSTRUMENTS 38		2.11														
EQUIPMENT INSTR. & PTS. 381-4		1.07	187.9	185.8	192.3	191.2	192.7	195.9	190.6	188.5	185.0	172.5	180.4	178.4	176.3	179.0
CONSUMER INSTR. PROD. 385-7		1.04	152.0	153.2	155.7	153.0	151.5	151.1	150.8	150.4	148.0	141.3	143.4	144.2	143.7	146.8
MISC. MANUFACTURES 39		1.51														
MISC. CONS. GOODS 391,3,4,6		.86	161.4	163.6	170.9	166.1	172.5	172.8	164.2	159.1	143.3	136.6	145.0	148.0	145.7	147.0
MISC. BUS. SUPPLIES 395,9		.65	146.7	142.8	150.9	148.9	155.0	154.8	149.4	145.2	138.3	134.4	138.0	140.2	133.7	131.8
ELECTRIC UTILITIES 49		3.88	190.9													
ELEC UTIL GENERATION		1.90	185.7	173.0	197.4	206.4	207.6	182.0	170.0	177.9	183.5	204.7	190.3	176.2	168.3	
FOSSIL FUEL GENERATION		1.54	174.9	159.9	185.4	197.8	196.7	172.8	164.2	166.3	167.6	188.2	172.6	155.4	146.8	
HYDRO & NUCLEAR GENERAT.		.36	232.1	129.5	249.1	243.3	254.6	221.3								

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

SUMMARY GROUPINGS	1981				1982	
	I	II	III	IV	I	II
TOTAL INDEX	151.8	152.5	153.0	146.3	141.8	139.3
PRODUCTS, TOTAL	150.3	151.9	152.2	147.7	143.7	142.2
FINAL PRODUCTS	148.3	150.9	151.2	147.5	143.4	142.1
CONSUMER GOODS	147.7	150.0	149.4	144.2	141.0	143.0
DURABLE CONSUMER GOODS	141.6	146.5	143.1	129.7	124.7	133.4
AUTOMOTIVE PRODUCTS	134.5	149.3	141.4	124.6	117.2	137.4
HOME GOODS	145.6	144.9	144.1	132.6	128.9	131.2
NONDURABLE CONSUMER GOODS	150.1	151.3	151.9	149.9	147.4	146.8
CLOTHING	120.3	121.2	121.3	115.9	115.9	115.9
CONSUMER STAPLES	158.3	159.6	160.3	159.3	158.7	158.2
CONSUMER ENERGY	146.2	147.2	148.9	148.9	147.9	147.9
(HOME GOODS AND CLOTHING)	134.0	134.0	133.6	124.9	118.7	119.5
EQUIPMENT	149.3	152.2	153.7	151.9	146.8	140.8
BUSINESS EQUIPMENT	178.2	182.2	184.0	179.5	170.9	160.7
INDUSTRIAL EQUIPMENT	163.2	167.3	169.5	165.3	155.1	139.9
COMMERCIAL, TRANSIT, FARM EQ.	195.5	199.5	200.6	195.8	189.3	184.7
DEFENSE AND SPACE EQUIPMENT	100.7	101.7	102.8	105.6	106.2	107.5
INTERMEDIATE PRODUCTS	157.4	155.8	155.9	148.7	145.0	142.6
CONSTRUCTION SUPPLIES	148.8	145.9	142.7	130.8	125.8	122.3
BUSINESS SUPPLIES	166.0	165.5	169.0	166.4	164.0	164.0
COMMERCIAL ENERGY PRODUCTS	174.7	177.3	176.9	176.2	183.4	183.4
MATERIALS	154.2	153.4	154.3	144.0	138.7	134.9
DURABLE GOODS MATERIALS	150.9	152.3	152.8	140.2	130.9	126.7
BASIC METAL MATERIALS	117.8	113.6	115.0	101.0	92.5	92.5
NONDURABLE GOODS MATERIALS	179.2	178.4	175.8	164.5	161.0	158.4
TEXTILE, PAPER AND CHEMICAL MAT	186.7	185.9	182.8	169.4	164.5	162.4
TEXTILE MATERIALS	114.8	114.5	115.5	106.8	101.3	101.3
PAPER MATERIALS	151.4	151.0	152.2	147.0	146.1	146.1
CHEMICAL MATERIALS	232.7	231.6	224.9	206.2	200.0	200.0
ENERGY MATERIALS	130.9	125.1	131.6	127.9	129.8	125.6
MANUFACTURING	151.3	152.4	152.5	145.0	139.8	138.1
DURABLE	141.3	143.1	142.6	134.5	128.2	126.1
NONDURABLE	165.7	166.0	166.8	160.2	156.7	155.4
MINING AND UTILITIES	154.1	153.0	157.7	155.4	155.4	148.8
MINING	142.2	137.4	145.8	143.7	141.7	130.2
UTILITIES	167.3	170.3	170.9	168.4	170.7	169.6

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

	1981				1982	
	I	II	III	IV	I	II
PRODUCTS, TOTAL	615.1	619.2	616.4	598.5	584.1	584.0
FINAL PRODUCTS	473.6	479.7	477.1	465.9	454.1	456.2
CONSUMER GOODS	318.7	322.1	320.3	310.7	304.0	310.7
DURABLE CONSUMER GOODS	82.2	86.5	83.9	74.5	71.0	77.8
AUTOMOTIVE PRODUCTS	36.4	41.0	38.4	32.8	30.3	36.7
HOME GOODS	45.8	45.5	45.5	41.7	40.7	41.1
NONDURABLE CONSUMER GOODS	236.5	235.6	236.5	236.1	233.0	232.8
CLOTHING	30.5	30.7	31.2	29.7	29.7	29.7
CONSUMER STAPLES	206.1	205.0	205.3	206.5	205.7	205.6
CONSUMER ENERGY	42.1	42.0	42.5	43.0	42.4	42.4
(HOME GOODS AND CLOTHING)	76.3	76.2	76.7	71.4	68.0	68.3
EQUIPMENT	154.9	157.6	156.8	155.2	150.1	145.5
BUSINESS EQUIPMENT	112.7	114.9	113.7	111.0	105.8	100.6
INDUSTRIAL EQUIPMENT	52.5	53.5	54.0	52.8	49.4	44.4
COMMERCIAL, TRANSIT, FARM EQ.	60.2	61.5	59.7	58.2	56.4	56.3
DEFENSE AND SPACE EQUIPMENT	42.2	42.7	43.1	44.2	44.4	44.9
INTERMEDIATE PRODUCTS	141.5	139.4	139.3	132.6	130.0	127.8
CONSTRUCTION SUPPLIES	63.6	61.9	60.6	54.9	53.2	51.8
BUSINESS SUPPLIES	77.9	77.5	78.8	77.7	76.8	76.8
COMMERCIAL ENERGY PRODUCTS	19.1	19.4	19.3	19.3	19.9	19.9

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

MAJOR MARKET GROUPINGS	1972				1981				1982						
	DOLS.	LARS	AVG. JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
PRODUCTS, TOTAL	507.4	612.3	619.2	621.4	616.5	611.5	605.0	597.6	592.8	577.4	588.1	586.8	583.5	585.9	582.7
FINAL PRODUCTS	390.9	474.1	480.5	481.9	476.4	473.0	470.1	465.2	462.3	448.8	457.1	456.6	455.0	458.0	455.6
CONSUMER GOODS	277.5	318.0	322.1	324.0	319.3	317.7	314.3	310.5	307.2	298.9	306.3	306.9	308.4	311.6	312.0
DURABLE CONSUMER GOODS	82.0	81.8	87.7	86.7	83.0	81.9	78.7	74.3	70.6	67.2	71.6	74.0	75.4	78.2	79.8
AUTOMOTIVE PRODUCTS	41.1	37.1	42.0	40.4	37.1	37.6	35.2	32.1	31.1	27.6	30.3	32.9	34.4	37.2	38.5
HOME GOODS	40.9	44.6	45.7	46.3	45.9	44.3	43.5	42.2	39.5	39.6	41.3	41.2	41.0	41.0	41.4
NONDURABLE CONSUMER GDS	195.5	236.2	234.4	237.3	236.4	235.8	235.5	236.3	236.6	231.7	234.6	232.8	232.9	233.4	232.2
CLOTHING	28.5	30.5	30.9	31.5	31.6	30.6	29.7	30.0	29.2	27.1	27.7	27.2	27.1		
CONSUMER STAPLES	167.0	205.7	203.5	205.8	204.8	205.2	205.8	206.2	207.4	204.6	207.0	205.6	205.8	206.2	204.9
CONSUMER ENERGY PROD.	39.2	42.4	42.3	42.3	43.0	42.2	42.5	43.2	43.3	42.9	42.2	42.3	43.0	43.2	
(HOME GOODS & CLOTHING)	69.4	75.1	76.6	77.8	77.5	74.9	73.2	72.2	68.7	66.7	69.0	68.3	68.1	68.2	68.7
EQUIPMENT	113.4	156.1	158.5	157.9	157.1	155.3	155.8	154.7	155.1	149.9	150.8	149.7	146.7	146.3	143.5
BUSINESS EQUIPMENT	80.6	113.1	115.8	114.9	114.0	112.1	112.0	110.6	110.3	105.9	106.3	105.0	102.0	101.4	98.5
INDUSTRIAL EQUIPMENT	34.4	53.2	53.8	53.8	54.6	53.4	53.2	52.7	52.5	50.4	49.6	48.1	46.3	44.5	42.4
COM'L, TRANSIT, FARM EQ.	46.2	59.9	62.0	61.1	59.3	58.7	58.9	57.8	57.8	55.5	56.7	56.9	55.7	57.0	56.0
DEFENSE & SPACE EQUIP.	32.7	43.1	42.7	43.0	43.1	43.2	43.8	44.1	44.8	43.9	44.5	44.7	44.6	44.9	45.1
INTERMEDIATE PRODUCTS	116.6	138.2	138.7	139.5	140.1	138.4	134.9	132.4	130.5	128.7	131.1	130.2	128.5	127.9	127.1
CONSTRUCTION SUPPLIES	57.8	60.3	60.8	61.2	61.4	59.1	57.2	54.5	53.0	52.6	53.9	53.1	51.6	52.0	51.8
BUSINESS SUPPLIES	58.8	78.0	77.9	78.3	78.7	79.3	77.7	77.9	77.5	76.1	77.2	77.1	76.9	75.9	
COMMERCIAL ENERGY PROD.	15.6	19.3	19.5	19.6	19.4	19.0	19.0	19.4	19.6	19.7	19.9	20.2	20.2	19.6	

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

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1967-81			
AVERAGE	54.3	57.0	59.2
HIGH	71.7	78.7	82.8
LOW	22.6	15.7	14.7
1980			
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	31.5	25.3	36.0
NOVEMBER	33.0	24.7	28.9
DECEMBER	32.8	25.7	25.1
1982			
JANUARY	38.7	24.9	21.1
FEBRUARY	64.3	35.5	26.4
MARCH	37.9	45.5	21.9
APRIL	33.8	44.7	24.0
MAY	42.8	29.4	28.7

NOTE: THE DIFFUSION INDEXES SHOW THE PERCENT OF THE INDUSTRIAL PRODUCTION INDEX'S 235 SEASONALLY ADJUSTED COMPONENT SERIES THAT IN THE MONTH INDICATED WERE HIGHER THAN THEY WERE ONE MONTH EARLIER, THREE MONTHS EARLIER, AND SIX MONTHS EARLIER. IN CALCULATING THE DIFFUSION INDEXES HALF OF THE UNCHANGED COMPONENTS ARE COUNTED AS BEING HIGHER AND NO ALLOWANCE IS MADE FOR THE RELATIVE IMPORTANCE OF THE INDIVIDUAL COMPONENTS IN TOTAL INDUSTRIAL PRODUCTION. DIFFUSION INDEXES BASED ON CHANGES OVER A SIX-MONTH PERIOD GENERALLY SHOW MORE PRONOUNCED CYCLICAL PATTERNS THAN DIFFUSION INDEXES BASED ON CHANGES OVER SHORTER PERIODS.

Table 9A

ELECTRIC POWER USE BY INDUSTRIES

Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 1	Q 2	Q 3	Q 4	1982 Q 1	1981 DEC	1982 JAN	FEB	MAR	APR	MAY	PERCENT CHG. FROM PREV. NO. YR.	(P)
TOTAL		560.4	136.4	138.2	137.8	139.7	130.3	125.5	128.6	125.3	126.6	124.6	123.6	120.2	-2.8	-12.1
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	151.3	152.4	151.3	153.9	147.5	146.1	147.7	145.6	146.4	146.3	143.4	141.9	-1.0	-5.6
FINAL PRODUCTS		101.4	150.2	150.9	150.3	153.1	146.4	145.0	146.9	144.7	144.9	145.3	142.5	141.4	-7.7	-5.2
CONSUMER GOODS		67.4	155.8	156.6	156.2	158.7	151.2	149.3	151.6	149.4	148.1	150.5	147.6	147.0	-5.5	-5.1
EQUIPMENT		34.0	136.2	136.6	135.5	138.4	134.2	133.8	135.1	132.7	136.5	132.3	129.7	127.4	-1.8	-5.6
INTERMEDIATE PRODUCTS		34.7	154.7	156.8	154.2	156.7	151.0	149.7	149.8	148.5	151.5	149.0	145.9	143.2	-1.8	-6.8
MATERIALS		424.3	131.5	133.6	133.3	134.9	124.6	118.9	122.4	118.8	120.1	117.8	117.1	113.2	-3.3	-14.5
DURABLE		237.7	130.6	134.1	133.4	132.8	122.4	112.8	119.2	113.6	115.1	109.6	107.9	102.6	-4.9	-22.8
NONDURABLE		133.0	138.6	141.1	141.6	140.2	131.6	128.4	128.7	126.8	128.6	129.7	129.2	126.6	-2.0	-11.0
ENERGY, EX. ERDA		23.8	171.2	173.3	154.9	176.3	180.5	180.3	181.4	181.9	178.8	180.3	188.6	175.7	-6.8	20.2
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.5	179.3	160.7	178.7	171.8	176.0	170.3	177.4	178.2	172.4	172.8	163.0	-5.7	5.0
MANUFACTURING		519.2	134.5	136.1	136.3	137.5	128.1	123.2	126.6	122.6	124.4	122.7	121.0	117.9	-2.6	-13.1
DURABLE	19,24-25,32-39	254.1	132.1	134.8	134.3	134.3	124.9	117.2	122.7	117.1	119.2	115.2	113.0	108.8	-3.7	-18.6
NONDURABLE	20-23,26-31	265.1	136.8	137.5	138.3	140.5	131.3	129.1	130.2	127.9	129.3	130.1	128.7	126.7	-1.6	-8.0
UTILITIES, OWN USE	491,2	6.5		134.1												
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	166.3	168.4	170.2	175.0	151.9	152.6	143.4	154.8	156.9	146.0	146.3	140.5	-4.0	+16.0
IRON ORE	101	5.0	176.0	176.7	186.2	189.8	151.3	173.2	142.6	177.1	180.9	161.5	160.1	151.7	-5.3	-17.6
COPPER ORE	102	3.0	166.1	171.5	161.3	171.8	160.4	126.9	148.5	126.7	124.4	129.7	131.4	129.8	-1.2	-17.1
COAL	11,2	5.9	181.3	204.8	104.2	204.6	214.5	218.2	219.2	224.4	214.3	215.9	208.3	183.4	-12.0	125.4
OIL AND GAS EXTRACTION	13	11.9	185.8	182.4	184.4	187.7	188.9	192.3	191.5	194.4	192.6	189.8	198.9	192.6	-3.2	4.7
CRUDE OIL AND NAT. GAS	131	8.9	209.6	208.2	207.2	210.2	212.8	216.7	215.7	217.3	217.7	214.9	220.3	220.8	.3	6.1
NATURAL GAS LIQUIDS	132	2.5	122.8	118.3	124.0	123.0	125.8	125.2	126.8	127.6	125.9	122.2	126.9	126.0	-8.8	.4
STONE AND EARTH MINERALS	14	6.9	155.5	167.1	157.6	154.0	144.2	150.1	142.8	145.9	153.0	151.2	149.9	143.5	-4.3	-8.3
CRUSHED STONE	142	1.5	153.7	166.6	152.3	152.6	146.1	153.9	142.8	154.9	153.0	153.6	144.7	134.3	-7.2	-10.4
SAND AND GRAVEL	144	1.1	136.8	151.1	135.7	135.4	128.2	111.3	129.4	120.4	109.7	103.7	95.7	94.3	-1.5	-30.0
CHEMICAL MINERALS	147	3.4	159.8	170.0	165.2	159.3	145.6	157.9	144.7	149.5	162.5	161.9	164.3	159.8	-2.8	-2.8
ORDNANCE	19	4.1	101.0	99.5	99.5	102.8	102.4	98.7	101.3	100.5	98.7	96.8	100.8	95.8	-5.0	.1
FOODS	20	26.8	161.0	161.4	161.4	161.9	159.5	160.6	159.8	157.6	161.9	162.2	161.4	158.0	-2.1	-2.0
MEAT PRODUCTS	201	4.2	168.3	171.0	170.6	167.7	164.3	166.0	165.1	164.6	167.1	166.2	163.9	165.5	1.0	-4.0
DAIRY PRODUCTS	202	4.1	144.0	149.5	143.9	139.7	144.2	144.1	147.3	148.3	140.9	143.3	142.6	137.7	-3.5	-4.2
CANNED AND FROZEN FOODS	203	3.2	193.6	192.2	191.9	192.9	198.2	197.5	204.2	191.8	196.8	204.0	193.7	190.8	-1.5	-5.1
GRAIN MILL PRODUCTS	204	4.8	146.0	147.4	145.9	148.9	142.0	138.7	140.6	137.5	140.6	137.9	141.7	137.5	-3.0	-5.4
BAKERY PRODUCTS	205	1.8	144.8	144.2	144.4	145.0	145.7	144.6	147.4	142.8	146.5	144.5	143.2	142.3	-6.6	-1.4
SUGAR	206	1.2	277.8	257.0	324.8	360.0	236.7	249.7	217.8	194.1	266.6	288.4	306.5	306.6	0.0	-2.9
CONFECTIONERY	207	1.0	138.6	148.4	133.9	131.7	143.3	157.5	150.4	162.9	162.5	147.1	145.1	137.3	-5.3	6.8
BEVERAGES	208	2.4	204.0	210.1	201.5	200.2	205.8	211.2	209.4	209.0	217.8	206.7	201.5	197.4	-2.0	-3.5
MISC. FOOD PRODUCTS	209	4.1	132.7	128.2	133.2	137.5	131.5	130.8	128.2	125.5	132.7	134.1	132.5	136.2	2.8	1.8
TOBACCO PRODUCTS	21	.9	125.1	127.6	124.0	124.4	125.0	131.3	126.0	126.6	132.5	135.0	124.8	128.9	3.3	4.7
TEXTILE MILL PRODUCTS	22	20.8	114.1	113.7	117.4	118.3	107.1	100.2	105.1	93.8	102.5	104.4	100.2	103.5	3.3	-12.4
FABRICS	221-4	11.7	90.8	90.4	94.6	93.7	84.8	77.5	83.6	71.7	79.7	81.2	77.7	81.3	4.5	-15.5
KNIT GOODS	225	1.7	147.7	151.3	150.3	153.0	136.1	133.2	134.3	124.9	138.2	136.5	135.6	134.0	-1.2	-9.3
FABRIC FINISHING	226	1.5	152.2	152.1	154.3	161.1	141.9	133.8	137.7	132.0	133.7	135.8	133.8	134.6	.6	-12.3
YARN AND THREAD	228	3.9	158.1	157.9	161.5	163.5	149.3	142.0	144.5	131.8	145.0	149.3	139.7	146.4	4.8	-9.7
MISC. TEXTILES	229	1.4	142.0	137.2	145.1	148.0	137.6	126.0	134.8	113.8	128.0	136.2	127.5	137.7	8.0	-7.0
APPAREL PRODUCTS	23	3.6	163.0	163.4	159.8	166.0	162.6	167.6	165.4	165.7	170.8	166.2	159.4	157.4	-1.2	-1.1
MEN'S OUTERWEAR	231,2	1.0	148.9	149.2	149.4	152.1	144.3	151.7	141.5	154.3	150.4	150.6	148.0	144.9	-2.1	-2.6
WOMEN'S OUTERWEAR	233	1.0	201.6	205.1	196.9	203.5	201.6	212.1	204.3	205.0	220.3	210.9	208.6	194.1	-6.9	.9
LUMBER AND PRODUCTS	24	8.0	177.6	180.7	177.3	178.9	173.6	172.7	175.0	167.6	177.4	173.1	172.2	174.7	1.5	-7.7
LUMBER	242	3.9	165.2	161.9	159.7	165.8	173.7	179.1	181.3	174.6	184.3	178.3	173.6	177.0	2.0	12.0
MILLWORK AND PLYWOOD	243	2.2	184.0	194.9	188.3	183.0	169.6	155.5	167.1	150.3	162.0	154.0	156.1	162.0	3.7	-14.2
FURNITURE AND FIXTURES	25	2.5	161.6	159.9	161.7	166.5	158.8	154.3	158.6	149.9	158.0	155.1	152.4	153.6	.8	-3.2
HOME FURNITURE	251	1.7	173.7	174.8	175.1	177.0	168.2	163.8	166.7	159.0	167.4	165.0	161.6	162.3	.4	-6.1
PAPER AND PRODUCTS	26	49.1	124.5	124.7	126.1	126.2	121.3	119.3	118.9	117.3	120.3	120.3	121.0	116.6	-3.7	-6.8
WOOD PULP	261	3.5	116.5	117.6	119.8	116.9	111.7	102.4	107.4	99.2	107.1	100.8	105.2	102.2	-2.9	-14.6
PAPER	262	24.5	126.3	126.5	127.4	127.7	123.9	123.6	123.0	124.0	121.8	125.0	126.6	119.0	-6.0	-4.1
PAPERBOARD	263	14.8	129.0	134.1	131.0	131.9	119.0	118.8	113.3	111.8	123.6	121.2	120.3	120.3	0.0	-9.0
CONVERTED PAPER	264	2.5	141.2	138.8	140.1	146.0	139.7	142.1	135.8	139.5	143.9	142.8	137.6	132.0	-4.1	-4.5
PAPERBOARD CONTAINERS	265	2.3	143.3	145.2	141.3	142.8	144.3	134.9	146.8	135.8	137.0	131.9	133.7	130.2	-2.6	-7.5
BUILDING PAPER AND BOARD	266	1.4	147.9	148.5	155.5	143.1	145.1	137.0	144.5	125.1	145.2	140.9	137.4	141.1	2.6	-10.2
PRINTING AND PUBLISHING	27	5.8	167.3	169.6	164.2	167.6	168.3	175.1	173.3	177.5	175.6	172.3	170.3	167.7	-1.5	2.4
NEWSPAPERS	271	1.7	144.2	145.7	142.9	144.2	144.4	149.2	150.3	152.0	150.9	144.7	144.6	142.5	-1.5	-5.5
COMMERCIAL PRINTING	275	2.4	180.1	181.9	175.8	180.3	182.5	190.8	187.4	193.9	190.4	188.1	182.1	182.2	0.0	4.6

P--PRELIMINARY

Table 9B
ELECTRIC POWER USE BY INDUSTRIES
 Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 1	Q 2	Q 3	Q 4	1982 Q 1	1981 DEC	1982 JAN	FEB	MAR	APR	MAY	PERCENT CHG. FROM PREV. MO. (P)	YR. (P)
TOTAL		560.4	136.4	136.7	138.7	138.9	131.5	124.1	127.0	123.9	123.3	125.2	123.7	122.1	-1.3	-12.1
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	151.3	146.8	151.3	158.5	148.8	140.7	142.6	138.2	142.0	141.9	140.3	140.8	.4	-5.6
FINAL PRODUCTS		101.4	150.2	145.1	150.0	158.5	147.5	139.3	141.3	137.0	140.4	140.5	138.5	139.9	1.0	-5.2
CONSUMER GOODS		67.4	155.8	150.0	155.6	164.7	152.8	143.0	146.4	141.5	142.8	144.8	142.8	145.4	1.8	-5.1
EQUIPMENT		34.0	136.2	132.5	135.6	142.6	133.9	129.9	128.3	125.5	134.3	129.8	127.5	125.8	-1.3	-5.6
INTERMEDIATE PRODUCTS		34.7	154.7	152.0	155.2	158.6	153.0	145.0	146.6	141.8	147.1	146.2	145.6	143.7	-1.4	-6.8
MATERIALS		424.3	131.5	133.3	134.6	132.4	125.7	118.6	121.9	119.2	117.1	119.6	118.3	115.9	-2.0	-14.5
DURABLE		237.7	130.6	133.8	135.8	130.7	122.2	112.5	117.9	113.5	112.0	111.9	109.3	106.1	-2.9	-22.8
NONDURABLE		133.0	138.6	138.1	142.6	141.1	132.6	125.7	126.8	124.1	123.7	129.2	129.1	127.7	-1.0	-11.0
ENERGY, EX. ERDA		23.8	171.2	183.4	152.8	168.2	180.4	190.9	189.4	199.6	190.4	182.6	186.9	176.0	-5.8	20.2
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.5	180.0	162.9	174.3	172.9	176.7	171.6	180.5	177.0	172.5	174.6	166.1	-4.9	5.0
MANUFACTURING		519.2	134.5	134.0	137.4	137.3	129.3	121.3	124.4	120.5	120.5	122.9	121.1	119.8	-1.1	-13.1
DURABLE	19,24-25,32-39	254.1	132.1	133.5	136.2	133.5	125.1	116.0	120.2	114.9	116.6	116.6	113.8	111.4	-2.1	-18.6
NONDURABLE	20-23,26-31	265.1	136.8	134.5	138.5	140.9	133.3	126.3	128.5	125.8	124.2	128.9	128.1	127.7	-.3	-8.0
UTILITIES, OWN USE	491,2	6.5		148.3												
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	9.9	166.3	168.2	174.5	170.5	152.1	152.5	143.9	158.1	154.0	145.4	148.3	145.4	-2.0	-16.0
IRON ORE	101	5.0	176.0	175.4	190.8	185.8	151.9	171.9	143.4	179.0	176.7	159.9	163.2	156.5	-4.1	-17.6
COPPER ORE	102	3.0	166.1	174.2	167.0	162.3	160.8	128.9	150.2	132.0	123.4	131.3	133.0	136.5	2.6	-17.1
COAL	11,21	5.9	181.3	223.9	106.2	180.4	214.9	238.3	226.3	238.6	245.1	231.2	219.5	187.2	-14.7	125.4
OIL AND GAS EXTRACTION	131	11.9	185.8	182.2	183.6	187.8	189.6	192.1	191.9	200.6	187.8	188.1	196.1	191.3	-2.5	4.7
CRUDE OIL AND NAT. GAS	131	8.9	209.6	209.3	206.3	209.0	213.8	217.8	217.6	227.6	212.3	213.6	219.2	216.8	-1.1	6.1
NATURAL GAS LIQUIDS	132	2.5	122.8	115.0	123.0	127.2	125.9	121.8	124.8	126.9	119.5	118.9	123.2	125.3	1.7	.4
STONE AND EARTH MINERALS	141	6.9	155.5	158.1	160.8	154.8	148.1	141.9	143.2	138.2	141.2	146.4	150.1	147.2	-1.9	-8.3
CRUSHED STONE	142	1.5	153.7	139.2	159.4	161.6	154.8	128.5	139.4	128.7	126.2	130.6	143.7	142.9	-.6	-10.4
SAND AND GRAVEL	144	1.1	136.8	128.3	140.2	142.6	136.2	94.5	129.1	101.1	92.4	89.9	95.5	98.4	3.1	-30.0
CHEMICAL MINERALS	147	3.4	159.8	169.2	166.3	156.1	147.7	157.2	145.8	150.7	155.5	165.6	165.8	161.2	-2.8	-2.8
ORDNANCE	191	4.1	101.0	95.5	99.1	107.4	102.1	94.7	96.8	95.5	94.9	93.6	96.0	95.5	-.6	.1
FOODS	201	26.8	161.0	152.2	156.6	171.9	163.4	151.3	156.9	151.5	152.0	150.6	150.4	151.5	.7	-2.0
MEAT PRODUCTS	201	4.2	168.3	156.1	167.3	184.5	165.2	151.4	157.7	151.8	152.7	149.8	154.5	159.1	3.0	-4.0
DAIRY PRODUCTS	202	4.1	144.0	134.2	145.1	157.6	138.9	129.4	133.9	133.9	125.4	129.1	134.9	136.2	.9	-4.2
CANNED AND FROZEN FOODS	203	3.2	193.6	180.2	183.8	206.7	203.5	185.2	186.3	177.6	187.5	190.6	181.7	181.9	.1	-.1
GRAIN MILL PRODUCTS	204	4.8	146.0	147.1	140.5	150.1	146.3	138.4	142.0	138.4	140.2	136.5	134.5	129.6	-3.7	-5.4
BAKERY PRODUCTS	205	1.8	144.8	134.0	141.6	158.4	145.2	134.4	140.1	134.1	134.7	134.2	134.6	137.5	2.1	-1.4
SUGAR	206	1.2	277.8	286.9	241.0	264.0	319.2	278.5	325.6	298.9	275.1	261.6	239.3	234.6	-2.0	-2.9
CONFECTIONERY	207	1.0	138.6	132.4	133.5	140.3	148.3	140.6	144.1	139.2	144.5	138.0	137.7	135.1	-1.8	6.8
BEVERAGES	208	2.4	204.0	189.5	201.6	223.4	201.7	190.5	194.9	191.9	189.9	189.7	191.8	194.0	1.1	-3.5
MISC. FOOD PRODUCTS	209	4.1	132.7	122.4	130.1	142.7	135.7	124.7	128.6	122.1	127.9	124.2	125.2	130.6	4.3	1.8
TOBACCO PRODUCTS	211	.9	125.1	118.0	116.8	136.3	129.4	121.7	118.7	110.0	126.8	128.2	111.6	119.5	7.1	4.7
TEXTILE MILL PRODUCTS	221	20.8	114.1	107.4	120.6	120.9	107.6	94.8	99.1	84.7	99.1	100.6	99.1	105.7	6.6	-12.4
FABRICS	221-41	11.7	90.8	86.0	97.2	95.1	85.0	73.9	78.2	65.9	77.5	78.3	77.2	83.2	7.8	-15.5
KNIT GOODS	225	1.7	147.7	136.0	154.0	165.8	135.1	120.0	121.8	106.6	126.8	126.5	129.9	136.1	4.8	-9.3
FABRIC FINISHING	226	1.5	152.2	150.8	158.8	155.8	143.3	132.7	135.1	125.8	134.3	138.1	135.5	138.1	1.9	-12.3
YARN AND THREAD	228	3.9	158.1	147.2	166.0	168.9	150.5	132.6	138.0	116.3	139.2	142.1	137.8	148.7	7.9	-9.7
MISC. TEXTILES	229	1.4	142.0	133.8	148.5	147.8	138.0	123.0	130.1	108.5	127.6	132.8	129.8	136.6	5.3	-7.0
APPAREL PRODUCTS	231	3.6	163.0	143.7	157.9	192.0	158.3	147.3	144.2	140.7	152.5	148.7	146.3	150.6	3.0	-1.1
MEN'S OUTERWEAR	231,21	1.0	148.9	129.2	147.1	176.8	142.3	131.4	123.7	127.4	134.6	132.1	133.5	138.7	3.9	-2.6
WOMEN'S OUTERWEAR	233	1.0	201.6	177.3	194.6	242.0	192.4	183.4	172.8	171.2	192.6	186.5	185.8	188.1	1.2	.9
LUMBER AND PRODUCTS	241	8.0	177.6	183.5	179.7	172.9	174.2	175.5	171.9	165.7	182.0	178.7	178.7	177.5	-.7	-.7
LUMBER	242	3.9	165.2	164.3	161.8	159.8	174.8	181.8	177.7	173.9	186.9	184.5	183.0	180.0	-1.6	12.0
MILLWORK AND PLYWOOD	243	2.2	184.0	199.7	193.1	175.5	167.7	159.3	162.4	150.5	166.7	160.8	162.9	165.7	1.8	-14.2
FURNITURE AND FIXTURES	251	2.5	161.6	160.5	162.0	164.3	159.9	154.9	155.3	145.1	162.2	157.2	153.8	151.0	-1.8	-3.2
HOME FURNITURE	251	1.7	173.7	177.7	175.6	172.3	169.2	166.5	164.7	156.4	174.2	168.9	164.3	159.7	-2.8	-6.1
PAPER AND PRODUCTS	261	49.1	124.5	124.0	127.7	125.4	121.2	118.6	113.9	116.8	116.9	122.2	122.0	118.6	-2.8	-6.8
WOOD PULP	261	3.5	116.5	116.7	120.4	116.7	112.2	101.6	104.0	99.1	104.1	101.5	107.3	102.7	-4.3	-14.6
PAPER	262	24.5	126.3	126.5	129.4	126.3	123.1	123.6	116.2	124.5	117.7	128.6	127.6	123.5	-3.2	-4.1
PAPERBOARD	263	14.8	129.0	135.5	133.7	129.1	117.7	120.1	107.6	113.0	122.5	124.9	120.5	123.6	2.5	-9.0
CONVERTED PAPER	264	2.5	141.2	133.6	141.3	147.6	142.2	136.7	133.2	132.2	139.7	138.3	137.3	132.4	-3.6	-4.5
PAPERBOARD CONTAINERS	265	2.3	143.3	142.6	142.7	144.2	143.6	132.5	140.1	127.9	133.7	136.0	133.0	129.8	-2.4	-7.5
BUILDING PAPER AND BOARD	266	1.4	147.9	143.9	156.2	145.7	145.9	132.7	137.5	122.9	138.3	136.8	139.1	142.3	2.3	-10.2
PRINTING AND PUBLISHING	271	5.8	167.3	151.5	161.3	190.4	166.2	156.4	159.5	156.9	156.6	155.6	157.7	161.5	2.4	2.4
NEWSPAPERS	271	1.7	144.2	128.8	140.9	165.6	141.5	131.9	137.7	136.5	131.4	127.8	133.9	137.9	3.0	-.5
COMMERCIAL PRINTING	275	2.4	180.1	161.5	171.8	204.4	182.6	169.3	174.1	168.9	169.3	169.8	168.1	175.2	4.2	4.6

P--PRELIMINARY

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

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 1	Q 2	Q 3	Q 4	1982 Q 1	1981 DEC	1982 JAN	FEB	MAR	APR	MAY	PERCENT CHG. FROM PREV. NO. YR.	(P)	(P)
CHEMICALS AND PRODUCTS	281	116.8	128.8	129.4	131.2	133.9	121.2	118.9	119.5	118.3	118.7	119.6	119.2	117.4	-1.5	-9.9	
BASIC CHEMICALS	2811	96.4	113.8	113.6	116.8	119.6	105.8	104.2	104.3	103.9	104.2	104.4	102.8	102.3	-5	-11.3	
ALKALIES AND CHLORINE	2812	12.3	149.5	153.8	155.7	150.7	138.4	138.9	130.9	133.3	143.8	139.8	139.5	128.6	-7.8	-16.4	
BASIC ORGANIC CHEM. NEC	2818	24.8	145.9	151.4	152.4	143.7	136.8	135.6	135.6	134.8	138.0	134.1	130.2	122.1	-6.2	-21.6	
INORGANIC CHEM. NEC	2819	48.6	88.3	86.3	89.9	97.4	81.3	80.1	81.2	80.2	79.0	81.0	79.6	80.8	1.6	-7.1	
ACID AND FERT. MAT'L.S.		18.8	96.5	100.2	98.4	99.1	88.5	84.4	85.2	84.0	84.1	85.0	82.0	82.0	.1	-16.8	
ERDA		29.8	83.1	77.3	84.6	97.1	77.3	76.9	78.7	77.0	75.8	77.9	77.4	79.9	3.1	.3	
SYNTHETIC MATERIALS	282	12.1	193.6	200.3	195.6	192.0	186.8	174.6	182.6	174.8	171.6	177.3	187.9	177.5	-5.5	-10.0	
PLASTICS MATERIALS	2821	4.4	209.2	216.2	214.7	207.1	199.3	186.3	191.6	174.1	186.8	198.0	201.7	188.2	-6.7	-14.3	
OTHER SYNTHETICS	2822-4	7.7	185.1	192.2	186.2	183.5	178.9	168.8	175.1	175.8	164.0	166.7	177.9	175.7	-1.2	-7.4	
DRUGS	283	2.0	221.3	220.7	220.8	221.9	222.4	226.7	230.7	232.0	223.1	225.0	224.5	219.2	-2.4	-1.2	
SOAP AND TOILETRIES	284	1.0	151.6	159.5	149.4	159.2	147.5	148.2	147.8	152.6	148.8	143.1	140.6	140.9	.2	-4.0	
FARM CHEMICALS	287	2.7	174.9	175.0	170.2	182.2	173.2	163.8	165.4	167.2	161.4	162.8	159.7	160.0	.2	-6.2	
PETROLEUM PRODUCTS	29	22.3	182.3	185.6	181.2	181.3	181.4	178.5	184.4	181.2	174.9	179.5	171.8	170.8	-.6	-5.6	
RUBBER AND PLASTICS PROD.	30	10.8	182.9	181.6	185.2	189.1	175.6	170.9	171.4	166.3	173.9	172.6	173.2	169.3	-2.3	-8.7	
TIRES	301	3.2	110.6	112.0	111.4	114.0	105.1	101.3	101.5	98.4	104.2	101.3	100.1	96.8	-3.3	-14.2	
RUBBER PRODUCTS NEC	306	2.3	129.4	130.2	133.2	132.2	122.1	117.3	119.7	114.7	117.8	119.5	120.2	121.1	.7	-9.5	
PLASTICS PRODUCTS NEC	307	4.8	261.8	258.0	264.4	270.9	254.2	248.5	247.9	242.6	252.1	250.8	251.0	244.8	-2.5	-2.7	
LEATHER AND PRODUCTS	31	1.3	116.8	117.0	115.2	120.2	114.8	113.5	113.4	112.7	114.7	113.1	110.3	107.5	-2.5	-6.1	
SHOES	314	.6	97.0	98.9	94.6	99.2	95.1	97.6	93.2	99.6	99.1	94.1	91.4	89.8	-1.8	-4.1	
CLAY, GLASS, STONE PRODUCTS	32	20.8	148.0	151.6	150.0	148.5	142.3	138.1	139.5	136.7	141.3	136.3	137.3	131.3	-4.4	-12.4	
FLAT GLASS	321	1.2	113.6	112.3	114.2	116.8	110.9	101.9	108.0	101.0	102.5	102.2	101.8	97.3	-4.4	-15.2	
PRESSED AND BLOWN GLASS	322	3.5	206.0	211.6	208.3	208.8	195.8	197.1	196.5	191.9	200.9	198.5	196.8	189.9	-3.5	-8.3	
CEMENT	324	8.4	113.9	116.9	115.6	111.6	112.0	100.4	108.8	103.7	104.4	93.1	105.6	101.2	-4.2	-12.2	
STRUCTURAL CLAY PRODUCTS	325	1.3	100.8	102.7	103.3	104.2	93.5	83.9	91.7	85.1	83.8	82.7	79.8	77.3	-3.1	-25.2	
CONCRETE PRODUCTS	327	2.3	185.0	193.9	190.4	184.9	171.5	169.3	167.9	164.6	176.2	167.2	157.2	154.1	-2.0	-19.9	
PRIMARY METALS	33	132.0	121.4	125.5	124.5	123.0	112.6	100.9	109.5	102.4	102.8	97.4	94.6	88.4	-6.6	-29.1	
BASIC STEEL & MILL PROD.	331	54.4	107.1	110.9	111.0	108.5	97.9	89.5	93.8	89.2	93.0	86.4	87.8	77.0	-12.3	-31.5	
IRON & STEEL FOUNDRIES	332	5.9	199.8	203.3	204.2	210.8	181.7	167.2	176.2	172.0	166.1	163.5	153.2	139.5	-9.0	-30.2	
PRIMARY NONFERROUS METALS	333	59.5	121.6	126.6	125.3	122.3	112.2	95.9	109.5	100.8	95.8	91.1	85.8	86.5	.7	-31.4	
ALUMINUM	3334	53.6	117.1	124.4	120.5	116.9	106.8	88.6	103.2	93.5	88.5	83.8	77.5	78.3	1.0	-35.4	
NONFERROUS MILL PRODUCTS	335	8.4	116.7	115.8	115.3	119.6	116.7	108.7	121.5	106.2	111.1	108.7	113.4	100.8	-11.1	-11.0	
NONFERROUS FOUNDRIES	336	1.4	173.1	171.7	173.0	175.2	172.9	160.8	177.7	161.9	158.7	161.9	146.8	163.7	11.5	-5.9	
FABRICATED METAL PRODUCTS	34	14.8	163.2	162.8	162.6	167.6	160.2	155.5	159.5	154.6	156.7	155.3	152.5	157.5	3.3	-2.1	
METAL CANS	341	1.0	209.7	211.8	211.8	205.4	210.1	204.0	206.3	196.0	202.7	213.3	205.8	199.9	-4.1	-4.8	
HARDWARE	342	1.6	153.3	153.4	155.6	160.1	144.7	137.1	142.0	139.9	135.9	135.3	132.4	131.2	-.9	-14.5	
STRUCTURAL METAL PROD.	344	3.5	135.0	138.2	133.3	135.6	132.9	136.1	135.6	138.1	136.1	134.0	133.3	123.2	-7.6	-6.5	
FASTENERS	345	1.2	160.8	160.8	160.3	166.0	156.3	144.9	149.0	142.8	145.1	146.7	137.0	136.3	-.4	-14.1	
METAL STAMPINGS	346	3.1	150.2	143.3	148.2	160.0	149.6	136.7	152.4	137.3	136.4	136.3	132.3	130.9	-1.1	-11.6	
NONELECTRICAL MACHINERY	35	17.3	164.5	163.4	164.4	167.6	162.9	162.2	165.7	160.0	169.3	157.4	153.0	150.8	-1.5	-8.5	
ENGINES AND TURBINES	351	1.4	142.0	145.3	141.2	145.7	136.0	133.9	139.9	132.7	135.7	133.2	126.8	123.7	-2.5	-10.4	
FARM EQUIPMENT	352	1.2	112.0	125.3	114.9	110.1	98.6	97.7	97.7	98.1	101.5	93.4	80.3	87.8	9.3	-25.4	
CONSTRUCTION EQUIPMENT	353	3.0	183.5	178.6	181.9	188.8	184.8	168.7	190.1	182.7	162.8	160.6	156.9	154.5	-1.6	-16.0	
METALWORKING MACHINERY	354	2.8	131.9	130.1	131.8	138.0	128.0	127.0	129.0	126.6	126.7	127.6	125.0	120.1	-3.9	-8.4	
SPECIAL INDUSTRY MACH.	355	1.5	144.9	151.6	144.0	142.8	141.5	138.1	145.1	136.5	132.9	132.8	126.9	125.8	-.9	-11.5	
GENERAL INDUSTRIAL MACH.	356	2.7	148.5	149.0	148.7	151.4	144.8	140.7	142.6	139.2	140.9	141.9	141.4	139.4	-1.4	-5.5	
OFFICE AND COMPUTING MACH.	357	1.4	262.5	253.8	258.5	266.6	271.1	320.8	286.8	286.3	388.9	287.1	270.7	270.0	-.2	2.8	
SERVICE INDUSTRY MACH.	358	1.2	137.4	140.8	141.2	135.5	132.3	132.0	135.0	130.5	132.3	133.1	130.1	126.1	-3.1	-11.4	
ELECTRICAL MACHINERY	36	19.2	141.9	140.6	141.5	145.5	139.7	135.4	140.3	134.5	136.3	135.3	134.0	131.0	-2.3	-6.1	
ELECT. DISTRIBUTION EQ.	361	1.8	122.5	120.2	122.3	126.7	121.0	117.1	123.5	114.5	119.2	117.7	109.3	108.0	-1.1	-12.3	
ELECT. INDUST. APPARATUS	362	3.5	125.1	124.7	127.0	127.1	121.6	109.9	119.1	109.9	109.5	110.3	103.4	99.3	-4.0	-23.4	
HOME APPLIANCES	363	2.2	108.8	109.4	111.2	113.3	100.7	91.1	93.5	90.3	94.5	88.4	93.6	88.1	-5.9	-18.0	
LIGHTING & WIRING PROD.	364	1.5	144.5	144.1	144.1	149.7	140.6	143.1	137.8	143.0	147.7	138.6	136.5	133.8	-2.0	-6.9	
RADIO AND TV SETS	365	.8	124.7	128.8	124.3	124.9	121.3	122.5	121.0	123.0	126.3	118.2	117.5	112.9	-3.8	-7.0	
COMMUNICATION EQUIP.	366	3.9	153.8	153.3	151.9	158.8	151.1	143.7	148.9	144.2	140.3	146.6	154.6	156.2	1.0	3.7	
ELECTRONIC COMPONENTS	367	4.2	178.9	175.6	176.3	181.4	182.1	187.9	189.7	184.3	188.0	191.5	190.1	187.0	-1.7	8.9	
TRANSPORTATION EQUIPMENT	37	23.6	121.9	124.0	124.3	126.0	113.2	110.7	111.2	107.1	109.7	115.2	112.6	113.4	.7	-6.8	
MOTOR VEHICLES AND PARTS	371	12.8	124.6	126.9	128.7	130.4	112.6	107.5	107.8	102.2	106.6	113.8	111.3	114.9	3.2	-8.2	
AIRCRAFT AND PARTS	372	8.4	101.0	103.6	100.9	101.6	98.2	97.6	98.5	95.6	96.8	100.4	98.6	97.1	-1.6	-3.0	
SHIPS AND BOATS	373	1.3	159.1	160.5	156.2	162.4	157.7	164.9	162.4	167.0	164.2	163.5	146.6	136.6	-6.9	-12.5	
INSTRUMENTS	38	3.1	170.7	168.9	168.7	173.1	172.4	178.9	178.4	179.2	178.2	179.2	179.3	176.5	-1.6	5.6	
PHOTOGRAPHIC EQUIPMENT	386	1.4	168.2	167.6	166.4	169.5	169.8	177.0	177.0	177.0	174.0	180.1	179.7	163.8	-8.8	0.0	
MISC. MANUFACTURES	39	2.5	158.2	159.4	158.7	161.4	153.3	157.8	153.3	156.0	157.9	159.5	150.0	149.9	-.1	-5.4	
SUPPLEMENTARY GROUPINGS																	
TOTAL, EXCLUDING ERDA		530.6	140.2	142.7	141.5	142.4	134.3	129.1	132.1	128.9	130.3	128.1	126.9	123.1	-3.0	-12.6	
ELECTRIC UTILITIES		462.6	149.9	151.7	151.0	154.1	142.8	137.9	140.8	137.0	138.6	138.1	136.2	132.0	-3.1	-11.9	
SALES TO INDUSTRY		457.1	150.0	151.9	151.0	154.3	142.9	137.9	140.7	137.0	138.7	138.1	136.1	131.9	-3.1	-12.1	
OWN USE		5.5		134.8													
INDUSTRIAL GENERATION		102.9	84.0	84.7	84.7	83.5	83.0	78.7	82.8	80.4	79.8	76.0	75.6	75.5	-.2	-11.3	
SALES TO ELECTRIC UTILITIES		5.1		88.3													
OWN USE		97.8	82.9	84.8	83.3	82.6	81.1	78.5	80.6	80.3	79.8	75.5	74.2	74.0	-.3	-11.9	

P--PRELIMINARY

NOTE: TOTALS EXCLUDE INDUSTRIAL GENERATION POWER SALES TO ELECTRIC UTILITIES. ERDA (PART OF SIC 2819) IS THE FORMER ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION. ERDA USE DATA ARE INCLUDED IN TOTAL MATERIALS, ALTHOUGH EXCLUDED FROM THE ENERGY COMPONENT. ALL INDEXES ARE COMPILED FROM

Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BILL. KWH. 1967	1981 AVG.	1981 Q 1	Q 2	Q 3	Q 4	1982 Q 1	1981 DEC	1982 JAN	FEB	MAR	APR	MAY	PERCENT CHG. FROM PREV. MO. (P)	PERCENT CHG. FR. YR. (P)
CHEMICALS AND PRODUCTS	28	116.8	128.8	128.3	131.3	131.3	124.1	118.0	120.9	119.1	113.9	120.8	120.7	119.8	-8	-9.9
BASIC CHEMICALS	281	96.4	113.8	113.8	116.2	115.6	109.6	104.3	107.7	106.2	100.0	106.8	104.5	104.6	0.0	-11.3
ALKALIES AND CHLORINE	2812	12.3	149.5	149.5	155.2	151.7	141.4	135.0	135.4	130.5	134.9	139.8	140.6	129.1	-8.2	-16.4
BASIC ORGANIC CHEM. NEC	2818	24.8	145.9	145.8	150.4	147.5	139.8	130.7	136.9	133.3	128.9	129.9	128.2	120.0	-6.4	-21.6
INORGANIC CHEM. NEC	2819	48.6	88.3	89.0	88.8	89.4	86.1	82.6	85.3	84.7	76.9	86.1	82.6	84.3	2.1	-7.1
ACID AND FERT. MAT'L'S.	282	18.8	96.5	99.5	99.6	97.9	89.0	83.9	85.9	85.1	78.8	87.7	83.2	84.0	1.0	-16.8
ERDA	2822-4	29.8	83.1	82.2	82.0	84.0	84.3	81.8	85.0	84.5	75.8	85.1	82.2	84.4	2.8	.3
SYNTHETIC MATERIALS	282	12.1	193.6	195.0	198.8	198.4	182.1	170.0	173.1	170.8	165.8	173.4	187.4	180.2	-3.8	-10.0
PLASTICS MATERIALS	2821	4.4	209.2	209.5	216.3	212.7	198.4	180.4	188.8	172.4	177.9	191.0	202.9	186.3	-8.2	-14.3
OTHER SYNTHETICS	2822-4	7.7	185.1	187.1	189.4	190.6	173.3	164.4	164.6	170.0	159.2	163.9	179.0	176.9	-1.1	-7.4
DRUGS	283	2.0	221.3	202.3	221.8	241.3	219.8	207.8	210.4	208.4	205.9	209.0	214.9	216.4	.7	-1.2
SOAP AND TOILETRIES	284	1.0	151.6	146.1	150.4	161.8	148.2	143.8	142.9	142.7	144.5	144.1	140.2	143.0	2.0	-4.0
FARM CHEMICALS	287	2.7	174.9	173.4	176.9	177.6	171.7	162.5	164.7	161.9	156.4	169.2	169.3	167.4	-1.1	-6.2
PETROLEUM PRODUCTS	29	22.3	182.3	179.6	179.2	187.9	182.6	172.9	183.0	179.4	168.1	171.1	166.1	167.4	.8	-5.6
RUBBER AND PLASTICS PROD.	30	10.8	182.9	179.6	186.5	187.6	177.7	169.1	165.6	156.0	175.8	175.6	172.5	169.4	-1.8	-8.7
TIRES	301	3.2	110.6	111.4	112.1	113.7	105.2	100.9	97.4	94.6	104.5	103.6	99.7	95.7	-4.0	-14.2
RUBBER PRODUCTS NEC	306	2.3	129.4	129.1	132.6	130.8	125.0	116.4	118.0	108.7	120.5	119.9	119.2	119.2	0.0	-9.5
PLASTICS PRODUCTS NEC	307	4.8	261.8	254.1	267.4	268.1	257.8	244.9	239.5	224.2	255.1	255.3	253.0	246.7	-2.5	-7.2
LEATHER AND PRODUCTS	31	1.3	116.8	114.4	115.8	121.6	115.3	111.0	110.3	107.1	114.3	111.7	108.7	106.9	-1.7	-6.1
SHOES	314	.6	97.0	96.3	94.6	102.1	94.8	95.1	90.1	94.1	97.8	93.4	89.3	88.6	-8	-4.1
CLAY, GLASS, STONE PRODUCTS	32	20.8	148.0	142.6	152.6	152.4	144.5	129.8	136.7	127.8	130.8	130.9	137.4	134.4	-2.2	-12.4
FLAT GLASS	321	1.2	113.6	109.7	114.2	119.2	111.2	99.5	103.4	101.0	97.9	99.6	101.1	97.4	-3.6	-15.2
PRESSED AND BLOWN GLASS	322	3.5	206.0	205.5	210.4	211.6	196.6	191.5	188.4	180.8	194.9	198.7	196.8	191.8	-2.6	-8.3
CEMENT	324	8.4	113.9	103.4	119.5	117.6	114.9	88.7	107.7	93.7	87.0	85.5	105.7	107.6	1.7	-12.2
STRUCTURAL CLAY PRODUCTS	325	1.3	100.8	102.3	103.7	102.6	94.8	83.6	92.1	85.5	83.5	81.7	81.1	76.3	-5.9	-25.2
CONCRETE PRODUCTS	327	2.3	185.0	185.1	192.5	187.7	174.6	161.6	163.9	156.7	167.7	160.5	157.5	154.7	-1.8	-19.9
PRIMARY METALS	33	132.0	121.4	126.6	127.1	120.0	112.0	101.7	108.5	103.7	100.4	100.9	96.5	91.9	-4.8	-29.1
BASIC STEEL & MILL PROD.	331	54.4	107.1	113.4	114.2	104.5	96.5	91.4	92.7	91.6	92.1	90.7	90.8	80.2	-11.7	-31.5
IRON & STEEL FOUNDRIES	332	5.9	199.8	204.4	211.5	198.4	184.8	168.2	172.1	163.2	173.8	167.5	158.9	145.3	-8.6	-30.2
PRIMARY NONFERROUS METALS	333	59.5	121.6	126.3	126.6	121.4	112.2	95.6	109.5	101.9	91.4	93.5	86.1	89.0	3.4	-31.4
ALUMINUM	3334	53.6	117.1	122.8	121.2	117.6	106.7	87.5	103.4	94.8	83.6	84.0	77.0	80.3	4.3	-35.4
NONFERROUS MILL PRODUCTS	335	8.4	116.7	117.2	118.3	116.3	115.2	110.0	115.6	106.0	110.0	114.0	115.2	104.9	-8.9	-11.0
NONFERROUS FOUNDRIES	336	1.4	173.1	175.9	174.5	169.2	173.0	164.7	169.7	162.1	164.8	167.1	150.3	162.3	8.0	-5.9
FABRICATED METAL PRODUCTS	34	14.8	163.2	162.6	163.8	166.0	160.6	155.4	154.8	149.0	159.4	157.7	152.8	158.5	3.7	-2.1
METAL CANS	341	1.0	209.7	206.8	211.7	217.6	202.6	199.2	190.2	188.9	200.1	208.6	204.4	199.5	-2.4	-4.8
HARDWARE	342	1.6	153.3	154.3	156.1	155.7	147.3	137.8	139.6	136.6	138.3	138.5	132.7	131.1	-1.2	-14.5
STRUCTURAL METAL PROD.	344	3.5	135.0	139.0	133.5	132.9	134.5	136.8	133.7	134.6	139.4	136.4	133.2	124.3	-6.7	-6.5
FASTENERS	345	1.2	160.8	163.1	162.2	162.0	156.1	146.9	143.9	136.5	153.1	151.2	139.1	136.9	-1.6	-14.1
METAL STAMPINGS	346	3.1	150.2	142.9	150.3	157.6	150.0	136.2	144.2	128.8	139.6	140.3	134.1	132.2	-1.4	-11.6
NONELECTRICAL MACHINERY	35	17.3	164.5	159.9	164.7	171.3	162.4	158.7	157.1	151.6	168.7	155.8	150.7	148.8	-1.3	-8.5
ENGINES AND TURBINES	351	1.4	142.0	143.0	142.7	145.6	136.5	131.9	130.8	126.4	134.5	134.7	125.9	125.0	-7	-10.4
FARM EQUIPMENT	352	1.2	112.0	123.6	119.3	106.7	98.6	96.5	92.7	90.9	103.6	95.1	82.0	87.9	7.3	-25.4
CONSTRUCTION EQUIPMENT	353	3.0	183.5	177.4	181.7	189.0	185.7	167.2	184.4	173.0	167.9	160.7	158.3	151.1	-4.6	-16.0
METALWORKING MACHINERY	354	2.8	131.9	131.2	131.6	137.1	127.8	128.1	124.0	123.7	130.2	130.3	125.0	118.4	-5.2	-8.4
SPECIAL INDUSTRY MACH.	355	1.5	144.9	149.6	144.7	144.0	141.3	132.2	139.2	131.1	134.2	131.4	125.4	125.8	.4	-11.5
GENERAL INDUSTRIAL MACH.	356	2.7	148.5	146.6	149.2	153.0	145.1	138.4	136.1	132.1	141.9	141.2	140.3	138.3	-1.4	-5.5
OFFICE AND COMPUTING MACH.	357	1.4	262.5	237.6	255.2	287.5	269.8	300.7	266.7	264.6	369.1	268.5	257.7	260.3	1.0	2.8
SERVICE INDUSTRY MACH.	358	1.2	137.4	134.4	143.5	142.5	129.1	126.1	123.3	119.8	129.4	129.0	126.8	126.8	0.0	-11.4
ELECTRICAL MACHINERY	36	19.2	141.9	135.5	142.4	150.0	139.6	130.5	132.2	127.2	132.1	132.0	130.9	131.9	.7	-6.1
ELECT. DISTRIBUTION EQ.	361	1.8	122.5	116.5	123.6	130.1	119.8	113.5	114.0	109.0	116.0	115.7	110.2	106.6	-3.2	-12.3
ELECT. INDUST. APPARATUS	362	3.5	125.1	122.9	128.8	127.6	121.0	108.4	115.6	107.6	107.3	110.2	103.2	101.0	-2.2	-23.4
HOME APPLIANCES	363	2.2	108.8	108.1	112.4	114.9	99.7	89.9	86.2	86.7	93.9	89.0	91.7	89.6	-2.2	-18.0
LIGHTING & WIRING PROD.	364	1.5	144.5	142.7	147.8	146.0	141.5	141.7	131.1	133.9	149.0	142.3	138.0	136.2	-1.3	-6.9
RADIO AND TV SETS	365	.8	124.7	119.3	123.5	136.0	120.2	113.4	112.0	113.9	116.7	109.6	110.8	110.7	-1	-7.0
COMMUNICATION EQUIP.	366	3.9	153.8	143.4	151.2	167.2	153.3	134.5	139.7	132.3	131.6	139.4	147.2	154.0	4.6	3.7
ELECTRONIC COMPONENTS	367	4.2	178.9	165.5	176.4	192.9	180.5	177.2	177.2	172.3	177.9	181.3	181.4	186.6	2.9	8.9
TRANSPORTATION EQUIPMENT	37	23.6	121.9	120.8	125.7	126.4	114.6	107.8	106.1	100.2	109.5	113.8	112.4	114.6	1.9	-6.8
MOTOR VEHICLES AND PARTS	371	12.8	124.6	123.9	131.2	128.8	114.7	105.0	103.8	95.5	106.8	112.8	111.7	117.3	5.0	-8.2
AIRCRAFT AND PARTS	372	8.4	101.0	99.2	100.8	106.5	97.6	93.5	91.8	89.0	93.4	98.0	96.9	96.5	-5	-3.0
SHIPS AND BOATS	373	1.3	159.1	163.1	154.3	161.9	157.2	167.6	156.4	164.5	171.0	167.3	145.6	131.4	-9.8	-12.5
INSTRUMENTS	38	3.1	170.7	158.4	168.1	185.2	171.3	167.7	167.3	166.1	166.2	170.8	169.3	175.4	3.6	5.6
PHOTOGRAPHIC EQUIPMENT	386	1.4	168.2	158.0	167.3	178.4	169.1	167.0	169.2	167.6	159.9	173.4	170.3	167.4	-1.7	0.0
MISC. MANUFACTURES	39	2.5	158.2	153.5	157.9	167.4	153.9	152.0	145.6	145.0	155.2	155.6	148.3	146.1	-1.5	-5.4
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	140.2	140.5	142.7	142.8	134.8	127.1	130.0	126.7	126.6	128.0	126.6	124.7	-1.5	-12.6
ELECTRIC UTILITIES		462.6	149.9	149.6	152.4	153.2	144.2	136.0	138.8	134.6	135.7	137.8	136.6	134.1	-1.8	-11.9
SALES TO INDUSTRY		457.1	150.0	149.6	152.5	153.5	144.3	135.8	138.6	134.1	135.5	137.9	136.5	134.0	-1.8	-12.1
OWN USE		5.5		149.2												
INDUSTRIAL GENERATION		102.9	84.0	83.5	84.4	84.3	83.6	77.7	83.6	81.8	75.4	75.8	73.8	75.5	2.3	-11.3
SALES TO ELECTRIC UTILITIES		5.1		75.0												
OWN USE		97.8	82.9	84.0	84.0	82.6	81.1	77.8	80.2	81.6	75.6	76.2	74.0	75.4	1.9	-11.9

P--PRELIMINARY

Explanatory Note

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

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

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

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

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

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

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

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

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

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