FEDERAL RESERVE

Industrial Production

INDUSTRIAL PRODUCTION

G.12.3

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Industrial production edged down in December by an estimated 0.1 percent after large declines in the preceding three months. Sizable increases occurred in the output of automotive products and defense and space equipment, but there was continuing weakness in the production of home goods, business equipment, construction supplies, and durable materials. For November the decline in the production index is now estimated at 0.7 percent and for October at 1.1 percent, reflecting downward revisions from the previously published declines of 0.4 and 0.8 percent, respectively. At 134.7 percent of the 1967 average, the December index was 12.5 percent below its latest high in July 1981. Annual industrial output in 1982 was about 8 percent below 1981, putting it at about the same level as in 1977.

Market Groupings

Output of consumer goods increased 0.2 percent in December, reflecting a sharp increase in the production of autos and light trucks. Automobiles were assembled at an annual rate of 5.1 million units--up about 13 percent from November. The auto industry has scheduled a further increase for January in response to improved sales that diminished stocks. However, production of home goods and nondurable consumer goods contracted further in December. Output of business equipment declined 0.3 percent, a smaller reduction than in most months of 1982. There were continued contractions in the output of manufacturing and power equipment, but these were partially offset by an increase in oil and gas well drilling. Output of defense and space equipment, which had been rising moderately during most of 1982, increased significantly for the third consecutive month. Production of intermediate goods--construction and business supplies--fell further during December.

INDUSTRIAL PRODUCTION: MAJOR MARKET GROUPINGS
(Seasonally Adjusted)

Indexes, 1967=100	1982		Percentage change					
	Nov. (p)	Dec. (e)	Aug.	Sept.	Oct.	Nov.	Dec.	Dec. Dec. 81
			From preceding month					
Total	134.8	134.7	-.3	-.8	-1.1	-.7	-.1	-6.1
Products, total	138.6	138.7	-.4	-.8	-1.0	-.6	.1	-5.1
Final Products	137.7	138.1	-.9	-.9	-1.0	-.7	.3	-5.6
Consumer Goods	141.1	141.4	-1.2	-.5	-.8	-.8	.2	-.4
Durable	124.9	127.3	-3.2	-1.2	-3.4	-1.6	1.9	3.3
Nondurable	147.6	147.0	-.3	-.3	.1	-.5	-.4	-1.7
Business Equipment	144.6	144.1	-.6	-2.2	-2.7	-1.2	-.3	-19.5
Defense and Space	113.6	116.0	.0	.0	2.1	1.6	2.1	8.4
Intermediate Products	141.9	141.0	1.3	-.7	-.9	-.4	-.6	-3.4
Construction Supplies	123.2	122.2	2.4	-1.3	-1.5	-.3	-.8	-3.8
Materials	128.9	128.4	-.2	-.6	-1.3	-1.1	-.4	-7.6

p--preliminary e--estimate

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Materials output declined 0.4 percent--a somewhat smaller reduction than occurred in recent months. Production of durable materials decreased 0.6 percent, with continued declines in metals. Output of nondurable materials was unchanged overall and energy materials declined.

Industry Groupings

Manufacturing production edged down in December with little overall change shown in either durable or nondurable manufacturing. Mining activity increased, but output of electric and gas utilities was reduced in part reflecting milder than usual weather in some areas of the country.

INDUSTRIAL PRODUCTION: MAJOR INDUSTRY GROUPINGS
(Seasonally Adjusted)

Indexes, 1967=100	1982		Percentage change					
	Nov. (p)	Dec. (e)	Aug.	Sept.	Oct.	Nov.	Dec.	Dec. Dec. 81
			From preceding month					
Manufacturing	134.0	133.9	-.1	-.7	-1.5	-.7	-.1	-5.7
Durable	119.3	119.3	-.8	-1.1	-2.4	-1.0	.0	-9.1
Nondurable	155.2	155.1	.8	-.1	-.4	-.5	-.1	-1.5
Mining	115.9	118.0	-2.7	-1.9	1.5	-.4	1.8	-17.3
Utilities	167.1	165.5	.5	-.6	.2	-.4	-1.0	-1.6

p--preliminary e--estimate

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FEDERAL RESERVE

Industrial Production

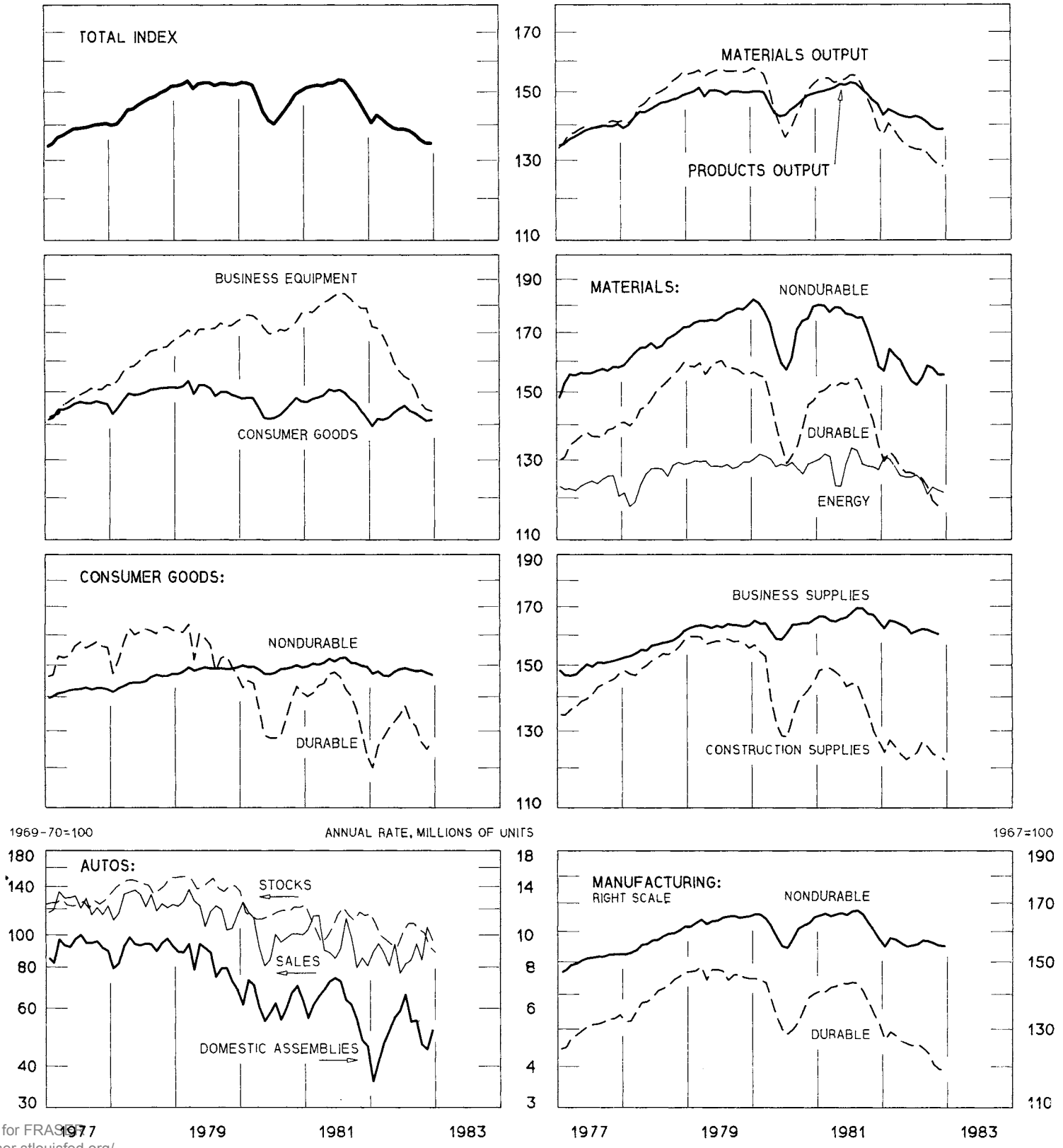

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Table 1A

INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967 PROPORTION	1981 AVG.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	151.0	143.4	140.7	142.9	141.7	140.2	139.2	138.7	138.8	138.4	137.3	135.8	134.8	134.7
PRODUCTS, TOTAL	60.71	150.6	146.2	142.9	144.6	143.7	142.9	142.3	142.1	142.6	142.0	140.8	139.4	138.6	138.7
FINAL PRODUCTS	47.82	149.5	146.3	142.8	144.1	143.3	142.6	142.2	142.1	142.5	141.2	140.0	138.6	137.7	138.1
CONSUMER GOODS	27.68	147.9	142.0	139.6	141.8	141.5	142.1	143.6	144.8	145.8	144.1	143.4	142.2	141.1	141.4
EQUIPMENT	20.14	151.8	152.1	147.2	147.3	145.9	143.4	140.4	138.4	138.0	137.3	135.2	133.5	133.0	133.6
INTERMEDIATE PRODUCTS	12.89	154.4	145.9	143.4	146.3	145.2	143.7	142.6	141.9	142.8	144.7	143.7	142.4	141.9	141.0
MATERIALS	39.29	151.6	139.0	137.2	140.4	138.5	136.2	134.3	133.5	133.0	132.8	132.0	130.3	128.9	128.4
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	140.5	123.2	120.1	125.9	128.1	130.7	132.6	134.6	137.3	132.9	131.3	126.9	124.9	127.3
AUTOMOTIVE PRODUCTS	2.83	137.9	119.2	109.2	117.5	125.0	129.9	138.9	143.0	149.7	135.5	135.5	124.0	121.4	129.8
AUTOS & UTILITY VEHICLES	2.03	111.2	87.5	71.6	82.0	93.6	100.5	111.8	117.1	127.7	107.1	105.8	89.6	86.9	99.4
AUTOS, TOTAL	1.90	103.4	78.1	61.3	70.5	79.8	87.2	96.1	101.9	114.6	93.3	94.3	79.5	77.7	87.9
AUTO PARTS & ALLIED GOODS	.80	205.6	199.7	204.4	207.8	204.5	204.6	207.6	208.6	205.4	207.6	210.7	211.1	209.0	207.0
HOME GOODS	5.06	142.0	125.4	126.3	130.6	129.9	131.1	129.1	129.9	130.4	131.4	128.9	128.6	126.9	125.9
APPLIANCES, AIR COND & TV	1.40	119.6	85.7	100.6	103.5	97.0	102.7	100.5	106.4	102.7	104.5	99.4	106.1	104.5	100.1
APPLIANCES AND TV	1.33	121.2	86.6	101.6	104.1	97.4	103.1	101.5	108.8	106.1	108.6	104.1	110.5	108.1	
CARPETING AND FURNITURE	1.07	158.0	144.4	137.9	147.8	151.3	151.8	145.9	149.0	151.4	152.5	153.3	151.9	150.0	
MISC. HOME GOODS	2.59	147.4	139.1	135.4	138.1	138.9	138.0	137.7	134.9	136.7	137.2	134.9	131.1	129.5	130.8
NONDURABLE CONSUMER GOODS	19.79	150.9	149.5	147.4	148.1	146.8	146.6	147.9	148.8	149.1	148.6	148.2	148.3	147.6	147.0
CLOTHING	4.29	119.8	113.8												
CONSUMER STAPLES	15.50	159.5	159.4	158.9	159.2	158.1	158.3	159.0	159.9	159.7	159.4	158.8	158.9	157.9	157.2
CONSUMER FOODS & TOBACCO	8.33	150.3	150.9	150.0	151.1	149.6	148.1	149.9	150.9	149.9	149.6	148.6	149.5		
NONFOOD STAPLES	7.17	170.0	169.3	169.1	168.7	168.0	170.0	169.5	170.4	171.2	170.8	170.7	169.8	169.1	168.4
CONSUMER CHEMICAL PROD	2.63	223.1	220.1	220.1	218.2	217.8	218.3	216.6	219.8	222.3	222.4	221.7	220.5	220.9	
CONSUMER PAPER PRODUCTS	1.92	127.9	127.2	127.0	130.2	127.8	128.7	126.7	126.7	128.1	129.4	128.2	125.9	126.6	
CONSUMER ENERGY PROD	2.62	147.7	149.1	148.9	147.2	147.6	151.9	153.6	152.8	151.4	149.3	150.6	151.1	148.2	
RESIDENTIAL UTILITIES	1.45	166.3	167.5	172.3	171.6	170.4	174.5	173.7	171.1	167.7	169.7	169.5	169.1		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	181.1	179.0	172.2	171.6	169.0	164.9	159.9	156.7	154.9	153.9	150.5	146.4	144.6	144.1
INDUSTRIAL EQUIPMENT	6.77	166.4	164.0	158.1	155.9	151.2	145.9	138.9	134.0	131.3	128.4	123.8	117.7	115.8	115.5
BUILDING AND MINING EQUIP	1.44	286.2	294.6	289.0	274.9	256.9	242.2	224.4	209.0	200.4	190.8	182.1	166.8	163.8	170.3
MANUFACTURING EQUIPMENT	3.85	127.9	122.0	116.9	116.8	116.3	114.0	109.7	107.5	106.0	104.4	101.6	98.0	96.4	94.0
POWER EQUIPMENT	1.47	149.7	145.5	137.4	141.1	139.0	134.8	131.5	129.9	129.6	130.1	124.7	121.0	119.7	118.1
COM'L, TRANSIT, FARM EQ	5.86	198.0	196.3	188.5	189.9	189.5	186.9	184.1	183.0	182.2	183.3	181.4	179.5	177.9	177.0
COMMERCIAL EQUIPMENT	3.26	258.7	262.9	256.1	256.4	257.8	253.1	247.7	247.5	248.8	253.5	254.0	251.7	250.8	249.1
TRANSIT EQUIPMENT	1.93	125.4	117.5	109.0	110.4	110.5	110.9	110.9	108.3	106.3	102.0	95.5	93.2	91.8	93.1
FARM EQUIPMENT	.67	112.0	98.9	88.4	95.1	84.9	83.5	85.8	84.1	76.9	75.8	76.1	76.8	70.9	
DEFENSE AND SPACE EQUIPMENT	7.51	102.7	107.0	105.2	106.5	107.0	107.2	107.7	107.6	109.5	109.5	109.5	111.8	113.6	116.0
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	141.9	127.0	124.2	127.5	125.6	123.6	122.2	123.1	124.1	127.1	125.5	123.6	123.2	122.2
BUSINESS SUPPLIES	6.47	166.7	164.6	162.4	165.1	164.6	163.7	162.8	160.6	161.4	162.1	161.8	161.0	160.3	
COMMERCIAL ENERGY PRODUCTS	1.14	176.4	177.3	181.7	184.1	184.5	183.5	180.3	178.3	179.8	178.1	179.2	180.4	180.7	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	149.1	134.0	129.7	132.4	130.7	128.1	126.6	126.6	126.0	125.1	123.0	119.3	118.0	117.3
DURABLE CONSUMER PARTS	4.58	114.5	92.9	86.9	92.2	94.1	94.7	98.9	103.1	103.8	101.0	97.1	91.4	90.6	92.5
EQUIPMENT PARTS	5.44	191.2	183.3	177.2	180.1	177.5	173.9	170.0	168.3	166.1	164.1	158.3	155.5	155.6	154.4
DURABLE MATERIALS NEC	10.34	142.3	126.1	123.6	125.1	122.2	118.8	116.1	115.1	114.8	115.4	115.8	112.6	110.4	108.8
BASIC METAL MATERIALS	5.57	112.0	94.8	94.5	94.3	88.6	82.3	79.4	77.4	75.7	76.1	77.7	74.1	71.9	
NONDURABLE GOODS MATERIALS	10.47	174.6	158.3	156.8	164.2	162.0	160.3	156.6	153.5	152.3	154.5	158.5	157.7	155.5	155.5
TEXTILE, PAPER, & CHEM MAT	7.62	181.4	161.9	159.1	167.9	166.6	164.4	160.4	156.7	155.3	157.7	162.2	160.9	159.3	159.6
TEXTILE MATERIALS	1.85	113.0	102.0	97.3	102.2	104.5	104.5	101.8	99.1	99.6	103.2	103.3	104.9	103.5	
PAPER MATERIALS	1.62	150.6	141.2	143.2	148.5	146.7	143.5	141.8	140.7	142.1	146.6	148.9	149.1	148.1	
CHEMICAL MATERIALS	4.15	224.0	196.8	193.0	204.9	202.2	199.3	193.9	188.7	185.4	186.5	193.7	190.6	188.7	
CONTAINERS, NONDURABLE	1.70	169.3	161.9	162.4	166.7	161.3	159.8	157.2	158.5	158.1	162.8	167.3	164.9	159.9	
NONDURABLE MATERIALS NEC	1.14	137.4	128.6	132.4	136.0	132.4	134.2	130.6	124.8	123.4	120.1	121.1	125.4	123.6	
ENERGY MATERIALS	8.48	129.0	127.4	130.9	130.3	128.2	125.8	125.4	125.4	126.0	124.5	121.0	122.7	122.0	121.4
PRIMARY ENERGY	4.65	115.0	115.9	119.2	119.5	119.2	117.3	116.9	116.6	117.2	113.8	111.1	114.4	112.5	
CONVERTED FUEL MATERIALS	3.82	145.9	141.4	145.1	143.4	139.1	136.1	135.7	136.0	136.7	137.4	133.0	132.8	133.4	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	131.8	120.1	117.0	120.1	118.9	118.9	119.5	120.2	121.4	121.3	120.1	120.1	119.3	118.8
ENERGY, TOTAL	12.23	137.4	136.7	139.5	138.9	137.6	136.7	136.5	136.2	136.4	134.8	132.7	134.2	133.0	132.0
PRODUCTS	3.76	156.4	157.7	158.8	158.4	158.8	161.5	161.7	160.5	160.0	158.0	159.3	160.0	158.1	
MATERIALS	8.48	129.0	127.4	130.9	130.3	128.2	125.8	125.4	125.4	126.0	124.5	121.0	122.7	122.0	121.4

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

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Table 1B

INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967 PROPORTION	1981 AVG.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	151.0	139.1	136.6	142.7	142.0	139.4	138.5	141.8	136.2	140.5	141.2	138.8	134.9	130.5
PRODUCTS, TOTAL	60.71	150.6	140.7	137.7	143.6	143.0	140.8	140.7	145.4	141.4	145.6	146.7	143.5	138.6	133.3
FINAL PRODUCTS	47.82	149.5	141.1	138.1	143.8	143.0	140.5	140.3	145.2	140.8	144.6	145.8	142.6	137.7	132.8
CONSUMER GOODS	27.68	147.9	134.3	134.1	140.9	141.0	140.2	141.1	148.2	143.3	149.4	151.0	147.8	140.5	133.4
EQUIPMENT	20.14	151.8	150.6	143.7	147.7	145.7	140.9	139.1	141.0	137.4	137.9	138.6	135.5	133.8	131.9
INTERMEDIATE PRODUCTS	12.89	154.4	139.3	136.3	143.2	143.2	142.1	142.2	146.3	143.5	149.6	150.1	146.6	141.7	135.4
MATERIALS	39.29	151.6	136.7	135.0	141.5	140.3	137.2	135.3	136.3	128.3	132.5	132.6	131.6	129.1	126.2
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	140.5	116.7	115.4	127.9	131.6	134.2	134.8	139.6	126.0	128.5	134.0	134.4	126.7	119.7
AUTOMOTIVE PRODUCTS	2.83	137.9	109.6	107.1	121.5	133.1	138.0	145.9	151.9	129.8	120.2	131.7	133.1	125.2	118.1
AUTOS & UTILITY VEHICLES	2.03	111.2	74.9	69.9	85.5	104.7	112.6	123.9	131.3	104.8	84.2	97.1	99.1	91.3	83.5
AUTOS, TOTAL	1.90	103.4	67.3	59.9	73.2	90.0	98.2	108.6	114.7	92.1	72.6	85.2	87.8	82.3	74.1
AUTO PARTS & ALLIED GOODS	.80	205.6	197.7	201.6	212.9	205.4	202.4	201.7	204.4	193.1	211.6	219.6	219.4	211.1	205.9
HOME GOODS	5.06	142.0	120.7	120.1	131.5	130.8	132.0	128.6	132.7	123.9	133.1	135.2	135.1	127.6	120.6
APPLIANCES, AIR COND & TV	1.40	119.6	72.2	96.6	109.5	102.4	111.7	103.6	110.3	93.7	101.5	103.9	116.1	101.4	84.4
APPLIANCES AND TV	1.33	121.2	73.3	96.8	109.2	100.2	109.9	103.0	112.4	97.1	106.5	109.4	121.5	105.4	
CARPETING AND FURNITURE	1.07	158.0	143.8	132.1	151.2	154.4	150.6	143.4	149.4	135.8	153.6	161.8	159.5	153.1	
MISC. HOME GOODS	2.59	147.4	137.5	127.8	135.4	136.5	135.4	136.0	138.0	135.4	141.8	141.2	135.3	131.3	129.2
NONDURABLE CONSUMER GOODS	19.79	150.9	141.3	141.5	146.0	144.7	142.5	143.6	151.7	150.2	157.8	157.8	153.1	146.1	138.8
CLOTHING	4.29	119.8	97.9												
CONSUMER STAPLES	15.50	159.5	153.3	153.9	155.8	154.1	152.3	153.2	162.1	163.6	169.8	169.3	163.8	156.8	150.9
CONSUMER FOODS & TOBACCO	8.33	150.3	143.4	141.6	146.5	146.6	144.4	146.8	153.4	148.8	158.3	159.6	157.7		
NONFOOD STAPLES	7.17	170.0	164.8	168.1	166.6	162.7	161.5	160.6	172.2	180.8	183.3	180.6	170.9	165.3	163.9
CONSUMER CHEMICAL PROD	2.63	223.1	208.2	203.7	207.0	208.4	209.6	211.5	230.8	236.9	235.9	238.5	229.5	220.0	
CONSUMER PAPER PRODUCTS	1.92	127.9	120.7	121.3	126.1	123.2	124.0	123.2	127.7	134.2	141.4	137.0	130.4	125.1	
CONSUMER ENERGY PROD	2.62	147.7	153.5	166.5	155.8	145.9	140.6	137.0	146.1	158.6	161.1	154.3	141.8	139.7	
RESIDENTIAL UTILITIES	1.45	166.3	170.2	202.0	187.4	169.8	158.5	146.8	158.0	180.5	189.2	175.6	154.6		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	181.1	175.7	166.7	172.2	168.5	161.5	157.8	160.2	154.7	155.3	155.9	149.7	145.2	140.4
INDUSTRIAL EQUIPMENT	6.77	166.4	163.5	154.2	156.8	151.2	143.8	136.8	135.4	129.4	128.7	127.0	120.3	117.1	114.6
BUILDING AND MINING EQUIP	1.44	286.2	300.6	282.9	276.3	254.8	238.1	219.9	208.2	197.5	191.4	186.7	170.5	166.7	172.0
MANUFACTURING EQUIPMENT	3.85	127.9	119.4	114.0	118.7	117.0	112.6	107.9	108.9	104.4	104.9	104.4	99.7	97.3	92.0
POWER EQUIPMENT	1.47	149.7	144.5	133.2	139.1	138.9	132.8	130.6	133.3	127.9	129.5	127.8	124.8	120.5	117.2
COM'L, TRANSIT, FARM EQ	5.86	198.0	189.9	181.2	190.0	188.4	181.9	182.1	188.9	183.9	186.0	189.3	183.6	177.6	170.3
COMMERCIAL EQUIPMENT	3.26	258.7	253.6	243.4	252.0	250.9	243.8	242.7	255.4	258.0	264.9	268.0	257.3	250.9	238.7
TRANSIT EQUIPMENT	1.93	125.4	115.2	109.2	115.3	117.1	110.9	112.6	111.2	98.4	94.1	94.4	94.9	92.3	91.3
FARM EQUIPMENT	.67	112.0	95.0	85.6	102.8	90.0	85.3	87.0	88.7	69.5	66.9	80.0	80.3	66.8	
DEFENSE AND SPACE EQUIPMENT	7.51	102.7	108.4	104.9	106.7	107.5	106.2	107.8	108.7	108.3	108.7	109.6	111.8	114.7	117.5
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	141.9	120.3	116.5	125.8	125.1	125.1	124.4	128.0	122.7	127.7	128.9	127.6	123.7	116.7
BUSINESS SUPPLIES	6.47	166.7	158.0	155.9	160.4	161.2	159.0	159.7	164.4	164.2	171.2	171.1	165.5	159.6	
COMMERCIAL ENERGY PRODUCTS	1.14	176.4	171.4	182.8	180.8	176.9	170.0	169.7	181.9	193.5	197.1	192.6	180.0	171.3	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	149.1	132.5	125.7	132.3	132.5	129.5	128.9	129.5	121.7	123.4	124.2	121.2	118.4	116.2
DURABLE CONSUMER PARTS	4.58	114.5	94.4	85.6	92.6	95.4	95.8	100.8	104.3	97.9	97.6	96.6	93.2	92.1	94.0
EQUIPMENT PARTS	5.44	191.2	186.9	175.5	179.9	177.9	172.7	170.9	169.6	162.2	160.6	159.8	157.4	157.1	157.4
DURABLE MATERIALS NEC	10.34	142.3	120.8	117.3	124.8	125.0	121.7	119.3	119.6	110.9	115.2	117.6	114.4	109.7	104.4
BASIC METAL MATERIALS	5.57	112.0	89.1	93.3	95.3	94.0	87.8	85.1	81.4	70.7	72.6	76.6	73.2	68.6	
NONDURABLE GOODS MATERIALS	10.47	174.6	151.7	153.3	166.5	165.1	162.4	157.2	157.8	144.3	155.4	159.4	160.8	156.8	148.8
TEXTILE, PAPER, & CHEM MAT	7.62	181.4	155.6	155.4	170.3	169.9	167.2	161.6	161.7	147.3	158.7	162.7	162.3	160.2	153.0
TEXTILE MATERIALS	1.85	113.0	94.4	93.7	103.2	104.6	106.0	105.0	104.8	85.6	108.6	106.5	110.9	104.1	
PAPER MATERIALS	1.62	150.6	128.3	142.4	153.7	155.1	147.8	144.5	147.4	130.5	149.1	146.2	150.2	148.0	
CHEMICAL MATERIALS	4.15	224.0	193.6	188.0	206.9	204.8	202.2	193.6	192.7	181.5	184.8	194.2	189.9	190.0	
CONTAINERS, NONDURABLE	1.70	169.3	143.8	155.2	170.4	166.5	162.7	157.6	165.0	152.3	168.9	172.3	170.7	156.2	
NONDURABLE MATERIALS NEC	1.14	137.4	137.6	136.6	134.9	131.1	130.0	127.3	120.8	111.8	113.5	118.0	136.4	134.6	
ENERGY MATERIALS	8.48	129.0	128.0	134.6	132.6	128.7	124.4	123.5	125.8	124.4	126.3	120.0	120.6	120.7	122.4
PRIMARY ENERGY	4.65	115.0	115.2	118.1	120.3	120.3	118.5	118.0	118.3	113.2	113.8	111.6	113.9	112.5	
CONVERTED FUEL MATERIALS	3.82	145.9	143.4	154.5	148.2	139.2	131.4	130.2	134.9	138.1	141.3	130.3	128.7	130.8	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	131.8	110.2	109.4	122.0	121.5	120.6	119.5	124.1	113.7	124.5	126.6	125.6	118.2	108.9
ENERGY, TOTAL	12.23	137.4	137.5	145.9	142.1	136.8	132.1	130.7	135.4	138.2	140.3	134.1	130.7	129.5	133.1
PRODUCTS	3.76	156.4	158.9	171.5	163.4	155.3	149.6	146.9	157.0	169.2	172.0	165.9	153.4	149.3	
MATERIALS	8.48	129.0	128.0	134.6	132.6	128.7	124.4	123.5	125.8	124.4	126.3	120.0	120.6	120.7	122.4

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

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Table 2A

INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967 PROPORTION	1981 AVG.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES		12.05	155.0	154.7	157.4	155.6	153.1	151.6	148.8	145.2	142.6	141.3	139.7	140.7	140.1	140.4
MINING		6.36	142.2	142.6	144.5	142.4	138.1	134.1	128.9	123.5	120.1	116.9	114.7	116.4	115.9	118.0
UTILITIES		5.69	169.1	168.2	171.8	170.4	170.0	171.0	170.9	169.4	167.7	168.5	167.5	167.8	167.1	165.5
MANUFACTURING		87.95	150.4	142.0	138.5	140.9	140.1	138.7	137.9	137.7	138.1	138.0	137.1	135.0	134.0	133.9
NONDURABLE		35.97	164.8	157.4	155.1	157.8	157.3	156.1	155.0	155.3	155.7	156.9	156.7	156.0	155.2	155.1
DURABLE		51.98	140.5	131.3	127.1	129.3	128.2	126.7	126.1	125.5	125.9	124.9	123.5	120.5	119.3	119.3
MINING																
METAL MINING	10	.51	123.1	110.9	121.3	120.8	109.9	108.8	90.0	71.8	58.1	53.4	55.4	65.1	68.4	
COAL	11,12	.69	141.3	145.5	147.9	156.0	155.6	146.2	149.2	144.4	140.3	135.8	127.9	143.2	134.1	129.7
OIL AND GAS EXTRACTION	13	4.40	146.8	150.5	151.5	146.6	141.4	137.7	132.7	129.1	127.0	123.3	121.0	119.6	119.6	123.0
STONE AND EARTH MINERALS	14	.75	129.4	115.7	115.8	120.5	121.6	119.6	114.6	106.6	103.8	105.7	106.3	108.5	109.5	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	152.1	152.8	151.1	151.7	150.8	149.7	150.5	151.0	151.0	150.7	149.0	150.6		
TOBACCO PRODUCTS	21	.67	122.2	112.6	112.7	126.7	126.7	116.1	118.6	123.6	121.4	120.6	113.3	108.6		
TEXTILE MILL PRODUCTS	22	2.68	135.7	122.8	120.0	125.8	126.0	126.3	123.5	123.7	124.3	125.9	126.1	126.4	123.8	
APPAREL PRODUCTS	23	3.31	120.4	114.1												
PAPER AND PRODUCTS	26	3.21	155.0	146.6	148.3	151.5	150.6	149.8	146.5	146.8	147.0	152.5	154.3	155.0	153.9	152.9
PRINTING AND PUBLISHING	27	4.72	144.2	145.3	145.6	146.4	145.9	144.2	143.8	142.6	143.9	145.3	144.3	142.6	142.6	144.0
CHEMICALS AND PRODUCTS	28	7.74	215.6	199.8	196.7	201.3	200.3	198.6	193.6	193.2	194.1	195.6	196.4	193.7	192.8	
PETROLEUM PRODUCTS	29	1.79	129.7	128.3	123.3	119.5	121.3	120.8	122.2	124.3	124.7	121.4	122.6	123.9	119.9	118.2
RUBBER & PLASTICS PRODUCTS	30	2.24	274.0	247.3	244.7	251.8	253.4	255.1	257.0	258.9	256.8	261.1	262.0	256.4	253.7	
LEATHER AND PRODUCTS	31	.86	69.3	65.6	63.1	64.0	61.2	60.6	61.1	62.3	62.9	60.8	60.9	59.5	58.8	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	81.1	85.5	84.1	83.8	83.8	85.2	86.3	86.5	87.1	86.5	86.9	89.5	92.6	93.8
LUMBER AND PRODUCTS	24	1.64	119.1	104.8	99.2	104.9	103.5	106.2	110.6	112.2	116.9	120.3	119.9	117.2	119.4	
FURNITURE AND FIXTURES	25	1.37	157.2	149.4	144.3	148.4	150.2	151.8	151.1	152.5	154.5	156.7	155.7	154.3	150.7	
CLAY, GLASS, STONE PROD	32	2.74	147.9	131.5	128.5	135.0	131.5	127.0	125.0	126.1	126.9	128.8	130.4	128.1	126.5	
PRIMARY METALS	33	6.57	107.9	89.6	89.7	88.5	83.0	76.4	75.2	72.8	72.9	72.9	73.2	70.0	67.1	65.9
IRON AND STEEL	331,2	4.21	99.8	79.2	79.6	78.5	73.0	65.1	62.4	58.0	58.1	57.4	56.4	54.1	51.4	
FABRICATED METAL PROD	34	5.93	136.4	126.1	120.7	121.4	121.1	119.1	115.8	115.0	115.5	114.3	112.3	108.5	107.4	106.5
NONELECTRICAL MACHINERY	35	9.15	171.2	167.4	160.9	160.0	157.3	153.7	150.0	147.4	147.1	147.2	144.9	140.5	138.0	135.8
ELECTRICAL MACHINERY	36	8.05	178.4	170.7	168.2	172.9	172.6	172.2	170.9	170.8	170.3	169.7	167.0	165.7	164.9	164.5
TRANSPORTATION EQUIP	37	9.27	116.1	103.7	96.6	102.0	104.4	105.9	110.0	111.6	112.7	107.0	105.3	100.8	100.0	103.7
MOTOR VEHICLES & PTS	371	4.50	122.3	100.4	90.4	98.6	105.6	110.7	119.8	124.0	127.2	116.7	113.5	103.0	101.7	108.8
AEROSPACE & MISC	372-9	4.77	110.2	106.8	102.4	105.3	103.2	101.3	100.8	99.9	99.0	97.8	97.6	98.6	98.4	98.9
INSTRUMENTS	38	2.11	170.3	166.8	162.2	164.5	163.0	162.8	163.8	164.8	165.2	165.5	161.9	156.9	153.9	155.5
MISCELLANEOUS MFRS	39	1.51	154.7	147.9	144.9	144.5	145.3	144.6	141.7	136.8	134.7	133.9	132.9	130.5	129.6	130.0
UTILITIES																
ELECTRIC		3.88	190.9	190.2	195.2	192.5	191.7	193.1	193.4	191.6	189.2	189.9	188.2	188.9	188.1	186.2

Table 3

INDUSTRIAL PRODUCTION: PERCENT CHANGES

Based on seasonally adjusted indexes

	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
CHANGE FROM PREVIOUS MONTH												
TOTAL INDEX	-1.9	1.6	-.8	-1.1	-.7	-.4	.1	-.3	-.8	-1.1	-.7	-.1
FINAL PRODUCTS	-2.4	.9	-.6	-.5	-.3	-.1	.3	-.9	-.9	-1.0	-.7	.3
CONSUMER GOODS	-1.7	1.6	-.2	.4	1.1	.8	.7	-1.2	-.5	-.8	-.8	.2
DURABLE CONSUMER GOODS	-2.5	4.8	1.7	2.0	1.5	1.5	2.0	-3.2	-1.2	-3.4	-1.6	1.9
NONDURABLE CONSUMER GOODS	-1.4	.5	-.9	-.1	.9	.6	.2	-.3	-.3	.1	-.5	-.4
BUSINESS EQUIPMENT	-3.8	-.3	-1.5	-2.4	-3.0	-2.0	-1.1	-.6	-2.2	-2.7	-1.2	-.3
INTERMEDIATE PRODUCTS	-1.7	2.0	-.8	-1.0	-.8	-.5	.6	1.3	-.7	-.9	-.4	-.6
MATERIALS	-1.3	2.3	-1.4	-1.7	-1.4	-.6	-.4	-.2	-.6	-1.3	-1.1	-.4
DURABLE GOODS MATERIALS	-3.2	2.1	-1.3	-2.0	-1.2	.0	-.5	-.7	-1.7	-3.0	-1.1	-.6
NONDURABLE GOODS MATERIALS	-.9	4.7	-1.3	-1.1	-2.3	-2.0	-.8	1.4	2.6	-.5	-1.4	.0
MANUFACTURING	-2.5	1.7	-.6	-1.0	-.6	-.1	.3	-.1	-.7	-1.5	-.7	-.1
NONDURABLE	-1.5	1.7	-.3	-.8	-.7	.2	.3	.8	-.1	-.4	-.5	-.1
DURABLE	-3.2	1.7	-.9	-1.2	-.5	-.5	.3	-.8	-1.1	-2.4	-1.0	.0
MINING AND UTILITIES	1.7	-1.1	-1.6	-1.0	-1.8	-2.4	-1.8	-.9	-1.1	.7	-.4	.2
CHANGE FROM SAME MONTH A YEAR AGO												
TOTAL INDEX	-7.1	-5.9	-6.8	-7.7	-8.8	-9.3	-9.8	-9.9	-9.4	-8.9	-7.9	-6.1
FINAL PRODUCTS	-3.4	-2.8	-3.8	-4.9	-6.0	-6.1	-6.3	-6.8	-6.7	-6.9	-6.5	-5.6
CONSUMER GOODS	-5.0	-4.1	-4.6	-4.6	-4.7	-3.7	-3.3	-3.7	-3.0	-2.9	-2.0	-.4
DURABLE CONSUMER GOODS	-14.3	-10.8	-10.8	-9.4	-10.0	-9.0	-6.3	-6.7	-6.5	-6.9	-3.7	3.3
NONDURABLE CONSUMER GOODS	-1.5	-1.6	-2.2	-2.7	-2.8	-1.6	-2.1	-2.6	-1.7	-1.5	-1.4	-1.7
BUSINESS EQUIPMENT	-3.1	-3.3	-5.7	-8.9	-12.1	-14.7	-16.2	-16.5	-17.6	-18.9	-19.2	-19.5
INTERMEDIATE PRODUCTS	-9.0	-7.2	-7.6	-8.1	-8.6	-8.4	-8.6	-7.7	-7.1	-5.9	-4.6	-3.4
MATERIALS	-10.8	-9.0	-10.3	-10.9	-12.5	-13.3	-14.4	-14.4	-13.4	-12.3	-10.9	-7.6
DURABLE GOODS MATERIALS	-13.5	-12.1	-14.1	-15.6	-17.1	-16.9	-18.0	-18.9	-18.2	-18.1	-16.3	-12.5
NONDURABLE GOODS MATERIALS	-13.0	-8.7	-8.7	-10.6	-12.5	-13.2	-13.7	-11.9	-9.7	-7.6	-5.6	-1.8
MANUFACTURING	-8.3	-6.8	-7.6	-8.8	-9.8	-9.6	-9.9	-9.9	-9.3	-8.8	-7.6	-5.7
NONDURABLE	-6.3	-5.1	-4.8	-5.9	-6.9	-6.3	-6.8	-6.2	-5.5	-4.2	-3.2	-1.5
DURABLE	-9.9	-8.2	-9.8	-11.1	-12.1	-12.4	-12.3	-12.9	-12.4	-12.6	-11.2	-9.1
MINING AND UTILITIES	2.7	1.0	-1.1	.7	-2.2	-7.1	-10.4	-10.7	-10.3	-9.9	-9.8	-9.2

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Table 2B

INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967 PROPORTION	1981 AVG.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MINING AND UTILITIES		12.05	155.0	155.2	164.3	159.7	152.7	146.7	142.4	143.9	144.6	146.8	140.1	136.9	136.4	141.4
MINING		6.36	142.2	141.9	141.6	141.3	138.1	134.5	129.9	124.3	117.2	117.2	115.6	118.6	117.1	117.4
UTILITIES		5.69	169.1	169.9	189.8	180.6	169.1	160.3	156.5	165.7	175.2	179.7	167.3	157.4	157.8	168.0
MANUFACTURING		87.95	150.4	137.0	133.1	140.7	140.7	138.4	138.0	141.6	135.1	139.3	141.2	138.9	134.5	129.1
NONDURABLE		35.97	164.8	149.4	147.1	156.6	156.6	154.7	154.5	159.9	152.9	161.9	164.1	162.0	155.8	147.3
DURABLE		51.98	140.5	128.4	123.4	129.7	129.7	127.1	126.6	128.9	122.7	123.7	125.4	122.8	119.8	116.6
MINING																
METAL MINING	10	.51	123.1	102.0	113.2	113.2	106.1	108.8	94.5	76.8	58.6	56.5	59.0	66.7	66.6	
COAL	11,12	.69	141.3	134.2	137.8	157.4	166.0	155.5	157.4	151.4	119.8	135.6	130.1	150.2	131.9	119.8
OIL AND GAS EXTRACTION	13	4.40	146.8	152.1	151.0	147.2	141.3	136.7	131.8	128.1	125.9	123.2	121.1	120.4	121.4	124.4
STONE AND EARTH MINERALS	14	.75	129.4	115.8	108.9	111.1	116.1	120.1	117.5	109.8	103.4	106.8	109.1	114.5	113.0	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	152.1	148.3	144.0	147.1	146.5	145.8	147.7	152.6	149.6	157.7	159.9	160.3		
TOBACCO PRODUCTS	21	.67	122.2	91.2	115.9	136.0	130.3	108.2	113.3	128.7	106.0	127.8	122.4	118.0		
TEXTILE MILL PRODUCTS	22	2.68	135.7	112.7	110.4	122.7	125.6	127.3	126.4	130.5	113.3	132.6	132.7	135.1	126.5	
APPAREL PRODUCTS	23	3.31	120.4	98.3												
PAPER AND PRODUCTS	26	3.21	155.0	131.8	146.3	157.7	158.9	153.2	148.9	152.5	136.7	154.1	153.6	159.1	152.0	137.6
PRINTING AND PUBLISHING	27	4.72	144.2	138.5	131.5	138.0	137.8	138.2	141.1	147.3	152.1	158.5	157.5	149.2	143.0	137.7
CHEMICALS AND PRODUCTS	28	7.74	215.6	191.8	188.1	198.4	199.1	198.7	195.1	200.4	195.9	197.9	203.2	196.3	192.1	
PETROLEUM PRODUCTS	29	1.79	129.7	130.8	120.5	116.1	116.2	116.1	120.3	127.2	128.0	123.9	125.3	123.9	123.1	120.6
RUBBER & PLASTICS PRODUCTS	30	2.24	274.0	240.9	234.5	264.9	261.9	257.3	253.9	261.7	238.7	258.3	265.6	262.8	257.0	
LEATHER AND PRODUCTS	31	.86	69.3	62.1	61.7	66.2	64.0	60.8	64.6	62.5	54.4	60.9	61.8	62.5	59.2	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	81.1	85.3	84.3	84.3	84.8	85.1	86.6	86.9	86.3	86.3	86.7	88.6	91.8	93.6
LUMBER AND PRODUCTS	24	1.64	119.1	96.4	93.2	105.2	104.9	107.2	111.1	116.2	114.6	123.8	123.0	121.7	119.1	
FURNITURE AND FIXTURES	25	1.37	157.2	149.7	142.1	156.6	153.2	151.2	146.4	151.3	140.6	158.3	160.1	155.3	152.7	
CLAY, GLASS, STONE PROD	32	2.74	147.9	125.2	117.7	127.3	127.1	128.0	126.2	133.7	127.9	134.1	134.9	132.7	128.5	
PRIMARY METALS	33	6.57	107.9	83.4	87.7	89.8	88.7	82.1	80.2	76.9	68.0	69.9	72.4	68.3	64.0	61.5
IRON AND STEEL	331,2	4.21	99.8	73.1	77.3	78.2	78.1	70.7	67.5	61.8	55.8	55.4	54.8	52.7	48.4	
FABRICATED METAL PROD	34	5.93	136.4	124.8	117.1	123.3	122.5	118.5	115.1	116.7	112.2	114.1	113.9	110.3	108.4	105.4
NONELECTRICAL MACHINERY	35	9.15	171.2	162.9	154.9	160.8	157.7	151.9	147.7	151.5	148.2	147.8	150.3	142.9	137.5	132.1
ELECTRICAL MACHINERY	36	8.05	178.4	170.1	165.3	173.6	172.5	170.6	170.1	173.3	166.0	168.2	169.3	170.7	167.1	163.4
TRANSPORTATION EQUIP	37	9.27	116.1	101.9	95.2	102.9	108.0	108.8	113.3	116.2	105.6	99.4	103.4	103.5	101.6	101.2
MOTOR VEHICLES & PTS	371	4.50	122.3	95.2	88.9	100.5	111.7	116.4	125.6	132.2	114.8	103.6	108.9	108.4	104.1	102.2
AEROSPACE & MISC	372-9	4.77	110.2	108.3	101.1	105.0	104.4	101.7	101.7	101.1	97.0	95.5	98.1	98.9	99.2	100.3
INSTRUMENTS	38	2.11	170.3	166.8	157.1	162.2	161.6	160.2	163.0	168.1	165.5	166.1	165.9	159.1	156.3	155.5
MISCELLANEOUS MFRS	39	1.51	154.7	141.1	135.6	142.0	144.6	140.5	139.6	138.2	131.8	140.3	141.2	135.9	130.8	126.5
UTILITIES																
ELECTRIC		3.88	190.9	189.4	214.7	200.6	186.1	176.2	174.2	190.0	204.8	210.6	192.2	176.9	174.7	186.6

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Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PROPORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
METAL MINING	10	.51														
IRON ORE	101,6	.24	104.4	82.4	86.0	117.3	102.5	87.4	87.4	58.7	34.0	13.2	14.7	12.8	28.7	
NONFERROUS ORES	102-5,8,9	.27	139.8	150.8	131.1	128.6	127.5	119.6	116.9	108.8	105.5	117.1	97.4	101.7	100.6	103.1
COPPER ORE	102	.14	173.5	191.1	157.2	154.9	154.6	147.9	142.8	126.0	122.5	144.2	117.8	106.3	113.7	
LEAD AND ZINC ORES	103	.03	77.0	83.3	79.5	81.3	74.8	74.9	79.3	83.0	84.6	76.8	87.9	84.6	86.8	
ANTHRACITE	11	.03	49.2	62.5	50.7	54.2	61.2	53.9	55.4	51.7	50.1	47.1	44.2	41.6	36.1	30.6
BITUMINOUS COAL	12	.66	145.0	156.3	152.0	169.7	169.0	168.8	156.4	148.4	143.1	143.7	143.2	119.3	138.4	131.3
OIL AND GAS EXTRACTION	13	4.40														
CRUDE OIL & NATURAL GAS	131	3.61	98.2	96.5	97.5	99.0	97.3	96.7	98.0	96.6	97.0	97.1	95.8	96.1	95.9	95.2
CRUDE OIL, TOTAL		2.94	95.1	93.9	94.5	96.2	94.7	94.2	95.9	95.2	95.7	95.7	95.0	94.9	94.0	93.8
ALASKA, CALIF. CRUDE		.31	249.9	246.8	252.8	262.4	264.9	263.7	272.2	271.4	266.1	265.4	257.3	260.7	259.3	256.4
TEXAS CRUDE		1.07	84.5	82.9	82.4	83.5	83.1	82.7	81.8	81.8	83.4	82.4	81.9	81.4	80.5	81.1
LA. AND OTHER CRUDE		1.57	72.1	71.6	72.0	72.6	69.3	69.0	71.1	69.9	71.0	71.7	72.2	71.8	70.9	70.7
NATURAL GAS		.67	111.8	108.1	110.5	111.3	108.8	107.8	107.2	102.8	102.3	102.8	99.5	101.3		
NATURAL GAS LIQUIDS	132	.30														
LP PROPANE		.04														
LP MATERIALS		.26														
OIL AND GAS DRILLING	138	.50	523.4	546.5	554.3	550.7	531.1	493.2	453.6	414.9	372.1	349.9	327.5	306.5	294.2	303.8
FOODS	20	8.75														
MEAT PRODUCTS	201	1.17	123.7	118.7	126.7	120.5	119.6	119.4								
BEEF		.40	110.6	110.3	112.5	109.8	108.3	108.0								
PORK		.55	126.5	117.9	131.0	121.0	116.3	116.1								
MISC. MEATS		.22	140.3	135.9	141.6	138.2	147.9	147.7								
DAIRY PRODUCTS	202	1.14	134.1	138.5	138.5	136.5	137.1	136.7								
BUTTER	2021	.04	100.6	108.9	101.9	108.0	106.0	106.7								
CHEESE	2022	.07	296.4	316.5	322.9	314.0	309.6	305.9								
CONCENTRATED MILK	2023	.12	64.5	78.5	75.7	68.8	68.8	68.2								
FROZEN DESSERTS	2024	.13	141.9	148.8	148.3	139.4	147.0	144.1								
CANNED AND FROZEN FOODS	203	1.18	173.1	180.0	177.5	172.0	173.8	174.9	171.4	167.4	177.0	181.7	188.2	174.2	180.1	177.3
GRAIN MILL PRODUCTS	204	.95	162.8	158.8	156.2	160.4	162.6	160.9	160.9	157.4	158.5	160.4	159.6	161.7	158.8	158.9
FLOUR & CORN MILL.	2041,6	.28	116.0	114.7	104.5	125.0	121.7	116.9	108.1	114.0	112.6	115.4	113.9	114.2	118.8	113.0
BAKERY PRODUCTS	205	1.15	128.5	128.0	126.6	123.1	124.4	122.6	121.4	124.8	124.8	122.5	124.1	124.0	123.2	124.8
SUGAR	206	.21	132.5	127.3	118.0	125.3	122.2									
CONFECTIONERY	207	.41	92.8	92.3	96.6	90.2	99.2	96.7	94.7	94.3	98.3	109.2	90.9	90.9	105.6	95.9
BEVERAGES	208	1.58	196.7	199.3	200.1	200.6	210.3	199.8	195.9	194.5	186.3	181.0	186.4	186.5	191.5	195.5
BEER AND ALE	2082,3	.52	166.9	169.9	165.8	180.6	181.4	177.8	164.9	173.2	160.0	150.3	162.6	164.1	172.8	
WINES AND BRANDY	2084	.07	272.2	270.6	244.6	261.8	287.3	249.1	279.9	295.3	265.0	277.9	295.5	248.5		
LIQUORS	2085	.24	130.1	128.3	129.7	113.0	127.9	118.7	125.3	127.0	122.7	121.9	114.4	131.5	118.2	112.0
SOFT DRINKS	2086,7	.74	232.9	236.9	243.2	237.8	250.8	237.4	233.4	222.6	218.7	213.3	217.1	214.7	217.5	228.3
MISC. FOOD PREPARATIONS	209	.97	156.4	161.1	161.1	157.9	156.1	156.0	154.4	161.2	160.8	162.1	162.5	167.8	167.8	167.2
FATS AND OILS	2091-4,6	.30	146.8	155.0	152.3	144.3	150.5	140.8	141.9	147.9	149.2	145.5	142.7	158.4	156.4	159.9
COFFEE, MISC.FOOD	2095,7-9	.67	160.7	163.8	165.2	164.1	158.6	163.0	160.1	167.3	166.1	169.6	171.5	172.1	173.0	
TOBACCO PRODUCTS	21	.67														
CIGARETTES	211	.54	127.4	122.0	112.1	117.1	129.2	136.4	114.2	118.6	120.8	128.8	125.2	123.1	112.2	
CIGARS	212	.07	57.9	49.1	55.4	62.8	63.3	62.1	52.9	57.3	52.2	54.6	49.4	49.3	46.4	
TEXTILE MILL PRODUCTS	22	2.69														
FABRICS	221-4	1.05	102.7	95.5	90.7	79.4	85.9	86.8	89.4	89.1	92.4	97.9	96.1	97.8	96.8	90.1
COTTON FABRICS	221,4	.60	66.1	62.2	54.4	58.4	60.2	59.2	63.5	60.1	57.0	60.6	60.9	61.2	63.5	60.4
MAN-MADE FABRICS	222	.30														
WOOL FABRICS	223	.14														
KNIT GOODS	225	.63	186.6	183.8	174.7	176.1	168.4	168.8	166.0	171.4	171.2	179.0	175.2	170.9	181.0	171.0
HOSIERY	2251,2	.21	229.0	242.3	223.0	242.3	198.5	199.5	194.4	214.3	203.1	232.9	215.0	204.4	236.9	208.8
KNIT GARMENTS	2253-9	.42	165.1	154.1	150.2	142.5	153.2	153.2	151.6	149.6	155.0	151.7	155.1	153.8	152.7	151.6
FABRIC FINISHING	226	.23	141.8	138.9	121.2	117.9	129.2	126.3	139.3	116.2	111.6	111.0	113.0	109.0	114.5	113.9
CARPETING	227	.20	186.2	159.2	158.7	165.5	180.6	200.8	180.9	176.9	181.8	185.0	186.1	189.0	183.8	183.9
YARN & MISC.TEXTILES	228,9	.57	121.5	114.7	110.6	103.5	115.6	117.6	114.0	115.4	114.4	114.1	122.4	125.0	124.0	118.9
APPAREL PRODUCTS	23	3.33														
MEN'S OUTERWEAR	231,2	1.06	114.5	123.1	118.0											
MEN'S SUITS AND COATS	231	.34	107.2	103.5	102.7											
MEN'S FURNISHINGS	232	.69	119.9	135.1	127.6											
WOMEN'S OUTERWEAR	233	1.05	144.1	125.0	128.5											
MISC. APP.& ALLIED GDS	234-9	1.20	104.1	102.5	101.1	93.7	99.9	100.0								
LUMBER AND PRODUCTS	24	1.64														
LOGGING AND LUMBER	241,2	.82	94.2	82.7	78.8	75.6	80.5	79.9	78.6	88.5	87.9	92.4	94.8	90.9	88.2	96.3
LUMBER	242	.59	86.0	70.3	67.9	70.6	70.2	70.9	73.8	81.5	79.9	85.2	88.4	80.7	79.9	
LUMBER PRODUCTS	243,4,9	.82	143.8	127.4	126.6	121.2	128.8	128.8	132.0	131.3	138.1	143.4	145.9	148.0	146.0	147.7
MILLWORK AND PLYWOOD	243	.50	155.5	134.1	133.5	130.0	137.4	139.0	142.4	141.8	152.9	162.6	165.0	167.1	164.8	
PLYWD,PREFAB PROD	2432,3	.29	182.0	155.1	155.7	151.4	163.7	168.7	171.9	167.1	182.5	196.7	204.1	205.4	202.0	
FURNITURE AND FIXTURES	25	1.37														
HOUSEHOLD FURNITURE	251	.87	151.7	144.9	142.0	133.2	140.3	143.0	140.9	138.9	142.3	145.9	144.7	146.6	144.8	142.9
FIXTURES, OFF. FURN.	252,4,9	.42	177.5	178.7	174.0	173.1	179.3	175.1	179.6	180.1	176.0	185.4	191.2	182.3	175.5	171.2

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Table 4B

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PRO-PORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
METAL MINING	10	.51														
IRON ORE	101,6	.24	104.4	68.0	73.1	95.5	96.7	84.8	91.7	73.5	43.4	14.4	15.4	12.8	24.9	
NONFERROUS ORES	102-5,8,9	.27	139.8	151.8	127.9	129.0	131.5	125.1	124.1	113.3	106.7	98.0	93.3	100.3	104.0	103.7
COPPER ORE	102	.14	173.5	192.6	150.6	155.5	162.0	156.0	154.6	133.9	124.3	112.5	111.9	103.9	119.5	
LEAD AND ZINC ORES	103	.03	77.0	82.2	77.3	78.7	80.0	81.0	83.6	82.0	85.8	69.3	85.0	83.3	87.6	
ANTHRACITE	11	.03	49.2	68.3	44.7	47.7	53.9	56.5	53.0	53.8	52.3	41.2	48.7	45.9	39.1	33.5
BITUMINOUS COAL	12	.66	145.0	161.8	137.9	141.5	161.6	170.5	159.7	161.6	155.5	123.0	139.2	133.5	154.7	135.9
OIL AND GAS EXTRACTION	13	4.40														
CRUDE OIL & NATURAL GAS	131	3.61	98.2	97.0	98.0	98.7	98.7	97.2	97.3	96.3	96.6	96.7	95.5	95.5	95.8	95.7
CRUDE OIL, TOTAL		2.94	95.1	94.6	94.5	95.4	94.9	94.3	95.1	95.1	95.5	95.5	95.2	94.9	94.7	94.4
ALASKA, CALIF. CRUDE		.31	249.9	253.0	253.8	262.7	264.4	262.4	264.6	265.4	258.9	264.3	263.0	264.6	265.3	262.8
TEXAS CRUDE		1.07	84.5	83.1	82.6	82.6	83.2	83.2	82.0	81.9	83.3	82.2	81.6	81.2	80.8	81.3
LA. AND OTHER CRUDE		1.57	72.1	71.5	71.6	71.7	69.9	69.1	70.9	70.9	71.9	71.6	71.7	71.2	70.8	70.6
NATURAL GAS		.67	111.8	107.5	113.0	113.3	115.0	109.7	107.3	101.6	101.8	102.0	97.0	98.3		
NATURAL GAS LIQUIDS	132	.30														
LP PROPANE		.04														
LP MATERIALS		.26														
OIL AND GAS DRILLING	138	.50	523.4	566.2	573.1	558.4	523.7	480.4	435.5	400.0	366.1	345.7	329.8	312.6	302.4	314.7
FOODS	20	8.75														
MEAT PRODUCTS	201	1.17	123.7	126.9	124.8	119.2	117.7	120.7								
BEEF		.40	110.6	112.1	108.8	112.8	111.7	107.4								
PORK		.55	126.5	132.5	133.5	121.2	117.1	124.3								
MISC. MEATS		.22	140.3	139.4	132.1	125.5	130.0	135.6								
DAIRY PRODUCTS	202	1.14	134.1	130.2	131.8	130.6	134.8	137.9								
BUTTER	2021	.04	100.6	95.5	101.6	127.3	123.8	115.1								
CHEESE	2022	.07	296.4	281.7	305.8	290.8	302.8	316.3								
CONCENTRATED MILK	2023	.12	64.5	57.3	66.0	61.0	66.3	69.4								
FROZEN DESSERTS	2024	.13	141.9	119.8	109.6	104.0	128.3	145.4								
CANNED AND FROZEN FOODS	203	1.18	173.1	185.6	164.0	154.6	161.3	162.0	158.2	158.5	174.0	180.4	201.4	211.0	209.5	182.8
GRAIN MILL PRODUCTS	204	.95	162.8	162.9	157.8	158.6	161.3	157.0	153.2	150.3	155.3	158.6	165.9	166.6	168.0	163.0
FLOUR & CORN MILL.	2041,6	.28	116.0	115.2	102.8	121.0	124.7	116.3	108.2	110.4	108.2	111.5	118.8	116.6	125.9	113.5
BAKERY PRODUCTS	205	1.15	128.5	126.4	121.9	115.4	115.3	114.2	114.5	119.8	128.6	132.9	135.6	136.4	128.3	123.3
SUGAR	206	.21	132.5	174.6	155.3	145.3	108.0									
CONFECTIONERY	207	.41	92.8	97.5	84.6	80.4	112.2	97.2	83.5	81.0	83.4	75.8	106.3	129.1	123.5	101.3
BEVERAGES	208	1.58	196.7	189.6	182.2	183.1	186.7	190.2	193.1	198.4	203.7	195.3	204.4	199.4	197.0	185.5
BEER AND ALE	2082,3	.52	166.9	141.0	137.8	159.8	168.5	174.6	181.5	191.6	187.4	173.3	180.3	161.1	158.5	
WINES AND BRANDY	2084	.07	272.2	328.0	282.0	250.0	256.0	264.0	255.3	281.7	261.8	217.0	263.9	247.5		
LIQUORS	2085	.24	130.1	144.5	127.9	105.1	115.5	123.5	122.3	122.6	130.2	97.8	109.0	138.4	142.5	126.1
SOFT DRINKS	2086,7	.74	232.9	226.5	222.5	219.0	216.7	216.5	218.9	220.6	234.0	240.6	247.1	242.0	225.8	218.3
MISC. FOOD PREPARATIONS	209	.97	156.4	166.3	168.7	164.8	166.7	158.0	156.6	157.8	154.1	150.3	156.0	160.6	167.8	172.7
FATS AND OILS	2091-4,6	.30	146.8	165.7	166.1	156.1	165.6	150.3	140.6	140.8	140.4	124.7	128.8	144.2	161.1	171.0
COFFEE, MISC.FOOD	2095,7-9	.67	160.7	166.6	169.8	168.7	167.2	161.5	163.8	165.6	160.3	162.0	168.4	168.0	170.9	
TOBACCO PRODUCTS	21	.67														
CIGARETTES	211	.54	127.4	126.0	89.8	119.0	139.1	133.8	110.7	116.5	134.6	110.4	132.5	126.2	122.0	
CIGARS	212	.07	57.9	52.0	40.1	58.8	68.0	63.9	51.8	59.0	54.7	41.2	52.3	54.3	55.9	
TEXTILE MILL PRODUCTS	22	2.69														
FABRICS	221-4	1.05	102.7	97.0	85.7	82.5	89.8	90.2	90.8	93.0	94.7	79.5	96.7	96.3	99.1	91.6
COTTON FABRICS	221,4	.60	66.1	63.7	50.6	59.8	63.0	62.4	64.8	62.0	58.2	50.2	61.1	60.0	65.8	61.8
MAN-MADE FABRICS	222	.30														
WOOL FABRICS	223	.14														
KNIT GOODS	225	.63	186.6	180.1	154.0	151.1	163.1	165.0	170.4	173.1	189.0	177.2	189.3	186.6	185.6	167.7
HOSIERY	2251,2	.21	229.0	235.0	186.4	212.0	203.3	208.9	216.8	212.2	223.4	231.0	218.0	213.6	235.5	202.5
KNIT GARMENTS	2253-9	.42	165.1	152.3	137.6	120.2	142.7	142.7	146.8	153.3	171.5	149.9	174.7	172.9	160.3	150.0
FABRIC FINISHING	226	.23	141.8	138.2	115.6	119.1	132.5	134.2	144.0	123.0	120.0	80.6	115.6	109.7	117.6	113.4
CARPETING	227	.20	186.2	165.4	153.6	144.1	170.5	197.6	189.8	178.4	185.0	169.7	177.6	206.1	211.6	191.3
YARN & MISC.TEXTILES	228,9	.57	121.5	114.3	101.6	103.8	117.9	118.8	118.4	119.6	117.0	98.8	127.6	124.0	129.9	118.5
APPAREL PRODUCTS	23	3.33														
MEN'S OUTERWEAR	231,2	1.06	114.5	114.4	95.9											
MEN'S SUITS AND COATS	231	.34	107.2	102.7	87.4											
MEN'S FURNISHINGS	232	.69	119.9	122.1	101.2											
WOMEN'S OUTERWEAR	233	1.05	144.1	120.2	103.2											
MISC. APP.& ALLIED GDS	234-9	1.20	104.1	100.9	96.3	85.6	95.5	95.1								
LUMBER AND PRODUCTS	24	1.64														
LOGGING AND LUMBER	241,2	.82	94.2	80.0	71.3	69.2	79.8	77.1	80.7	87.9	91.6	93.7	98.7	96.9	94.8	93.0
LUMBER	242	.59	86.0	66.8	58.8	66.1	72.5	71.6	79.5	82.2	81.4	82.8	89.2	85.2	85.1	
LUMBER PRODUCTS	243,4,9	.82	143.8	127.0	121.4	117.1	130.3	132.6	133.6	134.2	140.6	135.3	148.8	149.0	148.5	147.0
MILLWORK AND PLYWOOD	243	.50	155.5	132.3	125.2	125.1	138.4	144.1	143.9	145.7	156.6	151.2	171.3	169.7	168.9	
PLYWD,PREFAB PROD	2432,3	.29	182.0	152.0	141.6	146.8	168.7	179.5	175.8	173.9	185.5	174.8	211.7	207.6	207.8	
FURNITURE AND FIXTURES	25	1.37														
HOUSEHOLD FURNITURE	251	.87	151.7	146.5	141.6	131.0	148.1	144.6	141.7	135.5	142.6	128.1	148.2	151.8	147.7	144.5
FIXTURES, OFF. FURN.	252,4,9	.42	177.5	182.3	172.6	172.1	187.6	178.8	178.7	176.0	175.6	171.7	187.0	187.0	179.9	174.6

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Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PROPORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
PAPER AND PRODUCTS	26	3.21														
PULP AND PAPER	261-3	1.38	148.7	148.0	139.9	142.1	147.8	146.7	138.6	137.2	137.5	137.0	143.3	148.8	143.1	144.1
WOOD PULP	261	.50	141.3	140.4	130.9	130.8	141.6	142.0	133.2	132.5	131.1	127.6	133.7	138.9	133.1	
PAPER	262	.54	152.0	154.9	145.3	151.3	151.9	151.3	142.7	140.1	144.4	146.9	154.6	155.6	154.9	151.4
PAPERBOARD	263	.34	154.4	148.4	144.8	144.2	150.4	146.5	139.8	139.7	136.4	135.5	139.8	152.5	139.6	148.4
CONVERTED PAPER PROD.	264	.93	173.5	174.1	167.6	170.5	173.3	175.3	170.1	166.1	171.1	173.6	181.7	184.5	182.6	178.0
SANITARY PAPER PROD.	2647	.18	147.2	146.1	138.5											
PAPERBOARD CONTAINERS	265	.84	150.4	140.9	140.6	149.4	145.2	145.9	141.7	136.5	142.8	142.4	147.7	147.6	147.5	141.3
BUILDING PAPER AND BOARD	266	.06	82.1	64.0	57.1	65.2	62.2	61.8								
PRINTING AND PUBLISHING	27	4.72														
NEWSPAPERS	271	1.38	108.1	106.4	108.5	105.1	109.0	107.2	104.6	103.5	102.5	104.6	104.2	106.7	105.4	104.1
PERIOD.,BOOKS,CARDS	272,3,7	1.38	132.7	130.4	132.8	136.2	138.5	132.9	133.1	131.4	128.2	133.1	135.3	131.0	130.5	130.9
JOB PRINTING	274-6,8,9	1.96	178.1	181.3	181.7	181.3	183.0	184.0	180.8	181.4	179.0	177.6	179.6	177.0	177.0	178.2
CHEMICALS AND PRODUCTS	28	7.74														
CHEMICALS & SYN. MAT.	281,2	3.79	228.6	209.9	200.7	202.4	213.2	204.8	199.7	193.5	190.2	188.8	189.7	194.7	190.8	189.9
BASIC CHEMICALS	281	2.54	186.8	173.5	169.4	172.5	176.4	168.3	162.5	156.2	152.6	149.7	147.6	147.2	145.8	148.2
ALKALIES & CHLORINE	2812	.14	114.7	100.0	99.6	104.4	107.8	102.3	105.2	100.0	101.6	101.7	92.4	90.8	95.7	98.1
GASES,ETC.	2813,5,6	.48	181.5	165.3	152.3	169.2	190.9	165.0	156.9	156.7	146.9	156.1	161.1	164.8	150.6	
BASIC ORG. CHEM.	2818	1.18	236.7	225.0	222.3	219.0	214.6	211.5	208.2	196.6	188.9	178.2	172.6	170.4	173.2	176.5
INORG. CHEM. NEC	2819	.75	125.5	111.7	110.4	114.7	120.2	115.0	105.1	103.3	108.9	110.0	110.2	110.2	109.1	109.6
ACIDS & FERTILIZER MAT		.55	137.2	119.8	118.6	122.4	127.4	122.6	109.6	107.4	113.4	114.2	114.6	117.3	117.5	117.8
SULFURIC ACID, ETC.		.41	128.4	110.7	109.3	114.2	119.1	114.4	101.5	99.3	104.5	106.5	107.1	109.0	111.1	110.9
FERTILIZER MATERIALS		.14	162.8	146.2	145.4	146.1	151.6	146.1	133.0	130.7	139.1	136.7	136.3	141.4	136.1	
ERDA NUCLEAR MATLS		.15	85.0	79.9	77.6	85.0	94.0	85.3	83.1	82.3	88.3	90.5	89.8	80.8	74.4	76.4
SYNTHETIC MATERIALS	282	1.25	313.7	284.2	264.4	263.2	288.1	279.2	275.5	269.4	266.9	268.3	275.5	291.4	282.6	274.9
PLASTICS MATERIALS	2821	.54	429.3	390.9	365.1	365.5	413.5	404.8	398.4	393.5	384.3	395.4	407.4	425.2	403.5	
SYNTHETIC RUBBER	2822	.13	103.3	97.9	76.1	86.4	92.4	100.4	90.5	93.7	91.0	77.5	77.9	79.7	81.4	
MAN-MADE FIBERS	2823,4	.58	254.4	227.7	213.9	208.7	216.5	203.4	203.6	194.2	198.0	193.8	198.2	215.6	216.3	200.0
CHEMICAL PRODUCTS	283-7,9	3.95	203.0	198.1	198.8	198.1	195.8	195.3	195.2	194.5	196.3	198.8	199.2	197.8	193.7	193.5
DRUGS AND MEDICINES	283	1.34	267.1	264.9	272.1	269.0	263.6	264.7	264.3	260.3	265.0	271.6	270.7	269.1	264.6	267.0
SOAP AND TOILETRIES	284	1.29	177.0	171.4	173.4	173.8	174.6	171.3	169.1	170.3	172.2	172.3	175.2	170.7	171.3	170.5
PAINTS	285	.43	127.4	107.9	107.8	114.3	107.6	107.1	113.3	123.7	118.2	113.8	125.4	132.1	115.7	105.7
AGRICULTURAL CHEMICALS	287	.33	241.4	243.8	223.5	221.7	216.7	223.6	220.9	210.5	213.3	219.3	212.9	204.8	189.4	191.6
PETROLEUM PRODUCTS	29	1.79														
PETROLEUM REFINING	291,9	1.64	129.8	129.7	130.1	125.3	121.5	122.7	121.4	123.4	125.4	124.9	119.2	122.3	124.0	121.1
AUTOMOTIVE GASOLINE		.84	127.9	133.7	132.3	127.6	124.5	126.3	128.1	129.1	132.8	132.3	125.7	130.7	130.2	124.0
DISTILLATE FUEL OIL		.29	120.3	118.0	124.6	113.3	107.0	106.9	114.8	125.4	125.9	125.6	113.9	121.5	126.7	127.0
RESIDUAL FUEL OIL		.05	181.2	154.6	156.5	147.3	135.6	143.9	158.6	155.9	151.6	144.5	140.9	139.2	136.0	133.1
AVIATION FUEL & KEROS.		.17	96.8	93.8	96.6	91.7	97.6	105.9	99.9	89.9	91.5	93.6	93.3	91.4	96.6	96.6
MISC. PETROLEUM PROD.		.28														
REFINERY FUEL NEC		.06														
REFINERY NONFUEL MAT.		.14														
REFINERY PRODUCTS NEC		.08														
RUBBER & PLASTICS PROD.	30	2.24														
TIRES	301	.60	142.1	133.7	107.3	120.8	133.2	138.1	133.2	153.1	152.1	168.8	151.5	141.5	137.1	137.1
RUB. PROD. EX. TIRES	302,3,6	.66	144.5	138.6	132.0	125.3	128.6	130.1	129.4	129.2	130.7	130.3	129.2	126.6	124.8	122.4
PLASTICS PRODUCTS NEC	307	.98	442.7	424.0	410.7	407.0	412.9	407.6	408.1	402.5	410.5	420.8	420.9	426.4	421.0	405.7
LEATHER AND PRODUCTS	31	.86														
PERS. LEATHER GDS.	313,5-7,9	.22	91.0	92.5	91.8	84.8	83.8	80.7	82.8	80.8	78.4	81.1	77.8	76.9	74.4	73.9
SHOES	314	.53	61.8	65.3	55.9	57.7	57.5	54.5	50.5	59.0	53.1	56.9	53.9	54.8	55.4	53.4
CLAY, GLASS, & ST. PROD.	32	2.74														
PRESSED AND BLOWN GLASS	322	.49	161.5	153.9	149.9	151.4	161.8	153.2	152.0	148.6	151.1	149.6	152.2	160.5	146.4	144.3
GLASS CONTAINERS	3221	.28	143.5	135.2	131.2	134.3	148.0	140.0	140.5	141.2	141.8	136.3	141.1	154.9	135.4	130.1
CEMENT	324	.27	102.2	102.7	105.5	93.7	91.2	93.4	87.5	89.3	89.3	91.2	90.5	95.3	91.7	
STRUCTURAL CLAY PRODUCTS	325	.20	94.7	84.2	82.9	74.9	75.3	74.6	72.5	69.7	76.6	77.3	74.3	78.5	77.3	76.9
BRICK	3251	.08	75.4	63.6	64.1	54.6	54.6	52.3	52.3	52.8	61.6	59.6	57.7	66.1	62.7	63.0
CONCRETE,MISC.CLAY MFR.	326-9	1.51	151.2	136.9	133.1	130.4	138.7	133.0	128.8	123.8	127.3	126.1	128.7	128.3	125.3	125.0
PRIMARY METALS	33	6.57														
IRON AND STEEL	331,2	4.21														
BASIC STEEL & MILL PRD	331	3.34	102.5	91.1	83.5	85.2	78.7	77.2	65.0	60.7	56.6	56.7	57.8	57.8	53.9	52.5
BASIC IRON AND STEEL		1.34	91.6	79.0	77.2	74.6	73.1	68.2	60.3	54.8	51.9	51.5	49.8	49.3	47.2	44.2
PIG IRON		.46	83.8	71.4	70.0	64.9	61.9	60.4	51.4	48.4	46.0	46.1	44.4	45.0	42.8	39.6
RAW STEEL		.72	102.5	88.7	86.9	82.3	81.1	75.9	68.6	61.0	57.6	56.7	54.6	54.2	52.1	49.9
COKE AND PRODUCTS		.16	64.7	56.9	53.7	67.6	68.6	55.9	48.3	44.8	42.8	43.5	43.8	39.5	37.5	33.4
STEEL MILL PRODUCTS		2.01	109.8	99.2	87.8	92.2	82.4	83.1	68.2	64.7	59.7	60.1	63.2	63.5	58.4	58.1
CONSUMER DUR. STEEL		.31	81.3	61.1	60.4	58.0	48.9	60.2	55.1	55.9	56.5	54.1	55.4	48.5	43.3	41.4
EQUIPMENT STEEL		.51	120.5	113.7	92.9	105.1	94.0	85.3	69.7	60.0	50.9	45.0	48.1	47.7	43.3	41.7
CONSTRUCTION STEEL		.41	71.6	62.5	55.3	64.5	54.9	55.3	42.7	44.0	38.8	40.2	43.1	44.7	43.6	44.7
CAN & CLOSURE STEEL		.13	66.9	67.3	71.6	56.3	74.9	58.6	50.3	53.1	48.2	46.5	60.5	85.2	40.2	46.1
MISC. STEEL		.65	147.8	135.5	120.5	123.1	108.2	115.0	92.9	88.0	83.6	90.1	91.9	90.6	90.8	90.0
IRON & STEEL FOUNDRIES	332	.87	89.1	79.8	69.9	73.6	71.5	68.2	63.4	63.8	59.9	57.8	56.5	51.9	52.1	51.5

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Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PROPORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	1982 FEB.	1982 MAR.	1982 APR.	1982 MAY	1982 JUNE	1982 JULY	1982 AUG.	1982 SEP.	1982 OCT.	1982 NOV.
PAPER AND PRODUCTS	26	3.21														
PULP AND PAPER	261-3	1.38	148.7	148.0	123.9	141.0	153.4	153.0	145.3	142.1	143.4	126.7	145.1	141.8	146.1	144.1
WOOD PULP	261	.50	141.3	141.0	115.2	130.4	145.0	147.6	139.6	136.9	138.0	119.7	135.6	131.5	135.7	
PAPER	262	.54	152.0	154.0	131.7	151.7	159.9	157.4	149.7	145.3	147.9	134.4	155.0	148.3	157.8	150.5
PAPERBOARD	263	.34	154.4	148.8	124.3	139.9	155.5	154.1	146.9	144.6	144.1	124.8	143.4	146.9	143.3	148.8
CONVERTED PAPER PROD.	264	.93	173.5	173.9	154.8	171.2	180.9	182.0	176.5	171.9	176.1	158.9	180.2	178.2	185.0	177.7
SANITARY PAPER PROD.	2647	.18	147.2	146.7	131.2											
PAPERBOARD CONTAINERS	265	.84	150.4	139.4	125.4	136.3	149.8	149.6	146.4	140.4	147.4	133.8	149.9	151.7	157.9	139.8
BUILDING PAPER AND BOARD	266	.06	82.1	63.7	49.4	57.7	64.2	65.3								
PRINTING AND PUBLISHING	27	4.72														
NEWSPAPERS	271	1.38	108.1	116.4	111.0	96.5	105.6	107.5	109.0	107.9	103.2	94.7	97.6	106.4	112.1	113.9
PERIOD.,BOOKS,CARDS	272,3,7	1.38	132.7	127.7	124.7	124.4	130.3	126.0	127.0	126.3	132.2	142.8	151.4	145.4	134.4	128.2
JOB PRINTING	274-6,8,9	1.96	178.1	176.9	167.5	161.2	166.2	167.4	166.5	174.9	189.0	197.9	206.2	202.0	185.7	173.9
CHEMICALS AND PRODUCTS	28	7.74														
CHEMICALS & SYN. MAT.	281,2	3.79	228.6	210.4	196.5	193.0	211.4	209.5	206.1	196.6	195.2	183.3	187.6	196.6	191.0	190.1
BASIC CHEMICALS	281	2.54	186.8	175.0	170.0	166.1	171.4	169.2	166.1	157.1	153.7	147.3	147.4	148.6	147.5	149.9
ALKALIES & CHLORINE	2812	.14	114.7	100.7	98.2	96.9	109.8	102.8	109.4	101.4	103.1	100.5	90.9	90.7	97.0	98.8
GASES,ETC.	2813,5,6	.48	181.5	162.4	151.8	157.2	187.4	170.2	167.7	162.0	153.5	154.4	157.6	163.2	146.8	
BASIC ORG. CHEM.	2818	1.18	236.7	228.2	221.9	214.6	206.2	209.2	207.8	195.0	189.3	178.4	175.2	174.7	176.8	179.0
INORG. CHEM. NEC	2819	.75	125.5	113.5	113.7	108.9	118.3	118.2	110.5	105.0	107.4	103.0	107.8	109.4	111.5	111.4
ACIDS & FERTILIZER MAT		.55	137.2	120.9	120.5	114.6	128.9	126.7	116.8	108.6	113.0	106.2	112.8	116.6	118.2	118.9
SULFURIC ACID, ETC.		.41	128.4	111.7	111.4	107.7	121.8	117.3	106.6	98.5	104.6	98.8	106.1	109.7	111.9	111.9
FERTILIZER MATERIALS		.14	162.8	147.7	147.0	134.4	149.6	154.0	146.2	138.0	137.4	127.7	132.1	136.7	136.6	
ERDA NUCLEAR MATLS		.15	85.0	84.5	86.7	84.7	78.6	86.8	83.8	86.1	82.4	85.1	85.2	79.1	83.6	80.8
SYNTHETIC MATERIALS	282	1.25	313.7	282.7	250.5	247.7	292.8	291.7	287.5	277.0	279.7	256.5	269.6	294.4	279.6	273.2
PLASTICS MATERIALS	2821	.54	429.3	384.3	339.9	335.0	413.8	424.8	420.2	408.4	405.0	381.0	400.6	432.0	405.6	
SYNTHETIC RUBBER	2822	.13	103.3	98.7	76.0	85.1	97.8	103.2	97.0	94.2	87.5	71.2	74.9	79.6	81.9	
MAN-MADE FIBERS	2823,4	.58	254.4	230.4	207.5	203.8	225.0	211.2	207.9	196.8	207.2	183.3	192.5	215.8	207.8	202.8
CHEMICAL PRODUCTS	283-7,9	3.95	203.0	197.5	187.3	184.7	185.9	189.1	191.5	193.6	206.5	207.9	207.8	209.4	200.4	193.0
DRUGS AND MEDICINES	283	1.34	267.1	264.4	251.4	245.1	243.8	247.2	254.0	255.1	285.9	294.1	288.8	293.6	277.0	266.5
SOAP AND TOILETRIES	284	1.29	177.0	172.8	167.3	164.9	168.8	168.2	163.5	166.4	173.6	177.6	181.0	181.5	179.2	171.9
PAINTS	285	.43	127.4	97.9	83.3	96.6	105.6	112.4	123.4	139.4	140.1	118.5	132.2	129.1	111.1	96.0
AGRICULTURAL CHEMICALS	287	.33	241.4	243.1	224.8	219.3	211.9	230.1	230.2	217.0	213.3	212.9	208.6	199.7	189.6	191.0
PETROLEUM PRODUCTS	29	1.79														
PETROLEUM REFINING	291,9	1.64	129.8	130.9	132.4	123.3	118.9	118.8	117.0	121.4	127.7	128.2	122.9	124.2	123.1	122.3
AUTOMOTIVE GASOLINE		.84	127.9	134.5	136.0	125.8	119.9	121.6	123.7	128.1	137.1	137.5	130.6	132.3	126.8	124.7
DISTILLATE FUEL OIL		.29	120.3	122.0	129.3	118.7	111.0	104.1	106.9	118.8	123.9	124.0	114.6	120.6	128.7	131.3
RESIDUAL FUEL OIL		.05	181.2	153.8	170.9	167.5	150.3	148.2	153.7	149.0	142.5	136.1	133.3	133.2	125.8	132.4
AVIATION FUEL & KEROS.		.17	96.8	93.9	97.6	90.2	100.4	106.5	98.0	86.2	89.8	92.4	94.5	95.1	96.8	96.7
MISC. PETROLEUM PROD.		.28														
REFINERY FUEL NEC		.06														
REFINERY NONFUEL MAT.		.14														
REFINERY PRODUCTS NEC		.08														
RUBBER & PLASTICS PROD.	30	2.24														
TIRES	301	.60	142.1	135.2	106.8	131.2	157.1	153.5	142.7	142.5	144.9	108.6	132.6	140.2	145.4	138.2
RUB. PROD. EX. TIRES	302,3,6	.66	144.5	141.1	133.4	121.9	130.4	131.1	130.0	127.9	132.6	122.0	128.5	128.9	126.8	124.6
PLASTICS PRODUCTS NEC	307	.98	442.7	434.4	395.8	376.2	422.2	417.1	413.8	407.6	420.8	397.6	423.3	435.1	427.0	415.5
LEATHER AND PRODUCTS	31	.86														
PERS. LEATHER GDS.	313,5-7,9	.22	91.0	96.8	91.7	79.0	82.4	81.0	80.4	81.1	81.7	76.3	79.4	78.1	77.4	77.4
SHOES	314	.53	61.8	62.8	50.5	55.4	61.3	58.1	53.0	59.6	55.6	46.6	55.1	56.6	58.5	51.4
CLAY, GLASS, & ST. PROD.	32	2.74														
PRESSED AND BLOWN GLASS	322	.49	161.5	151.8	132.8	142.3	159.7	156.3	153.9	151.3	158.4	148.7	160.1	159.7	154.8	142.7
GLASS CONTAINERS	3221	.28	143.5	129.5	104.7	128.4	151.7	144.5	142.6	143.5	151.7	136.6	152.0	150.7	145.6	124.6
CEMENT	324	.27	102.2	98.8	72.2	49.5	62.0	79.1	90.3	101.3	113.3	108.3	115.1	113.1	111.5	
STRUCTURAL CLAY PRODUCTS	325	.20	94.7	86.6	81.7	71.1	71.0	71.9	72.5	70.7	80.1	76.7	77.0	80.4	79.1	79.1
BRICK	3251	.08	75.4	65.6	58.3	42.9	45.8	50.1	53.1	56.0	68.6	61.7	65.1	70.7	66.0	65.0
CONCRETE,MISC.CLAY MFR.	326-9	1.51	151.2	141.5	131.8	123.5	133.0	129.6	129.3	124.2	130.4	125.5	130.3	131.1	129.1	129.2
PRIMARY METALS	33	6.57														
IRON AND STEEL	331,2	4.21														
BASIC STEEL & MILL PRD	331	3.34	102.5	83.5	76.6	80.3	79.1	79.3	71.3	67.3	60.8	56.9	56.2	55.5	52.3	48.1
BASIC IRON AND STEEL		1.34	91.6	74.4	70.5	71.3	73.5	71.8	64.7	58.6	55.4	50.8	48.9	48.3	45.7	41.6
PIG IRON		.46	83.8	66.4	63.8	60.3	62.0	62.1	55.1	52.4	49.9	47.2	44.0	43.9	41.3	36.8
RAW STEEL		.72	102.5	83.2	78.4	79.7	82.2	81.6	74.2	65.4	61.1	54.6	53.3	53.1	50.3	46.4
COKE AND PRODUCTS		.16	64.7	57.6	53.6	64.5	66.6	55.5	49.4	45.7	45.0	44.3	42.8	39.0	37.4	33.8
STEEL MILL PRODUCTS		2.01	109.8	89.6	80.7	86.2	82.8	84.2	75.8	73.0	64.4	61.0	61.0	60.3	56.7	52.4
CONSUMER DUR. STEEL		.31	81.3	57.4	50.0	57.8	52.9	60.9	60.8	64.6	58.0	52.6	51.3	46.9	43.1	38.9
EQUIPMENT STEEL		.51	120.5	104.4	87.5	100.8	96.4	88.6	77.6	66.9	52.5	43.4	45.7	45.6	42.8	38.3
CONSTRUCTION STEEL		.41	71.6	55.6	50.6	51.9	51.6	53.3	48.4	49.6	44.6	44.7	43.6	43.5	42.5	39.7
CAN & CLOSURE STEEL		.13	66.9	53.3	65.4	67.2	80.7	59.5	49.2	55.5	52.8	51.1	59.3	77.4	36.1	36.5
MISC. STEEL		.65	147.8	122.2	112.1	113.9	106.5	116.5	104.1	100.2	91.6	91.1	89.0	85.3	87.4	81.2
IRON & STEEL FOUNDRIES	332	.87	89.1	76.5	59.7	70.8	75.0	73.3	68.0	68.3	65.6	51.4	52.6	52.0	54.3	49.4

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Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PROPORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	1982 FEB.	1982 MAR.	1982 APR.	1982 MAY	1982 JUNE	1982 JULY	1982 AUG.	1982 SEP.	1982 OCT.	1982 NOV.
NONFERROUS METALS	333-6,9	2.36	122.4	112.8	108.0	108.9	106.7	100.7	95.9	97.0	98.9	102.9	100.3	106.2	95.5	94.3
PRIMARY NONF. METALS	333	.45	131.9	118.0	117.1	111.3	113.5	108.8	103.0	102.8	103.5	99.3	93.6	96.0	89.6	90.3
COPPER	3331	.09	135.6	128.0	140.3	117.6	129.2	113.1	106.2	88.6	96.3	99.1	80.1	91.4	78.6	87.8
ALUMINUM	3334	.27	151.4	132.7	128.5	124.3	124.1	123.3	119.6	116.3	112.5	108.2	104.9	101.5	98.3	97.0
SECONDARY NONF. METALS	334	.09	140.5	147.2	141.6	133.5	121.6	125.9	129.0	129.8	135.2	129.2	130.5	126.0	123.7	
NONFERROUS PRODUCTS	335,6	1.45	124.0	112.1	105.8	111.0	106.3	98.6	93.7	97.0	100.9	105.6	106.8	117.1	102.2	100.2
NONFERROUS MILL PROD	335	1.09	138.9	126.1	120.0	126.0	120.1	110.0	103.1	106.3	109.8	116.9	120.2	134.1	115.5	113.1
COPPER MILL PROD		.48	115.7	106.2	102.4	104.6	86.9	77.2	70.9	78.0	72.7	88.8	94.7	106.4	88.6	75.2
ALUMINUM MILL PROD		.61	157.1	141.7	133.9	142.7	146.2	135.7	128.3	128.5	139.0	138.9	140.2	155.9	136.6	142.8
CONSTRUCTION		.13	166.6	156.4	141.6	158.1	165.3	139.3	141.7	143.5	148.0	157.0	148.8	155.4	153.2	162.5
NONCONSTRUCTION		.48	154.4	137.7	131.7	138.6	141.0	134.8	124.7	124.4	136.5	134.0	137.9	156.0	132.1	137.5
NONFERROUS FOUNDRIES	336	.35	77.6	68.4	61.4	64.3	63.2	63.0	64.4	67.9	73.1	70.5	65.0	63.9	60.6	60.2
FABRICATED METAL PRODUCTS	34	5.93														
METAL CANS	341	.38	128.4	128.0	124.6	120.8	121.1	125.9	122.5	112.3	112.9	107.0	106.9	111.4	109.5	109.3
HDWE,PLUMB,STRUCT,MET	342-4	2.67	144.7	138.0	136.4	134.5	133.0	131.0	128.7	124.0	123.8	123.7	123.6	119.0	114.3	113.8
HARDWARE, TOOLS, CUTL	342	.76	131.5	125.2	120.8	117.3	113.4	114.3	111.7	112.5	114.7	114.2	119.1	109.5	105.6	106.3
STRUCTURAL METAL PROD	344	1.62	154.0	147.6	148.0	147.0	145.7	142.0	139.8	132.0	130.3	131.1	128.0	125.3	119.4	118.1
OTHER FAB. MET. PROD.	345-9	2.89	129.8	122.2	116.4	109.9	110.7	110.5	109.0	108.0	108.7	109.8	108.7	105.7	101.1	99.5
FASTENERS, STAMP.ETC	345-8	2.03	114.7	106.2	100.1	94.5	95.4	96.5	95.1	95.3	95.8	97.1	96.5	93.3	88.2	86.0
NONELECTRICAL MACHINERY	35	9.15														
ENGINE AND FARM EQUIP.	351,2	1.20	148.8	142.7	138.3	126.8	132.9	123.3	119.9	122.5	117.1	114.6	106.9	106.9	105.6	100.3
FARM TRACTORS		.19	78.4	78.4	82.5	52.0	71.3	59.7	55.8	54.5	53.3	44.8	28.6	57.5	68.2	41.2
CONSTRUCTION & ALLIED EQ	353	1.36	157.0	152.1	153.5	146.9	141.6	137.6	133.5	126.8	122.8	119.8	118.0	112.2	99.7	90.5
TRACKLAYING TRACTORS		.16	80.1	86.2	77.8	48.7	69.0	60.5	54.7	51.4	44.5	47.1	45.8	49.5	29.2	25.9
METALWORKING MACHINERY	354	1.67	124.2	118.1	115.6	114.7	115.8	117.0	112.5	107.9	105.5	106.1	104.8	100.4	97.1	95.1
SPEC,& GENL IND EQ	355,6	2.30	126.6	123.4	120.9	114.8	114.1	112.3	108.5	105.2	102.4	101.2	99.8	95.0	93.0	91.4
OFFICE, SERV, & MISC.	357-9	2.63	258.2	257.7	262.7	258.5	256.0	260.3	246.8	241.6	240.5	238.4	246.0	244.2	242.8	244.8
ELECTRICAL MACHINERY	36	8.05														
MAJOR ELECT. EQ.& PTS.	361,2	1.74	146.6	143.7	139.0	129.4	130.8	131.5	123.0	121.3	119.2	112.1	114.6	109.1	105.0	105.0
HOUSEHOLD APPLIANCES	363	.83	137.5	114.7	93.4	112.0	117.7	108.9	117.6	112.2	121.8	122.1	126.1	121.3	128.9	128.7
COOKING STOVES	3631	.08	121.7	96.6	68.2	90.4	104.5	76.6	103.6	90.7	100.7	107.5	101.7	100.9	120.4	125.2
REFRIGERATION APPL.	3632	.26	116.3	85.4	48.5	86.0	90.7	84.4	93.3	82.7	103.7	109.4	104.4	103.1	115.6	104.2
LAUNDRY APPLIANCES	3633	.13	123.6	106.4	65.2	109.9	116.8	106.7	109.8	110.4	113.6	126.5	100.8	102.3	114.5	128.8
MISC. APPLIANCES	3634-6,9	.36	162.1	143.5	142.8	136.8	140.8	135.1	141.6	139.6	143.0	133.2	157.3	146.5	146.2	147.4
TV AND RADIO SETS	365	.52	94.7	92.5	73.6	80.6	85.2	77.1	87.6	78.5	86.7	93.5	82.4	74.4	78.4	70.6
COMMUNICATION EQUIPMENT	366	2.30	161.5	161.1	165.3	162.7	167.1	169.2	168.7	167.8	167.3	171.5	166.0	165.8	166.8	166.5
ELECTRONIC COMPONENTS	367	1.43	311.7	314.0	314.4	308.1	321.8	321.6	319.4	317.5	313.4	321.8	310.7	302.5	301.3	302.4
TV TUBES	3671-3	.31	37.8	39.5	33.5	34.4	34.4	32.4	34.2	34.5	34.3	43.5	36.8	28.4	35.4	37.0
MISC. ELECTRICAL SUPP.	369	.49	183.2	177.7	163.5	165.1	173.7	175.2	178.4	183.9	177.5	174.6	173.3	171.4	171.4	165.9
STORAGE BATTERY,REPL.	3691	.09	224.7	207.3	200.2	217.7	232.5	227.9	245.6	264.6	230.9	229.5	231.2	232.9	233.7	226.2
TRANSPORTATION EQUIPMENT	37	9.27														
MOTOR VEHICLES AND PARTS	371	4.50														
AUTOS, TOTAL		1.90	103.4	81.1	78.1	61.3	70.5	79.8	87.2	96.1	101.9	114.6	93.3	94.3	79.5	77.7
LARGE AUTOS		1.79	54.5	48.1	48.6	42.0	50.6	48.9	54.3	60.2	67.8	76.8	55.5	57.9	47.9	50.3
SMALL AUTOS		.11	908.3	622.4	564.1	378.7	398.8	587.1	628.5	686.5	662.7	736.0	715.5	692.9	599.7	527.5
TRUCKS AND BUSES		.53	121.0	107.8	112.1	109.9	121.8	141.9	145.5	166.9	165.3	153.3	146.3	121.2	111.7	108.0
BUSINESS VEHICLES		.40	86.9	76.3	75.5	72.9	79.9	91.5	96.5	109.8	108.1	98.8	93.1	71.1	70.6	
UTILITY VEHICLES		.13	223.1	202.1	221.6	220.7	247.0	292.7	292.0	337.7	336.5	316.4	305.4	271.4	234.7	
TRUCK TRAILERS		.09	151.3	154.6	148.0	128.5	121.0	126.7	116.1	124.0	115.0	100.7	114.8	103.7	99.2	108.6
MOTOR VEHICLE PARTS		1.98	139.5	126.1	116.6	111.6	118.5	119.9	123.8	129.7	134.6	133.6	131.4	130.2	123.5	122.9
AIRCRAFT AND PARTS	372	3.73	105.0	103.2	103.6	99.8	102.1	101.1	99.1	97.8	97.2	97.2	95.2	96.1	97.8	97.1
SHIPS AND BOATS	373	.56	145.8	140.8	138.2	127.2	134.0	132.1	129.3	130.1	127.9	129.2	133.0	132.2	125.9	123.8
RAIL & MISC TRANS EQ	374,5,9	.49	108.9	91.3	94.5	95.2	93.1	90.5	84.4	89.3	88.9	83.0	76.2	75.1	74.2	76.3
RAILROAD EQUIPMENT	374	.26	76.5	51.5	56.8	54.8	49.4	46.3	39.0	49.8	49.5	38.0	26.1	26.6	27.9	24.8
MOBILE HOMES	379	.18	110.0	99.4	102.2	105.7	116.2	113.7	106.6	114.1	111.4	109.1	108.4	107.1	104.3	
INSTRUMENTS	38	2.11														
EQUIPMENT INSTR.& PTS.	381-4	1.07	187.9	185.9	186.5	180.8	184.2	181.3	179.3	180.4	180.6	182.2	183.1	179.8	175.7	173.0
CONSUMER INSTR. PROD.	385-7	1.04	152.0	147.5	145.9	144.9	145.8	146.4	146.4	146.7	147.4	148.6	145.1	142.2	135.0	131.9
MISC. MANUFACTURES	39	1.51														
MISC. CONS. GOODS	391,3,4,6	.86	161.4	157.3	150.8	149.7	146.9	152.2	147.9	140.8	136.1	145.1	145.5	138.0	137.1	136.6
MISC. BUS. SUPPLIES	395,9	.65	146.7	144.5	141.5	140.1	139.3	139.7	135.7	132.2	123.8	123.2	122.4	122.7	121.9	120.6
ELECTRIC UTILITIES		3.88	190.9													
ELEC UTIL GENERATION		1.90	185.7	185.4	183.1	189.5	184.8	182.7	182.6	186.0	184.8	182.7	183.6	179.4	182.0	
FOSSIL FUEL GENERATION		1.54	174.9	173.8	168.6	175.5	169.7	165.5	164.5	168.2	166.8	164.4	166.9	160.7	163.9	
HYDRO & NUCLEAR GENERAT.		.36	232.1	235.4	245.6	249.9	249.7	256.6	260.2	262.5	262.1	261.1	255.5	259.9	259.9	
ELEC UTIL SALES		1.98	196.0	196.1	197.0	200.7	199.9	200.4	203.3	200.6	198.1	195.4	195.9	196.6		
RESIDENTIAL KWH		.83	207.7	209.6	209.8	216.9	216.1	214.4	221.6	220.2	215.7	209.3	212.5	211.8		
NONRESIDENTIAL KWH		1.15	187.6	186.4	187.8	189.1	188.4	190.4	190.2	186.4	185.5	185.4	184.0	185.7		
SIC KWH		.47	150.0	143.9	142.7	139.4	136.0	135.1	133.3	131.2	131.0	132.5	132.9	130.3		
COMMERCIAL & OTHER KWH		.65	212.8	214.9	218.6	223.1	223.3	227.2	228.5	224.1	223.3	222.3	219.8	224.6		
GAS UTILITIES		1.81														
GAS TRANSMISSION		.65														
GAS SALES		1.17														
RESIDENTIAL GAS		.62														
INDUSTRIAL GAS		.35														
COM'L & OTHER GAS		.20														

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Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967 PROPORTION	1981 AVG.	1981 NOV.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
NONFERROUS METALS	333-6,9	2.36	122.4	109.4	101.8	106.3	110.4	107.6	102.4	103.0	103.8	89.8	95.7	104.8	95.2	90.9
PRIMARY NONF. METALS	333	.45	131.9	120.7	119.5	113.9	115.8	109.5	105.2	103.8	101.5	91.8	90.0	93.9	91.3	92.4
COPPER	3331	.09	135.6	132.7	141.4	117.9	135.2	121.7	116.6	96.0	94.8	75.3	71.9	88.6	80.4	91.3
ALUMINUM	3334	.27	151.4	135.6	131.2	126.3	124.2	121.1	118.6	115.6	111.6	107.0	103.4	100.9	99.2	99.1
SECONDARY NONF. METALS	334	.09	140.5	149.6	129.5	127.9	131.0	134.4	136.3	133.2	142.7	107.1	128.1	124.9	127.1	
NONFERROUS PRODUCTS	335,6	1.45	124.0	104.4	95.5	106.6	110.4	108.2	103.3	105.9	108.4	92.1	101.3	115.0	100.5	93.3
NONFERROUS MILL PROD	335	1.09	138.9	116.4	108.5	119.7	123.5	121.2	114.7	117.2	118.3	103.6	114.3	131.5	112.5	104.2
COPPER MILL PROD		.48	115.7	98.9	92.7	101.4	88.8	93.0	84.1	89.1	75.6	69.7	83.1	102.0	86.3	70.0
ALUMINUM MILL PROD		.61	157.1	130.1	120.9	134.1	150.7	143.3	138.8	139.2	151.8	130.2	138.8	154.7	133.0	131.1
CONSTRUCTION		.13	166.6	145.0	119.3	141.9	165.2	147.7	153.7	155.7	164.9	149.0	155.5	155.1	152.4	150.6
NONCONSTRUCTION		.48	154.4	126.0	121.3	132.0	146.8	142.1	134.7	134.7	148.3	125.1	134.2	154.6	127.7	125.8
NONFERROUS FOUNDRIES	336	.35	77.6	67.2	55.0	65.7	69.7	67.9	67.6	70.7	77.3	56.3	60.9	63.4	63.1	59.1
FABRICATED METAL PRODUCTS	34	5.93														
METAL CANS	341	.38	128.4	123.1	115.3	113.4	119.0	123.1	119.6	111.7	117.1	114.4	114.9	117.2	110.5	105.1
HDWE,PLUMB,STRUCT,MET	342-4	2.67	144.7	141.0	136.8	131.6	135.5	133.0	127.9	122.8	123.8	118.8	121.8	120.5	116.5	116.2
HARDWARE, TOOLS, CUTL	342	.76	131.5	127.5	118.6	114.0	115.4	116.4	111.9	112.2	114.9	110.2	115.5	112.2	108.9	108.3
STRUCTURAL METAL PROD	344	1.62	154.0	151.0	150.1	144.3	148.2	143.9	138.4	130.6	130.2	125.6	127.4	125.8	121.0	120.8
OTHER FAB. MET. PROD.	345-9	2.89	129.8	123.7	115.0	105.4	112.5	112.7	109.5	108.4	110.7	106.0	107.0	107.2	102.5	100.7
FASTENERS, STAMP.ETC	345-8	2.03	114.7	107.9	98.7	90.0	97.0	98.4	95.8	95.7	97.7	93.2	94.6	94.8	89.9	87.4
NONELECTRICAL MACHINERY	35	9.15														
ENGINE AND FARM EQUIP.	351,2	1.20	148.8	141.3	139.3	127.5	137.3	127.0	120.4	120.6	118.6	107.6	101.9	109.7	107.4	99.7
FARM TRACTORS		.19	78.4	67.4	70.0	55.9	82.2	68.0	63.8	57.8	60.8	29.3	22.8	59.8	74.3	35.4
CONSTRUCTION & ALLIED EQ	353	1.36	157.0	156.2	155.7	140.3	142.7	135.9	131.7	124.4	123.7	116.6	115.8	117.2	102.4	93.2
TRACKLAYING TRACTORS		.16	80.1	80.4	72.9	48.0	78.3	65.0	59.0	53.2	47.9	39.6	38.4	51.0	30.2	24.2
METALWORKING MACHINERY	354	1.67	124.2	118.0	112.8	111.4	117.2	117.2	112.5	105.6	107.0	104.6	104.7	104.0	99.4	95.0
SPEC,& GENL IND EQ	355,6	2.30	126.6	125.0	118.9	111.2	114.4	111.7	107.8	104.7	104.7	99.2	99.4	98.7	94.2	92.6
OFFICE, SERV, & MISC.	357-9	2.63	258.2	256.3	247.7	240.8	249.3	248.9	240.5	236.7	250.0	253.7	259.1	260.5	250.4	243.9
ELECTRICAL MACHINERY	36	8.05														
MAJOR ELECT. EQ.& PTS.	361,2	1.74	146.6	141.8	133.6	123.9	127.6	130.2	123.4	121.4	123.0	113.8	114.9	113.1	109.2	103.7
HOUSEHOLD APPLIANCES	363	.83	137.5	110.3	79.8	109.3	123.7	114.6	125.4	115.9	128.7	112.9	117.5	124.3	139.8	122.8
COOKING STOVES	3631	.08	121.7	90.5	57.8	87.8	110.4	79.9	111.7	99.1	111.0	87.6	99.2	101.7	133.0	117.1
REFRIGERATION APPL.	3632	.26	116.3	72.9	33.7	89.2	96.7	94.0	108.0	95.2	123.9	116.1	72.4	98.0	117.3	89.2
LAUNDRY APPLIANCES	3633	.13	123.6	93.1	48.1	102.8	120.8	115.4	120.8	119.9	116.4	101.1	117.4	104.2	128.7	112.8
MISC. APPLIANCES	3634-6,9	.36	162.1	148.8	130.6	131.5	147.8	137.4	143.1	133.5	141.0	120.8	154.9	156.3	162.0	152.6
TV AND RADIO SETS	365	.52	94.7	98.2	63.7	75.0	83.9	76.3	83.9	82.1	86.0	72.7	88.8	85.0	90.5	75.0
COMMUNICATION EQUIPMENT	366	2.30	161.5	164.9	171.3	162.0	167.1	169.2	164.6	165.7	167.8	166.7	165.0	166.4	168.2	170.4
ELECTRONIC COMPONENTS	367	1.43	311.7	321.7	320.5	303.0	315.7	315.1	312.6	315.4	318.8	310.8	314.0	308.3	308.4	310.0
TV TUBES	3671-3	.31	37.8	38.4	24.7	33.3	34.0	33.0	36.0	38.0	34.0	33.0	39.9	33.1	41.1	36.0
MISC. ELECTRICAL SUPP.	369	.49	183.2	189.2	176.8	165.8	171.5	164.9	166.2	170.4	170.1	163.4	173.8	185.4	184.4	177.4
STORAGE BATTERY,REPL.	3691	.09	224.7	244.8	240.4	245.0	236.2	185.0	182.2	189.7	184.2	183.9	241.1	295.8	301.9	267.0
TRANSPORTATION EQUIPMENT	37	9.27														
MOTOR VEHICLES AND PARTS	371	4.50														
AUTOS, TOTAL		1.90	103.4	86.8	67.3	59.9	73.2	90.0	98.2	108.6	114.7	92.1	72.6	85.2	87.8	82.3
LARGE AUTOS		1.79	54.5	52.0	42.9	42.8	54.1	55.8	61.4	68.0	75.9	60.3	41.6	51.0	52.7	52.3
SMALL AUTOS		.11	908.3	659.7	468.2	340.8	386.8	651.7	703.9	775.8	752.2	614.6	581.7	647.8	665.7	575.0
TRUCKS AND BUSES		.53	121.0	104.9	91.3	109.7	134.6	158.0	157.6	170.2	180.2	134.3	118.9	121.6	123.5	105.4
BUSINESS VEHICLES		.40	86.9	71.7	60.4	75.1	91.9	105.2	103.3	112.0	116.8	83.0	74.5	72.5	77.7	
UTILITY VEHICLES		.13	223.1	204.1	183.9	213.4	262.4	316.1	320.0	344.5	370.1	287.9	251.6	268.7	260.5	
TRUCK TRAILERS		.09	151.3	149.5	130.6	112.1	132.4	139.9	128.0	128.5	123.2	92.8	114.4	100.2	97.4	105.0
MOTOR VEHICLE PARTS		1.98	139.5	128.0	121.5	110.2	116.3	119.0	122.4	130.0	136.6	132.3	128.9	128.7	124.7	124.6
AIRCRAFT AND PARTS	372	3.73	105.0	104.8	106.1	100.4	102.8	101.5	98.2	98.1	97.2	95.3	92.7	95.9	97.3	98.7
SHIPS AND BOATS	373	.56	145.8	142.9	143.2	123.6	133.5	132.5	132.7	132.2	129.9	126.9	126.6	129.1	127.2	125.7
RAIL & MISC TRANS EQ	374,5,9	.49	108.9	89.1	84.8	79.9	89.2	94.5	92.8	94.4	97.3	76.1	80.8	79.7	79.1	72.8
RAILROAD EQUIPMENT	374	.26	76.5	53.9	61.9	53.8	47.9	52.5	41.6	49.6	49.0	32.5	24.0	26.1	27.1	26.0
MOBILE HOMES	379	.18	110.0	89.6	73.9	79.4	103.3	115.5	122.0	124.9	129.6	106.5	122.0	116.6	117.4	
INSTRUMENTS	38	2.11														
EQUIPMENT INSTR.& PTS.	381-4	1.07	187.9	188.5	185.0	172.5	180.4	178.4	176.3	179.1	185.8	182.9	185.7	186.8	178.9	175.5
CONSUMER INSTR. PROD.	385-7	1.04	152.0	150.4	148.0	141.3	143.4	144.2	143.7	146.3	149.8	147.6	145.9	144.2	136.7	134.5
MISC. MANUFACTURES	39	1.51														
MISC. CONS. GOODS	391,3,4,6	.86	161.4	159.1	143.3	136.6	145.0	148.0	145.7	140.0	140.6	139.4	151.7	152.0	143.8	138.1
MISC. BUS. SUPPLIES	395,9	.65	146.7	145.2	138.3	134.4	138.0	140.2	133.7	130.0	125.7	121.8	125.4	126.9	125.6	121.2
ELECTRIC UTILITIES		3.88	190.9													
ELEC UTIL GENERATION		1.90	185.7	177.9	183.5	204.7	190.3	176.2	168.3	172.8	190.4	197.5	200.3	176.0	168.5	
FOSSIL FUEL GENERATION		1.54	174.9	166.3	167.6	188.2	172.6	155.4	146.8	152.4	171.2	181.4	187.3	161.7	155.3	
HYDRO & NUCLEAR GENERAT.		.36	232.1	227.9	251.7	275.5	266.2	265.6	260.5	260.4	272.8	266.8	256.1	237.3	225.3	
ELEC UTIL SALES		1.98	196.0	178.3	195.1	224.4	210.5	195.7	183.9	175.5	189.6	211.8	220.5	207.8		
RESIDENTIAL KWH		.83	207.7	179.0	214.5	268.8	243.7	213.3	193.6	173.1	192.8	231.7	246.5	222.3		
NONRESIDENTIAL KWH		1.15	187.6	177.8	181.2	192.5	186.7	183.0	177.0	177.2	187.3	197.5	201.8	197.4		
SIC KWH		.47	150.0	146.1	141.6	135.6	131.2	134.6	133.0	133.0	132.8	130.5	133.4	132.8		
COMMERCIAL & OTHER KWH		.65	212.8	199.2	208.8	232.6	224.1	215.6	206.4	206.9	224.4	243.3	248.9	243.3		
GAS UTILITIES		1.81														
GAS TRANSMISSION		.65														
GAS SALES		1.17														
RESIDENTIAL GAS		.62														
INDUSTRIAL GAS		.35														
COM'L & OTHER GAS		.20														

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Table 5

INDUSTRIAL PRODUCTION: INDEXES; 1967=100

Quarterly averages, seasonally adjusted

SUMMARY GROUPINGS	1981 III	1981 IV	1982 I	1982 II	1982 III	1982 IV
TOTAL INDEX	153.0	146.3	141.8	139.4	138.2	135.1
PRODUCTS, TOTAL	152.2	147.7	143.7	142.4	141.8	138.9
FINAL PRODUCTS	151.2	147.5	143.4	142.3	141.2	138.1
CONSUMER GOODS	149.4	144.2	141.0	143.5	144.4	141.6
DURABLE CONSUMER GOODS	143.1	129.7	124.7	132.6	133.8	126.4
AUTOMOTIVE PRODUCTS	141.4	124.6	117.2	137.3	140.2	125.1
HOME GOODS	144.1	132.6	128.9	130.0	130.2	127.1
NONDURABLE CONSUMER GOODS	151.9	149.9	147.4	147.8	148.6	147.6
CLOTHING	121.3	115.9				
CONSUMER STAPLES	160.3	159.3	158.7	159.1	159.3	158.0
CONSUMER ENERGY	148.9	148.9	147.9	152.8	150.4	
(HOME GOODS AND CLOTHING)	133.6	124.9	118.7	119.5	120.9	119.4
EQUIPMENT	153.7	151.9	146.8	140.7	136.8	133.4
BUSINESS EQUIPMENT	184.0	179.5	170.9	160.5	153.1	145.0
INDUSTRIAL EQUIPMENT	169.5	165.3	155.1	139.6	127.8	116.3
COMMERCIAL, TRANSIT, FARM EQ.	200.6	195.8	189.3	184.7	182.3	178.1
DEFENSE AND SPACE EQUIPMENT	102.8	105.6	106.2	107.5	109.5	113.8
INTERMEDIATE PRODUCTS	155.9	148.7	145.0	142.7	143.7	141.8
CONSTRUCTION SUPPLIES	142.7	130.8	125.8	123.0	125.6	123.0
BUSINESS SUPPLIES	169.0	166.4	164.0	162.4	161.8	
COMMERCIAL ENERGY PRODUCTS	176.9	176.2	183.4	180.7	179.0	
MATERIALS	154.3	144.0	138.7	134.7	132.6	129.2
DURABLE GOODS MATERIALS	152.8	140.2	130.9	127.1	124.7	118.2
BASIC METAL MATERIALS	115.0	101.0	92.5	79.7	76.5	
NONDURABLE GOODS MATERIALS	175.8	164.5	161.0	156.8	155.1	156.2
TEXTILE, PAPER AND CHEMICAL MAT	182.8	169.4	164.5	160.5	158.4	159.9
TEXTILE MATERIALS	115.5	106.8	101.3	101.8	102.0	
PAPER MATERIALS	152.2	147.0	146.1	142.0	145.9	
CHEMICAL MATERIALS	224.9	206.2	200.0	194.0	188.5	
ENERGY MATERIALS	131.6	127.9	129.8	125.5	123.8	122.0
MANUFACTURING	152.5	145.0	139.8	138.1	137.7	134.3
DURABLE	142.6	134.5	128.2	126.1	124.8	119.7
NONDURABLE	166.8	160.2	156.7	155.5	156.4	155.4
MINING AND UTILITIES	157.7	155.4	155.4	148.5	141.2	140.4
MINING	145.8	143.7	141.7	128.8	117.2	116.8
UTILITIES	170.9	168.4	170.7	170.4	167.9	166.8

Table 6

INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1972 dollars at annual rates, seasonally adjusted

1981 III	1981 IV	1982 I	1982 II	1982 III	1982 IV
616.4	598.5	584.1	584.1	579.9	567.6
477.1	465.9	454.1	456.2	450.9	440.3
320.3	310.7	304.0	310.7	311.1	304.9
83.9	74.5	71.0	77.7	79.0	73.0
38.4	32.8	30.3	36.8	37.8	32.8
45.5	41.7	40.7	40.9	41.2	40.2
236.5	236.1	233.0	233.0	232.1	231.9
31.2	29.7				
205.3	206.5	205.7	205.8	203.8	203.6
42.5	43.0	42.4	43.7	43.3	
76.7	71.4	68.0	68.2	69.5	68.6
156.8	155.2	150.1	145.4	139.8	135.4
113.7	111.0	105.8	100.6	94.2	87.8
54.0	52.8	49.4	44.3	40.5	36.5
59.7	58.2	56.4	56.3	53.8	51.2
43.1	44.2	44.4	44.9	45.6	47.6
139.3	132.6	130.0	128.0	129.0	127.3
60.6	54.9	53.2	52.1	53.6	52.2
78.8	77.7	76.8	75.8	75.4	
19.3	19.3	19.9	19.7	19.4	

Table 7

INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1972 dollars at annual rates, seasonally adjusted

MAJOR MARKET GROUPINGS	1972 DOLLARS	1981 AVG.	1981 DEC.	1982 JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
PRODUCTS, TOTAL	507.4	612.3	592.8	577.4	588.1	586.8	582.1	586.1	584.1	585.8	578.5	575.3	568.6	566.4	567.8
FINAL PRODUCTS	390.9	474.1	462.3	448.8	457.1	456.6	453.5	458.3	456.7	457.2	449.2	446.3	441.0	438.9	441.0
CONSUMER GOODS	277.5	318.0	307.2	298.9	306.3	306.9	306.7	312.3	313.1	314.9	309.1	309.3	305.6	304.0	305.2
DURABLE CONSUMER GOODS	82.0	81.8	70.6	67.2	71.6	74.0	75.7	77.9	79.5	82.6	77.7	76.6	72.8	72.0	74.2
AUTOMOTIVE PRODUCTS	41.1	37.1	31.1	27.6	30.3	32.9	34.4	37.4	38.6	41.0	36.3	36.2	32.3	31.7	34.3
HOME GOODS	40.9	44.6	39.5	39.6	41.3	41.2	41.3	40.6	40.9	41.6	41.4	40.5	40.5	40.3	39.9
NONDURABLE CONSUMER GDS	195.5	236.2	236.6	231.7	234.6	232.8	231.0	234.4	233.7	232.3	231.3	232.7	232.8	232.0	230.9
CLOTHING	28.5	30.5	29.2												
CONSUMER STAPLES	167.0	205.7	207.4	204.6	207.0	205.6	204.3	206.8	206.2	203.9	203.1	204.4	204.6	203.5	202.7
CONSUMER ENERGY PROD	39.2	42.4	43.3	42.9	42.2	42.3	43.3	43.8	44.0	43.7	42.8	43.3	43.3	42.5	
(HOME GOODS & CLOTHING)	69.4	75.1	68.7	66.7	69.0	68.3	68.0	68.1	68.3	70.0	69.6	68.8	68.8	68.8	68.1
EQUIPMENT	113.4	156.1	155.1	149.9	150.8	149.7	146.8	146.0	143.5	142.3	140.1	137.0	135.4	134.9	135.9
BUSINESS EQUIPMENT	80.6	113.1	110.3	105.9	106.3	105.0	102.0	101.1	98.6	96.6	94.9	91.2	88.7	87.5	87.0
INDUSTRIAL EQUIPMENT	34.4	53.2	52.5	50.4	49.6	48.1	46.3	44.2	42.5	41.7	40.9	38.9	36.9	36.3	36.3
COM'L,TRANSIT,FARM EQ	46.2	59.9	57.8	55.5	56.7	56.9	55.7	56.9	56.1	54.9	54.0	52.4	51.8	51.2	50.7
DEFENSE & SPACE EQUIP.	32.7	43.1	44.8	43.9	44.5	44.7	44.7	44.9	44.9	45.7	45.3	45.7	46.7	47.4	48.9
INTERMEDIATE PRODUCTS	116.6	138.2	130.5	128.7	131.1	130.2	128.6	127.8	127.4	128.7	129.3	129.0	127.6	127.5	126.8
CONSTRUCTION SUPPLIES	57.8	60.3	53.0	52.6	53.9	53.1	52.0	52.0	52.4	53.5	53.8	53.4	52.6	52.4	51.6
BUSINESS SUPPLIES	58.8	78.0	77.5	76.1	77.2	77.1	76.7	75.8	75.1	75.1	75.5	75.6	75.0	75.1	
COMMERCIAL ENERGY PROD	15.6	19.3	19.6	19.7	19.9	20.2	20.0	19.5	19.5	19.4	19.3	19.5	19.7	19.8	

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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			
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	36.2	46.6	23.6
MAY	44.3	34.0	30.2
JUNE	46.4	44.0	39.8
JULY	53.0	48.9	46.2
AUGUST	45.5	53.8	40.4
SEPTEMBER	45.5	44.7	42.8
OCTOBER	34.7	38.1	42.1
NOVEMBER	42.8	36.6	41.7

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.

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Table 9A

ELECTRIC POWER USE BY INDUSTRIES

Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 3	1982 Q 4	1982 Q 1	1982 Q 2	1982 Q 3	1982 JUNE	JULY	AUG	SEP	OCT	NOV (P)	PERCENT CHG. FROM PREV: MO. (P)	PERCENT CHG. FROM PREV: YR. (P)
TOTAL		560.4	136.4	139.7	130.3	125.4	122.1	119.8	123.0	120.1	120.6	118.6	114.1	114.3	.2	-12.3
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	151.3	153.9	147.5	145.8	144.7	148.1	147.5	149.1	149.1	146.1	141.0	142.1	.7	-3.4
FINAL PRODUCTS		101.4	150.2	153.1	146.4	144.5	144.4	147.9	147.9	149.2	149.5	145.1	140.0	140.3	.2	-3.8
CONSUMER GOODS		67.4	155.8	158.7	151.2	149.3	150.6	155.1	155.5	157.1	156.5	151.7	146.2	147.2	.7	-2.4
EQUIPMENT		34.0	136.2	138.4	134.2	132.1	128.6	129.5	128.4	128.9	131.7	127.8	124.0	122.7	-1.0	-7.9
INTERMEDIATE PRODUCTS		34.7	154.7	156.7	151.0	149.7	145.7	148.8	146.6	148.8	148.0	149.5	144.3	147.4	2.2	-2.1
MATERIALS		424.3	131.5	134.9	124.6	118.9	114.6	110.0	114.7	110.4	110.8	108.8	104.9	105.1	.2	-15.8
DURABLE		237.7	130.6	132.8	122.4	112.8	103.5	96.2	102.1	95.1	97.9	95.7	92.6	91.9	-.7	-24.9
NONDURABLE		133.0	138.6	140.2	131.6	128.4	127.0	122.3	125.9	124.2	122.0	120.8	119.3	119.3	0.0	-9.8
ENERGY, EX. ERDA		23.8	171.2	176.3	180.5	180.3	182.1	174.4	180.9	176.7	171.7	174.8	173.7	179.1	3.1	-2.0
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.5	178.7	171.8	176.0	154.5	131.0	140.2	128.2	129.9	134.8	139.5	142.0	1.8	-15.6
MANUFACTURING		519.2	134.5	137.5	128.1	123.1	120.4	119.6	122.2	120.2	120.4	118.3	113.0	113.5	.4	-11.7
DURABLE	19,24-25,32-39	254.1	132.1	134.3	124.9	117.0	111.2	108.4	112.0	108.0	110.2	106.9	102.1	101.5	-.6	-18.8
NONDURABLE	20-23,26-31	265.1	136.8	140.5	131.3	129.1	129.3	130.1	132.0	131.3	130.8	128.3	123.3	125.1	1.5	-5.4
UTILITIES, OWN USE	491,2	6.5	140.1													
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	166.3	175.0	151.9	152.6	116.1	62.4	90.5	59.9	58.3	69.0	80.2	87.3	8.8	-40.4
IRON ORE	101	5.0	176.0	189.8	151.3	173.2	117.4	31.7	78.6	29.2	27.8	38.2	53.4	63.2	18.4	-53.5
COPPER ORE	102	3.0	166.1	171.8	160.4	126.9	114.2	102.6	106.5	103.6	104.5	99.8	118.1	124.0	5.0	-27.5
COAL	11,2	5.9	181.3	204.6	214.5	218.2	193.2	189.0	184.6	187.9	186.3	192.8	185.7	194.7	4.9	-10.0
OIL AND GAS EXTRACTION	13	11.9	185.8	187.7	188.9	192.3	194.0	191.2	190.2	190.0	190.2	193.3	195.1	190.9	-2.2	2.6
CRUDE OIL AND NAT. GAS	131	8.9	209.6	210.2	212.8	216.7	219.0	215.6	214.7	220.1	207.3	219.3	222.6	220.8	-.8	5.2
NATURAL GAS LIQUIDS	132	2.5	122.8	123.0	125.8	125.2	126.3	124.6	127.1	127.3	134.8	111.7	112.9	107.0	-5.3	-14.5
STONE AND EARTH MINERALS	14	6.9	155.5	154.0	144.2	150.1	132.8	122.0	119.1	121.4	121.2	123.5	125.9	124.7	-1.0	-11.7
CRUSHED STONE	142	1.5	153.7	152.6	146.1	153.9	140.8	141.4	136.7	142.0	142.3	139.9	136.4	130.6	-4.2	-9.8
SAND AND GRAVEL	144	1.1	136.8	135.4	128.2	111.3	96.5	101.6	98.0	98.3	104.2	102.4	100.3	98.2	-2.1	-21.0
CHEMICAL MINERALS	147	3.4	159.8	159.3	145.6	157.9	139.3	121.5	119.2	123.4	119.0	122.1	131.0	129.8	-.9	-7.3
ORDNANCE	19	4.1	101.0	102.8	102.4	98.7	97.1	100.0	97.4	97.2	103.1	99.7	98.6	98.8	.2	-2.9
FOODS	20	26.8	161.0	161.9	159.5	160.6	159.3	160.6	158.8	159.8	160.7	161.3	159.8	158.5	-.9	-.4
MEAT PRODUCTS	201	4.2	168.3	167.7	164.3	166.0	165.2	161.9	165.4	160.0	162.4	163.3	161.4	163.1	1.0	-.4
DAIRY PRODUCTS	202	4.1	144.0	139.7	144.2	144.1	139.1	138.5	137.6	137.0	138.4	140.1	142.7	142.1	-.4	-2.6
CANNED AND FROZEN FOODS	203	3.2	193.6	192.9	198.2	197.5	196.9	214.2	203.6	212.8	219.4	210.4	210.2	206.8	-1.6	2.8
GRAIN MILL PRODUCTS	204	4.8	146.0	148.9	142.0	138.7	139.1	141.5	136.9	140.6	139.4	144.5	141.4	139.9	-1.0	-.3
BAKERY PRODUCTS	205	1.8	144.8	145.0	145.7	144.6	144.9	145.2	145.7	145.0	145.7	145.0	145.2	145.0	-.2	1.0
SUGAR	206	1.2	277.8	360.0	236.7	249.7	317.3	336.6	349.1	325.2	333.6	350.9	240.0	227.9	-5.0	-5.6
CONFECTIONERY	207	1.0	138.6	131.7	143.3	157.5	138.2	133.9	132.0	140.3	131.8	129.6	141.5	151.4	7.0	7.1
BEVERAGES	208	2.4	204.0	200.2	205.8	211.2	195.1	191.0	187.1	191.2	191.6	190.3	191.3	196.2	2.5	-3.6
MISC. FOOD PRODUCTS	209	4.1	132.7	137.5	131.5	130.8	133.5	136.1	135.9	136.0	137.9	134.5	133.3	128.1	-3.9	-2.6
TOBACCO PRODUCTS	21	.9	125.1	124.4	125.0	131.3	127.0	122.5	129.5	128.6	124.4	114.6	115.2	113.4	-1.6	-8.5
TEXTILE MILL PRODUCTS	22	20.8	114.1	118.3	107.1	100.2	102.4	103.1	103.7	99.9	105.0	104.6	105.4	98.9	-6.1	-6.5
FABRICS	221-4	11.7	90.8	93.7	84.8	77.5	80.3	80.6	81.9	78.6	81.2	81.8	83.3	77.0	-7.5	-7.4
KNIT GOODS	225	1.7	147.7	153.0	136.1	133.2	135.6	134.3	137.8	134.4	134.7	133.8	132.8	129.7	-2.3	-2.5
FABRIC FINISHING	226	1.5	152.2	161.1	141.9	133.8	136.2	140.8	140.4	144.9	133.9	143.6	138.4	132.7	-4.1	-4.0
YARN AND THREAD	228	3.9	158.1	163.5	149.3	142.0	144.4	142.6	146.3	133.7	149.0	145.2	149.5	136.8	-8.5	-8.3
MISC. TEXTILES	229	1.4	142.0	148.0	137.6	126.0	124.1	134.8	115.6	122.9	140.3	141.3	134.0	133.8	-.1	-4.2
APPAREL PRODUCTS	23	3.6	163.0	166.0	162.6	167.6	156.9	157.3	156.9	157.1	158.8	156.1	156.1	158.4	1.5	-2.1
MEN'S OUTERWEAR	231,2	1.0	148.9	152.1	144.3	151.7	146.9	148.6	149.1	150.7	148.5	146.6	145.5	144.2	-.9	-.7
WOMEN'S OUTERWEAR	233	1.0	201.6	203.5	201.6	212.1	195.9	193.7	188.1	193.8	197.0	190.1	190.9	197.9	3.7	-3.2
LUMBER AND PRODUCTS	24	8.0	177.6	178.9	173.6	172.7	174.8	180.0	175.8	177.8	178.2	184.0	180.0	186.9	3.8	10.7
LUMBER	242	3.9	165.2	165.8	173.7	179.1	175.9	184.2	176.6	181.7	183.1	187.8	179.3	197.1	9.9	16.3
MILLWORK AND PLYWOOD	243	2.2	184.0	183.0	169.6	155.5	159.2	169.8	160.3	169.2	164.3	175.9	177.7	176.5	-.7	8.8
FURNITURE AND FIXTURES	25	2.5	161.6	166.5	158.8	154.3	147.7	150.2	144.7	149.5	150.4	150.6	149.0	144.2	-3.2	-8.2
HOME FURNITURE	251	1.7	173.7	177.0	168.2	163.8	160.8	167.5	162.1	166.5	166.4	169.6	166.2	165.1	-.7	-.8
PAPER AND PRODUCTS	26	49.1	124.5	126.2	121.3	119.3	121.5	122.9	123.9	124.6	119.3	124.6	121.6	124.0	2.0	.3
WOOD PULP	261	3.5	116.5	116.9	111.7	102.4	107.6	103.9	109.6	104.7	99.4	107.6	102.6	112.1	9.3	-2.7
PAPER	262	24.5	126.3	127.7	123.9	123.6	124.8	124.7	127.7	128.4	118.9	126.8	122.4	126.1	3.0	-.7
PAPERBOARD	263	14.8	129.0	131.9	119.0	118.8	121.7	126.6	121.8	129.1	126.4	124.3	120.4	125.0	3.8	4.1
CONVERTED PAPER	264	2.5	141.2	146.0	139.7	142.1	141.8	148.5	148.0	149.3	150.9	145.3	140.5	149.0	6.0	4.5
PAPERBOARD CONTAINERS	265	2.3	143.3	142.8	144.3	134.9	135.7	137.7	137.2	136.8	139.9	136.4	133.1	133.7	.5	-7.0
BUILDING PAPER AND BOARD	266	1.4	147.9	143.1	145.1	137.0	156.7	161.4	168.4	162.9	139.6	181.7	180.2	175.8	-2.4	23.8
PRINTING AND PUBLISHING	27	5.8	167.3	167.6	168.3	175.1	170.7	168.9	171.6	167.4	171.2	168.0	165.1	[illegible]	2.3	1.0
NEWSPAPERS	271	1.7	144.2	144.2	144.4	149.2	147.7	140.8	154.1	139.9	140.6	141.8	140.1	142.6	1.8	.5
COMMERCIAL PRINTING	275	2.4	180.1	180.3	182.5	190.8	181.4	185.9	179.9	185.6	186.5	185.5	179.5	187.5	4.5	3.3

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Table 9B

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 3	1981 Q 4	1982 Q 1	1982 Q 2	1982 Q 3	1982 JUNE	JULY	AUG	SEP	OCT	NOV (P)	PERCENT CHG. FROM PREV: MO. (P)	PERCENT CHG. FROM PREV: YR. (P)
TOTAL		560.4	136.4	138.9	131.5	124.1	122.9	119.1	123.5	118.0	120.6	118.8	117.2	115.6	-1.3	-12.3
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	151.3	158.5	148.8	140.4	144.7	152.5	151.8	150.1	153.6	153.8	146.8	144.9	-1.3	-3.4
FINAL PRODUCTS		101.4	150.2	158.5	147.5	138.8	144.1	153.2	152.6	151.0	154.6	153.9	145.9	143.0	-2.0	-3.8
CONSUMER GOODS		67.4	155.8	164.7	152.8	143.0	150.2	160.9	160.6	158.8	162.6	161.4	152.8	150.3	-1.7	-2.4
EQUIPMENT		34.0	136.2	142.6	133.9	128.2	128.7	133.4	132.2	131.1	134.4	134.8	128.1	124.2	-3.0	-7.9
INTERMEDIATE PRODUCTS		34.7	154.7	158.6	153.0	145.0	146.7	150.6	149.4	147.6	150.6	153.6	149.6	150.8	.8	-2.1
MATERIALS		424.3	131.5	132.4	125.7	118.6	115.7	108.0	114.1	107.3	109.6	107.2	107.3	105.9	-1.3	-15.8
DURABLE		237.7	130.6	130.7	122.2	112.5	105.4	94.7	103.0	93.8	96.1	94.2	93.6	91.4	-2.3	-24.9
NONDURABLE		133.0	138.6	141.1	132.6	125.7	127.9	123.1	127.6	122.3	124.8	122.2	122.4	120.6	-1.4	-9.8
ENERGY, EX. ERDA		23.8	171.2	168.2	180.4	190.9	179.7	166.4	175.1	165.2	165.7	168.1	167.6	177.3	5.8	-2.0
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	172.5	174.3	172.9	176.7	156.7	127.8	142.0	122.8	126.1	134.6	140.1	143.0	2.1	-15.6
MANUFACTURING		519.2	134.5	137.3	129.3	121.2	121.4	119.4	123.1	118.3	121.1	118.8	117.0	114.6	-2.0	-11.7
DURABLE	19,24-25,32-39	254.1	132.1	133.5	125.1	115.9	112.8	107.7	113.3	106.5	109.4	107.2	104.4	101.9	-2.4	-18.8
NONDURABLE	20-23,26-31	265.1	136.8	140.9	133.3	126.3	129.6	130.6	132.4	129.5	132.3	129.9	129.0	126.7	-1.8	-5.4
UTILITIES, OWN USE	491,2	6.5	140.1													
INDUSTRY GROUPS AND SERIES																
METAL MINING	10	9.9	166.3	170.5	152.1	152.5	118.9	60.9	92.9	58.2	56.0	68.4	80.9	86.5	6.9	-40.4
IRON ORE	101	5.0	176.0	185.8	151.9	171.9	120.2	31.1	80.4	29.1	26.7	37.4	54.0	62.8	16.2	-53.5
COPPER ORE	102	3.0	166.1	162.3	160.8	128.9	118.2	96.9	111.4	95.2	95.8	99.8	120.0	121.6	1.3	-27.5
COAL	11,2	5.9	181.3	180.4	214.9	238.3	197.4	167.3	181.8	147.3	174.0	180.7	181.6	193.4	6.5	-10.0
OIL AND GAS EXTRACTION	13	11.9	185.8	187.8	189.6	192.1	193.2	191.4	191.7	190.8	187.6	195.8	194.9	192.8	-1.1	2.6
CRUDE OIL AND NAT. GAS	131	8.9	209.6	209.0	213.8	217.8	218.0	214.3	216.8	219.6	202.7	220.7	221.3	223.2	.9	5.2
NATURAL GAS LIQUIDS	132	2.5	122.8	127.2	125.9	121.8	125.2	128.9	128.3	131.9	140.0	114.9	114.3	107.6	-5.8	-14.5
STONE AND EARTH MINERALS	14	6.9	155.5	154.8	148.1	141.9	135.4	122.7	123.1	120.1	122.7	125.3	131.5	128.9	-1.9	-11.7
CRUSHED STONE	142	1.5	153.7	161.6	154.8	128.5	147.2	149.8	148.0	148.5	152.5	148.3	148.8	144.7	-2.7	-9.8
SAND AND GRAVEL	144	1.1	136.8	142.6	136.2	94.5	99.7	107.0	103.9	102.3	110.6	108.2	110.1	107.4	-2.4	-21.0
CHEMICAL MINERALS	147	3.4	159.8	156.1	147.7	157.2	140.2	119.3	119.4	116.8	116.8	124.2	134.0	131.4	-2.0	-7.3
ORDNANCE	19	4.1	101.0	107.4	102.1	94.7	96.7	104.6	101.4	98.5	110.2	105.1	102.0	99.0	-2.9	-2.9
FOODS	20	26.8	161.0	171.9	163.4	151.3	154.6	170.5	162.1	166.1	171.9	173.5	168.9	164.0	-2.9	-.4
MEAT PRODUCTS	201	4.2	168.3	184.5	165.2	151.4	162.0	178.1	171.7	175.3	182.0	177.0	169.5	165.2	-2.5	-.4
DAIRY PRODUCTS	202	4.1	144.0	157.6	138.9	129.4	140.3	156.3	150.4	156.4	156.4	155.9	145.4	137.1	-5.7	-2.6
CANNED AND FROZEN FOODS	203	3.2	193.6	206.7	203.5	185.2	188.6	229.9	199.9	207.2	231.9	250.5	242.3	211.9	-12.5	2.8
GRAIN MILL PRODUCTS	204	4.8	146.0	150.1	146.3	138.4	134.0	142.7	136.7	139.2	143.2	145.7	145.9	146.8	.6	-.3
BAKERY PRODUCTS	205	1.8	144.8	158.4	145.2	134.4	142.2	158.7	151.2	156.3	159.4	160.4	150.8	145.0	-3.9	1.0
SUGAR	206	1.2	277.8	264.0	319.2	278.5	235.6	246.8	240.9	235.1	249.5	255.8	277.4	322.7	16.3	-5.6
CONFECTIONERY	207	1.0	138.6	140.3	148.3	140.6	138.0	142.6	141.2	136.5	143.3	148.0	155.8	159.4	2.3	7.1
BEVERAGES	208	2.4	204.0	223.4	201.7	190.5	195.1	213.1	200.1	210.8	216.5	212.0	197.8	191.2	-3.3	-3.6
MISC. FOOD PRODUCTS	209	4.1	132.7	142.7	135.7	124.7	130.5	141.2	139.4	140.3	142.1	141.3	138.3	134.7	-2.6	-2.6
TOBACCO PRODUCTS	21	.9	125.1	136.3	129.4	121.7	119.8	133.7	130.4	123.6	140.5	137.1	128.6	118.9	-7.5	-8.5
TEXTILE MILL PRODUCTS	22	20.8	114.1	120.9	107.6	94.8	105.3	105.7	111.3	92.0	113.1	112.1	110.1	101.3	-8.0	-6.5
FABRICS	221-4	11.7	90.8	95.1	85.0	73.9	82.6	82.1	87.4	71.4	87.7	87.1	87.1	78.8	-9.6	-7.4
KNIT GOODS	225	1.7	147.7	165.8	135.1	120.0	138.9	145.8	151.3	132.0	153.6	151.7	140.4	131.2	-6.6	-2.5
FABRIC FINISHING	226	1.5	152.2	155.8	143.3	132.7	140.2	136.3	147.2	126.1	135.9	146.9	140.7	137.0	-2.6	-4.0
YARN AND THREAD	228	3.9	158.1	168.9	150.5	132.6	148.5	147.8	158.0	123.8	162.2	157.3	154.3	141.5	-8.3	-8.3
MISC. TEXTILES	229	1.4	142.0	147.8	138.0	123.0	126.8	135.0	122.6	115.1	148.2	141.7	141.5	132.0	-6.8	-4.2
APPAREL PRODUCTS	23	3.6	163.0	192.0	158.3	147.3	155.0	182.2	170.7	168.6	189.9	187.9	168.1	154.4	-8.1	-2.1
MEN'S OUTERWEAR	231,2	1.0	148.9	176.8	142.3	131.4	144.7	172.9	163.1	159.1	178.5	181.0	159.4	142.1	-10.8	-.7
WOMEN'S OUTERWEAR	233	1.0	201.6	242.0	192.4	183.4	193.1	230.5	208.2	217.1	244.3	230.0	204.9	187.8	-8.3	-3.2
LUMBER AND PRODUCTS	24	8.0	177.6	172.9	174.2	175.5	177.1	174.0	173.3	167.0	173.4	181.7	181.1	191.2	5.6	10.7
LUMBER	242	3.9	165.2	159.8	174.8	181.8	178.3	177.6	171.3	168.5	178.1	186.1	183.9	200.2	8.9	16.3
MILLWORK AND PLYWOOD	243	2.2	184.0	175.5	167.7	159.3	163.2	162.9	161.9	157.9	158.7	172.0	172.7	181.1	4.9	8.8
FURNITURE AND FIXTURES	25	2.5	161.6	164.3	159.9	154.9	147.9	148.4	146.6	135.3	153.9	156.1	151.4	147.8	-2.4	-8.2
HOME FURNITURE	251	1.7	173.7	172.3	169.2	166.5	161.2	163.3	163.2	146.5	169.6	173.7	169.0	167.0	-1.2	-.8
PAPER AND PRODUCTS	26	49.1	124.5	125.4	121.2	118.6	123.1	122.0	125.5	120.9	121.3	123.8	126.0	124.3	-1.3	.3
WOOD PULP	261	3.5	116.5	116.7	112.2	101.6	108.2	103.7	108.5	104.1	97.9	109.0	107.9	111.3	3.2	-2.7
PAPER	262	24.5	126.3	126.3	123.1	123.6	126.8	123.3	128.0	124.2	122.0	123.7	127.6	125.5	-1.6	-.7
PAPERBOARD	263	14.8	129.0	129.1	117.7	120.1	124.2	124.0	125.9	122.4	127.3	122.2	122.6	124.6	1.7	4.1
CONVERTED PAPER	264	2.5	141.2	147.6	142.2	136.7	143.0	150.1	151.6	146.2	152.8	151.4	149.1	150.6	1.0	4.5
PAPERBOARD CONTAINERS	265	2.3	143.3	144.2	143.6	132.5	137.1	139.2	142.5	132.5	144.8	140.4	136.8	134.3	-1.8	-7.0
BUILDING PAPER AND BOARD	266	1.4	147.9	145.7	145.9	132.7	157.5	163.9	167.4	161.4	148.7	181.7	184.2	183.6	-.3	23.8
PRINTING AND PUBLISHING	27	5.8	167.3	190.4	166.2	156.4	167.6	191.9	181.2	186.4	196.8	192.7	175.4	165.9	-5.4	1.0
NEWSPAPERS	271	1.7	144.2	165.6	141.5	131.9	145.8	161.7	163.8	160.1	163.4	161.6	146.8	139.6	-4.9	.5
COMMERCIAL PRINTING	275	2.4	180.1	204.4	182.6	169.3	177.1	210.7	188.0	203.8	213.3	215.0	194.0	186.5	-3.8	3.3

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Table 9A—continued

ELECTRIC POWER USE BY INDUSTRIES

Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 3	1982 Q 4	1982 Q 1	1982 Q 2	1982 Q 3	1982 JUNE	JULY	AUG	SEP	OCT	NOV (P)	PERCENT CHG. FROM PREV: MO. (P)	PERCENT CHG. FROM PREV: YR. (P)
CHEMICALS AND PRODUCTS	28	116.8	128.8	133.9	121.2	118.9	118.6	116.4	120.5	118.2	118.2	112.8	106.5	108.4	1.8	-11.4
BASIC CHEMICALS	281	96.4	113.8	119.6	105.8	104.2	103.7	101.7	106.6	103.2	103.1	98.7	92.0	93.3	1.4	-12.7
ALKALIES AND CHLORINE	2812	12.3	149.5	150.7	138.4	138.9	133.5	124.3	131.0	125.8	127.5	119.4	128.6	121.1	-5.8	-14.3
BASIC ORGANIC CHEM.NEC	2818	24.8	145.9	143.7	136.8	135.6	122.7	103.0	116.2	106.1	103.0	99.9	100.8	103.5	2.6	-24.8
INORGANIC CHEM. NEC	2819	48.6	88.3	97.4	81.3	80.1	84.2	89.9	92.8	90.7	90.4	88.5	76.2	77.4	1.6	-4.8
ACID AND FERT. MAT'LS.		18.8	96.5	99.1	88.5	84.4	82.2	82.7	84.2	82.3	81.2	84.6	80.1	80.6	.6	-9.1
ERDA		29.8	83.1	97.1	77.3	76.9	85.8	95.9	100.2	98.7	98.0	90.9	73.4	76.8	4.7	-1.9
SYNTHETIC MATERIALS	282	12.1	193.6	192.0	186.8	174.6	178.9	171.7	173.9	177.6	172.9	164.5	162.7	170.9	5.0	-10.3
PLASTICS MATERIALS	2821	4.4	209.2	207.1	199.3	186.3	187.6	183.0	178.8	194.2	187.5	167.3	162.8	171.2	5.2	-18.4
OTHER SYNTHETICS	2822-4	7.7	185.1	183.5	178.9	168.8	175.0	165.3	172.4	169.2	163.3	163.5	162.7	170.1	4.6	-5.0
DRUGS	283	2.0	221.3	221.9	222.4	226.7	223.2	228.5	226.2	230.4	229.2	226.0	221.6	229.0	3.3	3.8
SOAP AND TOILETRIES	284	1.0	151.6	159.2	147.5	148.2	143.1	152.4	148.0	150.5	156.8	150.0	149.4	146.5	-1.9	.4
FARM CHEMICALS	287	2.7	174.9	182.2	173.2	163.8	155.0	156.2	154.8	161.3	156.3	151.1	138.4	142.9	3.3	-20.6
PETROLEUM PRODUCTS	29	22.3	182.3	181.3	181.4	178.5	182.1	192.6	195.4	194.3	192.4	191.2	186.1	192.7	3.5	5.9
RUBBER AND PLASTICS PROD.	30	10.8	182.9	189.1	175.6	170.9	172.0	172.5	172.2	174.3	171.3	171.8	165.8	165.4	-.2	-5.7
TIRES	301	3.2	110.6	114.0	105.1	101.3	100.5	97.6	100.1	98.2	96.4	98.3	93.6	97.9	4.7	-9.2
RUBBER PRODUCTS NEC	306	2.3	129.4	132.2	122.1	117.3	118.6	115.4	118.5	118.2	115.0	112.9	109.5	108.4	-1.0	-10.6
PLASTICS PRODUCTS NEC	307	4.8	261.8	270.9	254.2	248.5	249.6	252.7	251.0	255.5	250.4	252.2	243.5	238.5	-2.0	-5.3
LEATHER AND PRODUCTS	31	1.3	116.8	120.2	114.8	113.5	107.0	107.6	107.3	107.5	110.6	104.6	103.2	100.7	-2.4	-11.4
SHOES	314	.6	97.0	99.2	95.1	97.6	91.8	98.2	96.0	97.6	103.3	93.7	94.8	92.0	-3.0	-2.2
CLAY,GLASS,STONE PRODUCTS	32	20.8	148.0	148.5	142.3	138.1	133.0	133.3	132.2	131.9	133.5	134.5	128.5	131.5	2.3	-8.5
FLAT GLASS	321	1.2	113.6	116.8	110.9	101.9	102.0	104.2	105.7	104.8	104.2	103.6	100.5	99.9	-.7	-12.3
PRESSED AND BLOWN GLASS	322	3.5	206.0	208.8	195.8	197.1	191.8	195.2	192.0	189.4	196.5	199.5	186.7	199.0	6.6	.7
CEMENT	324	8.4	113.9	111.6	112.0	100.4	101.6	99.3	98.7	99.7	98.0	100.0	95.5	97.8	2.4	-15.8
STRUCTURAL CLAY PRODUCTS	325	1.3	100.8	104.2	93.5	83.9	79.9	82.9	82.6	84.2	80.9	83.6	82.9	81.2	-2.0	-10.9
CONCRETE PRODUCTS	327	2.3	185.0	184.9	171.5	169.3	155.4	157.7	158.2	159.0	155.5	158.6	153.6	152.7	-.6	-7.9
PRIMARY METALS	33	132.0	121.4	123.0	112.6	100.9	92.2	86.4	92.6	85.8	88.8	84.7	81.7	80.1	-1.9	-28.9
BASIC STEEL & MILL PROD.	331	54.4	107.1	108.5	97.9	89.5	81.1	71.4	78.7	69.6	74.1	70.4	67.7	64.5	-4.7	-36.4
IRON & STEEL FOUNDRIES	332	5.9	199.8	210.8	181.7	167.2	147.6	150.3	149.5	155.3	150.7	144.9	134.9	133.0	-1.4	-27.4
PRIMARY NONFERROUS METALS	333	59.5	121.6	122.3	112.2	95.9	88.9	85.0	92.0	85.9	86.6	82.4	79.6	78.7	-1.2	-28.7
ALUMINUM	3334	53.6	117.1	116.9	106.8	88.6	80.7	73.7	84.4	76.7	74.4	70.0	67.8	68.0	.3	-35.3
NONFERROUS MILL PRODUCTS	335	8.4	116.7	119.6	116.7	108.7	105.7	102.1	104.0	100.3	103.4	102.6	102.2	102.1	-.1	-8.8
NONFERROUS FOUNDRIES	336	1.4	173.1	175.2	172.9	160.8	145.0	143.4	140.9	139.8	145.8	144.7	134.3	134.4	.1	-22.3
FABRICATED METAL PRODUCTS	34	14.8	163.2	167.6	160.2	155.5	149.6	150.5	149.8	151.1	152.0	148.3	141.8	142.5	.5	-10.9
METAL CANS	341	1.0	209.7	205.4	210.1	204.0	200.3	191.0	199.5	189.0	186.8	197.3	192.0	196.0	2.1	-7.5
HARDWARE	342	1.6	153.3	160.1	144.7	137.1	133.2	137.5	134.8	135.2	146.1	131.2	124.3	129.0	3.8	-11.8
STRUCTURAL METAL PROD.	344	3.5	135.0	135.6	132.9	136.1	127.7	128.9	126.3	128.9	127.9	129.9	119.0	123.8	4.0	-5.4
FASTENERS	345	1.2	160.8	166.0	156.3	144.9	137.6	141.4	138.6	139.9	143.4	140.9	130.8	124.0	-5.2	-21.8
METAL STAMPINGS	346	3.1	150.2	160.0	149.6	136.7	135.3	134.1	138.0	137.8	132.9	131.7	121.9	122.2	.3	-17.7
NONELECTRICAL MACHINERY	35	17.3	164.5	167.6	162.9	158.8	150.0	147.0	147.9	149.2	148.7	143.2	137.0	132.8	-3.0	-17.3
ENGINES AND TURBINES	351	1.4	142.0	145.7	136.0	133.9	128.9	126.3	130.2	128.0	133.4	117.4	112.8	115.1	2.0	-14.8
FARM EQUIPMENT	352	1.2	112.0	110.1	98.6	97.7	82.7	79.8	81.7	81.8	85.5	72.2	72.9	70.6	-3.3	-28.4
CONSTRUCTION EQUIPMENT	353	3.0	183.5	188.8	184.8	168.7	152.6	145.6	148.5	151.1	147.7	138.1	124.2	108.4	-12.7	-38.8
METALWORKING MACHINERY	354	2.8	131.9	138.0	128.0	127.0	120.6	116.9	117.9	120.4	117.6	112.7	107.0	104.2	-2.6	-18.5
SPECIAL INDUSTRY MACH.	355	1.5	144.9	142.8	141.5	134.1	125.0	123.9	123.1	125.4	125.5	120.8	118.9	119.9	.8	-14.3
GENERAL INDUSTRIAL MACH.	356	2.7	148.5	151.4	144.8	140.7	137.3	131.5	135.6	134.7	132.6	127.2	123.0	124.9	1.6	-13.7
OFFICE AND COMPUTING MACH.	357	1.4	262.5	266.6	271.1	285.3	266.6	273.4	264.4	263.4	275.2	281.7	278.0	285.6	2.7	6.4
SERVICE INDUSTRY MACH.	358	1.2	137.4	135.5	132.3	132.0	127.7	122.7	126.1	126.3	123.8	118.0	119.3	118.1	-1.0	-8.4
ELECTRICAL MACHINERY	36	19.2	141.9	145.5	139.7	135.4	132.5	132.7	132.6	134.4	133.4	130.2	125.3	126.7	1.2	-8.8
ELECT. DISTRIBUTION EQ.	361	1.8	122.5	126.7	121.0	117.1	109.1	107.6	108.9	102.4	114.3	106.0	100.3	102.3	2.0	-15.5
ELECT. INDUST. APPARATUS	362	3.5	125.1	127.1	121.6	109.9	100.3	88.0	97.4	90.1	87.6	86.3	80.9	83.8	3.6	-32.4
HOME APPLIANCES	363	2.2	108.8	113.3	100.7	91.1	93.2	89.1	96.0	89.2	90.6	87.6	88.5	88.5	-.1	-12.5
LIGHTING & WIRING PROD.	364	1.5	144.5	149.7	140.6	143.1	134.7	133.3	130.6	138.1	133.6	128.0	127.2	126.1	-.8	-11.8
RADIO AND TV SETS	365	.8	124.7	124.9	121.3	122.5	114.8	114.6	111.9	119.1	112.4	112.4	112.4	115.4	2.7	-6.8
COMMUNICATION EQUIP.	366	3.9	153.8	158.8	151.1	143.7	154.6	170.3	156.2	172.2	171.9	166.6	154.5	167.3	8.3	9.0
ELECTRONIC COMPONENTS	367	4.2	178.9	181.4	182.1	187.9	186.8	188.6	183.8	193.6	186.7	185.6	181.7	182.9	.7	2.6
TRANSPORTATION EQUIPMENT	37	23.6	121.9	126.0	113.2	110.7	116.2	116.6	119.9	120.8	117.8	111.3	104.2	105.7	1.4	-8.1
MOTOR VEHICLES AND PARTS	371	12.8	124.6	130.4	112.6	107.5	117.0	118.0	122.0	124.5	119.7	109.9	100.1	101.7	1.6	-11.7
AIRCRAFT AND PARTS	372	8.4	101.0	101.6	98.2	97.6	99.0	97.0	99.8	96.6	97.5	96.9	96.9	96.2	-.8	-2.0
SHIPS AND BOATS	373	1.3	159.1	162.4	157.7	164.9	157.2	161.2	163.0	156.5	164.1	163.0	152.5	148.7	-2.5	-4.7
INSTRUMENTS	38	3.1	170.7	173.1	172.4	178.9	174.2	175.3	173.1	173.5	179.2	173.2	170.4	168.4	-1.2	-2.3
PHOTOGRAPHIC EQUIPMENT	386	1.4	168.2	169.5	169.8	177.0	170.3	168.9	167.4	167.8	170.6	168.2	165.1	169.4	2.6	-2.3
MISC. MANUFACTURES	39	2.5	158.2	161.4	153.3	157.8	141.5	137.6	135.9	139.1	137.2	136.4	132.0	133.1	.8	-13.5
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	140.2	142.4	134.3	129.0	124.7	121.4	124.6	121.7	122.1	120.3	117.0	117.5	.4	-12.7
ELECTRIC UTILITIES		462.6	149.9	154.1	142.8	137.8	134.5	133.1	135.6	133.8	133.8	131.7	126.3	126.5	.2	-11.6
SALES TO INDUSTRY		457.1	150.0	154.3	142.9	137.8	134.3	133.0	135.2	133.6	133.9	131.6	125.9	126.5	.5	-11.7
OWN USE		5.5	140.9													
INDUSTRIAL GENERATION		102.9	84.0	83.5	83.0	78.7	74.9	72.0	75.1	72.4	72.2	71.3	70.9	73.2	3.2	-12.8
SALES TO ELECTRIC UTILITIES		5.1	103.6													
OWN USE		97.8	82.9	82.6	81.1	78.5	73.1	70.3	72.7	70.8	71.6	68.5	68.6	70.5	2.8	-13.8

P--PRELIMINARY

NOTE: TOTALS EXCLUDE INDUSTRIAL GENERATION POWER SALES TO ELECTRIC UTILITIES. ERDA (PART OF SIC 2819) IS THE FORMER ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION. ERDA USE DATA ARE INCLUDED IN TOTAL MATERIALS, ALTHOUGH EXCLUDED FROM THE ENERGY COMPONENT. ALL INDEXES ARE COMPILED FROM SAMPLE REPORTS TO THE FEDERAL RESERVE SYSTEM AND THE 2-DIGIT GROUP TOTALS INCLUDE SOME DATA THAT ARE UNALLOCATED AT THE 3-DIGIT LEVELS. THE 1967 DATA ARE FROM COMPREHENSIVE CENSUS, EEI, AND FPC SOURCES AND ARE PROVIDED FOR REFERENCE. THEY ARE NOT USED AS WEIGHTS TO COMBINE SERIES. THE AGGREGATE INDEXES ARE KWH TOTALS CONVERTED TO A 1967 COMPARISON BASE. ADDITIONAL INFORMATION IS PROVIDED IN THE JANUARY 1976 BULLETIN. DATA AND PERCENT CHANGES ARE ROUNDED INDEPENDENTLY.

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Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1981 AVG.	1981 Q 3	1981 Q 4	1982 Q 1	1982 Q 2	1982 Q 3	1982 JUNE	JULY	AUG	SEP	OCT	NOV (P)	PERCENT CHG. FROM PREV: MO. (P)	PERCENT CHG. FROM PREV: YR. (P)
CHEMICALS AND PRODUCTS	28	116.8	128.8	131.3	124.1	118.0	118.7	114.2	117.1	115.9	115.8	110.8	111.3	110.0	-1.1	-11.4
BASIC CHEMICALS	281	96.4	113.8	115.6	109.6	104.3	103.1	98.2	101.1	99.6	100.1	95.0	96.8	95.3	-1.5	-12.7
ALKALIES AND CHLORINE	2812	12.3	149.5	151.7	141.4	135.0	133.2	125.1	128.3	127.6	129.2	118.5	129.5	124.3	-4.1	-14.3
BASIC ORGANIC CHEM.NEC	2818	24.8	145.9	147.5	139.8	130.7	121.1	105.7	115.4	108.1	105.5	103.3	104.7	105.3	.6	-24.8
INORGANIC CHEM. NEC	2819	48.6	88.3	89.4	86.1	82.6	83.1	82.4	83.1	83.2	83.9	80.2	82.5	80.8	-2.1	-4.8
ACID AND FERT. MAT'LS.		18.8	96.5	97.9	89.0	83.9	83.2	81.7	84.0	82.6	80.8	81.5	80.9	80.4	-.7	-9.1
ERDA		29.8	83.1	84.0	84.3	81.8	83.0	82.9	82.5	83.5	85.8	79.4	83.4	81.0	-2.9	-1.9
SYNTHETIC MATERIALS	282	12.1	193.6	198.4	182.1	170.0	181.9	177.4	180.7	182.8	179.6	169.7	163.5	165.9	1.5	-10.3
PLASTICS MATERIALS	2821	4.4	209.2	212.7	198.4	180.4	189.0	187.8	183.6	196.3	194.1	172.9	165.7	168.4	1.7	-18.4
OTHER SYNTHETICS	2822-4	7.7	185.1	190.6	173.3	164.4	178.0	171.7	179.1	175.4	171.8	168.0	162.3	164.5	1.3	-5.0
DRUGS	283	2.0	221.3	241.3	219.8	207.8	224.4	248.6	242.3	249.5	245.2	251.1	235.5	227.9	-3.3	3.8
SOAP AND TOILETRIES	284	1.0	151.6	161.8	148.2	143.8	144.1	154.9	149.1	152.7	155.7	156.3	154.5	148.3	-4.0	.4
FARM CHEMICALS	287	2.7	174.9	177.6	171.7	162.5	161.1	152.3	156.8	156.6	153.4	146.9	137.9	140.4	1.8	-20.6
PETROLEUM PRODUCTS	29	22.3	182.3	187.9	182.6	172.9	180.3	199.6	199.3	201.5	200.9	196.6	190.8	193.2	1.3	5.9
RUBBER AND PLASTICS PROD.	30	10.8	182.9	187.6	177.7	169.1	173.1	171.2	176.2	164.4	172.7	176.6	173.6	168.8	-2.8	-5.7
TIRES	301	3.2	110.6	113.7	105.2	100.9	101.2	97.4	103.5	93.3	97.2	101.6	99.3	96.1	-3.2	-9.2
RUBBER PRODUCTS NEC	306	2.3	129.4	130.8	125.0	116.4	118.0	114.2	119.5	108.2	117.5	116.9	114.4	112.6	-1.6	-10.6
PLASTICS PRODUCTS NEC	307	4.8	261.8	268.1	257.8	244.9	252.3	250.1	255.3	241.7	251.4	257.2	253.0	247.1	-2.3	-5.3
LEATHER AND PRODUCTS	31	1.3	116.8	121.6	115.3	111.0	107.5	108.8	111.0	99.4	116.2	111.0	105.7	102.3	-3.2	-11.4
SHOES	314	.6	97.0	102.1	94.8	95.1	91.9	101.1	99.4	91.2	111.5	100.5	96.6	92.2	-4.6	-2.2
CLAY,GLASS,STONE PRODUCTS	32	20.8	148.0	152.4	144.5	129.8	135.3	136.8	135.9	133.6	138.5	138.3	134.0	134.4	.3	-8.5
FLAT GLASS	321	1.2	113.6	119.2	111.2	99.5	102.0	106.3	106.5	104.6	108.2	106.0	106.1	99.6	-6.1	-12.3
PRESSED AND BLOWN GLASS	322	3.5	206.0	211.6	196.6	191.5	193.6	197.8	195.6	191.9	200.0	201.5	195.1	201.0	3.0	.7
CEMENT	324	8.4	113.9	117.6	114.9	88.7	105.0	104.7	102.5	103.5	105.1	105.4	101.3	100.5	-.8	-15.8
STRUCTURAL CLAY PRODUCTS	325	1.3	100.8	102.6	94.8	83.6	80.3	81.6	83.2	82.3	80.4	82.2	83.3	83.8	.6	-10.9
CONCRETE PRODUCTS	327	2.3	185.0	187.7	174.6	161.6	157.2	160.1	162.6	158.3	159.1	162.9	159.1	159.1	0.0	-7.9
PRIMARY METALS	33	132.0	121.4	120.0	112.0	101.7	94.1	84.3	93.0	84.0	86.4	82.6	82.1	79.2	-3.5	-28.9
BASIC STEEL & MILL PROD.	331	54.4	107.1	104.5	96.5	91.4	83.4	68.7	79.4	66.6	71.9	67.6	67.1	63.1	-6.0	-36.4
IRON & STEEL FOUNDRIES	332	5.9	199.8	198.4	184.8	168.2	152.8	141.4	153.7	137.9	141.8	144.6	141.4	136.2	-3.7	-27.4
PRIMARY NONFERROUS METALS	333	59.5	121.6	121.4	112.2	95.6	89.8	84.3	91.8	86.6	85.5	80.9	80.5	77.7	-3.4	-28.7
ALUMINUM	3334	53.6	117.1	117.6	106.7	87.5	81.2	74.2	84.2	78.3	74.7	69.5	68.6	67.0	-2.3	-35.3
NONFERROUS MILL PRODUCTS	335	8.4	116.7	116.3	115.2	110.0	108.5	99.4	106.3	95.1	102.3	100.8	103.8	101.7	-2.1	-8.8
NONFERROUS FOUNDRIES	336	1.4	173.1	169.2	173.0	164.7	146.3	138.6	142.3	131.5	139.1	145.0	138.2	137.0	-.9	-22.3
FABRICATED METAL PRODUCTS	34	14.8	163.2	166.0	160.6	155.4	150.6	149.0	151.7	146.0	150.1	151.1	145.8	143.9	-1.3	-10.9
METAL CANS	341	1.0	209.7	217.6	202.6	199.2	200.2	202.3	203.7	199.8	201.2	206.0	194.9	187.4	-3.9	-7.5
HARDWARE	342	1.6	153.3	155.7	147.3	137.8	133.5	133.7	135.7	130.2	137.2	133.7	130.2	131.8	1.3	-11.8
STRUCTURAL METAL PROD.	344	3.5	135.0	132.9	134.5	136.8	127.9	126.4	125.8	123.1	127.5	128.5	122.4	126.4	3.2	-5.4
FASTENERS	345	1.2	160.8	162.0	156.1	146.9	139.2	138.1	140.7	132.3	138.8	143.1	133.6	124.8	-6.5	-21.8
METAL STAMPINGS	346	3.1	150.2	157.6	150.0	136.2	137.1	132.1	140.4	130.2	132.4	133.8	127.3	124.6	-2.1	-17.7
NONELECTRICAL MACHINERY	35	17.3	164.5	171.3	162.4	155.3	150.2	150.3	152.6	148.8	151.1	151.0	141.3	134.6	-4.7	-17.3
ENGINES AND TURBINES	351	1.4	142.0	145.6	136.5	131.9	130.3	126.1	133.8	128.9	128.2	121.2	118.2	118.6	.3	-14.8
FARM EQUIPMENT	352	1.2	112.0	106.7	98.6	96.5	85.9	77.4	89.5	75.7	78.6	77.8	76.2	70.8	-7.1	-28.4
CONSTRUCTION EQUIPMENT	353	3.0	183.5	189.0	185.7	167.2	152.4	145.7	150.1	145.6	145.5	146.0	126.0	111.9	-11.2	-38.8
METALWORKING MACHINERY	354	2.8	131.9	137.1	127.8	128.1	120.4	116.1	118.9	116.3	116.3	115.6	110.5	104.5	-5.4	-18.5
SPECIAL INDUSTRY MACH.	355	1.5	144.9	144.0	141.3	132.2	125.5	125.0	126.3	122.9	126.5	125.4	121.8	121.6	-.2	-14.3
GENERAL INDUSTRIAL MACH.	356	2.7	148.5	153.0	145.1	138.4	137.8	132.7	139.1	131.8	132.7	133.6	126.8	127.4	.5	-13.7
OFFICE AND COMPUTING MACH.	357	1.4	262.5	287.5	269.8	267.0	263.1	294.9	276.6	282.3	297.5	304.8	293.0	288.1	-1.7	6.4
SERVICE INDUSTRY MACH.	358	1.2	137.4	142.5	129.1	126.1	129.7	129.0	134.8	134.9	126.4	125.7	123.0	116.3	-5.4	-8.4
ELECTRICAL MACHINERY	36	19.2	141.9	150.0	139.6	130.5	133.4	136.7	137.4	135.5	136.1	138.5	131.3	127.8	-2.7	-8.8
ELECT. DISTRIBUTION EQ.	361	1.8	122.5	130.1	119.8	113.5	110.3	110.6	112.9	107.9	112.8	111.0	106.2	101.4	-4.6	-15.5
ELECT. INDUST. APPARATUS	362	3.5	125.1	127.6	121.0	108.4	101.6	88.4	100.0	89.6	88.0	87.6	84.4	81.3	-3.7	-32.4
HOME APPLIANCES	363	2.2	108.8	114.9	99.7	89.9	94.1	90.4	99.4	89.9	88.3	93.1	92.1	88.6	-3.8	-12.5
LIGHTING & WIRING PROD.	364	1.5	144.5	146.0	141.5	141.7	138.1	129.9	137.0	128.8	125.5	135.5	132.6	129.0	-2.7	-11.8
RADIO AND TV SETS	365	.8	124.7	136.0	120.2	113.4	113.9	124.8	118.1	124.7	124.1	125.5	117.5	115.7	-1.5	-6.8
COMMUNICATION EQUIP.	366	3.9	153.8	167.2	153.3	134.5	153.9	179.3	163.7	175.2	180.0	182.6	167.3	171.1	2.3	9.0
ELECTRONIC COMPONENTS	367	4.2	178.9	192.9	180.5	177.2	186.9	200.5	193.0	200.4	198.1	203.0	190.1	182.6	-3.9	2.6
TRANSPORTATION EQUIPMENT	37	23.6	121.9	126.4	114.6	107.8	117.4	117.0	122.8	117.2	118.5	115.3	110.2	108.1	-1.8	-8.1
MOTOR VEHICLES AND PARTS	371	12.8	124.6	128.8	114.7	105.0	119.3	116.5	125.9	117.6	118.4	113.6	105.8	104.9	-.8	-11.7
AIRCRAFT AND PARTS	372	8.4	101.0	106.5	97.6	93.5	98.9	101.7	101.7	100.9	101.8	102.4	100.4	97.5	-2.9	-2.0
SHIPS AND BOATS	373	1.3	159.1	161.9	157.2	167.6	155.3	160.8	164.3	154.0	165.0	163.3	154.2	151.6	-1.7	-4.7
INSTRUMENTS	38	3.1	170.7	185.2	171.3	167.7	173.5	187.6	182.1	182.3	190.9	189.4	178.4	168.2	-5.7	-2.3
PHOTOGRAPHIC EQUIPMENT	386	1.4	168.2	178.4	169.1	167.0	170.9	177.8	175.1	174.7	181.7	177.1	172.8	167.6	-3.1	-2.3
MISC. MANUFACTURES	39	2.5	158.2	167.4	153.9	152.0	140.8	142.8	138.8	137.4	144.6	146.2	138.9	134.4	-3.2	-13.5
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	140.2	142.8	134.8	127.0	125.7	121.6	126.4	120.4	123.0	121.6	119.5	118.0	-1.3	-12.7
ELECTRIC UTILITIES		462.6	149.9	153.2	144.2	135.9	135.8	132.3	137.0	130.7	133.7	132.5	130.2	127.9	-1.8	-11.6
SALES TO INDUSTRY		457.1	150.0	153.5	144.3	135.7	135.7	132.3	136.9	130.5	133.7	132.6	130.4	127.7	-2.1	-11.7
OWN USE		5.5	140.9													
INDUSTRIAL GENERATION		102.9	84.0	84.3	83.6	77.7	74.6	72.7	75.9	73.6	73.9	70.6	72.4	72.6	.3	-12.8
SALES TO ELECTRIC UTILITIES		5.1	103.6													
OWN USE		97.8	82.9	82.6	81.1	77.8	73.6	70.3	73.1	70.8	72.1	68.0	69.7	69.9	.3	-13.8

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Explanatory Note

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

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

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

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

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

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

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

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

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

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

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