

FEDERAL RESERVE statistical release



G.12.3

For release at 9:30 a.m. (EST)
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INDUSTRIAL PRODUCTION

Industrial production increased an estimated 0.8 percent in November, the same rate as in October. The composition of the gains in output was similar to October; consumer goods and construction supplies showed small increases while advances for business equipment and materials were sizable. At 156.3 percent of the 1967 average, total industrial output in November was 15.9 percent above the trough reached a year earlier.

Market Groupings

Output of durable consumer goods edged downward again as autos were assembled at a 7.5 million unit rate, the same as in October, and production of appliances declined. Nondurable consumer goods output continued to rise, however. The 1.3 percent increase in the production of business equipment was similar to the revised September and October gains and most components of business equipment shared in the gain. Defense and space equipment production continued to increase. In October and November, output of construction supplies advanced more slowly, averaging 0.4 percent per month, as compared to the 2.5 percent monthly rate of advance in the first nine months of the year.

Materials output increased 1.0 percent further in November reflecting continued strong gains in metals and equipment parts as well as modest increases in consumer durable parts and in nondurable materials such as chemicals. Output of energy materials increased 0.7 percent.

Industry Groupings

Manufacturing production rose 0.8 percent in November with durables up 0.9 percent and nondurables up 0.5 percent. Output at utilities grew 0.6 percent and mining production was up 1.5 percent reflecting sizable gains in all major components.

Industrial Production: Summary

Seasonally adjusted

Item	Index, 1967 = 100		Monthly percent change					Current month from a year ago
	1983		JULY	AUG.	SEP.	OCT.	NOV.	
	OCT.	NOV.						
Total	155.1	156.3	2.3	1.4	1.4	.8	.8	15.9
Market Groupings								
Products, total	155.9	156.9	1.9	1.5	1.1	.6	.6	12.9
Final products	153.3	154.2	1.8	1.1	.9	.8	.6	11.5
Consumer goods	158.0	158.3	1.6	1.0	.7	.4	.2	12.0
Durable goods	156.7	156.4	2.5	.9	2.1	-.4	-.2	25.5
Nondurable goods	158.5	159.0	1.3	1.0	.3	.6	.3	7.5
Business equipment	161.1	163.2	2.1	2.2	1.3	1.6	1.3	11.5
Defense and space	123.1	124.3	2.0	-.2	1.3	1.1	1.0	9.4
Intermediate products	165.7	166.7	2.3	2.6	1.9	.2	.6	17.6
Construction supplies	151.9	152.4	2.6	2.2	1.4	.5	.3	23.5
Materials	153.8	155.3	2.9	1.3	1.7	1.0	1.0	21.0
Industry Groupings								
Manufacturing	156.3	157.5	2.2	1.5	1.5	.8	.8	17.5
Durable	142.8	144.1	2.7	1.5	1.9	.9	.9	20.8
Nondurable	175.9	176.7	1.7	1.3	1.1	.6	.5	13.8
Mining	118.7	120.5	2.1	1.0	.6	1.6	1.5	3.2
Utilities	177.9	178.9	3.7	1.9	.0	-.8	.6	7.3

FEDERAL RESERVE

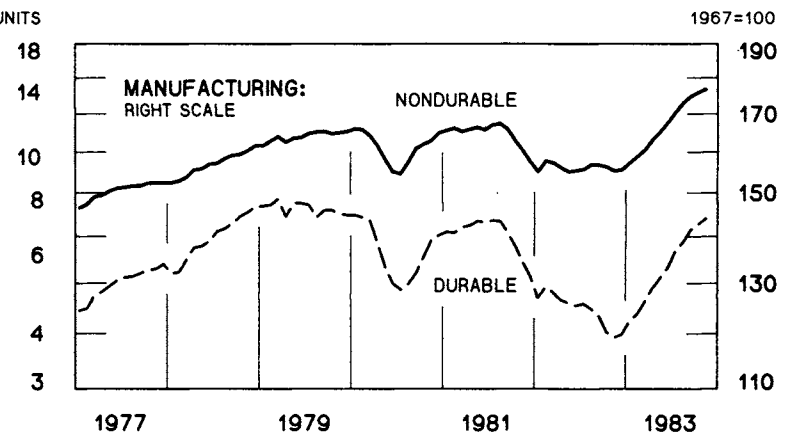
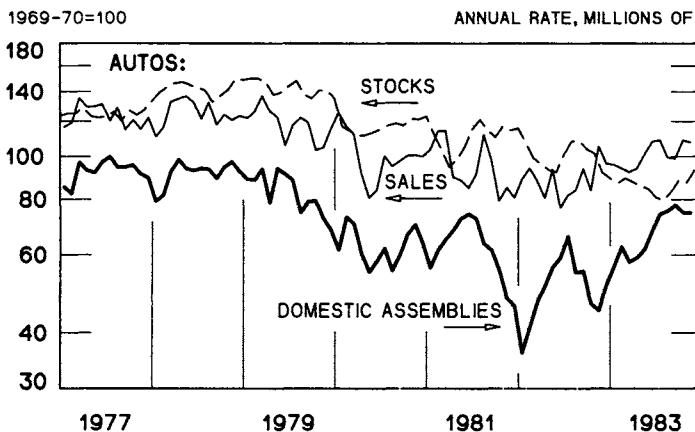
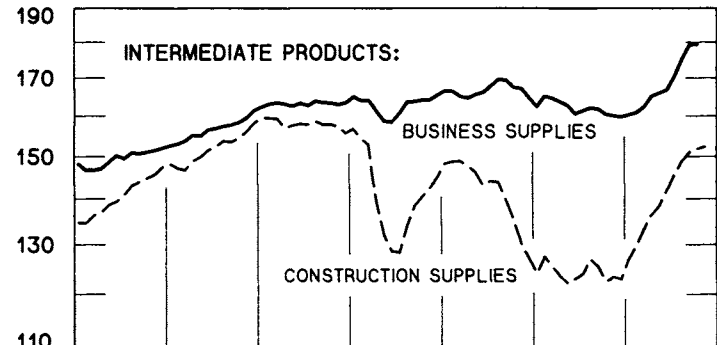
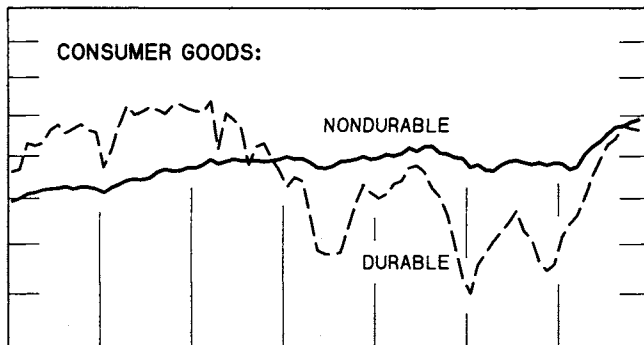
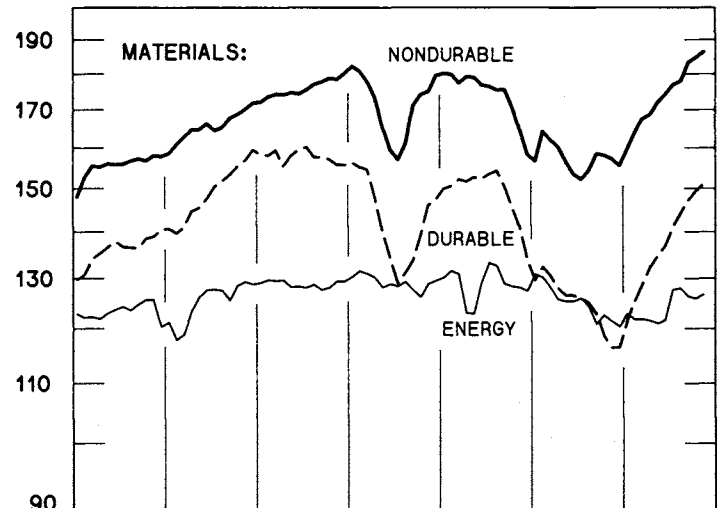
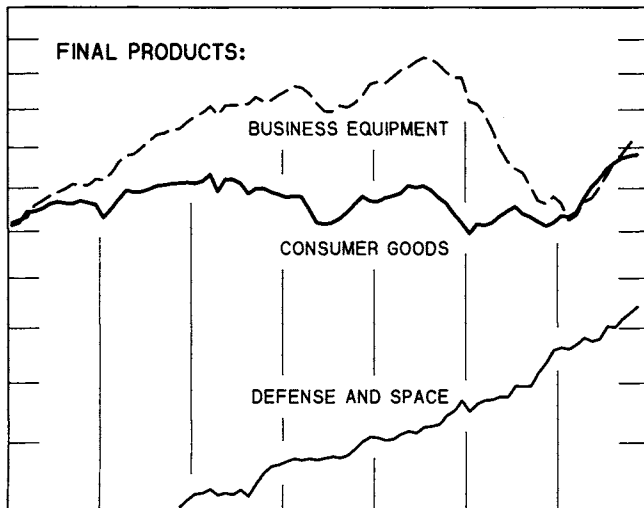
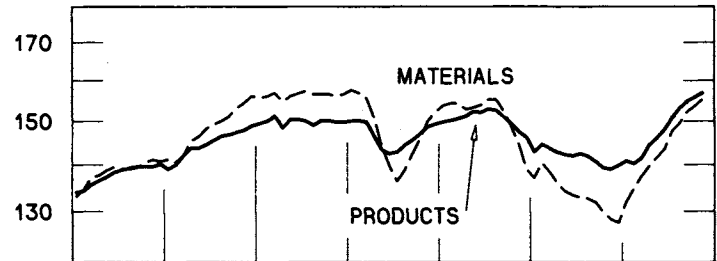
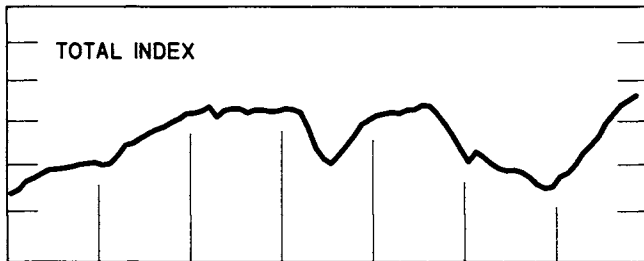


Industrial Production

INDUSTRIAL PRODUCTION

NOVEMBER DATA

SEASONALLY ADJUSTED, RATIO SCALE, 1967=100



AUTOS, SALES AND STOCKS INCLUDE IMPORTS

Table 1A

INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Seasonally adjusted, 1967=100

NAJGR MARKET GROUPINGS	1967	1982		1983											
	PRO- POR- TION	AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
TOTAL INDEX	100.00	138.6	134.9	135.2	137.4	138.1	140.0	142.6	144.4	146.4	149.7	151.8	153.9	155.1	156.3
PRODUCTS, TOTAL	60.71	141.8	139.0	139.9	140.9	140.3	141.6	144.5	146.2	148.1	150.9	153.2	154.9	155.9	156.9
FINAL PRODUCTS	47.82	141.5	138.3	139.5	140.1	138.9	139.9	142.8	144.5	146.4	149.0	150.7	152.1	153.3	154.2
CONSUMER GOODS	27.68	142.6	141.3	142.0	143.6	143.4	144.3	147.7	150.4	152.4	154.8	156.3	157.4	158.0	158.3
EQUIPMENT	20.14	139.8	134.2	136.1	135.3	132.7	133.8	136.2	136.5	138.2	141.0	143.1	144.9	146.9	148.7
INTERMEDIATE PRODUCTS	12.89	143.3	141.8	141.5	143.7	145.3	147.8	150.8	152.2	154.5	158.1	162.2	165.3	165.7	166.7
MATERIALS	39.29	133.7	128.4	127.8	132.0	134.9	137.6	139.7	141.7	143.7	147.8	149.7	152.3	153.8	155.3
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	129.2	124.6	125.9	131.6	134.4	136.3	140.5	145.5	149.2	152.9	154.2	157.4	156.7	156.4
AUTOMOTIVE PRODUCTS	2.83	129.5	120.7	128.7	136.2	144.3	142.6	144.9	152.2	160.0	167.0	168.1	172.9	170.9	171.8
AUTOS & UTILITY VEHICLES	2.03	99.0	86.9	99.0	107.0	120.8	116.4	117.8	124.9	135.4	145.4	147.0	153.1	149.2	150.1
AUTOS, TOTAL	1.90	86.6	77.7	87.9	97.1	107.3	99.9	102.7	107.4	118.3	129.8	132.0	135.0	129.6	129.4
AUTO PARTS & ALLIED GOODS	.80	206.9	206.6	204.0	210.2	203.9	209.3	213.6	221.5	222.6	221.9	221.8	223.1	226.0	227.1
HOME GOODS	5.06	129.1	126.8	124.3	129.1	128.8	132.8	138.1	141.8	143.2	144.9	146.4	148.7	148.8	147.8
APPLIANCES, AIR COND & TV	1.40	102.6	104.8	94.2	109.5	105.8	105.0	106.1	112.8	114.4	116.2	121.2	125.2	126.6	121.6
APPLIANCES AND TV	1.33	104.6	108.4	98.3	112.9	108.8	108.5	109.7	116.1	118.4	119.7	125.0	129.7	130.6	
CARPETING AND FURNITURE	1.07	149.7	151.4	150.8	149.0	156.7	168.3	180.5	181.9	185.6	187.3	187.5	186.3	186.1	
MISC. HOME GOODS	2.59	135.0	128.6	129.8	131.4	129.7	133.3	137.9	140.9	141.3	143.0	143.2	145.9	145.4	146.0
NONDURABLE CONSUMER GOODS	19.79	148.0	147.9	148.4	148.3	147.0	147.5	150.5	152.3	153.6	155.6	157.1	157.5	158.5	159.0
CLOTHING	4.29														
CONSUMER STAPLES	15.50	159.0	158.1	158.8	158.6	157.4	158.1	161.1	162.8	164.3	166.1	168.0	168.0	169.1	169.7
CONSUMER FOODS & TOBACCO	8.33	149.7	149.0	149.5	150.9	149.5	148.4	150.9	153.2	155.9	156.6	156.3	154.9		
NONFOOD STAPLES	7.17	169.7	168.7	169.6	167.6	166.5	169.4	172.9	174.0	174.1	177.2	181.6	183.2	183.5	183.8
CONSUMER CHEMICAL PROD.	2.63	219.9	218.9	220.9	222.6	220.9	225.6	225.5	227.8	229.0	233.8	239.7	241.5	242.4	
CONSUMER PAPER PRODUCTS	1.92	127.7	125.1	128.3	127.1	127.9	128.1	129.2	128.6	130.1	132.6	137.4	138.2	137.5	
CONSUMER ENERGY PROD.	2.62	150.2	150.2	148.4	142.2	140.2	143.3	152.2	153.4	151.2	153.2	155.7	157.7	158.1	
RESIDENTIAL UTILITIES	1.45	170.8	171.5	169.3	164.1	162.9	166.1	175.5	174.3	170.5	173.2	179.9	182.8		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	157.9	146.4	148.1	146.6	142.7	143.7	146.9	147.7	150.2	153.3	156.6	158.6	161.1	163.2
INDUSTRIAL EQUIPMENT	6.77	134.9	117.2	117.9	118.4	113.7	113.1	113.5	114.5	116.3	119.9	124.3	125.6	127.7	130.3
BUILDING AND MINING EQUIP.	1.44	214.2	165.7	171.9	173.8	153.6	145.3	141.8	146.2	148.7	154.4	159.2	160.8	168.4	176.1
MANUFACTURING EQUIPMENT	3.85	107.2	97.5	97.0	97.6	97.9	99.7	101.7	102.5	105.0	108.9	113.3	115.0	115.9	116.7
POWER EQUIPMENT	1.47	129.9	121.0	119.7	118.3	116.0	116.2	116.6	115.0	114.1	114.6	119.0	118.8	118.7	120.7
COM'L, TRANSIT, FARM EQ	5.86	184.4	180.2	183.0	179.2	176.1	179.2	185.4	186.1	189.5	191.9	194.0	196.7	199.6	201.2
COMMERCIAL EQUIPMENT	3.26	253.5	254.8	258.6	254.9	251.2	255.7	264.3	265.0	270.9	276.0	277.4	281.2	284.2	287.5
TRANSIT EQUIPMENT	1.93	103.9	92.3	96.2	90.8	88.2	90.1	92.0	92.6	93.2	92.0	95.9	97.6	100.8	99.4
FARM EQUIPMENT	.67	80.5	70.7	65.1	66.0	63.4	63.4	70.2	71.3	70.4	70.8	70.8	71.0	72.7	
DEFENSE AND SPACE EQUIPMENT	7.51	109.4	113.6	115.9	116.4	116.1	117.0	118.2	117.6	118.0	120.4	120.2	121.8	123.1	124.3
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	124.3	123.4	123.0	127.0	129.7	133.1	136.4	138.4	142.1	145.8	149.0	151.1	151.9	152.4
BUSINESS SUPPLIES	6.47	162.1	160.1	159.8	160.3	160.9	162.3	165.2	166.0	166.8	170.4	175.3	179.3	179.4	
COMMERCIAL ENERGY PRODUCTS	1.14	181.1	182.4	182.4	180.6	178.6	180.3	183.3	183.1	181.4	185.2	186.9	190.2	187.7	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	125.0	116.4	116.5	121.5	125.3	128.7	132.4	134.7	137.0	141.1	144.2	147.2	149.4	151.1
DURABLE CONSUMER PARTS	4.58	95.3	90.0	91.1	96.2	101.6	104.0	106.5	108.5	109.5	115.6	119.9	123.1	123.9	124.7
EQUIPMENT PARTS	5.44	166.8	155.1	155.3	157.5	158.8	162.5	167.2	170.6	175.8	180.8	183.6	186.0	189.1	192.4
DURABLE MATERIALS NEC	10.34	116.2	107.7	107.4	113.8	118.2	121.9	125.4	127.5	128.7	131.5	134.2	137.4	139.9	141.2
BASIC METAL MATERIALS	5.57	79.9	69.1	68.7	78.1	82.4	86.0	87.8	89.3	89.6	90.8	93.1	94.5	98.4	
NONDURABLE GOODS MATERIALS	10.47	157.5	157.3	155.6	159.7	164.0	167.5	168.7	172.1	174.3	177.0	178.0	183.4	184.8	186.5
TEXTILE, PAPER, & CHEM NAT	7.62	161.1	161.0	160.0	163.7	170.0	174.3	175.9	180.2	182.8	186.1	186.4	192.0	193.5	195.2
TEXTILE MATERIALS	1.85	102.2	102.5	102.1	104.7	106.4	110.6	110.6	114.6	116.0	119.0	121.5	123.1	125.4	
PAPER MATERIALS	1.62	145.6	149.7	144.1	150.1	150.1	149.5	150.8	154.4	155.0	161.1	161.8	165.4	166.9	
CHEMICAL MATERIALS	4.15	193.5	191.6	192.0	195.4	206.2	212.5	214.9	219.6	223.6	225.9	225.1	233.1	234.3	
CONTAINERS, NONDURABLE	1.70	161.4	160.8	155.2	162.1	159.6	163.8	163.2	164.3	166.1	166.5	170.6	179.1	180.5	
NONDURABLE MATERIALS NEC	1.14	127.9	127.4	127.2	129.6	130.5	127.7	129.1	129.7	129.9	131.3	133.0	132.6	133.6	
ENERGY MATERIALS	8.48	125.1	121.4	120.4	123.0	121.8	121.9	121.6	121.1	121.8	127.7	128.0	126.4	125.9	126.8
PRIMARY ENERGY	4.65	116.0	113.7	113.5	116.5	115.4	114.4	113.9	113.8	112.6	115.4	113.9	112.8	113.5	
CONVERTED FUEL MATERIALS	3.82	136.3	130.8	128.9	130.8	129.6	131.1	131.0	129.9	132.9	142.7	145.2	142.8	141.1	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	119.6	119.6	118.2	120.8	119.9	122.0	126.3	129.2	130.2	132.3	133.3	135.2	135.6	135.3
ENERGY, TOTAL	12.23	135.7	133.3	132.2	132.4	131.0	131.9	133.9	133.8	133.6	138.5	139.4	139.0	138.6	139.3
PRODUCTS	3.76	159.6	160.0	158.7	153.8	151.9	154.5	161.7	162.4	160.4	162.9	165.2	167.5	167.1	
MATERIALS	8.48	125.1	121.4	120.4	123.0	121.8	121.9	121.6	121.1	121.8	127.7	128.0	126.4	125.9	126.8

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967	1981	1982	1983											
	PRO- POR- TION	1982 AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
TOTAL INDEX	100.00	138.6	134.8	131.2	133.5	138.1	140.5	141.9	143.9	149.7	147.0	153.3	158.5	158.3	156.0
PRODUCTS, TOTAL	60.71	141.8	138.9	134.9	135.7	139.1	141.1	142.4	144.5	151.8	149.9	156.5	161.9	160.4	156.6
FINAL PRODUCTS	47.82	141.5	138.2	134.6	135.4	138.2	139.6	140.7	142.5	149.8	147.5	153.3	159.2	157.9	153.9
CONSUMER GOODS	27.68	142.6	140.5	134.3	137.9	142.3	144.1	145.6	147.9	156.4	152.4	160.7	166.5	164.6	157.1
EQUIPMENT	20.14	139.8	135.1	135.0	132.1	132.5	133.5	133.9	135.2	140.7	140.7	143.2	149.1	148.7	149.6
INTERMEDIATE PRODUCTS	12.89	143.3	141.5	136.1	136.7	142.5	146.3	149.0	151.6	159.2	158.9	168.1	172.2	169.6	166.3
MATERIALS	39.29	133.7	128.5	125.4	130.2	136.6	139.7	141.0	143.1	146.6	142.4	148.5	153.1	155.1	155.1
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	129.2	126.4	118.4	126.4	136.5	141.0	143.9	147.6	154.9	137.8	147.0	161.6	167.6	157.7
AUTOMOTIVE PRODUCTS	2.83	129.5	124.2	117.1	132.1	148.2	152.7	153.8	159.9	170.8	139.8	145.8	171.5	188.0	173.9
AUTOS & UTILITY VEHICLES	2.03	99.0	91.3	83.2	102.5	124.8	130.0	130.7	138.7	152.5	112.0	114.4	146.9	168.7	152.1
AUTOS, TOTAL	1.90	86.6	82.3	74.1	92.8	110.2	112.5	114.3	121.6	134.1	98.9	98.8	128.1	147.2	131.5
AUTO PARTS & ALLIED GOODS	.80	206.9	207.7	203.0	207.2	207.6	210.1	212.5	213.7	217.0	210.5	225.5	233.8	237.1	229.3
HOME GOODS	5.06	129.1	127.7	119.2	123.2	129.9	134.4	138.4	140.7	146.1	136.6	147.6	156.1	156.1	148.7
APPLIANCES, AIR COND & TV	1.40	102.6	101.6	79.7	106.6	111.6	110.5	111.7	115.1	118.5	103.8	115.9	131.2	138.8	118.0
APPLIANCES AND TV	1.33	104.6	105.6	83.2	109.3	114.1	113.1	114.3	117.3	122.3	107.2	121.2	137.2	144.3	
CARPETING AND FURNITURE	1.07	149.7	155.6	149.2	143.0	161.1	170.8	180.1	177.9	187.1	169.8	188.4	195.5	194.9	
MISC. HOME GOODS	2.59	135.0	130.3	128.3	124.0	126.9	132.3	135.6	139.2	144.1	140.7	147.9	153.3	149.3	147.9
NONDURABLE CONSUMER GOODS	19.79	148.0	146.1	140.7	142.4	144.6	145.4	146.3	148.0	157.0	158.3	166.2	168.5	163.4	156.9
CLOTHING	4.29														
CONSUMER STAPLES	15.50	159.0	156.6	152.9	153.5	153.4	154.1	154.9	157.2	167.1	171.0	178.4	180.4	173.9	167.7
CONSUMER FOODS & TOBACCO	8.33	149.7	150.2	141.7	143.4	144.2	145.2	147.1	150.0	159.5	156.9	163.4	166.8		
NONFOOD STAPLES	7.17	169.7	164.0	165.9	165.2	164.0	164.3	163.9	165.5	175.9	187.3	195.7	196.1	183.8	179.6
CONSUMER CHEMICAL PROD	2.63	219.9	216.0	210.9	207.0	208.5	216.9	215.2	224.3	239.8	248.8	255.1	261.8	250.6	
CONSUMER PAPER PRODUCTS	1.92	127.7	123.7	121.9	119.7	123.8	123.5	124.5	124.8	132.5	139.6	149.9	148.8	141.0	
CONSUMER ENERGY PROD	2.62	150.2	141.5	153.1	156.5	148.8	141.5	141.3	136.5	143.6	160.5	169.7	164.8	148.1	
RESIDENTIAL UTILITIES	1.45	170.8	153.5	173.2	188.6	178.4	166.1	160.5	147.1	155.8	185.5	204.0			
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	157.9	147.1	145.4	141.7	142.5	143.3	144.1	145.9	153.8	153.4	157.4	165.3	164.0	163.8
INDUSTRIAL EQUIPMENT	6.77	134.9	118.7	117.2	115.6	114.5	113.3	112.2	113.1	118.0	117.6	124.1	130.2	128.9	131.6
BUILDING AND MINING EQUIP	1.44	214.2	168.6	175.1	171.1	153.3	143.8	139.7	143.6	148.7	151.6	158.1	165.6	171.8	180.0
MANUFACTURING EQUIPMENT	3.85	107.2	98.4	94.9	94.7	99.7	100.5	100.9	101.3	106.9	107.0	113.3	119.5	115.8	117.3
POWER EQUIPMENT	1.47	129.9	122.9	118.8	115.6	115.1	116.6	114.6	114.2	116.7	111.8	119.1	123.4	120.9	121.5
COM'L, TRANSIT, FARM EQ	5.86	184.4	180.0	178.1	171.9	174.8	177.9	180.9	183.8	195.2	194.9	196.0	205.8	204.7	201.1
COMMERCIAL EQUIPMENT	3.26	253.5	254.9	250.7	242.6	246.7	249.3	255.8	259.7	279.1	286.1	286.5	296.9	291.3	287.5
TRANSIT EQUIPMENT	1.93	103.9	92.8	95.3	89.7	90.8	95.4	92.0	94.1	95.9	86.2	89.2	97.5	103.3	100.3
FARM EQUIPMENT	.67	80.5	66.6	62.9	64.6	67.2	68.2	72.1	72.8	73.2	64.1	62.8	74.6	75.1	
DEFENSE AND SPACE EQUIPMENT	7.51	109.4	114.7	117.4	116.1	115.7	117.0	116.7	117.2	118.7	119.2	119.3	121.9	123.0	125.5
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	124.3	123.9	117.3	120.0	128.3	133.1	138.0	140.4	147.8	143.7	150.6	154.9	155.5	153.0
BUSINESS SUPPLIES	6.47	162.1	158.9	154.9	153.2	156.7	159.5	159.9	162.7	170.4	173.9	185.5	189.3	183.6	
COMMERCIAL ENERGY PRODUCTS	1.14	181.1	172.9	175.3	179.5	174.8	173.6	169.9	171.2	183.7	200.6	207.8	205.7	186.7	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	125.0	116.8	115.2	118.1	126.0	130.9	134.0	137.3	140.1	136.0	141.3	148.2	151.1	151.3
DURABLE CONSUMER PARTS	4.58	95.3	91.5	92.6	94.8	102.2	105.4	107.8	110.0	110.7	108.9	114.4	123.2	126.1	127.4
EQUIPMENT PARTS	5.44	166.8	156.7	158.3	156.4	159.0	163.1	166.9	171.4	177.3	176.1	179.2	186.8	190.2	193.9
DURABLE MATERIALS NEC	10.34	116.2	107.1	102.5	108.3	119.2	125.2	128.4	131.5	133.6	126.9	133.3	139.0	141.6	139.4
BASIC METAL MATERIALS	5.57	79.9	65.9	63.6	77.2	84.2	91.7	92.9	96.7	94.2	84.5	88.3	92.6	97.5	
NONDURABLE GOODS MATERIALS	10.47	157.5	158.2	149.2	156.2	167.1	171.2	171.9	173.8	179.1	166.7	177.7	185.0	188.7	186.7
TEXTILE, PAPER, & CHEM MAT	7.62	161.1	161.4	153.7	159.6	173.4	177.9	180.1	182.8	188.2	175.7	185.8	193.8	195.5	195.1
TEXTILE MATERIALS	1.85	102.2	102.6	93.9	100.9	107.9	110.7	112.2	118.3	122.6	102.2	127.3	126.6	132.5	
PAPER MATERIALS	1.62	145.6	150.5	129.4	149.2	156.5	157.3	154.9	160.3	160.1	148.4	162.7	162.1	168.2	
CHEMICAL MATERIALS	4.15	193.5	191.9	189.9	189.9	209.3	215.9	220.3	220.5	228.5	219.1	221.0	236.2	234.3	
CONTAINERS, NONDURABLE	1.70	161.4	157.2	137.9	156.6	163.3	171.2	166.2	164.8	173.8	158.8	175.9	182.4	187.6	
NONDURABLE MATERIALS NEC	1.14	127.9	138.7	136.1	133.1	130.4	126.4	125.8	126.5	126.1	118.6	126.0	129.6	144.7	
ENERGY MATERIALS	8.48	125.1	119.7	120.6	126.9	124.7	121.9	119.6	119.0	121.9	127.8	129.8	125.5	123.3	125.4
PRIMARY ENERGY	4.65	116.0	113.2	112.3	116.3	116.3	115.4	114.7	114.3	114.3	112.7	113.8	113.2	113.1	
CONVERTED FUEL MATERIALS	3.82	136.3	127.6	130.7	139.8	134.8	129.9	125.7	124.6	131.0	146.2	149.3	140.6	135.4	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	119.6	118.6	108.8	113.7	122.2	125.1	127.8	128.7	134.4	125.5	135.9	142.1	142.0	134.5
ENERGY, TOTAL	12.23	135.7	129.3	132.7	138.1	134.5	130.9	128.9	127.6	132.3	141.6	145.6	141.4	134.5	135.3
PRODUCTS	3.76	159.6	151.0	159.8	163.5	156.7	151.2	150.0	147.0	155.7	172.7	181.3	177.2	159.8	
MATERIALS	8.48	125.1	119.7	120.6	126.9	124.7	121.9	119.6	119.0	121.9	127.8	129.8	125.5	123.3	125.4

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS
 Seasonally adjusted, 1987=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1981		1982		1983										
		FEB-1 1981	AVG. 1981	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
MINING AND UTILITIES		12.05	146.3	140.4	140.1	141.3	137.5	137.7	138.9	139.7	139.6	143.8	146.0	146.3	146.7	148.1
MINING		6.36	126.1	116.8	118.4	121.9	115.6	112.6	111.6	112.8	112.6	115.0	116.1	116.8	118.7	120.5
UTILITIES		5.69	168.7	166.7	164.2	163.1	162.0	165.8	169.3	169.7	169.8	176.0	179.3	179.3	177.9	178.9
MANUFACTURING		87.95	137.6	134.0	134.5	136.7	138.2	140.4	143.1	145.1	147.4	150.6	152.8	155.1	156.3	157.5
NONDURABLE		35.97	156.2	155.3	155.6	157.4	159.0	160.7	163.3	165.4	167.8	170.6	172.9	174.8	175.9	176.7
DURABLE		51.98	124.7	119.3	119.9	122.5	123.9	126.3	129.1	131.0	133.2	136.8	138.8	141.5	142.8	144.1
MINING																
METAL MINING	10	-.51	82.4	70.4	74.9	81.7	75.1	75.2	79.8	84.4	82.9	82.5	80.9	77.0	83.2	
COAL	11, 12	-.69	142.7	134.1	129.7	144.8	136.5	127.3	125.3	125.6	124.6	139.9	141.2	140.5	142.7	144.8
OIL AND GAS EXTRACTION	13	4.40	131.1	120.3	122.9	124.6	117.0	114.4	112.2	112.5	112.6	113.9	114.7	116.1	117.2	119.1
STONE AND EARTH MINERALS	14	-.75	112.1	111.9	111.7	112.8	115.7	114.0	117.7	122.5	121.7	121.2	125.0	126.5	129.5	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	151.1	152.0	152.8	154.4	153.0	152.0	153.7	155.6	157.7	159.9	159.3	158.2		
TOBACCO PRODUCTS	21	-.67	118.0	113.0	109.9	104.7	108.5	113.4	114.8	112.9	120.0	112.9	117.1	111.2		
TEXTILE MILL PRODUCTS	22	2.68	124.5	123.1	122.2	125.8	130.7	131.9	136.6	139.6	141.8	146.7	147.4	148.7	149.2	
APPAREL PRODUCTS	23	3.31														
PAPER AND PRODUCTS	26	3.21	150.8	154.5	151.1	158.8	155.6	156.3	157.0	161.5	163.0	165.1	168.6	170.4	171.8	173.5
PRINTING AND PUBLISHING	27	4.72	144.1	141.7	142.8	141.3	144.0	145.9	145.7	145.2	147.4	152.0	157.8	161.2	162.1	164.0
CHEMICALS AND PRODUCTS	28	7.74	196.1	192.8	195.9	197.6	202.3	205.7	208.5	211.0	214.7	218.3	220.3	224.2	227.3	
PETROLEUM PRODUCTS	29	1.79	121.8	120.0	118.7	113.5	111.7	114.8	120.6	123.8	123.0	124.3	123.2	125.1	125.4	124.1
RUBBER & PLASTICS PRODUCTS	30	2.24	254.7	250.2	249.7	256.2	264.0	272.0	283.0	288.0	293.8	296.1	306.9	316.2	315.1	
LEATHER AND PRODUCTS	31	-.86	60.9	57.7	56.0	59.5	61.7	59.4	58.7	59.6	60.1	62.3	64.4	64.2	63.3	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19, 91	3.64	86.9	91.9	92.5	93.5	93.3	91.9	93.2	92.6	93.3	95.2	96.8	98.0	99.2	100.8
LUMBER AND PRODUCTS	24	1.64	112.6	119.1	121.4	130.0	130.2	128.7	132.1	135.8	137.4	141.3	141.6	142.3	141.0	
FURNITURE AND FIXTURES	25	1.37	151.9	152.4	153.7	150.0	154.0	161.0	167.7	169.6	173.1	175.2	179.0	180.7	182.1	
CLAY, GLASS, STONE PRCD	32	2.74	128.2	127.3	125.4	128.0	131.8	135.6	138.3	139.2	141.7	145.8	147.9	151.5	151.2	
PRIMARY METALS	33	6.57	75.3	63.6	63.5	73.1	77.9	81.2	83.1	84.9	84.8	85.5	87.5	90.5	94.7	96.6
IRON AND STEEL	331, 2	4.21	61.7	47.5	46.6	59.0	64.3	66.9	68.5	69.5	69.7	71.8	75.1	78.2	84.1	
FABRICATED METAL PRCD	34	5.93	114.8	107.0	107.3	107.6	110.3	113.9	115.3	115.5	118.5	122.7	126.0	127.4	128.4	129.3
NONELECTRICAL MACHINERY	35	9.15	149.0	139.6	139.2	138.0	136.2	138.6	143.1	146.1	149.5	154.2	157.3	158.2	158.9	160.8
ELECTRICAL MACHINERY	36	8.05	169.3	165.5	165.5	169.5	169.9	173.8	177.2	180.1	182.4	188.3	189.2	195.6	197.9	199.8
TRANSPORTATION EQUIP	37	9.27	104.9	100.2	103.7	106.3	109.6	110.1	111.4	113.8	116.6	119.7	121.1	124.7	125.5	126.3
MOTOR VEHICLES & PTS	371	4.50	109.8	101.7	108.8	113.9	123.0	123.2	125.5	130.4	136.2	142.3	144.3	150.9	150.9	152.2
AEROSPACE & MISC	372-9	4.77	100.4	98.7	98.9	99.1	97.0	97.7	98.1	98.1	98.1	98.5	99.2	100.0	101.5	101.9
INSTRUMENTS	38	2.11	161.9	155.8	155.2	154.5	153.4	154.0	155.1	156.0	156.1	159.3	161.6	162.9	162.7	163.2
MISCELLANEOUS MFRS	39	1.51	137.0	129.5	128.2	131.3	133.9	136.9	145.0	149.0	151.0	153.7	153.1	151.7	150.9	153.1
UTILITIES																
ELECTRIC		3.88	190.5	188.3	185.6	184.4	183.0	188.2	192.7	192.9	192.0	200.9	205.4	204.5	202.8	204.1

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

	1982		1983									
	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.
CHANGE FROM PREVIOUS MONTH												
TOTAL INDEX	-.2	1.6	-.5	1.4	1.9	1.3	1.4	2.3	1.4	1.4	-.8	-.8
FINAL PRODUCTS	-.9	-.4	-.9	-.7	2.1	1.2	1.3	1.8	1.1	-.9	-.8	-.6
CONSUMER GOODS	-.5	1.1	-.1	-.6	2.4	1.8	1.3	1.6	1.0	-.7	-.4	-.2
DURABLE CONSUMER GOODS	1.0	4.5	2.1	1.4	3.1	3.6	2.5	-.9	2.1	-.4	-.2	-.2
NONDURABLE CONSUMER GOODS	-.3	-.1	-.9	-.3	2.0	1.2	-.9	1.3	1.0	-.3	-.6	-.3
BUSINESS EQUIPMENT	1.2	-1.0	-2.7	-.7	2.2	-.5	1.7	2.1	2.2	1.3	1.6	1.3
INTERMEDIATE PRODUCTS	-.2	1.6	1.1	1.7	2.0	-.9	1.5	2.3	2.6	1.9	-.2	-.6
MATERIALS	-.5	3.3	2.2	2.0	1.5	1.4	1.4	2.9	1.3	1.7	1.0	1.0
DURABLE GOODS MATERIALS	-.1	4.3	3.1	2.7	2.9	1.7	1.7	3.0	2.2	2.1	1.5	1.1
NONDURABLE GOODS MATERIALS	-1.1	2.6	2.7	2.1	-.7	2.0	1.3	1.5	-.6	3.0	-.8	-.9
MANUFACTURING	-.4	1.6	1.1	1.6	1.9	1.4	1.6	2.2	1.5	1.5	-.8	-.8
NONDURABLE	-.2	1.2	1.0	1.1	1.6	1.3	1.5	1.7	1.3	1.1	-.6	-.5
DURABLE	-.5	2.2	1.1	1.9	2.2	1.5	1.7	2.7	1.5	1.9	-.9	-.9
MINING AND UTILITIES	-.2	-.9	-2.7	-.1	-.9	-.6	-.1	3.0	1.5	-.2	-.3	1.0
CHANGE FROM SAME MONTH A YEAR AGO												
TOTAL INDEX	-5.7	-2.3	-3.4	-1.2	1.7	3.7	5.6	7.9	9.7	12.1	14.3	15.9
FINAL PRODUCTS	-4.6	-1.9	-3.6	-2.4	-.1	1.6	3.0	4.6	6.7	8.6	10.5	11.5
CONSUMER GOODS	-.0	2.9	1.1	2.0	3.9	4.7	5.2	6.2	8.5	9.8	11.1	12.0
DURABLE CONSUMER GOODS	2.2	9.6	6.8	6.4	7.5	9.7	10.8	11.4	16.0	19.9	23.9	25.5
NONDURABLE CONSUMER GOODS	-.7	-.6	-.7	-.5	2.7	3.0	3.2	4.4	5.7	6.3	6.7	7.5
BUSINESS EQUIPMENT	-17.3	-14.9	-16.8	-15.0	-10.9	-7.6	-4.1	-1.0	1.8	5.4	9.5	11.5
INTERMEDIATE PRODUCTS	-3.0	-.2	-.7	1.8	4.9	6.7	8.9	10.7	12.1	15.0	17.0	17.6
MATERIALS	-8.1	-3.8	-3.9	-.7	2.6	5.5	7.6	11.1	12.7	15.4	18.3	21.0
DURABLE GOODS MATERIALS	-13.1	-6.3	-5.4	-1.5	3.4	6.4	8.2	12.0	15.3	19.7	26.1	29.8
NONDURABLE GOODS MATERIALS	-1.7	1.8	-.1	3.4	5.2	9.9	13.6	16.2	15.2	15.7	16.8	18.6
MANUFACTURING	-5.3	-1.3	-1.9	-.2	3.2	5.2	7.0	9.1	10.7	13.1	15.8	17.5
NONDURABLE	-1.1	1.5	-.8	2.2	4.6	6.7	8.0	9.6	10.2	11.6	12.6	13.8
DURABLE	-8.7	-3.6	-4.2	-1.5	1.9	3.9	6.1	8.7	11.1	14.6	18.7	20.8
MINING AND UTILITIES	-9.4	-10.2	-11.6	-10.1	-8.8	-6.1	-3.9	-.8	3.3	4.7	4.5	5.5

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

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967		1982		1983											
		PRO- TION	PCR- AVG.	PRO- NOV.	PCR- DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
MINING AND UTILITIES		12.05	146.3	136.4	140.7	147.2	141.7	136.8	134.2	133.4	137.8	146.8	152.2	148.1	142.5	143.8	
MINING		6.36	126.1	118.1	117.8	119.1	114.5	112.4	111.9	113.6	113.4	112.5	116.5	118.1	120.9	122.0	
UTILITIES		5.69	168.7	156.9	166.1	178.6	171.9	164.0	159.3	155.4	164.9	185.1	192.0	181.5	166.7	168.2	
MANUFACTURING		187.95	137.6	134.5	129.6	131.8	138.0	141.5	143.0	145.4	151.3	146.8	153.4	159.9	160.5	157.8	
NONDURABLE		35.97	156.2	155.7	147.5	149.9	157.5	160.8	162.3	165.0	172.6	167.6	177.6	183.2	182.0	176.7	
DURABLE		51.98	124.7	119.9	117.2	119.2	124.5	128.1	129.7	131.8	136.5	132.4	136.7	143.8	145.7	144.6	
MINING																	
METAL MINING	10		5.11	82.4	68.5	68.9	76.2	71.2	74.2	81.4	90.4	88.5	82.9	84.0	80.5	83.5	
COAL	11,12		6.91	142.7	131.9	119.8	132.0	135.0	133.3	130.8	130.0	130.5	122.6	144.6	145.7	150.4	144.8
OIL AND GAS EXTRACTION	13		4.40	131.1	122.1	124.3	124.2	117.5	114.3	111.4	111.7	113.0	113.0	114.3	116.2	118.0	120.8
STONE AND EARTH MINERALS	14		7.51	112.1	115.5	111.8	106.6	108.1	108.2	118.2	125.5	124.4	121.0	126.3	129.5	136.0	
NONDURABLE MANUFACTURES																	
FOODS	20		8.75	151.1	153.6	147.2	147.1	147.0	147.6	149.7	152.4	159.9	159.9	165.1	168.7		
TOBACCO PRODUCTS	21		6.71	118.0	118.5	88.2	106.8	115.9	116.5	108.7	107.1	127.5	98.3	122.4	119.0		
TEXTILE MILL PRODUCTS	22		2.68	124.5	124.3	112.2	117.6	128.7	132.8	138.4	142.9	149.2	135.2	151.5	155.9	157.4	
APPAREL PRODUCTS	23		3.31														
PAPER AND PRODUCTS	26		3.21	150.8	153.6	135.1	156.4	160.9	164.4	162.5	165.2	167.6	153.3	168.3	168.5	177.4	172.5
PRINTING AND PUBLISHING	27		4.72	144.1	141.2	137.5	128.4	135.8	137.9	139.6	142.4	152.3	160.6	173.2	176.5	168.0	164.8
CHEMICALS AND PRODUCTS	28		7.74	196.1	192.1	188.1	188.9	200.0	207.3	209.3	213.2	223.0	219.6	223.0	232.8	228.8	
PETROLEUM PRODUCTS	29		1.79	121.8	123.1	121.0	110.9	108.6	110.0	115.9	121.8	125.4	128.1	126.0	128.8	125.4	125.9
RUBBER & PLASTICS PRODUCTS	30		2.24	125.7	125.5	243.2	247.8	275.2	284.5	285.1	286.5	295.3	273.9	300.7	324.0	323.0	
LEATHER AND PRODUCTS	31		8.61	60.9	58.1	53.1	59.1	64.1	61.3	59.5	61.4	61.6	53.3	64.5	65.1	66.1	
DURABLE MANUFACTURES																	
ORDNANCE, PVT & GOVT	19,91		3.64	86.9	91.5	91.8	93.7	93.4	92.7	93.0	93.5	94.5	94.9	96.1	97.7	97.7	99.8
LUMBER AND PRODUCTS	24		1.64	112.6	118.8	111.7	123.8	130.5	129.8	133.4	135.8	141.6	137.1	144.6	148.0	148.5	
FURNITURE AND FIXTURES	25		1.37	151.9	153.8	153.7	147.8	162.5	165.3	167.0	164.1	171.9	159.9	180.7	186.3	183.7	
CLAY, GLASS, STONE PROD	32		2.74	128.2	130.1	119.3	117.9	124.8	132.2	139.4	140.6	148.8	146.2	153.3	155.8	158.0	
PRIMARY METALS	33		6.57	75.3	60.6	59.1	72.3	79.4	87.4	88.0	90.9	88.7	80.4	83.7	88.0	93.0	92.2
IRON AND STEEL	331,2		4.21	61.7	44.7	42.8	57.9	64.3	71.6	73.6	75.9	73.2	70.0	72.5	74.6	82.5	
FABRICATED METAL PROD	34		5.93	114.8	108.1	106.2	104.7	112.3	115.5	114.9	115.0	120.0	119.0	125.3	129.9	129.5	130.6
NONELECTRICAL MACHINERY	35		9.15	149.0	139.1	135.4	132.9	137.1	138.7	142.0	143.9	152.7	154.7	158.2	163.2	161.8	160.8
ELECTRICAL MACHINERY	36		8.05	169.3	167.7	164.5	167.3	170.1	174.5	175.9	179.2	185.2	182.2	186.0	200.0	202.9	202.5
TRANSPORTATION EQUIP	37		9.27	104.9	101.7	101.1	104.3	110.5	114.2	114.4	117.5	121.5	109.2	111.4	123.5	130.9	127.5
MOTOR VEHICLES & PTS	371		4.50	109.8	104.1	102.0	111.1	124.8	130.5	131.3	137.3	145.9	122.7	126.8	148.4	161.6	153.5
AEROSPACE & MISC	372-9		4.77	100.4	99.6	100.3	97.9	97.0	98.9	98.5	98.8	98.5	96.5	96.8	100.0	102.0	103.0
INSTRUMENTS	38		2.11	161.9	158.3	156.7	150.0	151.6	152.7	152.9	155.2	159.1	158.8	162.1	167.5	164.0	165.3
MISCELLANEOUS MFRS	39		1.51	137.0	130.7	124.8	123.5	130.6	136.2	142.9	146.3	153.7	150.5	158.2	162.3	157.2	154.5
UTILITIES																	
ELECTRIC			3.88	190.5	174.4	185.2	200.6	191.6	181.8	176.6	173.7	188.8	219.0	228.3	211.9	189.7	189.0

Table 3B
INDUSTRIAL PRODUCTION: HISTORICAL DATA
 Seasonally adjusted, 1967=100

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q I	Q II	Q III	Q IV	ANNUAL
INDEX	99.8	99.0	98.5	99.2	98.7	98.4	98.7	100.0	100.3	101.2	102.6	103.5	99.1	98.8	99.7	102.4	100.0
67	103.7	104.3	104.7	104.9	106.2	106.6	106.5	107.1	107.1	107.4	108.6	108.8	104.2	105.9	106.9	108.3	106.3
68	109.5	110.2	110.8	110.6	110.3	111.2	111.8	112.3	112.3	112.5	111.4	111.2	110.2	110.7	112.1	111.7	111.1
69	109.1	108.8	108.8	108.6	108.3	108.1	108.4	108.3	107.6	105.4	104.8	107.2	108.9	108.3	108.1	105.8	107.8
70	108.1	108.0	108.0	108.5	109.1	109.6	109.8	108.9	110.3	110.9	111.3	112.3	108.0	109.1	109.7	111.5	109.6
71	114.6	115.3	116.5	117.7	118.1	118.7	119.3	120.7	121.8	123.4	124.4	125.8	115.5	118.2	120.6	124.5	119.7
72	126.3	127.8	128.5	128.5	129.6	129.9	130.4	130.4	131.1	131.4	131.6	131.3	127.5	129.3	130.6	131.4	129.8
73	129.9	129.6	130.0	129.9	131.3	131.9	131.8	131.7	131.8	129.5	124.9	119.3	129.8	131.0	131.8	124.6	129.3
74	115.2	112.7	111.7	112.6	113.7	116.4	118.4	121.0	122.1	122.2	123.5	124.4	113.2	114.2	120.5	123.4	117.8
75	126.1	128.1	128.7	129.0	130.1	130.7	131.2	132.0	131.3	131.3	132.6	133.6	127.6	129.9	131.5	132.5	130.5
76	133.7	134.5	136.3	137.1	138.0	138.9	139.0	139.3	139.6	140.1	140.3	140.5	134.9	138.0	139.3	140.3	138.1
77	140.0	140.3	142.1	144.4	144.8	146.1	147.1	148.0	148.6	149.7	150.6	151.8	140.8	145.1	147.9	150.7	146.1
78	152.0	152.5	153.5	151.1	152.7	153.0	153.0	152.1	152.7	152.7	152.3	152.5	152.6	152.2	152.6	152.5	152.5
79	153.0	152.8	152.1	148.2	143.8	141.4	140.3	142.2	144.4	146.6	149.2	150.4	152.7	144.5	142.3	148.8	147.1
80	151.4	151.8	152.1	151.9	152.7	152.9	153.9	153.6	151.6	149.1	146.3	143.4	151.8	152.5	153.0	146.3	151.0
81	140.7	142.9	141.7	140.2	139.2	138.7	138.8	138.4	137.3	135.7	134.9	135.2	141.7	139.4	138.2	135.2	138.6
82																	
CHANGE*																	
67	0.2	-0.8	-0.5	0.7	-0.5	-0.3	0.3	1.3	0.3	0.9	1.4	0.9	-0.6	-0.3	0.9	2.7	2.2
68	0.2	0.6	0.4	0.2	1.2	0.4	-0.1	0.6	0.0	0.3	1.1	0.2	1.8	1.6	0.9	1.3	6.3
69	0.6	0.6	0.5	-0.2	-0.3	0.8	0.5	0.4	0.0	0.2	-1.0	-0.2	1.8	0.5	1.3	-0.4	4.5
70	-1.9	-0.3	0.0	-0.2	-0.3	-0.2	0.3	-0.1	-0.6	-2.0	-0.6	2.3	-2.5	-0.6	-0.2	-2.1	-3.0
71	0.8	-0.1	0.0	0.5	0.6	0.5	0.2	-0.8	1.3	0.5	0.4	0.9	2.1	1.0	0.5	1.6	1.7
72	2.0	0.6	1.0	1.0	0.3	0.5	0.5	1.2	0.9	1.3	0.8	1.1	3.6	2.3	2.0	3.2	9.2
73	0.4	1.2	0.5	0.0	0.9	0.2	0.4	0.0	0.5	0.2	0.2	-0.2	2.4	1.4	1.0	0.6	8.4
74	-1.1	-0.2	0.3	-0.1	1.1	0.5	-0.1	-0.1	0.1	-1.7	-3.6	-8.5	-1.2	0.9	0.6	-5.5	-0.4
75	-3.4	-2.2	-0.9	0.8	1.0	2.4	1.7	2.2	0.9	0.1	1.1	0.7	-9.1	0.9	5.5	2.4	-8.9
76	1.4	1.6	0.5	0.2	0.9	0.5	0.4	0.6	-0.5	0.0	1.0	0.8	3.4	1.8	1.2	0.8	10.8

Table 4A

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967		1982				1983					1984				
		PRO- TION	AVG.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	
METAL MINING	10	-.51															
IRON ORE	101,6	-.24	51.9	28.7	36.1	46.4	51.4	38.9	39.9	52.2	54.3	57.9	62.8	64.8	55.4		
NONFERROUS ORES	102-5,8,9	-.27	110.0	96.7	102.5	97.6	106.6	98.9	101.3	99.4	105.8	100.4	114.4	102.8	104.4	102.9	
COPPER ORE	102	-.14	130.4	113.7	122.5	112.4	124.7	111.6	115.9	113.4	125.6	122.3	142.8	116.4	120.3		
LEAD AND ZINC ORES	103	-.03	81.7	86.9	84.4	83.5	86.6	76.7	68.2	68.8	70.2	59.1	72.9	81.1	73.9		
ANTHRACITE	11	-.03	46.5	36.1	30.6	37.0	37.0	36.4	35.2	35.0	31.6	37.9	41.4	37.6	37.8	39.4	
BITUMINOUS COAL	12	-.66	146.7	138.4	131.3	136.1	163.2	145.6	135.8	132.0	123.0	123.5	147.3	153.1	134.0	138.5	
OIL AND GAS EXTRACTION	13	4.40															
CRUDE OIL & NATURAL GAS	131	3.61	96.7	95.9	96.2	95.4	97.5	94.8	95.8	96.4	95.1	94.3	94.4	93.7	94.5	94.0	
CRUDE OIL, TOTAL		2.94	95.1	93.9	94.6	95.1	96.5	94.4	95.3	96.0	95.3	95.9	95.7	94.3	94.8	94.0	
ALASKA, CALIF. CRUDE		-.31	263.6	259.4	257.1	262.8	268.3	261.2	266.9	271.3	266.9	276.7	269.2	258.6	264.0	261.7	
TEXAS CRUDE		1.07	82.2	80.5	82.3	81.4	82.5	80.9	81.5	80.9	82.0	80.3	80.8	80.4	79.8	79.0	
LA. AND OTHER CRUDE		1.57	71.0	70.9	71.3	71.8	72.5	71.0	71.2	72.2	70.9	71.3	71.9	71.8	72.0	71.6	
NATURAL GAS		-.67	104.1	104.2	103.5	96.8	101.7	96.5	98.2	97.9	94.1	87.4	89.1	91.0			
NATURAL GAS LIQUIDS	132	-.30	107.5														
LP PROPANE		-.04	98.0														
LP MATERIALS		-.26	109.1														
OIL AND GAS DRILLING	138	-.50	392.4	294.2	303.8	328.2	325.5	279.8	258.8	242.1	251.5	252.0	259.8	269.5	277.9	291.6	
FOODS	20	8.75															
MEAT PRODUCTS	201	1.17					120.4	116.0	119.8	122.0	128.0	128.3	124.5	124.4	123.5	127.0	
BEEF		-.40					111.0	107.6	108.9	109.1	117.4	117.1	110.2	118.0	121.7	119.4	
PORK		-.55					113.7	106.5	112.3	117.0	125.0	129.2	128.8	122.6	120.9	127.9	
MISC. MEATS		-.22					154.1	154.7	157.7	157.5	154.4	146.2	139.2	140.0	132.8	138.3	
DAIRY PRODUCTS	202	1.14					142.3	142.0	142.3	140.1	141.0	140.9	141.9	142.4	145.2	146.8	
BUTTER	2021	-.04					112.7	109.6	109.0	108.6	99.7	102.9	106.3	100.4	108.2	108.2	
CHEESE	2022	-.07					345.2	340.9	344.8	326.5	322.6	328.5	334.8	336.7	367.7	381.7	
CONCENTRATED MILK	2023	-.12					72.3	71.5	70.3	64.1	63.7	61.1	63.0	67.3	70.1	75.9	
FROZEN DESSERTS	2024	-.13					153.9	153.8	154.7	149.9	161.7	158.3	159.7	158.6	160.6	159.3	
CANNED AND FROZEN FOODS	203	1.18	176.9	180.1	178.9	181.7	185.1	184.9	174.7	175.6	181.3	188.2	184.2	181.6	177.9	184.3	
GRAIN MILL PRODUCTS	204	-.95	160.2	158.8	158.1	164.2	165.8	166.7	166.6	171.5	174.1	175.3	174.6	182.9	172.7		
FLOUR & CORN MILL	2041,6	-.28	115.8	118.8	114.4	114.5	127.3	120.9	124.0	121.5	128.1	125.7	129.0	126.8	129.3	124.2	
BAKERY PRODUCTS	205	1.15	123.7	123.2	125.3	124.1	127.0	122.6	125.5	126.1	127.2	128.0	132.8	132.5	137.1	135.1	
SUGAR	206	-.21															
CONFECTIONERY	207	-.41	97.4	105.6	102.9	99.4											
BEVERAGES	208	1.58	193.2	196.4	196.0	190.5	195.7	201.7	193.6	199.8	197.3	198.2	205.7	205.9	202.1	208.6	
BEER AND ALE	2082,3	-.52	167.4	172.8	169.4	158.4	175.5	176.1	168.9	167.6	156.9	162.4	168.8	162.9	164.8		
WINES AND BRANDY	2084	-.07	283.5	355.4	305.3	265.9	253.3	278.3									
LIQUORS	2085	-.24	124.3	139.8	127.9	115.6	121.6	122.6	112.1	121.2	131.7	126.2	130.1	124.4	134.0		
SOFT DRINKS	2086,7	-.74	225.8	217.5	227.3	230.8	229.1	238.8	231.8	234.8	237.7	241.6	250.0	239.9	244.5		
MISC. FOOD PREPARATIONS	209	-.97	161.7	167.8	168.2	166.5	163.2	159.1	159.9	157.0	163.1	165.9	167.9	169.6	174.2	171.0	
FATS AND OILS	2091-4,6	-.30	150.1	156.4	163.2	158.7	151.7	152.1	144.1	139.4	145.7	151.2	149.1	153.8	163.6	151.3	
COFFEE, MISC. FOOD	2095,7-9	-.67	167.1	173.0	170.5	170.1	168.4	162.3	167.0	164.9	171.0	172.6	176.4	176.8	179.1		
TOBACCO PRODUCTS	21	-.67															
CIGARETTES	211	-.54	121.4	112.2	120.0	109.9	109.3	111.4	123.8	116.2	111.2	118.8	115.1	120.5	117.5		
CIGARS	212	-.07	53.9	46.4	47.3	51.4	56.0	47.2	52.5	50.3	48.3	52.1	57.2	49.0	54.2		
TEXTILE MILL PRODUCTS	22	2.69															
FABRICS	221-4	1.05	90.9	96.8	90.3	91.3	84.1	89.2	91.3	95.0	99.9	108.0	116.2	112.9	116.6	112.7	
COTTON FABRICS	221,4	-.60	60.2	63.5	60.4	57.9	62.5	65.0	66.0	66.7	67.7	67.4	70.5	71.4	72.3	69.5	
MAN-MADE FABRICS	222	-.30															
WOOL FABRICS	223	-.14															
KNIT GOODS	225	-.63	172.3	181.0	170.4	170.3	180.4	178.4	177.1	181.3	187.9	180.8	200.7	182.1	192.9	192.5	
HOSIERY	2251,2	-.21	212.5	236.9	208.8	206.8	248.3	228.0	213.5	235.0	253.0	218.5	262.5	216.4	228.7	240.7	
KNIT GARMENTS	2253-9	-.42	151.9	152.7	151.0	151.7	146.0	153.3	158.6	154.1	154.9	161.6	169.3	164.7	174.7	168.0	
FABRIC FINISHING	226	-.23	117.7	114.5	116.5	105.5	109.1	121.0	118.4	119.6	115.3	117.1	126.4	127.4	122.8	133.2	
CARPETING	227	-.20	182.0	183.8	183.9	167.0	179.4	194.3	216.0	218.0	223.4	235.9	258.1	245.2	235.0	229.4	
YARN & MISC. TEXTILES	228,9	-.57	116.6	125.4	116.9	115.2	121.2	125.4	131.9	131.1	137.1	139.9	140.6	144.9	150.7	155.0	
APPAREL PRODUCTS	23	3.33															
MEN'S OUTERWEAR	231,2	1.06															
MEN'S SUITS AND COATS	231	-.34															
MEN'S FURNISHINGS	232	-.69															
WOMEN'S OUTERWEAR	233	1.05															
MISC. APP. & ALLIED GDS	234-9	1.20															
LUMBER AND PRODUCTS	24	1.64															
LOGGING AND LUMBER	241,2	-.82	86.3	88.2	91.1	85.6	105.9	98.9	96.9	97.2	100.7	102.3	106.0	102.8	104.1	99.9	
LUMBER	242	-.59	78.4	79.9	82.4	77.1	96.9	92.1	88.5	88.8	91.2	92.9	97.1	89.6	90.6		
LUMBER PRODUCTS	243,4,9	-.82	138.8	146.0	150.1	153.1	157.9	158.4	160.9	165.1	167.5	173.0	176.3	177.8	183.4	178.9	
MILLWORK AND PLYWOOD	243	-.50	153.8	164.8	170.5	174.4	181.2	181.8	183.2	189.2	195.2	202.1	206.8	207.8	212.3		
PLYWOOD, PREFAB PROD	2432,3	-.29	186.0	202.0	208.5	214.5	219.9	218.8	218.0	223.3	232.5	241.2	247.5	242.2	246.7		
FURNITURE AND FIXTURES	25	1.37															
HOUSEHOLD FURNITURE	251	-.87	142.8	144.8	145.9	146.8	142.4	151.5	162.1	170.1	171.4	175.2	175.2	173.8	175.4	176.0	
FIXTURES, OFF. FURN.	252,4,9	-.42	178.8	175.3	171.5	177.5	172.4	173.8	178.6	170.9	172.0	176.1	199.2	203.0	204.0	201.2	

Table 4B

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967			1982			1983										
		PRO- POR- TION	1982 AVG.	1982	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	
METAL MINING	101	-51																
IRON ORE	101,6	-24	51.9	24.9	29.8	39.4	41.8	36.7	38.7	54.8	68.0	73.9	68.2	67.7	55.5			
NONFERROUS ORES	102-5,8,9	-27	110.0	100.0	103.1	95.2	106.9	101.9	105.9	105.2	110.3	101.5	95.6	98.6	102.9	106.3		
COPPER ORE	1021	-14	130.4	119.5	123.5	107.7	125.2	117.0	122.3	122.9	133.5	124.1	111.4	110.6	117.5			
LEAD AND ZINC ORES	103	-03	81.7	87.7	83.3	81.2	83.8	82.0	73.8	72.5	69.4	59.9	65.8	78.4	72.8			
ANTHRACITE	111	-03	46.5	39.1	33.5	32.6	32.6	32.1	36.9	33.5	32.9	39.5	36.2	41.4	41.7	42.7		
BITUMINOUS COAL	121	-66	146.7	154.7	135.9	123.4	136.1	139.2	137.2	134.8	134.0	134.2	126.1	148.8	150.0	154.8		
OIL AND GAS EXTRACTION	131	4.40																
CRUDE OIL & NATURAL GAS	1311	3.61	96.7	95.8	96.7	95.8	97.1	96.0	96.2	95.7	94.8	94.0	94.1	93.5	93.9	94.0		
CRUDE OIL, TOTAL		2.94	95.1	94.6	95.3	95.1	95.7	94.7	95.4	95.2	95.2	95.6	95.4	94.5	94.8	94.7		
ALASKA, CALIF. CRUDE		-31	263.6	265.4	263.5	263.9	268.6	260.7	265.6	263.7	261.0	269.2	268.1	264.3	268.0	267.7		
TEXAS CRUDE		1.07	82.2	80.8	82.5	81.6	81.6	81.0	82.0	81.1	82.1	80.2	80.6	80.1	79.6	79.3		
LA. AND OTHER CRUDE		1.57	71.0	70.8	71.2	71.4	71.6	71.6	71.3	72.0	71.9	72.2	71.3	71.3	71.4	71.5		
NATURAL GAS		-67	104.1	101.0	102.9	99.0	103.5	102.0	100.0	98.0	93.0	87.0	88.4	88.7				
NATURAL GAS LIQUIDS	132	-30																
LP PROPANE		-04																
LP MATERIALS		-26																
OIL AND GAS DRILLING	138	-50	392.4	302.4	314.7	339.4	330.1	275.9	252.1	232.4	242.4	248.0	256.7	271.4	283.5	299.8		
FOODS	201	8.75																
MEAT PRODUCTS	2011	1.17					118.9	113.9	120.8	121.1	121.2	126.1	113.0	125.1	128.1	136.6		
BEEF		-40					114.0	110.9	108.2	105.0	110.7	117.1	105.5	121.1	124.6	125.7		
PORK		-55					113.9	107.2	120.3	122.8	118.0	120.2	106.8	115.5	122.6	136.5		
MISC. MEATS		-22					139.9	136.0	144.8	145.5	148.1	157.0	141.8	155.7	148.1	156.3		
DAIRY PRODUCTS	2021	1.14					135.9	139.6	143.7	144.6	147.9	152.5	147.8	144.8	142.4	139.9		
BUTTER	20211	-04					132.9	128.0	117.6	125.5	117.6	106.5	94.0	78.3	81.8	97.5		
CHEESE	20221	-07					319.7	333.4	356.5	361.2	368.1	387.0	344.6	327.9	334.3	338.7		
CONCENTRATED MILK	20231	-12					64.1	68.9	71.5	75.2	80.1	82.9	73.0	65.8	59.1	58.0		
FROZEN DESSERTS	20241	-13					114.8	134.3	156.1	154.4	175.9	203.4	198.7	191.8	171.8	143.4		
CANNED AND FROZEN FOODS	2031	1.18	176.9	209.5	184.4	167.9	166.4	171.6	161.8	162.1	171.7	185.0	182.9	194.3	215.4	214.3		
GRAIN MILL PRODUCTS	2041	-95	160.2	168.0	162.1	165.9	163.9	165.3	162.6	161.7	163.8	170.5	173.3	181.5	188.3	182.6		
FLOUR & CORN MILL	2041,6	-28	115.8	125.9	114.9	112.7	123.2	123.9	123.4	121.6	124.0	120.8	124.6	132.3	132.0	131.6		
BAKERY PRODUCTS	2051	1.15	123.7	128.3	123.8	119.5	119.0	113.6	116.9	118.9	122.1	131.9	144.1	144.8	150.9	140.7		
SUGAR	2061	-21																
CONFECTIONERY	2071	-41	97.4	123.5	108.7	87.1												
BEVERAGES	2081	1.58	193.2	203.1	186.8	173.7	178.7	179.1	184.2	196.8	200.5	216.3	221.6	225.7	216.5	215.6		
BEER AND ALE	2082,3	-52	167.4	158.5	140.6	131.6	155.3	163.6	165.9	184.5	173.5	190.2	194.6	180.7	161.8			
WINES AND BRANDY	2084	-07	283.5	427.9	370.0	306.6	241.9	248.0										
LIQUORS	2085	-24	124.3	169.2	144.0	114.0	113.0	110.7	116.4	118.2	127.2	134.0	104.7	118.6	140.8			
SOFT DRINKS	2086,7	-74	125.8	225.8	217.3	211.2	211.0	206.3	211.4	223.5	232.7	254.3	272.5	284.5	270.4	253.8		
MISC. FOOD PREPARATIONS	2091	-97	161.7	167.8	173.8	174.4	170.2	169.8	161.9	159.2	159.7	159.0	155.9	162.6	166.5	170.9		
FATS AND OILS	2091-4,6	-30	150.1	161.1	174.7	173.4	163.9	166.9	154.0	139.3	139.5	142.3	128.2	138.4	148.3	155.8		
COFFEE, MISC. FOOD	2095,7-9	-67	167.1	170.9	173.4	174.9	173.1	171.1	165.5	168.7	169.3	166.6	168.5	173.6	174.8			
TOBACCO PRODUCTS	211	-67																
CIGARETTES	2111	-54	121.4	122.0	124.0	88.0	111.0	120.0	121.4	112.6	109.2	132.3	98.6	127.5	120.4			
CIGARS	2121	-07	53.9	55.9	50.0	37.2	52.5	50.7	54.0	49.3	49.8	54.6	43.2	51.9	59.7			
TEXTILE MILL PRODUCTS	221	2.69																
FABRICS	221-4	1.05	90.9	99.1	91.9	86.3	87.3	93.2	95.0	96.5	104.3	110.7	94.3	113.6	114.7	115.3		
COTTON FABRICS	221,4	-60	60.2	65.8	61.8	53.8	64.0	68.1	69.5	68.1	69.8	68.8	58.4	71.6	70.9	72.4		
MAN-MADE FABRICS	2221	-30																
WOOL FABRICS	2231	-14																
KNIT GOODS	2251	-63	172.3	185.6	167.1	150.4	154.9	173.3	173.2	187.2	189.6	199.5	198.6	196.9	210.7	197.6		
HOSIERY	2251,2	-21	212.5	235.5	202.5	172.9	217.3	233.5	223.5	262.0	250.5	240.4	260.4	219.4	239.0	239.3		
KNIT GARMENTS	2253-9	-42	151.9	160.3	149.2	139.0	123.2	142.8	147.7	149.2	158.7	178.8	167.3	185.5	196.3	176.4		
FABRIC FINISHING	2261	-23	117.7	117.6	115.9	100.6	110.2	124.0	125.9	123.6	122.0	126.0	91.8	130.3	123.6	136.8		
CARPETING	2271	-20	182.0	211.6	191.3	161.7	156.1	182.7	211.8	228.7	225.4	238.6	240.3	234.5	256.3	264.5		
YARN & MISC. TEXTILES	228,9	-57	116.6	131.4	116.7	105.3	121.8	128.1	133.4	136.3	142.4	143.1	121.7	151.1	149.5	162.4		
APPAREL PRODUCTS	231	3.33																
MEN'S OUTERWEAR	231,2	1.06																
MEN'S SUITS AND COATS	2311	-34																
MEN'S FURNISHINGS	2321	-69																
WOMEN'S OUTERWEAR	2331	1.05																
MISC. APP. & ALLIED GDS	234-9	1.20																
LUMBER AND PRODUCTS	241	1.64																
LOGGING AND LUMBER	241,2	-82	86.3	94.8	88.1	77.2	96.8	98.5	93.8	99.5	99.9	106.7	107.7	107.4	111.1	107.5		
LUMBER	2421	-59	78.4	85.1	78.3	66.8	90.7	95.1	89.4	95.7	92.0	94.7	94.3	90.4	95.7			
LUMBER PRODUCTS	243,4,9	-82	138.8	148.5	149.4	146.0	152.5	160.3	165.7	167.1	171.4	176.2	166.3	181.5	184.7	181.9		
MILLWORK AND PLYWOOD	2431	-50	153.8	168.9	168.1	163.1	174.6	183.2	189.6	191.0	200.6	206.9	192.6	215.7	215.7			
PLYWD, PREFAB PROD	2432,3	-29	186.0	207.8	204.3	195.1	213.2	225.5	232.0	228.4	242.0	245.2	220.0	251.2	249.3			
FURNITURE AND FIXTURES	251	1.37																
HOUSEHOLD FURNITURE	2511	-87	142.8	147.7	147.5	146.4	140.1	160.0	164.0	171.0	167.1	175.5	153.8	178.0	181.6	179.5		
FIXTURES, OFF. FURN.	252,4,9	-42	178.8	179.7	174.9	176.1	171.4	181.8	182.3	170.0	168.							

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1982		1983												
		PRO- POR- TIO	AVG.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	
PAPER AND PRODUCTS	26	3.21															
PULP AND PAPER	261-3	1.38	142.3	142.9	146.9	138.6	149.3	147.3	147.7	144.1	151.2	148.6	155.4	154.3	164.6	158.5	
WOOD PULP	261	.50	134.4	133.0	138.3	129.4	136.7	140.3	140.9	135.4	140.4	138.9	140.6	141.9	154.8		
PAPER	262	.54	149.6	154.5	154.2	149.2	158.0	154.3	153.3	150.5	158.0	157.7	165.3	166.9	171.9	170.8	
PAPERBOARD	263	.34	142.4	139.6	148.4	135.4	154.3	146.8	148.9	146.9	156.4	148.8	161.6	152.6	167.9	163.5	
CONVERTED PAPER PROD.	264	.93	175.4	182.6	181.0	176.5	186.3	181.4	187.7	186.1	188.1	191.4	194.8	201.2	202.1	204.8	
SANITARY PAPER PROD.	2647	.18															
PAPERBOARD CONTAINERS	265	.84	143.9	147.5	141.3	138.6	164.1	144.3	150.5	148.6	148.3	156.9	156.2	157.3	159.5	164.4	
BUILDING PAPER AND BOARD	266	.06															
PRINTING AND PUBLISHING	27	4.72															
NEWSPAPERS	271	1.38	105.7	105.4	105.1	109.9	108.4	103.2	109.0	105.7	107.9	109.1	109.8	111.7	112.8	110.7	
PERIOD., BOOKS, CARDS	272,3,7	1.38	132.7	128.5	128.9	135.9	132.5	134.3	132.8	133.1	132.8	134.0	139.2	145.0	146.1	144.7	
JOB PRINTING	274-6,8,9	1.96	178.9	175.0	174.3	175.7	173.2	182.7	183.0	183.5	180.3	181.8	189.9	199.5	206.4	206.6	
CHEMICALS AND PRODUCTS	28	7.74															
CHEMICALS & SYN. MAT.	281,2	3.79	196.7	192.7	194.9	197.6	203.0	217.4	218.2	217.5	221.3	226.9	229.6	226.8	237.5	238.2	
BASIC CHEMICALS	281	2.54	157.1	148.6	152.8	152.8	159.6	170.1	172.1	170.8	172.1	173.9	175.8	173.1	180.2	181.4	
ALKALIES & CHLORINE	2812	.19	99.2	95.7	95.9	92.3	107.8	105.3	104.7	100.9	108.8	106.0	113.8	114.3	115.2	109.4	
GASES, ETC.	2813,5,6	.48	160.0	152.7	154.0	146.9	170.6	166.3	173.6	162.5	171.0	168.9	181.5	163.3	191.9		
BASIC ORG. CHEM.	2818	1.18	192.9	178.3	186.4	193.6	191.0	212.3	215.4	221.0	221.7	227.8	222.9	223.4	224.0	227.9	
INORG. CHEM. NEC	2819	.75	109.9	109.5	109.9	103.8	113.2	118.5	116.1	110.4	107.1	105.2	110.1	111.5	116.5	119.6	
ACIDS & FERTILIZER MAT.		.55	116.0	117.5	117.5	109.7	120.0	125.5	124.1	117.4	113.0	108.5	114.4	116.6	124.9	127.3	
SULFURIC ACID, ETC.		.41	108.2	111.1	110.0	102.9	111.8	117.0	118.0	110.0	107.6	103.6	110.7	112.1	117.7	118.8	
FERTILIZER MATERIALS		.14	138.6	136.1	139.1	129.1	143.8	149.9	142.0	138.8	128.9	122.6	125.1	129.4	185.9	151.9	
ERDA NUCLEAR MATLS		.15	83.3	74.4	76.4	74.7	83.7	90.2	82.1	79.6	78.8	86.2	88.7	87.7	83.0	90.0	
SYNTHETIC MATERIALS	282	1.25	277.4	282.5	280.8	289.0	291.3	313.7	312.0	312.6	321.6	334.9	339.4	336.1	354.1	354.0	
PLASTICS MATERIALS	2821	.54	403.6	403.5	418.5	435.0	448.8	469.5	467.6	452.7	461.1	487.6	494.8	486.1	522.6		
SYNTHETIC RUBBER	2822	.13	84.9	81.4	76.3	69.1	83.4	94.1	103.2	95.2	115.5	120.0	114.2	106.2			
MAN-MADE FIBERS	2823,4	.58	204.2	216.2	199.8	203.6	192.5	219.3	215.1	232.2	239.1	242.1	246.5	249.5	251.7	255.2	
CHEMICAL PRODUCTS	283-7,9	3.95	195.8	193.7	189.7	195.0	197.6	194.8	199.5	197.6	203.3	202.6	206.5	212.3	213.4	212.2	
DRUGS AND MEDICINES	283	1.34	266.8	264.6	259.6	279.2	275.0	267.7	279.3	274.7	278.1	275.8	286.3	293.3	294.7	289.5	
SOAP AND TOILETRIES	284	1.29	171.5	171.3	169.9	167.9	172.7	173.6	174.3	170.2	180.5	178.5	179.7	188.8	188.1	186.5	
PAINTS	285	.43	115.3	115.7	105.7	102.8	113.5	106.2	107.9	112.1	115.9	125.7	123.1	129.0	127.3	130.6	
AGRICULTURAL CHEMICALS	287	.33	208.7	187.4	190.9	182.0	193.3	188.7	183.3	189.1	202.1	196.2	194.7	189.0	195.1	201.1	
PETROLEUM PRODUCTS	29	1.79															
PETROLEUM REFINING	291,9	1.64	122.5	123.8	121.1	119.7	114.2	112.2	114.1	119.6	122.6	121.2	122.8	119.5	125.1	124.4	
AUTOMOTIVE GASOLINE		.84	128.6	130.1	126.3	128.9	123.6	122.9	124.0	130.0	130.4	130.4	130.7	127.5	131.7	133.7	
DISTILLATE FUEL OIL		.29	118.5	126.7	125.6	116.0	100.2	93.4	92.8	105.7	117.1	117.4	119.6	117.8	124.5	119.1	
RESIDUAL FUEL OIL		.05	141.8	136.4	131.5	119.9	108.8	102.3	106.9	128.5	128.7	117.0	108.3	98.7	112.6	101.9	
AVIATION FUEL & KERCS.		.17	95.4	96.8	101.1	93.1	100.8	96.2	100.8	95.2	99.2	87.6	98.7	95.0	101.9	99.9	
MISC. PETROLEUM PROD.		.28															
REFINERY FUEL NEC		.06															
REFINERY NONFUEL MAT.		.14															
REFINERY PRODUCTS NEC		.08															
RUBBER & PLASTICS PROD.	30	2.24															
TUBES	301	.60	137.9	136.2	127.6	128.6	138.4	133.9	142.8	147.9	159.6	156.5	186.4	175.3	164.3	150.3	
RUB. PROD. EX. TUBES	302,3,6	.66	127.4	124.8	123.3	122.1	123.8	126.1	129.1	129.6	130.6	134.5	137.5	138.0	141.1	140.8	
PLASTICS PRODUCTS	307	.98	412.7	421.0	407.3	409.5	426.4	437.4	455.4	461.5	471.9	481.0	492.5	500.8	534.8	532.0	
LEATHER AND PRODUCTS	31	.86															
PERS. LEATHER GDS.	313,5-7,9	.22	78.9	74.4	73.8	73.3	77.7	71.4	73.8	77.6	75.7	77.0	83.0	83.5	87.0	85.8	
SHOES	314	.53	54.6	55.4	53.3	49.0	56.6	59.1	52.9	50.5	56.2	51.7	54.3	56.3	55.2	55.7	
CLAY, GLASS, & ST. PROD.	32	2.74															
PRESSED AND BLOWN GLASS	322	.49	151.2	146.4	149.2	137.0	141.2	151.9	150.0	150.2	144.9	148.3	151.3	154.8	157.0	150.7	
GLASS CONTAINERS	3221	.28	139.0	135.4	132.5	118.2	128.5	136.4	138.1	137.3	128.0	126.5	126.3	132.4	132.9	128.0	
CEMENT	324	.27	91.8	91.7	91.2	101.9	117.2	90.8	92.0	90.0	94.6	99.5	102.6	101.3	106.6		
STRUCTURAL CLAY PRODUCTS	325	.20	75.7	76.8	77.0	80.8	80.1	82.9	87.6	90.5	90.9	97.3	97.5	95.6	105.1	105.3	
BRICK	3251	.08	59.2	61.7	66.8	68.4	70.8	69.3	75.3	76.9	74.1	84.5	82.8	75.6	93.7	90.4	
CONCRETE, MISC. CLAY & P.	326-9	1.51	128.3	124.1	127.4	123.8	131.4	135.4	141.1	145.1	145.1	147.8	153.4	154.6	157.6	157.7	
PRIMARY METALS	33	6.57															
IRON AND STEEL	331,2	4.21															
BASIC STEEL & MILL PRD	331	3.34	62.3	53.9	47.7	49.2	62.5	65.1	71.2	68.5	70.1	69.2	71.9	75.9	79.5	88.1	
BASIC IRON AND STEEL		1.34	55.8	47.2	44.2	43.2	51.5	54.4	58.8	60.0	60.1	59.2	61.1	63.0	65.0	68.2	
PIG IRON		.46	49.3	42.8	39.6	39.9	46.2	48.4	55.0	54.3	52.4	55.3	57.5	59.2	60.1		
RAW STEEL		.72	62.1	52.1	49.5	48.1	57.2	62.2	66.4	67.8	69.1	69.2	70.6	72.5	75.1	80.1	
COKE AND PRODUCTS		.16	46.2	37.5	33.4	30.2	40.9	36.2	35.4	36.1	33.5	34.3	35.7	35.9	37.3		
STEEL MILL PRODUCTS		2.01	66.6	58.4	50.0	53.2	69.8	72.2	79.4	74.2	76.7	75.9	79.2	84.5	89.2	101.3	
CONSUMER DUR. STEEL		.31	52.4	43.3	35.6	36.6	50.5	57.9	67.4	68.1	66.9	69.1	71.1	78.9	82.1	90.4	
EQUIPMENT STEEL		.51	60.7	43.3	36.0	37.6	52.2	50.2	51.9	50.2	52.3	53.3	55.6	56.3	59.8	67.7	
CONSTRUCTION STEEL		.41	45.0	43.6	38.4	35.4	53.8	46.5	52.1	46.1	47.9	49.1	49.9	50.7	53.4	61.3	
CAN & CLOSURE STEEL		.13	54.9	40.2	39.6	41.7	51.2	54.7	61.0	67.0	63.6	55.5	56.6	61.6	65.5	67.7	
MISC. STEEL		.65	94.0	90.8	77.5	77.3	106.7	116.3	127.7	115.1	121.5	118.0	124.7	135.3	143.2	165.1	
IRON & STEEL FOUNDRIES	332	.87	59.6	52.1	50.8	40.5	56.8	57.7	61.6	62.9	64.1	61.9	68.8	73.3	67.9	73.0	

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967			1982					1983							
		PRO- POR- TION	1982 AVG.	1982 OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	
PAPER AND PRODUCTS	26	3.21															
PULP AND PAPER	261-3	1.38	142.3	146.0	146.9	122.8	148.2	152.9	154.1	151.1	156.6	154.9	143.6	156.1	157.0	161.9	
WOOD PULP	2611	.50	134.4	135.6	138.9	113.9	136.3	143.7	146.5	141.9	145.1	146.2	131.9	143.9	146.5		
PAPER	262	.54	149.6	157.4	153.3	135.3	158.4	162.4	159.5	157.8	163.9	161.6	151.2	167.3	163.8	174.0	
PAPERBOARD	263	.34	142.4	143.3	148.8	116.2	149.7	151.7	156.7	154.3	161.9	157.2	148.9	156.6	161.7	167.8	
CONVERTED PAPER PROD.	264	.93	175.4	185.0	180.7	163.1	187.1	189.3	195.0	193.0	194.8	197.0	178.2	199.6	195.2	207.3	
SANITARY PAPER PRD.	2647	.18															
PAPERBOARD CONTAINERS	265	.84	143.9	157.9	139.8	123.6	149.7	148.9	154.3	153.5	152.5	161.9	146.8	159.6	163.9	176.0	
BUILDING PAPER AND BOARD	266	.06															
PRINTING AND PUBLISHING	27	4.72															
NEWSPAPERS	271	1.38	105.7	112.1	115.0	112.5	99.4	105.8	109.3	110.2	112.5	109.9	99.3	104.6	112.5	117.8	
PERIOD., BOOKS, CARDS	272, 3, 7	1.38	132.7	132.4	126.2	127.6	121.0	126.4	125.9	127.0	127.6	138.2	149.4	162.3	162.2	149.0	
JOB PRINTING	274-6, 8, 9	1.96	178.9	183.6	170.1	162.0	154.0	165.9	166.5	169.0	173.8	192.0	211.6	229.0	235.5	216.7	
CHEMICALS AND PRODUCTS	28	7.74															
CHEMICALS & SYN. MAT.	281, 2	3.79	196.7	192.9	195.2	192.8	192.8	215.7	223.4	224.5	224.9	233.0	223.1	224.5	240.0	238.6	
BASIC CHEMICALS	2811	2.54	157.1	150.4	154.0	153.3	155.5	165.3	173.0	174.6	172.9	175.2	173.3	173.2	182.2	183.6	
ALKALIES & CHLORINE	2812	.14	99.2	97.0	96.6	91.0	100.0	107.2	105.2	104.9	110.3	107.6	112.4	112.4	115.1	110.8	
GASES, ETC.	2813, 5, 6	.48	160.0	148.5	151.3	146.4	158.5	163.3	179.0	173.7	176.8	176.5	179.5	159.8	190.0		
BASIC ORG. CHEM.	2818	1.18	192.9	182.0	189.0	193.2	187.2	204.0	213.0	220.6	219.9	228.3	223.1	226.8	229.6	232.7	
INORG. CHEM. NEC	2819	.75	109.9	112.0	111.6	107.0	107.6	116.7	119.3	116.1	108.6	103.8	103.0	109.2	115.7	122.5	
ACIDS & FERTILIZER MAT.	282	.55	116.0	118.2	118.6	111.5	112.3	127.0	128.3	125.0	114.2	108.2	106.3	114.8	124.2	128.0	
SULFURIC ACID, ETC.	2821	.41	108.2	111.9	111.0	104.9	105.4	119.7	120.9	115.5	106.7	103.7	102.7	111.1	118.4	119.6	
FERTILIZER MATERIALS	2822	.14	138.6	136.6	140.5	130.5	132.3	148.0	149.7	152.5	136.1	121.1	116.8	125.4	141.1	152.5	
ERDA NUCLEAR MATLS	2823	.15	83.3	83.6	80.8	83.4	83.4	75.4	83.6	80.2	82.4	80.4	83.4	83.2	81.3	101.1	
SYNTHETIC MATERIALS	282	1.25	277.4	279.5	279.0	273.2	272.9	318.5	326.0	326.2	330.6	350.9	324.4	328.9	357.8	350.7	
PLASTIC MATERIALS	2821	.54	403.6	405.6	411.4	405.0	411.3	469.9	490.7	477.4	478.6	513.9	476.7	478.0	531.0		
SYNTHETIC RUBBER	2822	.13	84.9	81.9	77.0	69.0	82.2	99.6	106.0	102.0	116.1	115.3	104.9	102.1			
MAN-MADE FIBERS	2823, 4	.58	204.2	207.7	202.2	197.5	188.0	227.9	223.4	237.1	242.3	253.4	233.2	242.3	252.0	245.2	
CHEMICAL PRODUCTS	283-7, 9	3.95	195.8	200.3	189.2	183.5	184.2	184.9	192.8	193.6	202.1	213.3	216.3	221.6	226.2	219.5	
DRUGS AND MEDICINES	2831	1.34	266.8	277.0	259.1	258.0	250.5	247.6	260.9	264.0	272.5	297.6	310.1	313.0	321.5	303.1	
SOAP AND TOILETRIES	2832	1.29	171.5	179.2	171.3	162.0	163.9	167.9	171.2	164.6	176.3	179.9	185.3	195.0	200.0	195.1	
PAINTS	2833	.43	115.3	111.1	96.0	79.5	96.4	104.3	113.2	122.4	130.5	149.3	128.4	136.0	124.4	125.4	
AGRICULTURAL CHEMICALS	2837	.33	208.7	187.6	190.3	183.1	191.2	184.5	188.6	197.0	208.4	196.2	189.1	185.2	190.2	201.3	
PETROLEUM PRODUCTS	29	1.79															
PETROLEUM REFINING	291, 9	1.64	122.5	122.8	122.3	122.0	112.5	109.6	110.3	115.3	120.7	123.7	126.2	123.6	127.2	123.5	
AUTOMOTIVE GASOLINE	2911	.84	128.6	126.7	127.1	132.5	121.9	118.4	119.4	125.6	129.4	134.6	135.8	132.5	133.3	130.2	
DISTILLATE FUEL OIL	2912	.29	118.5	128.7	129.9	120.4	105.0	96.9	90.4	98.4	110.9	115.5	118.0	118.5	123.6	121.0	
RESIDUAL FUEL OIL	2913	.05	141.8	126.2	130.8	130.9	123.7	113.3	110.1	124.5	123.0	110.0	102.0	93.4	107.8	94.3	
AVIATION FUEL & KERCS.	2914	.17	95.4	97.0	101.2	94.0	99.2	99.0	101.4	93.4	95.1	85.9	97.4	96.2	106.1	100.1	
MISC. PETROLEUM PROD.	2915	.28															
REFINERY FUEL NEC	29151	.06															
REFINERY NONFUEL MAT.	29152	.14															
REFINERY PRODUCTS NEC	29153	.08															
RUBBER & PLASTICS PROD.	30	2.24															
TIRES	301	.60	137.9	144.8	128.1	128.5	149.8	158.3	159.1	158.0	148.5	148.9	120.9	150.9	161.3	160.2	
RUB. PROD. EX. TIRES	302, 3, 6	.66	127.4	126.8	125.5	123.4	120.4	127.9	130.1	130.3	129.3	136.4	128.8	137.3	143.6	143.0	
PLASTICS PRODUCTS NEC	307	.98	412.7	427.0	417.1	394.7	394.1	446.6	465.9	467.9	477.7	492.7	466.0	503.4	545.9	540.1	
LEATHER AND PRODUCTS	31	.86															
LEATH. LEATHER GDS.	313, 5-7, 9	.22	78.9	77.4	77.3	73.2	72.4	70.2	74.1	75.4	75.9	80.2	78.1	85.2	88.4	89.2	
SHOES	314	.53	54.6	58.5	51.3	44.3	54.4	63.0	56.4	53.0	56.8	54.2	44.5	57.5	57.0	58.8	
CLAY, GLASS, & ST. PRD.	32	2.74															
PRESSED AND BLOWN GLASS	322	.49	151.2	154.8	147.2	121.6	132.9	149.9	153.0	152.1	147.5	155.2	150.3	162.6	156.7	159.1	
GLASS CONTAINERS	3221	.28	139.0	145.6	126.9	94.3	122.8	139.8	142.5	139.4	130.0	135.4	126.6	142.6	129.3	137.6	
CEMENT	324	.27	91.8	111.5	87.8	69.8	61.9	61.7	77.9	92.8	107.4	126.2	121.8	128.8	126.5		
STRUCTURAL CLAY PRODUCTS	325	.20	75.7	78.7	79.2	79.5	74.8	77.5	84.4	90.6	92.4	102.0	97.0	99.2	107.9	107.9	
BRICK	3251	.08	59.2	64.9	68.9	62.2	55.6	58.2	72.1	78.1	78.6	94.1	85.7	85.3	100.2	95.2	
CONCRETE, MISC. CLAY MFR.	326-9	1.51	128.3	128.1	131.6	122.6	124.5	129.8	137.4	145.7	145.5	151.6	152.8	156.7	160.8	162.7	
PRIMARY METALS	33	6.57															
IRON AND STEEL	331, 2	4.21															
BASIC STEEL & MILL PRD	331	3.34	62.3	52.3	43.7	44.9	58.8	65.3	72.9	75.2	77.8	74.6	72.3	73.6	76.3	85.4	
BASIC IRON AND STEEL	3311	1.34	55.8	45.7	41.6	39.4	49.2	54.7	62.0	64.5	64.4	63.2	60.2	61.8	63.6	65.9	
PIG IRON	3312	.46	49.3	41.3	36.8	36.4	42.9	48.5	56.5	60.1	58.8	56.8	56.6	57.0	57.7	58.0	
RAW STEEL	3313	.72	62.1	50.3	46.4	43.4	55.4	63.0	71.4	73.3	74.1	73.4	68.0	70.8	73.6	77.3	
COKE AND PRODUCTS	3314	.16	46.2	37.4	33.8	30.2	39.0	35.1	35.1	37.2	36.8	35.3	34.9	34.9	35.5	37.2	
STEEL MILL PRODUCTS	3315	2.01	66.6	56.7	45.1	48.5	65.1	72.4	80.2	82.3	86.7	82.1	80.4	81.5	84.8	98.3	
CONSUMER DUR. STEEL	33151	.31	52.4	43.1	33.5	46.8	50.3	62.6	68.2	75.1	77.3	71.0	69.1	73.1	79.4	90.6	
EQUIPMENT STEEL	33152	.51	60.7	42.8	33.0	35.4	50.0	51.5	53.9	55.9	58.3	55.0	53.7	53.5	57.2	66.9	
CONSTRUCTION STEEL	33153	.41	45.0	42.5	34.1	32.4	43.3	43.7	50.2	52.2	54.0	56.5	55.5	51.2	52.0	59.8	
CAN & CLOSURE STEEL	33154	.13	54.9	36.1	31.4	38.1	61.1	58.9	61.9								

Table 4A—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967	1982		1983											
		PRO- POR- TION	1982 AVG.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.
NONFERROUS METALS	333-6,91	2.36	99.7	95.5	92.2	94.2	100.6	102.6	107.3	105.4	110.0	110.7	112.6	108.1	113.2	112.3
PRIMARY NONF. METALS	3331	-.45	100.0	89.6	90.3	88.5	91.3	94.2	96.9	96.3	98.5	101.5	102.1	106.2	109.2	110.4
COPPER	33311	-.09	98.1	78.6	87.8	86.2	88.8	101.3	108.6	106.2	103.0	111.8	104.7	96.8	104.9	102.8
ALUMINUM	33341	-.27	110.5	98.3	97.0	97.1	99.0	97.8	100.2	101.5	105.7	108.2	114.0	119.5	123.0	125.9
SECONDARY NONF. METALS	3341	-.09	127.2	123.7	120.5	122.1	125.5	121.1	116.1	119.5	125.9	115.7	131.9	123.4	134.6	
NONFERROUS PRODUCTS	335,61	1.45	102.9	102.2	98.3	102.1	111.1	112.6	119.3	115.3	121.8	122.5	121.0	115.3	121.6	119.6
NONFERROUS MILL PROD	3351	1.09	115.1	115.5	107.7	116.8	127.1	128.2	135.8	129.5	138.4	138.5	135.3	129.0	136.2	136.4
COPPER MILL PROD		-.48	84.6	88.6	62.3	93.1	98.0	111.0	108.9	99.0	107.1	116.5	87.3	84.7	107.5	102.3
ALUMINUM MILL PROD		-.61	139.0	136.6	143.3	135.3	149.9	141.7	156.9	153.5	163.0	155.7	172.9	163.6	158.7	163.2
CONSTRUCTION		-.13	153.1	153.2	164.2	170.4	167.3	158.1	168.7	166.6	167.9	171.2	186.5	183.6	178.4	181.2
NONCONSTRUCTION		-.48	135.2	132.1	137.7	125.8	145.2	137.3	153.7	149.9	161.7	151.5	169.2	158.2	153.4	158.3
NONFERROUS FOUNDRIES	3361	-.35	85.1	60.6	69.0	56.5	61.4	64.0	67.7	71.0	70.1	72.8	76.5	72.6	76.0	67.2
FABRICATED METAL PRODUCTS	341	5.93														
METAL CANS	3411	-.38	113.9	109.5	110.2	108.0	107.0	111.7	116.4	114.0	114.8	116.3	112.3	116.5	120.1	120.5
HDWE, PIPING, STRUCT. MET	342-4	2.67	123.5	113.3	114.3	114.1	115.2	116.6	119.1	119.0	118.8	122.7	127.6	130.2	130.8	127.5
HARDWARE, TOOLS, CUIV	3421	-.76	112.0	105.6	106.2	105.9	103.7	112.2	114.5	114.7	116.5	117.5	124.1	130.3	130.1	125.3
STRUCTURAL METAL PROD	3441	1.62	131.3	117.9	118.8	118.4	121.8	119.7	122.3	121.5	119.4	124.7	129.1	129.6	131.5	128.0
OTHER FAB. MET. PROD.	345-91	2.89	106.8	101.1	99.1	100.7	102.0	104.9	108.6	111.7	112.3	115.2	120.8	124.8	126.1	125.3
FASTENERS, STAMP, ETC	345-81	2.03	93.5	88.2	86.2	88.2	90.5	93.7	97.3	99.3	99.8	101.4	107.7	112.0	112.4	111.1
NONELECTRICAL MACHINERY	351	9.15														
ENGINE AND FARM EQUIP.	351,21	1.20	114.6	105.6	100.2	96.6	96.0	94.7	95.0	98.6	104.4	101.3	102.8	92.6	94.7	96.0
FARM TRACTORS		-.19	53.5	68.2	41.2	37.1	31.8	26.1	28.1	38.6	41.9	42.4	42.4	27.4	46.4	42.7
CONSTRUCTION & ALLIED EQ	3531	1.36	120.1	99.7	93.6	92.1	94.6	91.2	93.0	94.3	95.5	100.4	104.3	105.3	104.6	106.6
TRACKLAYING TRACTORS		-.16	45.4	29.2	26.0	10.7	25.3	24.7	27.9	35.2	17.3	24.0	24.9	24.2	26.4	35.0
METALWORKING MACHINERY	3541	1.67	105.9	97.1	96.5	93.3	95.7	96.5	98.9	96.8	96.9	98.9	104.2	106.7	108.7	106.4
SPRC. & GENL IND EQ	355,61	2.30	102.7	93.0	93.3	93.3	94.5	95.8	97.6	99.9	101.7	103.7	107.2	112.3	113.7	113.7
OFFICE, SERV. & MISC.	357-91	2.63	124.0	124.6	246.2	255.0	250.8	247.0	255.9	260.9	263.0	266.0	267.5	276.9	275.0	277.9
ELECTRICAL MACHINERY	361	8.05														
MAJOR ELECT. EQ. & PIS.	361,21	1.74	117.4	104.0	108.5	106.2	110.1	111.2	113.4	111.9	114.9	116.7	114.4	124.3	124.7	120.2
HOUSEHOLD APPLIANCES	3631	-.83	119.3	128.9	128.6	116.7	133.1	128.5	126.3	128.5	132.3	134.2	132.0	143.7	151.2	151.9
COOKING STOVES	36311	-.08	102.2	120.4	125.2	109.1	139.4	130.0	136.5	136.9	138.2	151.4	146.3	146.5	176.0	172.7
REFRIGERATION APPL.	36321	-.26	97.3	115.6	104.2	97.2	105.5	100.4	96.2	96.6	106.5	105.0	111.7	124.2	138.5	142.3
LAUNDRY APPLIANCES	36331	-.13	110.5	114.5	128.8	89.2	142.6	132.4	128.9	127.7	138.2	139.3	116.1	136.6	140.5	145.2
MISC. APPLIANCES	3634-6,91	-.36	142.6	146.2	147.2	143.2	148.3	147.3	145.1	150.2	147.7	149.8	149.6	160.1	158.6	156.6
TV AND RADIO SETS	3651	-.52	80.4	78.4	72.8	72.2	79.9	80.7	80.7	80.6	80.0	91.2	110.8	93.9	96.9	96.1
COMMUNICATION EQUIPMENT	3661	2.30	167.4	166.8	166.6	169.2	172.0	170.5	174.3	177.8	176.1	177.2	184.4	168.9	181.5	182.3
ELECTRONIC COMPONENTS	3671	1.43	312.2	301.3	301.9	308.3	318.8	318.6	331.5	339.2	343.2	348.1	368.4	364.6	374.0	382.7
TV TUBES	3671-31	-.31	34.4	35.4	36.9	28.5	42.0	34.9	33.1	35.5	36.6	31.5	48.5	43.1	35.7	
MISC. ELECTRICAL SUPP.	3691	-.49	172.6	171.4	166.3	163.8	168.1	165.8	176.3	183.2	188.2	188.6	190.9	186.3	197.0	207.4
STORAGE BATTERY, REPL.	36911	-.09	230.8	233.7	226.2	214.8	176.5	170.2	225.4	254.5	267.0	260.4	264.1	241.7	259.7	275.2
TRANSPORTATION EQUIPMENT	371	9.27														
MOTOR VEHICLES AND PARTS	3711	4.50														
AUTOS, TOTAL		1.90	86.6	79.5	77.7	87.9	97.1	107.3	99.9	102.7	107.4	118.3	129.8	132.0	135.0	129.6
LARGE AUTOS		1.79	54.9	47.9	50.3	51.9	59.7	63.5	62.8	67.3	70.5	76.4	87.4	88.3	85.0	77.4
SMALL AUTOS		-.11	60.6	59.9	52.7	68.0	71.2	82.7	70.9	68.5	71.5	80.7	82.6	89.8	95.7	98.3
TRUCKS AND BUSES		-.53	134.9	111.7	108.0	128.9	114.6	139.0	157.8	157.8	173.6	176.2	173.7	171.8	187.4	197.4
BUSINESS VEHICLES		-.40	87.2	70.6	70.6	85.5	69.3	80.0	92.4	98.6	105.5	108.0	107.8	107.7	112.0	
UTILITY VEHICLES		-.13	277.7	234.7	219.8	258.9	250.2	315.7	353.4	334.8	377.4	380.5	370.7	363.5	413.0	
TRUCK TRAILERS		-.09	117.0	99.2	110.7	145.0	99.8	95.2	110.5	98.0	115.7	129.2	135.8	157.9	190.8	192.2
MOTOR VEHICLE PARTS		1.98	125.0	123.5	122.8	121.8	130.6	135.1	136.9	140.0	141.7	142.9	146.2	148.3	154.7	157.1
AIRCRAFT AND PARTS	3721	3.73	98.2	97.8	97.0	97.9	96.7	96.0	96.7	97.0	95.7	94.4	95.1	95.4	96.1	97.2
SHIPS AND BOATS	3731	-.56	129.2	125.9	127.0	122.8	126.7	117.8	124.9	121.2	125.5	127.7	136.4	132.7	134.2	139.2
RAIL & MISC TRANS EQ	374,5,91	-.49	83.9	74.2	76.9	81.5	91.1	80.3	80.7	78.1	81.3	82.6	84.7	86.2	89.5	91.9
RAILROAD EQUIPMENT	3741	-.26	39.0	27.9	24.8	35.0	31.4	15.7	15.9	15.5	15.7	12.6	11.0	12.9	19.5	27.3
MOBILE HOMES	3791	-.18	110.4	104.3	114.8	116.0	139.3	134.4	132.2	127.2	135.3	140.7	138.9	142.0	143.1	
INSTRUMENTS	381	2.11														
EQUIPMENT INSTR. & PIS.	381-4	1.07	180.5	175.7	179.0	179.4	178.8	177.1	178.4	178.2	180.0	182.7	188.5	189.7	192.8	190.6
CONSUMER INSTR. PROD.	385-71	1.04	142.7	135.0	131.7	133.2	134.2	129.0	131.4	131.4	131.3	127.3	128.3	130.1	131.9	131.3
MISC. MANUFACTURES	391	1.51														
MISC. CONS. GOODS	391,3,4,61	-.86	142.5	137.1	135.9	136.1	139.5	138.8	150.2	159.1	164.8	168.7	176.1	170.6	167.2	166.9
MISC. BUS. SUPPLIES	395,91	-.65	128.4	119.9	121.3	121.6	123.4	123.2	123.0	126.6	125.2	124.8	127.6	129.3	129.1	129.1
ELECTRIC UTILITIES		3.88	190.5													
ELEC UTIL GENERATION		1.90	182.3	181.4	178.1	173.1	176.7	174.7	180.5	179.4	182.4	182.0	195.1	198.2	192.2	
FOSSIL FUEL GENERATION		1.54	164.7	163.1	159.2	153.6	157.5	153.4	160.4	157.2	159.7	160.1	176.5	183.6	175.0	
HYDRO & NUCLEAR GENERAT.		-.36	257.8	259.9	259.4	256.7	259.3	266.1	266.8	274.8	279.9	276.1	275.0	261.2	266.0	
ELEC UTIL SALES		1.98	198.4	195.2	198.1	197.6	191.7	191.1	195.7	205.4	203.1	201.7	206.5	212.3		
RESIDENTIAL KWH		-.83	214.5	211.0	215.3	212.2	203.8	202.4	208.0	224.9	222.8	216.4	221.5</			

Table 4B—continued

INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1967=100

INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES	SIC CODE	1967			1982					1983						
		PRO-1 1967	1982 AVG.	1982 OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.
NONFERROUS METALS	333-6,9	2.36	99.7	95.2	88.9	88.1	97.9	106.2	115.7	113.7	117.7	116.3	98.9	103.5	111.9	111.9
PRIMARY NONF. METALS	3331	4.5	100.0	91.3	92.4	90.4	93.6	96.3	97.8	98.8	99.7	99.6	94.7	102.1	107.1	112.3
COPPER	33311	0.9	98.1	80.4	91.3	86.9	89.1	105.8	116.9	116.7	111.4	109.9	80.4	86.9	101.8	105.2
ALUMINUM	33344	2.7	110.5	99.2	99.1	99.1	100.6	97.9	98.4	100.7	105.1	107.3	112.7	117.8	122.3	127.0
SECONDARY NONF. METALS	334	0.9	127.2	127.1	122.5	111.7	120.3	130.4	123.9	126.3	129.1	122.1	109.3	121.2	133.5	
NONFERROUS PRODUCTS	335,6	1.45	102.9	100.5	91.6	92.0	106.6	116.9	131.7	127.6	133.3	131.2	106.4	110.0	119.5	117.5
NONFERROUS MILL PROD	3351	1.09	115.1	112.5	99.2	105.3	120.7	131.7	150.5	144.6	152.7	148.6	120.9	123.5	133.6	132.8
COPPER MILL PROD		4.8	84.6	86.3	58.0	84.3	95.0	113.4	131.1	117.4	122.3	121.2	68.5	74.4	103.1	99.6
ALUMINUM MILL PROD		6.1	139.0	133.0	131.6	121.8	140.8	146.1	165.7	166.0	176.5	170.2	162.1	162.1	157.6	158.8
CONSTRUCTION		1.3	153.1	152.4	152.2	143.6	150.1	158.0	178.8	180.7	187.0	190.7	177.0	191.9	178.1	180.3
NONCONSTRUCTION		4.8	135.2	127.7	126.0	115.9	138.3	142.9	162.1	162.0	175.0	164.6	158.0	154.0	152.0	153.0
NONFERROUS FOUNDRIES	336	3.5	65.1	63.1	67.7	50.6	62.7	70.5	73.0	74.6	73.0	77.0	61.1	68.0	75.4	70.0
FABRICATED METAL PRODUCTS	34	5.93														
METAL CANNS	341	3.8	113.9	110.5	106.0	99.9	100.5	109.8	113.8	111.3	114.2	120.6	120.0	125.2	126.3	121.6
HDWE, PLUMB, STRUCT. MET	342-4	2.67	123.5	115.5	116.7	114.3	112.6	118.9	121.0	118.4	117.7	122.7	122.5	128.2	132.6	130.0
HARDWARE, TOOLS, CUTL	3421	7.6	112.0	108.9	108.2	104.0	100.7	114.1	116.5	114.9	116.1	117.7	119.9	126.4	133.2	129.2
STRUCTURAL METAL PROD	344	1.62	131.3	119.5	121.5	120.0	119.7	121.8	124.0	118.1	124.6	125.6	129.1	131.9	129.7	
OTHER FAB. MET. PROD.	345-9	2.89	106.8	102.5	100.3	99.5	97.9	106.5	110.7	112.2	112.7	117.3	116.6	122.7	127.8	127.0
FASTENERS, STAMP, ETC	345-8	2.03	93.5	89.9	87.6	87.1	86.2	95.2	99.2	100.0	100.3	103.4	103.3	109.8	114.3	113.3
NONELECTRICAL MACHINERY	35	9.15														
ENGINE AND FARM EQUIP.	351,2	1.20	114.6	107.4	99.6	97.8	96.4	97.3	97.5	98.9	102.7	102.5	96.5	88.2	97.3	97.4
FARM TRACTORS		1.9	53.5	74.3	35.4	31.5	34.2	30.1	32.0	44.2	44.4	48.3	27.7	21.8	48.3	46.5
CONSTRUCTION & ALLIED EQ	353	1.36	120.1	102.4	96.4	93.9	90.5	91.5	91.7	93.0	93.5	101.0	101.9	103.7	109.0	109.4
TRACKLAYING TRACTORS		1.6	45.4	30.2	24.3	10.0	25.0	28.0	30.0	38.0	17.9	25.9	20.9	20.3	27.2	36.1
METALWORKING MACHINERY	354	1.67	105.9	99.4	96.4	91.1	92.9	97.7	99.1	96.8	94.9	100.3	102.7	106.6	112.6	109.0
SPEC. & GENL IND EQ	355,6	2.30	102.7	94.2	94.5	91.6	91.4	96.1	97.1	99.3	101.2	106.1	105.1	112.0	118.2	115.0
OFFICE, SERV., & MISC.	357-9	2.63	248.0	250.2	245.3	240.6	233.3	239.8	243.5	253.1	257.2	276.5	285.0	291.7	292.9	286.5
ELECTRICAL MACHINERY	36	8.05														
MAJOR ELECT. EQ. & PTS.	361,2	1.74	117.4	108.2	107.1	101.9	105.4	108.5	112.2	112.2	115.0	120.4	115.9	124.8	129.0	124.9
HOUSEHOLD APPLIANCES	363	0.8	119.3	139.8	122.7	98.2	130.3	135.3	133.5	137.3	138.1	141.8	121.0	134.4	153.5	164.8
COOKING STOVES	36311	0.8	102.2	133.0	117.0	86.2	138.4	137.3	140.5	148.2	151.8	166.8	119.0	143.2	175.3	191.5
REFRIGERATION APPL.	3632	2.6	97.3	117.3	89.2	67.1	109.4	106.9	108.0	112.0	122.4	125.2	118.2	85.6	131.1	144.7
LAUNDRY APPLIANCES	3633	1.3	110.5	128.7	112.8	65.8	133.4	136.8	139.2	140.1	150.1	142.6	93.4	159.2	143.3	163.2
MISC. APPLIANCES	3634-6,9	3.6	142.6	162.0	152.4	130.8	142.6	155.2	148.4	152.3	141.9	148.0	134.0	158.8	168.7	173.8
TV AND RADIO SETS	365	5.2	80.4	90.5	77.4	62.6	74.7	79.4	79.8	77.2	83.8	90.7	86.1	100.1	110.5	110.9
COMMUNICATION EQUIPMENT	366	2.30	167.4	168.2	170.5	175.1	171.3	170.3	174.3	173.4	174.0	177.9	179.4	168.1	182.2	183.7
ELECTRONIC COMPONENTS	367	1.4	312.2	308.4	309.3	314.6	313.6	312.6	324.8	331.9	341.0	354.2	355.9	368.6	381.1	391.5
TV TUBES	3671-3	3.1	34.4	41.1	35.9	21.0	40.7	34.5	33.7	37.4	40.3	31.2	36.8	46.7	41.6	
MISC. ELECTRICAL SUPP.	369	4.9	172.6	184.4	177.9	177.5	167.5	163.3	166.0	170.5	174.5	180.2	178.2	186.8	212.8	222.7
STORAGE BATTERY, REPL.	3691	0.9	230.8	301.9	267.0	257.9	198.6	172.9	183.0	188.8	191.4	207.7	211.6	252.1	329.8	355.5
TRANSPORTATION EQUIPMENT	37	9.27														
MOTOR VEHICLES AND PARTS	371	4.50														
AUTOS, TOTAL		1.90	86.6	87.8	82.3	74.1	92.8	110.2	112.5	114.3	121.6	134.1	98.9	99.8	128.1	147.2
LARGE AUTOS		1.79	54.9	52.7	52.3	43.3	59.7	67.6	71.6	75.4	80.0	86.0	62.5	61.8	77.4	88.2
SMALL AUTOS		1.1	60.6	66.7	57.5	50.0	63.7	81.0	78.4	75.4	80.6	92.2	69.1	72.9	96.3	116.8
TRUCKS AND BUSES		5.3	134.9	123.5	105.4	105.1	113.1	152.0	175.7	166.6	178.6	195.1	135.0	150.8	191.0	219.1
BUSINESS VEHICLES		4.0	87.2	77.7	66.4	68.4	70.0	90.8	106.3	99.6	109.7	120.4	79.8	92.6	115.3	
UTILITY VEHICLES		1.3	277.7	260.5	222.0	214.9	241.9	335.3	383.4	366.9	384.9	418.5	300.3	325.0	417.5	
TRUCK TRAILERS		0.9	117.0	97.4	107.0	128.0	87.1	104.2	122.0	108.0	119.9	138.4	125.2	157.3	184.3	188.8
MOTOR VEHICLE PARTS		1.98	125.0	124.7	124.5	126.9	129.3	132.5	136.2	139.3	142.0	144.6	142.1	144.9	154.9	158.9
AIRCRAFT AND PARTS	372	3.7	98.2	97.3	98.6	100.2	97.2	96.6	97.1	96.2	95.9	94.5	93.2	92.9	95.9	96.7
SHIPS AND BOATS	373	5.6	129.2	127.2	129.0	127.3	123.2	117.3	125.2	124.4	127.7	129.8	133.8	126.2	130.9	140.5
RAIL & MISC TRANS EQ	374,5,9	4.9	83.9	79.1	73.4	69.8	73.6	76.1	82.7	86.7	87.3	93.2	78.9	93.2	95.7	98.6
RAILROAD EQUIPMENT	374	2.6	39.0	27.1	26.0	38.1	30.8	15.2	18.0	16.6	15.6	12.5	9.4	11.9	19.1	26.6
MOBILE HOMES	379	1.8	110.4	117.4	103.5	83.9	104.6	119.5	134.3	145.6	148.2	163.6	135.6	159.8	155.8	
INSTRUMENTS	38	2.11														
EQUIPMENT INSTR. & PTS.	381-4	1.07	180.5	178.9	181.5	177.6	170.5	173.4	175.4	175.1	178.7	188.0	189.3	192.4	200.3	194.0
CONSUMER INSTR. PROD.	385-7	1.04	142.7	136.7	134.3	135.2	130.9	126.9	129.4	129.0	131.0	129.3	127.4	130.8	133.8	133.0
MISC. MANUFACTURES	39	1.51														
MISC. CONS. GOODS	391,3,4,6	0.8	142.5	143.8	137.4	129.3	127.3	137.0	146.0	156.7	163.9	174.2	169.1	177.8	184.2	175.0
MISC. BUS. SUPPLIES	395,9	0.5	128.4	123.5	121.9	118.8	118.4	122.1	123.4	124.8	123.1	126.7	126.1	132.5	133.5	133.0
ELECTRIC UTILITIES		3.88	190.5													
ELEC UTIL GENERATION		1.90	182.3	168.5	169.0	173.4	190.8	182.4	171.4	166.2	170.1	186.2	214.4	215.2	190.5	
FOSSIL FUEL GENERATION		1.54	164.7	155.3	151.6	152.5	168.8	158.6	147.6	141.0	144.7	162.7	198.9	204.9	178.1	
HYDRO & NUCLEAR GENERAT.		0.36	257.8	225.3	243.8	263.1	285.1	284.7	273.5	274.3	279.1	287.4	281.0	259.4	243.9	
ELEC UTIL SALES		1.98	198.4	184.5	179.6	196.5	210.0	200.5	191.9	186.7	177.1	191.3	223.4	241.0		
RESIDENTIAL KWH		0.8	214.5	185.6	183.8	219.0	246.4	229.5	208.0	198.6	175.1	190.8	243.0	275.3		
NONRESIDENTIAL KWH																

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

SUMMARY GROUPINGS	1982			1983		
	II	III	IV	I	II	III
TOTAL INDEX	139.4	138.2	135.3	138.5	144.5	151.8
PRODUCTS, TOTAL	142.4	141.8	139.4	140.9	146.3	153.0
FINAL PRODUCTS	142.3	141.2	138.8	139.6	144.6	150.6
CONSUMER GOODS	143.5	144.4	141.8	143.8	150.2	156.2
DURABLE CONSUMER GOODS	132.6	133.8	125.7	134.1	145.1	154.8
AUTOMOTIVE PRODUCTS	137.3	140.2	124.3	141.0	152.4	169.3
HOME GOODS	130.0	130.2	126.4	130.2	141.0	146.7
NONDURABLE CONSUMER GOODS	147.8	148.6	148.3	147.6	152.1	156.7
CLOTHING						
CONSUMER STAPLES	159.1	159.3	158.7	158.0	162.7	167.4
CONSUMER ENERGY	152.8	150.4	149.9	141.9	152.3	155.5
(HOME GOODS AND CLOTHING)	119.5	120.9	119.2	120.9	128.6	133.6
EQUIPMENT	140.7	136.8	134.8	133.9	137.0	143.0
BUSINESS EQUIPMENT	160.5	153.1	147.2	144.3	148.3	156.2
INDUSTRIAL EQUIPMENT	139.6	127.8	117.8	115.1	114.8	123.3
COMMERCIAL, TRANSIT, FARM EQ.	184.7	182.3	181.2	178.2	187.0	194.2
DEFENSE AND SPACE EQUIPMENT	107.5	109.5	113.8	116.5	117.9	120.8
INTERMEDIATE PRODUCTS	142.7	143.7	141.6	145.6	152.5	161.9
CONSTRUCTION SUPPLIES	123.0	125.6	123.0	129.9	139.0	148.6
BUSINESS SUPPLIES	162.4	161.8	160.1	161.2	166.0	175.0
COMMERCIAL ENERGY PRODUCTS	180.7	179.0	181.7	179.8	182.6	187.4
MATERIALS	134.7	132.6	128.7	134.8	141.7	149.9
DURABLE GOODS MATERIALS	127.1	124.7	117.1	125.2	134.7	144.2
BASIC METAL MATERIALS	79.7	76.5	70.3	82.2	88.9	92.8
NONDURABLE GOODS MATERIALS	156.8	155.1	157.0	163.7	171.7	179.5
TEXTILE, PAPER AND CHEMICAL MAT	160.5	158.4	160.8	169.3	179.6	188.2
TEXTILE MATERIALS	101.8	102.0	103.0	107.2	113.7	121.2
PAPER MATERIALS	142.0	145.9	147.6	149.9	153.4	162.8
CHEMICAL MATERIALS	194.0	188.5	191.9	204.7	219.4	228.0
ENERGY MATERIALS	125.5	123.8	121.5	122.2	121.5	127.4
MANUFACTURING	138.1	137.7	134.5	138.4	145.2	152.8
DURABLE	126.1	124.8	119.8	124.2	131.1	139.0
NONDURABLE	155.5	156.4	155.7	159.0	165.5	172.8
MINING AND UTILITIES	148.5	141.2	140.3	138.8	139.4	145.4
MINING	128.8	117.2	117.0	116.7	112.3	116.0
UTILITIES	170.4	167.9	166.2	163.6	169.6	178.2

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

SUMMARY GROUPINGS	1982			1983		
	II	III	IV	I	II	III
PRODUCTS, TOTAL	584.1	579.9	570.4	580.2	601.6	627.2
FINAL PRODUCTS	456.2	450.9	443.3	449.0	465.0	482.4
CONSUMER GOODS	310.7	311.1	306.3	312.2	324.9	336.5
DURABLE CONSUMER GOODS	77.7	79.0	72.6	79.5	86.1	94.0
AUTOMOTIVE PRODUCTS	36.8	37.8	32.6	37.9	41.2	47.0
HOME GOODS	40.9	41.2	40.0	41.6	45.0	47.0
NONDURABLE CONSUMER GOODS	233.0	232.1	233.7	232.7	238.8	242.5
CLOTHING						
CONSUMER STAPLES	205.8	203.8	205.2	204.7	209.8	212.2
CONSUMER ENERGY	43.7	43.3	43.0	40.7	43.4	44.3
(HOME GOODS AND CLOTHING)	68.2	69.5	68.5	69.6	74.0	77.3
EQUIPMENT	145.4	139.8	137.0	136.7	140.1	145.9
BUSINESS EQUIPMENT	100.6	94.2	89.5	88.2	91.0	95.5
INDUSTRIAL EQUIPMENT	44.3	40.5	37.0	36.2	36.1	38.6
COMMERCIAL, TRANSIT, FARM EQ.	56.3	53.8	52.5	51.9	54.8	56.9
DEFENSE AND SPACE EQUIPMENT	44.9	45.6	47.5	48.6	49.2	50.4
INTERMEDIATE PRODUCTS	128.0	129.0	127.1	131.2	136.6	144.8
CONSTRUCTION SUPPLIES	52.1	53.6	52.0	55.6	58.8	63.2
BUSINESS SUPPLIES	75.8	75.4	75.1	75.6	77.8	81.5
COMMERCIAL ENERGY PRODUCTS	19.7	19.4	19.8	19.6	20.0	20.4
MATERIALS						
DURABLE GOODS MATERIALS	127.1	124.7	117.1	125.2	134.7	144.2
BASIC METAL MATERIALS	79.7	76.5	70.3	82.2	88.9	92.8
NONDURABLE GOODS MATERIALS	156.8	155.1	157.0	163.7	171.7	179.5
TEXTILE, PAPER AND CHEMICAL MAT	160.5	158.4	160.8	169.3	179.6	188.2
TEXTILE MATERIALS	101.8	102.0	103.0	107.2	113.7	121.2
PAPER MATERIALS	142.0	145.9	147.6	149.9	153.4	162.8
CHEMICAL MATERIALS	194.0	188.5	191.9	204.7	219.4	228.0
ENERGY MATERIALS	125.5	123.8	121.5	122.2	121.5	127.4
MANUFACTURING	138.1	137.7	134.5	138.4	145.2	152.8
DURABLE	126.1	124.8	119.8	124.2	131.1	139.0
NONDURABLE	155.5	156.4	155.7	159.0	165.5	172.8
MINING AND UTILITIES	148.5	141.2	140.3	138.8	139.4	145.4
MINING	128.8	117.2	117.0	116.7	112.3	116.0
UTILITIES	170.4	167.9	166.2	163.6	169.6	178.2

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

MAJOR MARKET GROUPINGS	1977		1982			1983										
	DOLS- LARS	1982 AVG.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	
PRODUCTS, TOTAL	507.4	579.6	568.4	572.9	578.1	578.4	584.1	592.6	601.8	610.5	620.5	626.6	634.5	640.8	643.9	
FINAL PRODUCTS	390.9	451.1	441.3	445.8	448.3	447.3	451.3	457.7	465.6	471.8	478.2	481.8	487.3	493.2	495.2	
CONSUMER GOODS	277.5	308.0	305.6	306.8	310.9	312.0	313.8	318.8	325.6	330.4	333.7	336.7	339.2	342.5	342.8	
DURABLE CONSUMER GOODS	82.0	75.1	71.9	73.3	77.3	80.1	81.2	83.2	85.9	89.3	93.5	93.3	95.3	94.3	94.2	
AUTOMOTIVE PRODUCTS	41.1	34.4	31.5	34.0	36.4	39.0	38.4	39.0	41.1	43.5	46.5	46.7	47.9	46.9	47.1	
HOME GOODS	40.9	40.7	40.3	39.3	40.9	41.1	42.8	44.2	44.8	45.8	47.0	46.6	47.4	47.4	47.1	
NONDURABLE CONSUMER GDS	195.5	233.0	233.7	233.6	233.6	232.0	232.6	235.6	239.7	241.1	240.2	243.4	243.9	248.2	248.5	
CLOTHING	28.5															
CONSUMER STAPLES	167.0	205.1	204.9	205.2	205.5	204.0	204.7	207.1	210.6	211.6	210.2	213.5	213.0	217.4	217.7	
CONSUMER ENERGY PROD	39.2	43.1	43.1	42.8	40.9	40.4	40.9	43.3	43.7	43.2	43.6	44.0	45.2	45.1		
(HOME GOODS & CLOTHING)	69.4	68.5	69.1	67.7	69.1	69.0	70.7	72.8	73.9	75.3	77.1	76.5	78.3	78.2	78.0	
EQUIPMENT	113.4	143.1	135.7	138.9	137.4	135.3	137.5	138.9	140.0	141.4	144.5	145.1	148.1	150.7	152.4	
BUSINESS EQUIPMENT	80.6	97.5	88.3	90.6	88.8	87.0	88.7	89.6	91.0	92.3	94.1	95.0	97.3	99.3	100.6	
INDUSTRIAL EQUIPMENT	34.4	42.8	36.8	36.9	37.2	35.9	35.6	35.6	36.0	36.7	37.6	39.1	39.2	39.8	40.9	
COM'L, TRANSIT, FARM EQ	46.2	54.7	51.5	53.6	51.6	51.1	53.1	54.0	55.0	55.6	56.5	56.0	58.2	59.5	59.7	
DEFENSE & SPACE EQUIP.	32.7	45.6	47.4	48.4	48.6	48.3	48.8	49.3	49.0	49.2	50.4	50.1	50.8	51.3	51.8	
INTERMEDIATE PRODUCTS	116.6	128.5	127.1	127.1	129.8	131.1	132.8	134.9	136.2	138.7	142.3	144.8	147.2	147.6	148.7	
CONSTRUCTION SUPPLIES	57.8	52.7	52.3	51.7	54.4	55.8	56.7	57.5	58.5	60.5	62.6	63.1	64.0	64.2	64.3	
BUSINESS SUPPLIES	58.8	75.8	74.8	75.4	75.4	75.3	76.1	77.4	77.7	78.2	79.7	81.7	83.2	83.4		
COMMERCIAL ENERGY PROD	15.6	19.7	19.9	19.9	19.6	19.4	19.8	20.1	20.0	19.8	20.1	20.4	20.7	20.5		

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

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1967-82			
AVERAGE	53.7	56.3	58.1
HIGH	71.7	78.7	82.8
LOW	22.6	15.7	14.7
1981			
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	35.1	39.6	43.8
NOVEMBER	48.1	39.8	43.8
DECEMBER	46.2	38.7	36.0
1983			
JANUARY	64.9	63.0	46.0
FEBRUARY	45.5	61.7	48.1
MARCH	70.4	67.9	60.9
APRIL	59.4	60.0	68.3
MAY	64.9	74.5	74.3
JUNE	66.0	71.7	77.2
JULY	75.5	79.4	75.1
AUGUST	57.9	76.0	79.1
SEPTEMBER	74.7	83.0	86.2
OCTOBER	53.6	70.4	86.2

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

Table 9A

ELECTRIC POWER USE BY INDUSTRIES

Seasonally adjusted indexes, 1967=100

SERIES	SIC (1967)	BIL. KWH. 1967	1982 AVG.	1982			1983			1983					PERCENT CHG. FROM PREV. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	MAY	JUNE	JULY	AUG	SEP	OCT	NO. (P)	YR. (P)
TOTAL		560.4	120.7	120.3	115.4	118.7	123.9	131.0	123.5	126.6	129.1	132.1	132.3			
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	145.2	148.1	141.9	145.1	149.7	157.3	149.4	151.8	155.6	158.3	157.9			
FINAL PRODUCTS		101.4	144.5	147.9	140.6	143.4	147.6	155.8	147.2	149.9	154.0	157.2	156.0			
CONSUMER GOODS		67.4	150.6	155.1	146.6	150.1	154.9	162.8	158.2	156.9	161.1	164.1	163.1	161.2	-1.2	10.2
EQUIPMENT		34.0	128.8	129.5	125.4	126.5	129.3	137.3	129.5	131.3	135.1	138.9	137.9			
INTERMEDIATE PRODUCTS		34.7	147.4	148.8	145.5	149.4	156.2	162.4	156.4	158.2	160.8	162.3	164.2			
MATERIALS		424.3	112.6	110.7	106.6	110.1	115.4	122.1	114.7	118.2	120.3	122.8	123.1			
DURABLE		237.7	101.2	96.2	92.6	98.7	100.7	108.3	101.1	102.9	105.9	109.3	109.6			
NONDURABLE		133.0	125.4	124.2	122.3	127.9	134.1	138.4	133.6	136.0	136.7	138.3	140.2	139.3	-6	13.6
ENERGY, EX. ENDA		23.8	178.5	174.4	177.0	177.5	179.3	186.0	176.9	183.6	188.1	184.4	185.5	182.5	-1.6	5.1
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	151.5	131.0	144.1	151.9	153.7	163.2	154.5	157.2	163.9	164.9	160.9	162.3	.9	16.4
MANUFACTURING		519.2	119.5	120.2	114.3	117.3	122.2	129.4	121.5	124.9	127.6	130.1	130.4			
DURABLE	19,24-25,32-39	254.1	109.7	108.4	102.1	104.7	109.9	118.2	109.7	112.3	115.4	119.5	119.6			
NONDURABLE	20-23,26-31	265.1	128.8	131.2	125.9	130.1	133.6	139.4	132.6	136.8	138.3	140.0	140.0	138.9	-7	11.0
UTILITIES, OWN USE	491,2	6.5	140.1													
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	9.9	105.5	62.4	89.5	105.0	117.0	123.1	120.2	120.5	127.7	126.0	115.6	120.7	4.4	50.5
IRON ORE	1011	5.0	97.7	31.7	67.3	92.7	110.0	118.5	115.2	119.6	121.4	126.7	107.5	107.5	0.0	101.2
COPPER ORE	1021	3.0	116.9	102.6	123.4	126.7	137.2	144.4	138.7	132.1	154.5	142.2	136.6	150.7	10.3	27.6
COAL	11,21	5.9	197.9	189.0	188.3	187.5	177.6	184.3	175.3	177.8	187.0	179.7	186.1	187.4	.7	.9
OIL AND GAS EXTRACTION	131	11.9	193.6	191.2	197.1	201.0	202.3	218.3	202.4	209.4	218.7	218.8	217.4	210.2	-3.3	7.7
CRUDE OIL AND NAT. GAS	1311	8.9	219.2	215.6	225.7	230.5	228.1	253.8	228.8	241.2	256.4	252.2	252.7	241.0	-4.6	8.2
NATURAL GAS LIQUIDS	1321	2.5	122.3	122.6	113.3	121.7	123.4	119.1	124.3	116.8	119.5	122.0	115.7	113.8	-1.6	.7
STONE AND EARTH, MINERALS	141	6.9	132.6	122.0	127.0	130.2	132.8	132.8	135.2	131.5	128.1	134.1	136.0	142.3	4.6	13.0
CRUSHED STONE	1421	1.5	142.3	141.4	135.8	149.4	150.5	155.4	151.0	151.7	154.6	148.8	162.7	157.8	-3.0	15.7
SAND AND GRAVEL	1441	1.1	101.9	101.6	100.2	101.7	104.0	115.5	107.9	107.4	111.3	118.5	116.9	113.6	-2.8	13.2
CHEMICAL MINERALS	1471	3.4	138.0	121.5	133.4	135.0	133.6	130.3	132.4	131.1	123.8	133.9	133.3	146.8	10.2	12.1
ORDNANCE	191	4.1	97.9	100.0	95.8	99.3	99.4	104.2	100.4	99.9	103.8	105.4	103.4	110.6	7.0	12.2
FOODS	201	26.8	159.9	160.6	159.2	159.2	162.4	168.7	161.6	164.1	167.9	168.2	170.1	167.7	-1.4	4.9
MEAT PRODUCTS	2011	4.2	163.7	161.9	162.1	172.7	164.3	166.8	166.4	163.6	168.6	168.3	163.5	163.9	.3	1.5
DAIRY PRODUCTS	2021	4.1	141.4	138.5	144.9	147.8	143.4	148.0	140.9	140.2	141.8	147.2	155.0	153.6	-9	7.7
CANNED AND FROZEN FOODS	2031	3.2	205.2	214.2	210.9	207.4	212.2	217.1	211.8	222.1	221.4	216.7	213.2	219.0	2.7	4.2
GRAIN MILL PRODUCTS	2041	4.8	140.1	141.5	141.0	142.8	152.1	161.0	154.1	153.5	157.0	157.7	168.2	158.3	-5.9	12.0
BAKERY PRODUCTS	2051	1.8	145.2	145.2	146.2	146.0	148.9	157.0	148.6	149.4	156.8	154.9	159.3	157.8	-1.0	8.7
SUGAR	2061	1.2	265.7	336.6	224.0	213.5	300.9	364.1	275.0	350.5	355.8	361.6	374.9	239.5	-36.1	-2
CONFECTIONERY	2071	1.0	145.2	133.9	154.5	168.4	146.5	139.8	147.3	138.6	148.7	138.3	132.5	140.7	6.2	-6
BEVERAGES	2081	2.4	197.4	191.0	195.1	203.0	205.0	212.7	205.3	205.8	213.1	216.7	208.3	210.1	.9	9.8
MISC. FOOD PRODUCTS	2091	4.1	132.2	136.1	128.5	124.4	126.3	134.6	126.8	126.3	130.9	133.8	139.1	133.9	-3.8	.4
TOBACCO PRODUCTS	211	.9	124.1	122.5	117.4	114.3	122.8	125.7	122.5	129.2	126.5	123.8	126.8	126.8	0.0	10.1
TEXTILE MILL PRODUCTS	221	20.8	102.0	103.1	101.9	101.7	113.2	122.0	112.0	119.2	124.3	119.3	122.3	125.8	2.9	19.3
FABRICS	221-41	11.7	79.7	80.6	80.1	77.7	89.0	99.1	87.8	96.0	100.5	96.1	100.7	101.9	1.2	22.4
KNIT GOODS	2251	1.7	133.8	134.3	131.9	133.4	137.9	147.0	136.1	141.9	148.4	141.8	150.8	145.4	-3.6	9.4
FABRIC FINISHING	2261	1.5	136.8	140.8	136.6	133.3	144.8	159.9	141.9	151.5	162.3	155.4	162.2	160.1	-1.3	15.7
YARN AND THREAD	2281	3.9	143.2	142.6	142.7	142.5	164.3	173.9	161.8	175.2	178.3	173.2	170.3	181.3	6.5	21.3
MISC. TEXTILES	2291	1.4	128.1	134.8	127.1	129.7	136.7	148.0	144.6	136.5	151.6	138.2	154.3	150.4	-2.5	12.2
APPAREL PRODUCTS	231	3.6	159.9	157.3	159.5	165.7	159.5	167.3	159.2	158.8	164.6	165.9	171.3	172.0	.4	10.2
HEN'S OUTERWEAR	231,21	1.0	148.5	148.6	147.4	151.1	146.4	158.5	147.3	146.2	156.9	159.1	159.5	150.6	-5.6	3.5
WOMEN'S OUTERWEAR	2331	1.0	198.9	193.7	197.9	226.5	210.1	229.4	204.3	210.6	225.2	229.3	233.6	227.2	-2.8	19.0
LUMBER AND PRODUCTS	241	8.0	177.6	180.0	183.1	190.2	201.3	209.3	201.5	204.8	208.3	210.1	209.6	206.0	-1.7	14.5
LUMBER	2421	3.9	180.9	184.2	184.7	189.9	194.2	200.2	194.6	199.6	205.1	199.7	195.9	190.3	-2.8	6.2
MILLWORK AND PLYWOOD	2431	2.2	166.2	169.8	181.4	193.2	206.6	223.4	204.7	208.5	220.6	219.8	229.8	228.8	-.4	28.8
FURNITURE AND FIXTURES	251	2.5	150.0	150.2	148.0	147.8	152.6	160.6	152.0	153.8	162.2	159.3	160.2	160.8	.4	8.0
HOME FURNITURE	2511	1.7	164.9	167.5	167.5	178.8	192.3	196.2	190.8	194.8	196.3	195.1	197.1	196.1	-.5	18.0
PAPER AND PRODUCTS	261	49.1	121.7	122.9	123.4	124.7	126.2	130.0	127.9	124.8	128.5	130.5	131.1			
WOOD PULP	2611	3.5	104.8	103.9	105.3	100.3	105.5	102.2	109.5	102.9	101.1	102.2	103.4	97.8	-5.4	-4.7
PAPER	2621	24.5	124.8	124.7	126.4	130.2	133.4	139.9	134.0	131.8	138.0	139.4	142.3			
PAPERBOARD	2631	14.8	122.9	126.6	124.9	131.9	132.8	133.3	134.0	131.0	134.9	131.9	133.3	127.1	-4.6	5.6
CONVERTED PAPER	2641	2.5	143.9	148.5	143.3	147.2	151.7	159.8	150.6	156.1	157.7	164.8	156.8	154.8	-1.2	10.1
PAPERBOARD CONTAINERS	2651	2.3	135.4	137.7	133.3	135.3	137.1	144.6	136.5	137.1	143.5	147.8	142.5	144.7	1.6	8.8
BUILDING PAPER AND BOARD	2661	1.4	157.9	161.4	176.5	172.4	190.3	196.7	191.8	195.8	197.1	185.0	208.0	211.2	1.5	17.2
PRINTING AND PUBLISHING	271	5.8	170.4	168.9	167.7	174.5	171.2	182.7	170.0	170.7	176.3	184.2	187.5	185.4	-1.1	12.3
NEWSPAPERS	2711	1.7	144.5	140.8	141.2	151.9	146.8	148.2	144.8	146.9	144.1	149.0	151.6	147.9	-2.4	5.6
COMMERCIAL PRINTING	2751	2.4	184.8	185.9	181.9	195.0	188.3	201.3	185.5	188.5	196.5	205.6	201.8	199.3	-1.2	11.0

P—PRELIMINARY

NOTE: THE 1983 SEASONAL FACTORS FOR THE MAJOR MARKET AND INDUSTRY GROUPINGS HAVE BEEN UPDATED.

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

SERIES	SIC (1967)	BILL. KWH. 1967	1982 AVG.	1982			1983			1983					PERCENT CHG. FROM PREY:	
				Q 3	Q 4	Q 1	Q 2	Q 3	MAY	JUNE	JULY	AUG	SEP	OCT	NO. (P)	TR. (P)
TOTAL		560.4	120.7	119.7	116.4	117.3	124.7	130.8	124.8	127.5	127.2	132.1	133.4			
MAJOR MARKET GROUPINGS																
PRODUCTS, TOTAL		136.1	145.2	152.5	143.1	140.3	149.2	162.0	147.6	155.5	156.7	163.4	166.0			
FINAL PRODUCTS		101.4	144.5	153.2	141.7	138.4	147.0	161.3	145.0	154.1	155.9	162.9	165.1			
CONSUMER GOODS		67.4	150.6	160.9	148.2	144.2	154.0	169.1	151.9	161.6	163.4	171.0	172.9	167.0	-3.4	9.3
EQUIPMENT		34.0	128.8	133.4	125.1	123.7	129.0	141.3	127.3	134.8	136.8	142.1	145.1			
INTERMEDIATE PRODUCTS		34.7	147.4	150.6	147.4	146.1	156.1	164.3	155.4	159.7	159.2	165.0	168.6			
MATERIALS		424.3	112.6	108.7	107.5	109.7	116.5	120.4	117.2	118.2	117.4	121.7	122.0			
DURABLE		237.7	101.2	94.7	92.4	94.7	102.1	106.5	103.7	103.2	103.7	107.6	108.0			
NONDURABLE		133.0	125.0	124.9	123.2	125.4	134.9	139.1	134.4	137.8	134.6	141.0	141.7	142.2	.4	13.0
ENERGY, EX. ENDA		23.8	178.5	166.4	176.9	166.3	178.6	176.7	176.9	181.4	177.8	176.1	176.3	174.3	-1.1	4.0
MAJOR INDUSTRY DIVISIONS																
MINING	10-14	34.7	151.5	127.8	145.0	153.2	156.3	157.9	157.4	159.6	156.0	158.8	159.0	162.2	2.0	15.8
MANUFACTURING		519.2	119.5	120.0	115.4	115.5	122.9	129.5	123.0	125.8	125.6	130.9	131.9			
DURABLE	19,24-25,32-39	254.1	109.7	107.7	102.3	103.8	111.1	117.5	111.8	113.4	113.8	118.6	120.2			
NONDURABLE	20-23,26-31	265.1	128.8	131.6	127.8	126.6	134.1	140.8	133.7	137.6	136.8	142.5	143.1	144.1	.7	10.0
UTILITIES, OWN USE	491,2	6.5	140.1													
INDUSTRY GROUPS AND SERIES																
METAL MINING	101	9.9	105.5	60.9	89.6	104.9	120.0	119.9	124.4	123.8	124.1	121.0	114.5	121.7	6.3	50.5
IRON ORE	1011	5.0	97.7	31.1	67.5	92.1	112.7	116.0	118.9	122.3	120.9	121.7	105.3	108.7	3.2	101.2
COPPER ORE	102	3.0	116.9	96.9	123.8	128.7	142.2	136.3	145.8	138.1	142.0	130.4	136.6	153.1	12.1	27.6
COAL	11,21	5.9	197.9	167.3	188.4	204.2	179.4	162.9	175.5	175.1	186.6	167.9	174.3	185.1	6.2	1.9
OIL AND GAS EXTRACTION	13	11.9	193.6	191.4	197.8	201.7	201.5	218.3	200.4	211.0	220.5	215.8	218.7	208.3	-4.8	6.9
CRUDE OIL AND NAT. GAS	131	8.9	219.2	214.3	226.8	231.7	227.2	252.3	224.7	243.7	255.8	246.7	254.3	239.6	-5.8	8.2
NATURAL GAS LIQUIDS	132	2.5	122.3	128.9	113.3	118.3	122.3	123.2	123.7	117.9	123.9	126.8	119.0	115.1	-3.3	.7
STONE AND EARTH MINERALS	14	6.9	132.6	122.7	130.4	124.3	135.1	133.0	138.0	134.7	126.0	134.9	138.1	147.7	7.0	12.4
CRUSHED STONE	142	1.5	142.3	149.8	143.6	124.8	157.6	164.6	160.6	164.3	161.7	159.5	172.5	172.2	-2.2	15.7
SAND AND GRAVEL	144	1.1	101.9	107.0	106.4	86.3	107.6	121.7	112.7	132.8	115.8	125.7	123.5	124.6	.9	13.2
CHEMICAL MINERALS	147	3.4	138.0	119.3	135.3	134.3	134.5	128.1	133.6	131.3	117.3	131.5	135.5	150.2	10.9	12.1
ORDNANCE	19	4.1	97.9	104.6	95.6	95.5	98.5	109.7	99.4	103.0	107.5	112.7	109.0	114.4	5.0	12.2
FOODS	20	26.8	159.9	170.5	163.1	150.3	158.1	179.3	155.4	167.0	174.4	180.0	183.6	176.4	-3.9	4.4
MEAT PRODUCTS	201	4.2	163.7	178.1	163.1	157.6	161.1	183.5	159.9	169.8	184.7	188.7	177.2	172.1	-2.9	1.5
DAIRY PRODUCTS	202	4.1	141.4	156.3	139.6	132.7	144.5	166.9	139.3	153.2	161.9	166.4	172.5	156.6	-9.3	7.7
CANNED AND FROZEN FOODS	203	3.2	205.2	229.9	217.1	194.5	203.4	232.9	201.8	218.1	215.6	229.1	253.9	252.6	-5.5	4.2
GRAIN MILL PRODUCTS	204	4.8	140.1	142.7	145.3	142.5	146.5	162.3	145.1	153.2	155.4	162.0	169.5	163.4	-3.6	12.0
BAKERY PRODUCTS	205	1.8	145.2	158.7	145.7	135.7	146.1	171.6	143.6	155.0	169.0	169.5	176.2	163.9	-7.0	8.7
SUGAR	206	1.2	265.7	246.8	302.0	239.6	222.9	267.0	210.4	241.9	237.3	270.5	273.3	276.8	1.3	-2.2
CONFECTIONERY	207	1.0	145.2	142.6	159.7	150.2	146.3	148.8	145.0	148.1	144.7	150.3	151.3	154.9	2.4	-6.6
BEVERAGES	208	2.4	197.4	213.1	191.1	183.2	205.4	237.3	201.8	220.0	235.1	244.8	232.0	217.3	-6.4	9.8
MISC. FOOD PRODUCTS	209	4.1	132.2	141.2	132.5	118.7	123.3	139.7	121.6	129.6	135.1	137.8	146.2	138.9	-5.0	.4
TOBACCO PRODUCTS	21	.9	124.1	133.7	121.3	106.2	116.5	137.2	114.7	130.1	122.0	139.2	150.4	140.7	-6.5	9.4
TEXTILE MILL PRODUCTS	22	20.8	102.0	105.7	102.4	95.4	116.4	126.1	114.3	126.7	115.7	129.8	132.7	131.4	-7.9	19.3
FABRICS	221-4	11.7	79.7	82.1	80.2	74.0	91.6	100.7	89.9	102.4	91.3	103.7	107.2	106.6	-6.6	22.4
KNIT GOODS	225	1.7	133.8	145.8	130.7	120.1	141.4	159.4	138.3	155.8	145.7	161.6	171.0	153.7	-10.1	9.4
FABRIC FINISHING	224	1.5	136.8	136.3	137.8	132.2	149.1	154.9	145.5	158.8	141.2	157.7	165.9	162.7	-1.9	15.7
YARN AND THREAD	228	3.9	143.2	147.8	143.8	133.0	169.1	179.4	164.4	189.2	165.1	184.6	184.5	187.1	1.4	21.3
MISC. TEXTILES	229	1.4	128.1	135.0	127.6	126.5	139.8	147.6	143.4	144.7	141.9	146.1	154.7	158.9	2.7	12.2
APPAREL PRODUCTS	23	3.6	159.9	182.2	155.1	147.6	155.8	194.6	150.8	170.5	177.1	200.4	206.2	182.6	-11.4	8.7
MEN'S OUTERWEAR	231,2	1.0	148.5	172.9	145.0	130.9	144.2	184.6	141.0	158.9	165.7	191.2	197.0	165.0	-16.2	3.5
WOMEN'S OUTERWEAR	233	1.0	198.9	230.5	188.6	195.7	207.6	273.1	198.0	233.1	252.2	284.4	282.7	243.8	-13.8	19.0
LUMBER AND PRODUCTS	24	8.0	177.6	174.0	183.7	193.8	201.9	202.0	201.7	200.9	195.6	202.8	207.7	207.3	-1.2	14.5
LUMBER	242	3.9	180.9	177.6	185.9	192.8	196.7	192.9	197.9	193.6	190.2	194.4	194.1	195.2	.6	6.2
MILLWORK AND PLYWOOD	243	2.2	166.2	162.9	179.5	198.0	211.8	214.3	209.8	206.6	205.8	212.4	224.8	222.4	-1.0	28.8
FURNITURE AND FIXTURES	25	2.5	150.0	148.4	148.9	148.8	151.7	158.9	146.8	154.9	147.3	163.0	166.4	164.4	-1.2	8.6
HOME FURNITURE	251	1.7	164.9	163.3	168.5	181.9	192.9	191.1	187.8	196.1	172.8	198.8	201.8	199.5	-1.2	18.0
PAPER AND PRODUCTS	26	49.1	121.7	122.0	123.2	123.7	127.8	129.6	128.6	126.6	125.3	132.7	130.9			
WOOD PULP	261	3.5	164.8	163.7	165.7	165.5	166.1	162.0	160.0	161.9	160.5	168.7	164.7	162.9	-1.8	-4.7
PAFPA	262	24.5	124.8	123.3	125.5	130.2	135.5	138.5	139.1	132.1	133.4	143.1	138.9			
REFINISHED	263	14.8	122.9	124.4	122.3	133.3	135.6	130.6	137.4	135.5	137.9	139.8	131.0	129.4	-5.2	5.6
CONVERTED PAPER	264	2.5	193.9	195.1	197.9	181.6	153.0	161.6	151.1	159.8	164.0	167.0	163.3	158.2	.6	10.1
REFINISHED CONTAINERS	265	2.3	135.4	139.5	132.7	133.0	138.4	146.2	138.1	144.3	139.0	151.0	146.6	148.6	1.5	8.8
BUILDING PAPER AND BOARD	266	1.4	197.9	183.9	177.4	167.0	191.2	200.1	193.5	194.7	195.3	197.1	208.0	205.6	3.7	17.2
PRINTING AND PUBLISHING	27	5.8	170.4	181.9	165.6	158.5	167.9	205.8	161.7	179.1	195.0	209.4	212.6	194.1	-8.5	10.7
NEWSPAPERS	271	1.7	144.5	161.7	136.5	134.2	144.7	170.3	140.2	158.2	165.0	173.1	172.8	155.0	-10.3	5.6
COMMERCIAL PRINTING	275	2.4	164.8	210.7	182.1	173.1	183.9	228.3	178.4	187.0	219.0	235.2	233.9	215.4	-7.9	11.0

P--PRELIMINARY

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

SERIES	SIC (1967)	BIL. KWH. 1967	1962 AVG.	1982			1983			1983					PERCENT CHG. FROM PREV. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	MAY	JUNE	JULY	AUG	SEP	OCT	(P)	(P)
CHEMICALS AND PRODUCTS	28	116.8	116.6	118.5	110.9	117.6	120.5	125.7	117.6	125.4	124.9	126.3	126.0	126.1	-1	14.4
BASIC CHEMICALS	281	96.4	102.4	104.4	97.7	102.6	106.7	111.6	104.3	112.1	110.1	112.1	112.5	109.7	-2.5	13.4
ALKALIES AND CHLORINE	2812	12.3	130.0	124.3	123.9	135.6	141.6	147.4	142.0	143.0	140.5	149.3	152.5	148.1	-2.9	15.1
BASIC ORGANIC CHEM. NEC	2818	24.8	125.2	116.2	127.1	143.5	144.5	138.8	142.9	146.0	138.1	139.2	139.2	140.1	-6	11.9
INORGANIC CHEM. NEC	2819	48.6	82.5	89.9	77.2	78.3	84.1	92.7	81.6	91.2	91.7	93.0	93.3	89.5	-4.0	17.5
ACID AND FERT. MAT'L.S.		18.8	82.2	82.7	79.6	81.0	85.3	88.5	87.0	85.6	84.8	89.7	91.0	91.2	-1	13.9
ERDA		29.8	82.6	95.9	76.0	76.1	83.7	96.6	78.2	96.2	98.7	96.5	94.5	87.8	-7.0	19.7
SYNTHETIC MATERIALS	282	12.1	172.2	171.7	163.6	166.6	186.1	197.1	180.1	193.7	195.7	196.2	199.4	202.3	1.4	24.3
PLASTICS MATERIALS	2821	4.4	180.2	183.0	164.4	181.0	210.2	217.5	208.5	212.8	221.1	221.2	210.3	212.3	1.0	30.4
OTHER SYNTHETICS	2822-4	7.7	167.8	165.3	162.3	159.3	174.0	185.8	168.9	184.7	182.6	180.7	194.2	196.7	1.3	20.9
DRUGS	283	2.0	226.8	228.5	229.1	235.5	236.7	248.2	236.2	237.9	245.4	250.9	248.4	245.0	-1.4	10.6
SOAP AND TOILETRIES	284	1.0	147.4	152.4	146.1	149.0	149.5	169.3	150.6	158.9	158.6	177.1	172.3	164.4	-4.6	10.0
FARM CHEMICALS	287	2.7	153.2	156.2	138.1	136.1	138.3	136.9	142.9	138.3	138.6	133.9	138.3	142.2	2.8	2.8
PETROLEUM PRODUCTS	29	22.3	185.1	192.6	186.5	186.2	188.3	190.9	189.7	190.7	189.0	192.7	190.9	188.3	-1.3	1.2
RUBBER AND PLASTICS PROD.	30	10.8	170.4	172.5	166.3	176.8	189.8	198.1	189.9	192.4	194.9	197.1	202.4	200.0	-1.2	20.6
TIRES	301	3.2	99.0	97.6	96.4	98.3	107.2	109.7	109.0	107.7	107.6	111.7	109.8	108.5	-1.2	15.9
RUBBER PRODUCTS NEC	306	2.3	115.3	115.4	110.0	117.2	122.8	127.5	122.9	124.1	128.9	124.2	129.6	126.0	-2.7	15.1
PLASTICS PRODUCTS NEC	307	4.8	248.1	252.7	241.7	263.0	282.5	300.5	282.9	287.4	295.8	295.5	310.1	303.9	-2.0	24.8
LEATHER AND PRODUCTS	31	1.3	107.8	107.6	103.2	107.8	106.3	111.0	100.2	108.5	108.7	112.2	112.2	108.7	-3.2	5.3
SHOES	314	.6	95.3	98.2	93.4	97.3	93.6	96.7	83.0	97.3	98.5	97.6	94.0	92.7	-1.4	-2.2
CLAY, GLASS, STONE PRODUCTS	32	20.8	133.5	133.3	130.0	129.5	136.1	141.8	135.1	138.0	141.4	141.1	142.9	142.4	-3	10.8
FLAT GLASS	321	1.2	101.8	104.2	99.2	100.1	102.4	102.4	101.8	103.4	99.2	101.9	106.2	108.6	2.3	8.0
PRESSED AND BLOWN GLASS	322	3.5	194.2	195.2	193.0	190.1	196.2	206.7	192.6	201.3	201.4	207.7	211.0	197.1	-6.6	5.6
CEMENT	324	8.4	99.3	99.3	96.2	98.4	97.1	105.0	97.1	99.5	105.7	104.6	104.8	105.7	.9	10.7
STRUCTURAL CLAY PRODUCTS	325	1.3	82.1	82.9	81.9	81.2	93.2	99.2	94.0	96.6	96.6	98.2	102.8	103.7	.8	25.1
CONCRETE PRODUCTS	327	2.3	159.3	157.7	155.6	170.8	178.4	190.3	175.8	181.7	189.6	191.8	189.6	192.3	1.4	25.2
PRIMARY METALS	33	132.0	90.2	86.4	81.0	82.9	88.1	94.7	89.0	89.6	92.2	95.7	96.2	95.7	-5	17.2
BASIC STEEL & MILL PROD.	331	58.4	76.9	71.4	64.9	70.6	77.3	80.1	79.1	76.0	79.0	81.6	79.7	80.1	.5	18.3
IRON & STEEL FOUNDRIES	332	5.9	148.7	150.3	130.3	137.5	147.7	160.5	145.4	150.8	162.5	160.9	158.1	151.8	-4.0	12.5
PRIMARY NONFERROUS METALS	333	59.5	87.6	85.0	80.7	77.0	80.1	90.3	80.8	83.7	86.3	92.0	92.7	92.2	-5	15.8
ALUMINUM	3334	53.6	78.2	73.7	70.0	68.3	71.8	83.3	71.7	74.7	79.7	84.8	85.4	85.8	.4	26.4
NONFERROUS MILL PRODUCTS	335	8.4	105.2	102.1	104.5	106.3	110.9	121.7	108.1	114.0	117.6	120.0	127.3	117.9	-7.4	15.3
NONFERROUS FOUNDRIES	336	1.4	146.3	143.4	135.6	130.3	146.7	158.6	147.9	149.7	154.8	159.5	161.6	159.1	-1.5	18.5
FABRICATED METAL PRODUCTS	34	14.8	149.5	150.5	142.7	146.8	151.5	161.9	149.7	154.1	159.8	162.1	163.8	163.8	-1.0	8.5
METAL CANS	341	1.0	196.9	191.0	192.8	192.5	200.6	203.3	199.0	205.3	197.4	202.1	210.4	208.3	-1.0	8.5
HARDWARE	342	1.6	133.3	137.5	126.2	132.2	137.5	153.0	138.0	137.7	147.2	158.3	153.4	153.4		
STRUCTURAL METAL PROD.	344	3.5	129.0	128.9	123.7	131.4	129.7	138.6	124.8	133.7	138.0	137.1	140.6	140.6		
PASTERNS	345	1.2	137.8	141.4	127.1	129.6	130.5	143.5	128.5	130.9	138.5	146.0	146.1	143.8	-1.6	9.9
METAL STAMPINGS	346	3.1	132.8	134.1	125.6	137.1	142.4	157.9	143.6	143.0	159.7	156.8	157.2	151.6	-3.6	24.4
NONELECTRICAL MACHINERY	35	17.3	148.1	147.0	137.0	137.1	143.7	152.8	144.7	146.3	149.8	154.6	154.0	154.0		
ENGINES AND TURBINES	351	1.4	126.1	126.3	115.7	118.2	123.3	129.1	121.1	129.5	119.4	140.8	127.1	120.7	-5.1	6.9
FARM EQUIPMENT	352	1.2	82.9	79.8	71.7	73.3	67.5	71.6	70.1	62.8	71.6	76.8	66.4	66.3	-1	-9.1
CONSTRUCTION EQUIPMENT	353	3.0	146.2	145.6	119.0	110.7	113.0	123.4	114.9	118.3	125.7	123.4	121.2	120.3	-8	-3.2
METALWORKING MACHINERY	354	2.8	117.7	116.9	106.4	106.3	107.8	119.8	106.4	110.0	117.4	119.7	122.1	122.1		
SPECIAL INDUSTRY MACH.	355	1.5	126.0	123.9	121.7	129.7	136.2	145.1	133.1	138.6	139.6	146.3	149.4	149.4		
GENERAL INDUSTRIAL MACH.	356	2.7	133.7	131.5	125.6	129.0	133.8	145.3	135.7	134.4	141.5	147.1	147.3	146.2	-7	18.9
OFFICE AND COMPUTING MACH.	357	1.4	279.3	273.4	293.6	301.8	314.7	308.6	313.6	316.7	295.6	318.6	311.5	311.1	-1	11.9
SERVICE INDUSTRY MACH.	358	1.2	126.0	122.7	122.1	126.2	129.4	138.4	127.5	130.1	136.2	132.5	146.5	142.4	-2.8	19.4
ELECTRICAL MACHINERY	36	19.2	132.0	132.7	127.5	132.3	136.1	145.2	135.5	138.4	143.8	146.0	145.9	144.9	-7	15.7
ELECT. DISTRIBUTION EQ.	361	1.8	109.5	107.6	104.8	106.9	105.1	109.2	106.2	106.4	98.8	115.4	113.5	106.2	-6.4	5.9
ELECT. INDUST. APPARATUS	362	3.5	95.5	88.0	83.9	90.8	95.9	101.5	95.5	97.9	98.0	102.7	103.9	97.7	-5.9	20.8
HOME APPLIANCES	363	2.2	90.3	89.1	87.9	93.1	94.6	94.0	94.7	94.7	93.7	93.8	94.5	97.3	3.0	9.9
LIGHTING & WIRING PROD.	364	1.5	134.4	133.3	127.0	134.5	136.8	155.6	137.8	135.5	150.5	157.1	159.3	158.6	-5	24.7
RADIO AND TV SETS	365	.8	116.3	114.6	114.0	118.7	119.9	126.6	120.8	118.8	124.0	128.1	127.6	127.8	.2	13.8
COMMUNICATION EQUIP.	366	3.9	157.9	170.3	161.8	177.9	180.1	196.3	179.4	181.5	195.6	198.5	194.7	185.0	-5.0	19.7
ELECTRONIC COMPONENTS	367	4.2	187.3	188.6	186.2	189.9	191.2	200.9	187.6	193.1	202.1	202.9	197.8	204.7	3.5	12.7
TRANSPORTATION EQUIPMENT	37	23.6	112.5	116.6	106.6	111.8	118.6	129.1	118.3	121.8	127.0	130.8	129.6	127.2	-1.8	22.1
MOTOR VEHICLES AND PARTS	371	12.8	111.3	118.0	102.7	112.1	119.5	134.5	118.2	124.4	132.3	136.2	134.9	131.5	-2.5	31.4
AIRCRAFT AND PARTS	372	8.4	98.2	97.0	99.4	97.8	98.2	101.7	98.6	100.6	101.6	103.0	100.6	102.0	1.4	5.2
SHIPS AND BOATS	373	1.3	159.0	161.2	152.8	168.2	159.4	168.3	158.2	153.2	165.1	171.5	168.4	154.7	-8.2	1.4
INSTRUMENTS	38	3.1	175.2	175.3	173.2	181.5	175.7	186.3	173.8	177.2	184.6	187.1	187.2	183.1	-2.2	7.4
PHOTOGRAPHIC EQUIPMENT	386	1.4	171.1	168.9	169.1	182.0	168.9	173.5	165.2	169.8	171.9	170.6	178.1	166.9	-6.3	1.1
MISC. MANUFACTURES	39	2.5	142.5	137.6	133.8	140.4	144.7	149.7	144.9	144.8	148.5	152.4	148.4	146.0	-1.6	10.6
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	123.4	121.9	118.3	121.7	126.7	133.7	126.1	129.0	131.7	134.5	135.0	135.0		
ELECTRIC UTILITIES		462.6	133.3	133.7	127.4	131.1	136.8	146.7	135.8	140.5	144.8	14				

Table 9B—continued

ELECTRIC POWER USE BY INDUSTRIES

Not seasonally adjusted, 1967=100

SERIES	SIC (1967)	BILL. KWH. 1967	1982 AVG.	1982			1983			1983					PERCENT CHG. FROM PREV. MO. YR.	
				Q 3	Q 4	Q 1	Q 2	Q 3	MAY	JUNE	JULY	AUG	SEP	OCT	(P)	(P)
CHEMICALS AND PRODUCTS	28	116.8	116.6	116.3	113.5	115.0	121.5	125.1	121.1	123.1	123.1	125.9	126.2	131.4	4.1	14.1
BASIC CHEMICALS	281	96.4	102.4	100.9	101.1	102.7	106.2	107.8	106.6	106.3	106.2	108.8	108.4	115.4	6.5	13.4
ALKALIES AND CHLORINE	2812	12.3	130.0	125.1	126.6	131.8	141.2	148.3	142.5	140.2	142.5	151.3	151.3	149.1	-1.4	15.1
BASIC ORGANIC CHEM. NEC	2818	24.8	125.2	119.2	129.9	138.2	142.6	142.5	140.5	145.0	140.8	142.6	144.0	145.5	1.0	11.9
INORGANIC CHEM. NEC	2819	48.6	82.5	82.4	81.8	80.7	83.1	85.0	85.1	81.7	84.1	86.3	84.5	96.9	14.6	17.5
ACID AND FERT. MAT'LS.		18.8	82.2	81.7	80.1	80.5	86.3	87.3	89.1	85.5	85.1	89.2	87.7	92.2	5.1	13.9
ERDA		29.8	82.6	82.9	82.8	80.9	81.1	83.5	82.6	79.3	83.5	84.5	82.5	99.9	21.1	19.7
SYNTHETIC MATERIALS	282	12.1	172.2	177.4	159.5	162.2	189.4	203.6	182.8	201.3	201.4	203.8	205.8	203.3	-1.2	24.3
PLASTICS MATERIALS	2821	4.4	180.2	187.8	163.7	175.4	211.9	223.3	206.5	218.5	223.5	229.0	217.4	216.2	-6	30.4
OTHER SYNTHETICS	2822-4	7.7	167.8	171.7	157.1	155.1	177.1	193.0	170.0	191.9	189.4	190.1	199.4	196.3	-1.6	20.9
DRUGS	283	2.0	226.8	248.6	226.3	215.9	237.9	270.1	233.1	254.8	265.8	268.4	276.0	260.5	-5.6	10.6
SOAP AND TOILETRIES	284	1.0	147.4	154.9	146.8	144.6	150.6	172.1	152.9	156.2	161.0	175.8	179.6	169.9	-5.4	10.0
FARM CHEMICALS	287	2.7	153.2	152.3	137.0	134.9	143.8	133.5	149.4	140.1	134.6	131.4	134.4	141.8	5.5	2.8
PETROLEUM PRODUCTS	29	22.3	185.1	199.6	187.7	181.9	186.1	196.4	185.6	193.4	194.3	199.3	195.6	190.2	-2.8	-3
RUBBER AND PLASTICS PROD.	30	10.8	170.4	171.2	168.1	175.1	190.3	197.2	189.5	195.0	184.9	198.1	208.6	208.6	0.0	20.1
TIRES	301	3.2	99.0	97.4	96.4	97.9	107.9	109.5	107.8	111.4	102.2	112.7	113.5	115.1	1.4	15.9
RUBBER PRODUCTS NEC	306	2.3	115.3	114.2	112.6	116.2	122.2	126.3	121.1	125.1	117.9	126.9	134.1	131.7	-1.8	15.1
PLASTICS PRODUCTS NEC	307	4.8	248.1	250.1	245.0	259.2	285.6	297.6	285.1	292.3	279.9	296.6	316.3	315.7	-2	24.8
LEATHER AND PRODUCTS	31	1.3	107.8	108.8	103.6	106.6	107.0	112.2	99.6	111.9	102.1	117.4	117.1	110.7	-5.5	4.8
SHOES	314	.6	95.3	101.1	93.1	94.8	93.6	99.4	82.0	100.8	92.1	105.4	100.9	94.5	-6.3	-2.2
CLAY, GLASS, STONE PRODUCTS	32	20.8	133.5	136.8	131.9	122.5	137.1	145.3	137.0	140.5	142.3	145.8	147.8	148.1	.2	10.5
FLAT GLASS	321	1.2	101.8	106.3	99.6	97.7	102.5	104.5	101.9	104.1	99.0	105.8	108.7	114.6	5.4	8.0
PRESSED AND BLOWN GLASS	322	3.5	194.2	197.8	193.9	184.7	198.1	209.5	194.5	205.2	204.0	211.4	213.1	206.0	-3.3	5.6
CEMENT	324	8.4	99.3	104.7	98.7	79.2	100.5	110.7	103.3	103.4	109.7	112.1	110.3	112.1	1.6	10.7
STRUCTURAL CLAY PRODUCTS	325	1.3	82.1	81.6	83.0	80.9	93.6	97.7	92.8	97.3	94.4	97.6	101.1	104.2	3.1	25.1
CONCRETE PRODUCTS	327	2.3	159.3	160.1	158.5	163.0	180.4	193.3	176.6	186.8	188.8	196.2	194.7	199.3	2.3	25.2
PRIMARY METALS	33	132.0	90.2	84.3	80.6	83.6	89.5	92.8	91.6	89.6	90.2	94.1	94.1	96.1	2.2	17.2
BASIC STEEL & MILL PRGD.	331	54.4	76.9	68.7	64.0	72.2	79.5	77.1	82.4	76.7	75.7	79.2	76.5	79.4	3.8	18.3
IRON & STEEL FOUNDRIES	332	5.9	148.7	141.4	132.5	138.5	153.0	151.1	151.5	155.1	144.3	151.4	157.7	159.1	.8	12.5
PRIMARY NONFERROUS METALS	333	59.5	87.6	84.3	80.6	76.7	80.9	89.6	83.1	83.5	87.0	90.8	91.0	93.2	2.4	15.8
ALUMINIUM	3334	53.6	78.2	74.2	70.0	67.4	72.2	83.8	73.5	74.5	81.4	85.2	84.8	86.7	2.2	26.4
NONFERROUS MILL PRODUCTS	335	8.4	105.2	99.4	103.1	107.7	113.8	118.4	112.5	116.5	111.5	118.2	125.0	119.8	-4.2	15.3
NONFERROUS FOUNDRIES	336	1.4	146.3	138.6	135.7	133.5	147.9	153.3	146.7	151.2	145.7	152.1	161.9	163.7	1.1	18.5
FABRICATED METAL PRODUCTS	34	14.8	149.5	149.0	143.1	147.2	151.9	161.1	149.4	155.7	154.8	161.6	166.9			
METAL CANS	341	1.0	196.9	202.3	186.0	188.0	200.6	215.3	198.6	209.6	208.6	217.7	219.7	211.4	-3.8	8.5
HARDWARE	342	1.6	133.3	133.7	128.4	133.1	137.9	148.9	137.8	138.7	141.7	148.6	156.4			
STRUCTURAL METAL PROD.	344	3.5	129.0	126.4	125.1	132.1	129.9	135.9	125.9	133.1	131.8	136.7	139.1			
PASTERIES	345	1.2	137.8	138.1	126.9	131.5	132.1	140.2	129.0	132.9	131.0	141.3	148.3	146.8	-1.0	9.9
METAL STAMPINGS	346	3.1	132.8	132.1	125.7	136.8	144.3	155.6	145.1	145.5	151.0	156.1	159.7	158.3	-9	24.4
NONELECTRICAL MACHINERY	35	17.3	148.1	150.3	136.6	134.8	143.5	156.2	142.4	150.4	149.4	157.1	162.0			
MOTOR VEHICLES AND TRAILERS	351	1.4	126.1	126.1	116.0	116.4	124.7	129.0	122.4	133.2	120.2	135.3	131.3	126.4	-3.7	6.9
FARM EQUIPMENT	352	1.2	82.9	77.4	71.6	72.4	70.0	69.5	70.2	68.7	66.3	70.6	71.5	69.3	-3.0	-9.1
CONSTRUCTION EQUIPMENT	353	3.0	146.2	145.7	119.6	109.9	112.9	123.6	112.4	119.6	121.2	121.5	128.1	122.1	-4.7	-3.2
METALWORKING MACHINERY	354	2.8	117.7	116.1	106.3	107.2	107.6	119.0	104.9	110.8	113.5	118.4	125.3			
SPECIAL INDUSTRY MACH.	355	1.5	126.0	125.0	121.4	127.9	136.8	146.5	133.1	142.2	136.8	147.5	155.1			
GENERAL INDUSTRIAL MACH.	356	2.7	133.7	132.7	125.8	127.0	134.2	146.9	134.6	137.9	138.6	147.3	154.8	150.7	-2.6	18.9
OFFICE AND COMPUTING MACH.	357	1.4	279.3	294.9	292.1	282.5	310.8	332.8	302.3	331.3	316.9	344.4	337.0	327.9	-2.7	11.9
SERVICE INDUSTRY MACH.	358	1.2	126.0	129.0	119.1	120.6	131.5	145.6	128.2	139.1	145.4	135.3	156.1	146.8	-5.9	19.4
ELECTRICAL MACHINERY	36	19.2	132.0	136.7	127.3	128.5	136.5	149.3	135.1	143.0	144.2	148.9	154.6	150.9	-2.4	14.9
ELECT. DISTRIBUTION EQ.	361	1.8	109.5	110.6	103.7	103.6	106.2	112.3	104.8	110.2	104.1	113.9	118.8	112.5	-5.3	5.9
ELECT. INDUST. APPARATUS	362	3.5	95.5	88.4	83.4	89.6	97.2	102.0	97.2	100.5	97.4	103.2	105.4	102.0	-3.2	20.8
HOME APPLIANCES	363	2.2	90.3	90.4	86.8	92.0	95.6	95.4	96.4	98.0	94.4	91.4	100.4	101.2	.8	9.9
LIGHTING & WIRING PROD.	364	1.5	134.4	129.9	127.7	133.3	140.4	152.1	140.2	142.1	140.3	147.5	168.6	165.4	-1.9	24.7
RADIO AND TV SETS	365	.8	116.3	124.8	113.0	109.9	119.0	137.9	118.4	125.4	129.8	141.4	142.5	133.7	-6.2	13.8
COMMUNICATION EQUIP.	366	3.9	157.9	179.3	164.0	166.5	179.3	206.7	176.9	190.3	198.9	207.9	213.4	200.3	-6.1	19.7
ELECTRONIC COMPONENTS	367	4.2	187.3	200.5	184.6	179.0	191.4	213.6	187.2	202.8	209.1	215.3	216.4	214.1	-1.0	12.7
TRANSPORTATION EQUIPMENT	37	23.6	112.5	117.0	107.7	109.5	111.1	130.0	118.1	124.8	124.5	131.4	134.2	133.0	-.9	20.7
MOTOR VEHICLES AND PARTS	371	12.8	111.3	116.5	104.4	109.5	121.8	133.1	120.7	128.4	125.0	134.7	139.5	139.0	-.4	31.4
AIRCRAFT AND PARTS	372	8.4	98.2	101.7	98.7	93.6	98.1	106.7	98.0	102.6	106.2	107.6	106.3	105.7	-.6	5.2
SHIPS AND BOATS	373	1.3	159.0	160.8	152.3	171.0	157.4	167.9	152.2	154.5	162.4	172.4	168.8	156.4	-7.3	1.4
INSTRUMENTS	38	3.1	175.2	187.6	172.2	171.3	175.3	199.2	172.1	186.0	193.6	200.0	204.1	189.8	-7.0	6.4
PHOTOGRAPHIC EQUIPMENT	386	1.4	171.1	177.8	168.6	171.7	169.7	182.7	168.8	177.6	178.9	181.7	187.5	174.7	-6.8	1.1
MISC. MANUFACTURES	39	2.5	142.5	142.8	134.3	136.6	143.4	155.2	141.0	147.9	147.1	160.0	158.5	152.2	-4.0	9.6
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	123.4	122.2	118.7	119.9	127.7	134.1	127.7	130.8	130.3	135.4	136.5			
ELECTRIC UTILITIES		462.6	133.3	132.9	128.6	129.4	138.1	145.9	138.0							

Explanatory Note

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

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

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

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

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

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

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

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

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

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