

FEDERAL RESERVE



Industrial Production

INDUSTRIAL PRODUCTION
G.12.3

For release at 9:30 a.m. (E.S.T.)
February 17, 1982

Industrial production declined an estimated 3.0 percent in January reflecting continued economic weakness as well as sharply curtailed work schedules resulting from the severe January weather. Industrial output has fallen for 6 successive months and is now 9.6 percent below its high in July 1981. The total index for January, at 139.1 percent of the 1967 average, was almost one percent below its previous cyclical low in July 1980. Declines in January were again widespread with the largest drops occurring in the production of autos, construction supplies and durable and nondurable goods materials.

Market Groupings

Output of consumer goods fell 3.0 percent further in January. Auto assemblies, at a seasonally adjusted annual rate of 3.6 million units--the lowest rate in more than two decades--were about 22 percent below the December rate. Output of home goods declined 2.2 percent, as output of carpeting and furniture continued to drop. Production of consumer nondurable goods--which through December had declined less than 2 percent from its recent peak--fell 2.1 percent in January, in part reflecting substantial disruptions in work schedules, particularly in the apparel industry, because of winter storms. The output of business equipment, which had declined by an average of one percent in each of the last four months of 1981, dropped 2.3 percent in January; all of its major components weakened further. Output of construction supplies dropped 4.8 percent--partly because of weather disruptions--and was about 24 percent below its peak in January 1979. In contrast to the widespread declines, defense and space equipment production in January was about unchanged and 5.2 percent above a year earlier.

INDUSTRIAL PRODUCTION: MAJOR MARKET GROUPINGS
(Seasonally Adjusted)

Major Market Groupings	1967=100		Percentage change					Jan. 1982 from year earlier
	1981 Dec.(p)	1982 Jan.(e)	1981				1982	
			Sept.	Oct.	Nov.	Dec.	Jan.	
			From preceding month					
Total	143.4	139.1	-1.3	-1.7	-1.8	-2.1	-3.0	-8.1
Products, total	146.0	142.3	-1.0	-1.1	-1.2	-1.1	-2.5	-5.1
Final Products	145.8	142.3	-1.0	-.7	-1.2	-.9	-2.4	-3.7
Consumer Goods	142.3	138.1	-1.2	-.9	-1.6	-1.3	-3.0	-6.0
Durable	123.7	116.9	-1.5	-2.9	-4.8	-4.6	-5.5	-16.6
Nondurable	149.8	146.6	-1.1	-.2	-.3	-.1	-2.1	-2.0
Business Equipment	177.0	172.9	-.9	-1.2	-1.1	-.9	-2.3	-2.7
Defense and Space	106.0	106.1	.2	1.5	.6	.9	.1	5.2
Intermediate Products	146.9	142.5	-1.4	-2.1	-1.5	-1.5	-3.0	-9.5
Construction Supplies	128.2	122.0	-3.0	-3.2	-3.4	-1.8	-4.8	-17.8
Materials	139.3	134.1	-1.7	-2.6	-2.6	-3.7	-3.7	-12.8

p--preliminary e--estimate

Materials output declined by 3.7 percent again in January; it has fallen almost 14 percent since last July. Production of durable goods materials dropped almost 5 percent last month, as particularly large declines occurred in the output of basic metals and parts for consumer durables. Production of nondurable goods materials, such as chemicals and textiles, also was curtailed sharply. Energy materials output edged up slightly.

Industry Groupings

Manufacturing output fell 3.4 percent in January and was 9.3 percent below its level a year earlier. Production by durable goods industries dropped 3.8 percent and that by nondurable goods producers declined 2.8 percent. Mining output was reduced slightly further. In contrast, utilities production edged up, with residential use increasing while industrial demand fell.

INDUSTRIAL PRODUCTION: MAJOR INDUSTRY GROUPINGS
(Seasonally Adjusted)

Major Industry Groupings	1967=100		Percentage change					Jan. 1982 from year earlier
	1981	1982	1981				1982	
	Dec.(p)	Jan.(e)	Sep.	Oct.	Nov.	Dec.	Jan.	
			From preceding month					
Manufacturing	141.9	137.1	-1.4	-2.1	-1.9	-2.3	-3.4	-9.3
Durable	131.0	126.0	-1.7	-2.2	-2.4	-2.6	-3.8	-10.6
Nondurable	157.6	153.2	-.8	-1.9	-1.4	-1.9	-2.8	-7.5
Mining	142.2	141.7	-.7	.2	-1.1	-1.0	-.4	.9
Utilities	167.5	167.9	-2.4	.2	.5	-.8	.2	.2

p--preliminary e--estimate

FEDERAL RESERVE

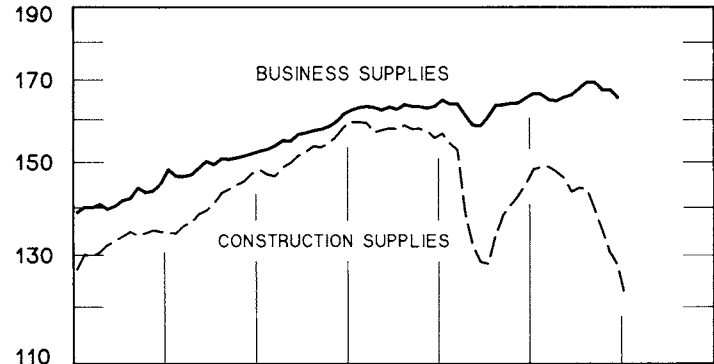
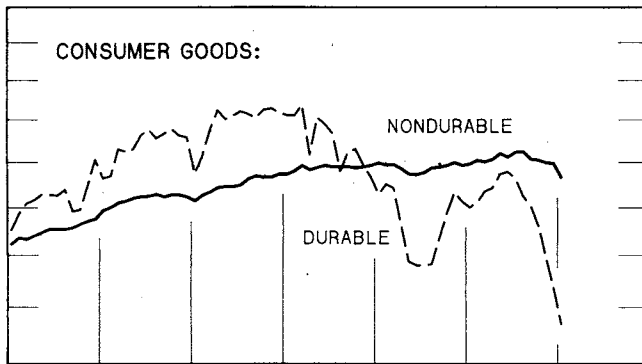
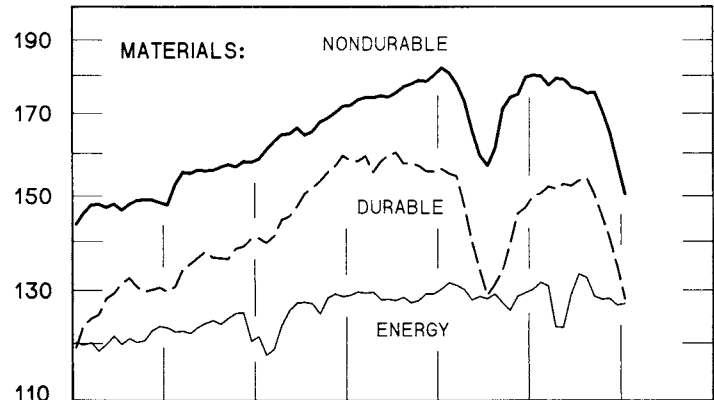
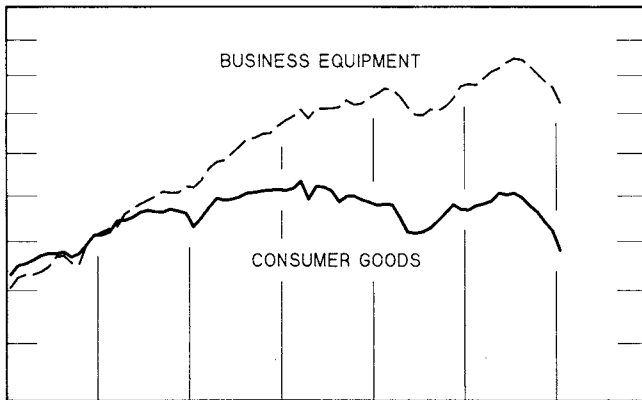
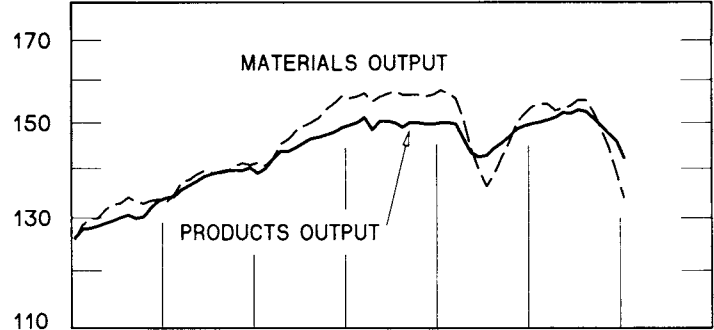
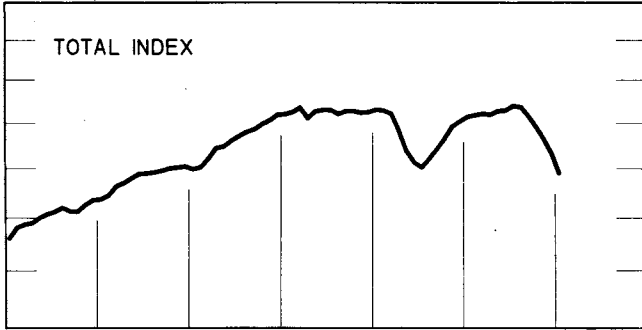


Industrial Production

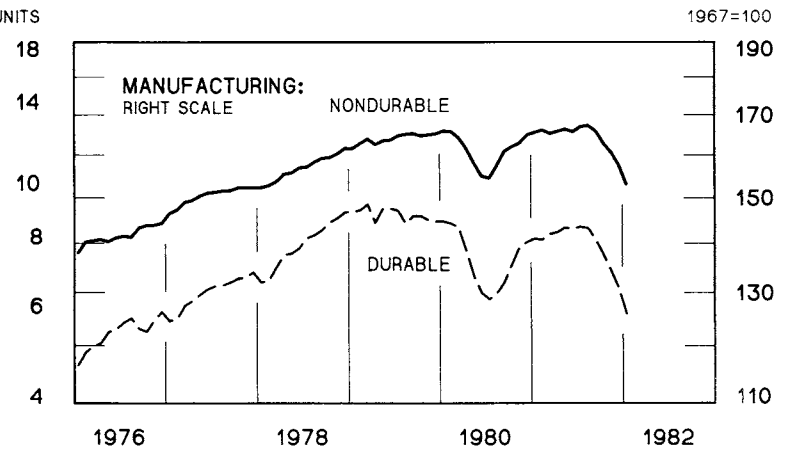
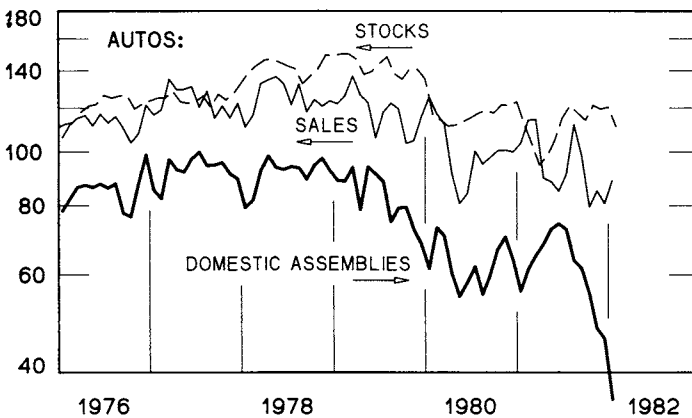
INDUSTRIAL PRODUCTION

JANUARY DATA

SEASONALLY ADJUSTED, RATIO SCALE, 1967=100



1969-70=100 ANNUAL RATE, MILLIONS OF UNITS



AUTOS: SALES AND STOCKS INCLUDE IMPORTS

Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPINGS

Seasonally adjusted, 1967=100

MAJOR MARKET GROUPINGS	1967		1981 AVG.	1981											
	PRO-1 TION	1981 AVG.		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
TOTAL INDEX	100.00	151.0	151.4	151.8	152.1	151.9	152.7	152.9	153.9	153.6	151.6	149.1	146.4	143.4	139.1
PRODUCTS, TOTAL	60.71	150.6	149.9	150.2	150.7	151.3	152.3	152.2	153.0	152.6	151.0	149.4	147.6	146.0	142.3
FINAL PRODUCTS	47.82	149.5	147.8	148.2	149.0	149.9	151.3	151.4	152.1	151.5	150.0	148.9	147.1	145.8	142.3
CONSUMER GOODS	27.68	147.9	146.9	147.8	148.3	148.9	150.7	150.3	150.7	149.6	147.8	146.5	144.2	142.3	138.1
EQUIPMENT	20.14	151.7	149.1	148.7	150.0	151.4	152.1	153.0	154.1	154.0	152.9	152.1	151.2	150.5	148.0
INTERMEDIATE PRODUCTS	12.89	154.6	157.5	157.7	157.1	156.3	156.1	154.9	156.2	156.8	154.6	151.4	149.2	146.9	142.5
MATERIALS	39.29	151.6	153.8	154.3	154.4	152.9	153.4	154.0	155.3	155.2	152.5	148.5	144.6	139.3	134.1
CONSUMER GOODS															
DURABLE CONSUMER GOODS	7.89	140.5	140.1	141.2	143.6	144.3	147.3	147.9	146.5	142.5	140.4	136.3	129.7	123.7	116.9
AUTOMOTIVE PRODUCTS	2.83	138.0	130.4	133.9	139.2	142.9	151.8	153.1	147.6	137.6	139.1	132.8	121.7	120.1	106.4
AUTOS & UTILITY VEHICLES	2.03	111.2	102.7	108.5	116.1	120.2	129.1	131.4	123.0	107.8	110.0	101.7	88.9	87.5	70.4
AUTOS, TOTAL	1.90	103.4	93.3	101.1	107.8	113.2	120.0	122.2	118.1	104.0	103.3	92.5	81.1	78.1	61.3
AUTO PARTS & ALLIED GOODS	.80	205.9	200.8	198.4	197.5	200.8	209.5	208.0	210.0	213.1	212.9	211.8	205.0	203.1	197.7
HOME GOODS	5.06	142.0	145.6	145.2	146.1	145.0	144.8	145.0	145.8	145.3	141.1	138.2	134.3	125.6	122.9
APPLIANCES, AIR COND & TV	1.40	119.7	132.2	125.8	129.1	121.2	121.4	120.0	123.6	126.8	119.0	116.7	107.7	86.1	88.4
APPLIANCES AND TV	1.33	121.2	134.1	128.2	131.2	122.6	122.3	121.4	124.8	128.9	121.4	118.7	108.7	87.1	
CARPETING AND FURNITURE	1.07	158.0	156.2	160.4	160.2	165.2	163.1	166.3	163.2	160.1	158.6	152.6	148.0	142.5	
MISC. HOME GOODS	2.59	147.5	148.4	149.5	149.4	149.7	149.9	149.8	150.7	149.2	145.8	143.9	143.0	140.1	136.5
NONDURABLE CONSUMER GOODS	19.79	150.9	149.6	150.5	150.1	150.7	152.1	151.2	152.3	152.5	150.8	150.5	150.0	149.8	146.6
CLOTHING	4.29		121.2	120.9	118.9	120.6	122.1	120.9	122.8	121.9	119.3	117.8	116.4		
CONSUMER STAPLES	15.50	159.5	157.5	158.6	158.8	159.0	160.3	159.6	160.5	161.0	159.5	159.6	159.3	159.5	157.6
CONSUMER FOODS & TOBACCO	8.33	150.4	149.3	150.5	150.5	150.2	151.3	149.6	150.5	150.6	145.5	150.7	150.7	151.3	
NONFOOD STAPLES	7.17	170.1	167.0	168.1	168.4	169.3	170.8	171.3	172.2	173.0	171.1	169.9	169.3	169.0	167.5
CONSUMER CHEMICAL PROD	2.63	223.2	213.0	219.3	222.0	224.1	225.1	224.4	226.8	227.7	227.5	223.0	220.9	220.5	218.4
CONSUMER PAPER PRODUCTS	1.92	127.8	127.9	129.0	128.7	127.4	127.7	129.2	127.6	128.9	127.7	126.9	125.7	125.3	125.3
CONSUMER ENERGY PROD	2.62	147.8	145.4	145.4	143.7	144.9	147.9	148.9	150.0	150.4	146.4	148.2	149.4	149.3	
RESIDENTIAL UTILITIES	1.45		167.5	161.3	161.1	162.9	168.9	170.4	172.6	169.7	162.8	166.2	167.4		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	180.9	177.7	177.5	179.3	181.0	182.0	183.6	184.8	184.4	182.7	180.5	178.6	177.0	172.9
INDUSTRIAL EQUIPMENT	6.77	166.4	161.5	163.4	164.6	165.9	167.0	169.0	169.4	170.2	168.9	166.9	165.2	163.5	160.1
BUILDING AND MINING EQUIP	1.44	285.9	264.0	270.4	276.6	281.7	286.4	289.7	290.3	293.0	293.6	295.6	292.8	292.6	289.4
MANUFACTURING EQUIPMENT	3.85	127.9	127.7	128.4	128.6	128.5	128.4	130.6	130.8	130.8	129.3	125.7	123.9	121.9	118.6
POWER EQUIPMENT	1.47	149.8	149.1	149.9	149.3	149.9	150.8	151.2	151.6	152.7	150.4	148.4	148.0	145.9	142.1
COM'L, TRANSIT, FARM EQ	5.86	197.7	196.6	193.7	196.2	198.6	199.4	200.4	202.5	200.9	198.5	196.2	194.1	192.5	187.6
COMMERCIAL EQUIPMENT	3.26	258.1	249.3	250.4	252.7	254.5	258.0	259.9	263.7	264.3	264.2	259.8	259.0	256.9	251.1
TRANSIT EQUIPMENT	1.93	125.3	133.1	124.8	127.8	131.5	130.0	129.7	128.4	124.6	121.0	120.6	116.6	116.3	113.0
FARM EQUIPMENT	.67	112.0	122.9	116.4	118.5	119.7	113.9	114.9	118.0	111.8	102.1	104.6	101.7	99.1	
DEFENSE AND SPACE EQUIPMENT	7.51	102.6	100.9	100.5	100.7	101.5	102.0	101.7	102.6	102.8	103.0	104.5	105.1	106.0	106.1
INTERMEDIATE PRODUCTS															
CONSTRUCTION SUPPLIES	6.42	142.1	148.4	148.9	149.0	147.9	146.5	143.4	144.3	144.0	139.7	135.2	130.6	128.2	122.0
BUSINESS SUPPLIES	6.47	167.0	166.6	166.4	165.1	164.7	165.6	166.2	168.0	169.5	169.4	167.5	167.5	165.6	165.6
COMMERCIAL ENERGY PRODUCTS	1.14	176.3	175.5	174.0	174.7	175.2	179.0	177.7	180.0	176.6	174.2	174.3	176.0	176.8	
MATERIALS															
DURABLE GOODS MATERIALS	20.35	149.2	150.0	150.6	152.2	151.8	152.8	152.4	153.6	154.3	150.4	145.6	140.8	134.9	128.4
DURABLE CONSUMER PARTS	4.58	114.5	114.7	114.3	118.4	119.7	121.1	123.1	123.2	121.8	114.5	107.6	102.5	93.6	82.6
EQUIPMENT PARTS	5.44	191.2	189.7	188.9	191.1	192.8	194.0	193.2	193.8	194.7	192.7	190.3	188.0	183.9	178.9
DURABLE MATERIALS NEC	10.34	142.4	144.7	146.6	146.7	144.3	145.1	143.9	145.9	147.4	144.1	138.9	132.9	127.5	122.1
BASIC METAL MATERIALS	5.57	112.0	116.6	118.6	118.3	113.8	114.3	112.8	114.5	117.4	113.1	106.5	101.6	94.7	
NONDURABLE GOODS MATERIALS	10.47	174.6	180.2	179.9	177.5	179.3	179.0	176.9	176.5	175.4	175.5	170.6	165.1	157.6	150.5
TEXTILE, PAPER, & CHEM MAT	7.62	181.3	187.6	187.3	185.1	186.8	187.3	183.7	183.5	182.4	182.5	176.4	170.4	160.6	153.6
TEXTILE MATERIALS	1.85	113.0	114.8	115.1	114.4	115.1	114.9	113.4	115.5	116.0	114.9	111.6	107.2	101.9	
PAPER MATERIALS	1.62	150.7	150.5	151.0	152.6	152.2	150.9	149.8	150.0	151.5	155.1	149.6	149.6	143.2	
CHEMICAL MATERIALS	4.15	223.8	234.7	233.8	229.5	232.4	233.9	228.4	227.1	224.1	223.4	215.9	206.8	193.6	
CONTAINERS, NONDURABLE	1.70	169.4	173.0	172.3	168.7	172.0	167.8	171.4	171.7	169.4	170.9	166.7	163.5	162.2	
NONDURABLE MATERIALS NEC	1.14	137.6	141.0	141.8	139.6	139.7	140.5	139.6	136.6	137.8	136.2	137.1	131.9	130.6	
ENERGY MATERIALS	8.48	129.0	130.2	131.6	130.9	123.1	123.0	129.3	133.3	132.6	128.9	128.3	128.5	127.2	127.5
PRIMARY ENERGY	4.65	114.9	115.8	118.2	116.9	104.2	104.4	113.7	120.3	120.9	117.4	116.4	116.2	114.8	
CONVERTED FUEL MATERIALS	3.82	146.1	147.8	148.0	148.1	146.1	145.5	148.2	149.2	146.9	142.9	142.8	143.4	142.4	
SUPPLEMENTARY GROUPS															
HOME GOODS AND CLOTHING	9.35	131.8	134.4	134.1	133.6	133.8	134.4	133.9	135.2	134.5	131.1	128.8	126.1	120.6	115.5
ENERGY, TOTAL	12.23	137.4	138.5	138.5	137.7	132.6	133.5	138.0	141.2	140.5	136.8	136.9	137.4	136.6	136.5
PRODUCTS	3.76	156.4	157.3	154.0	153.1	154.1	157.3	157.6	159.1	158.4	154.8	156.1	157.5	157.6	
MATERIALS	8.48	129.0	130.2	131.6	130.9	123.1	123.0	129.3	133.3	132.6	128.9	128.3	128.5	127.2	127.5

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

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

MAJOR MARKET GROUPINGS	1967	1981	1981												1982
	PRO- POR- TON	AVG.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.
TOTAL INDEX	100.00	151.0	146.4	151.7	152.7	151.5	152.6	156.5	151.0	155.4	155.8	152.4	146.5	139.3	134.6
PRODUCTS, TOTAL	60.71	150.6	143.9	149.3	150.2	149.5	150.9	156.0	151.5	156.0	157.6	153.8	147.6	140.7	136.8
FINAL PRODUCTS	47.82	149.5	142.7	148.0	148.9	148.0	149.5	155.0	150.1	154.4	156.5	153.3	147.2	140.5	137.5
CONSUMER GOODS	27.68	147.9	140.8	147.0	148.1	147.2	148.4	154.4	147.7	154.7	156.2	152.5	147.7	134.6	132.5
EQUIPMENT	20.14	151.7	145.3	149.4	149.9	149.1	151.0	155.9	153.3	154.0	157.0	154.4	152.2	148.7	144.3
INTERMEDIATE PRODUCTS	12.89	154.6	148.1	154.1	155.1	155.2	155.9	159.7	156.9	162.0	161.5	155.9	149.1	141.4	134.2
MATERIALS	39.29	151.6	150.4	155.4	156.7	154.5	155.1	157.2	150.2	154.3	153.2	150.1	144.8	137.0	131.4
<u>CONSUMER GOODS</u>															
DURABLE CONSUMER GOODS	7.89	140.5	134.1	142.8	148.3	148.3	150.5	153.6	134.8	137.4	142.4	145.0	131.7	117.2	112.1
AUTOMOTIVE PRODUCTS	2.83	138.0	127.1	136.8	149.7	153.1	160.6	163.3	128.4	122.0	132.5	145.1	126.3	110.8	104.3
AUTOS & UTILITY VEHICLES	2.03	111.2	99.1	111.0	130.1	134.7	144.1	147.7	100.5	84.9	97.2	115.5	94.5	74.9	68.6
AUTOS, TOTAL	1.90	103.4	90.0	102.9	121.3	127.4	135.6	137.8	95.1	81.4	89.8	105.4	86.8	67.3	59.9
AUTO PARTS & ALLIED GOODS	.80	205.9	198.0	202.4	199.3	199.6	202.6	202.8	199.4	216.2	221.9	220.1	207.0	202.0	194.9
HOME GOODS	5.06	142.0	138.1	146.2	147.5	145.7	144.9	148.2	138.4	146.0	148.0	145.0	134.8	120.9	116.5
APPLIANCES, AIR COND & TV	1.40	119.7	125.4	132.0	136.8	129.7	127.0	124.6	112.5	120.6	124.2	126.7	103.8	72.5	83.8
APPLIANCES AND TV	1.33	121.2	126.5	133.2	136.4	128.7	126.0	125.4	114.2	125.3	128.7	130.6	106.0	73.7	
CARPETING AND FURNITURE	1.07	158.0	149.6	164.1	163.5	163.9	160.4	166.8	146.3	161.2	166.3	160.2	151.1	142.0	
MISC. HOME GOODS	2.59	147.5	140.1	146.5	146.8	146.8	148.1	153.3	149.3	153.5	153.3	148.6	144.9	138.4	128.9
NONDURABLE CONSUMER GOODS	19.79	150.9	143.5	148.7	148.0	146.7	147.6	154.8	152.9	161.6	161.7	155.5	148.4	141.5	140.7
CLOTHING	4.29		113.1	125.1	124.3	123.6	121.9	129.3	109.7	128.5	128.9	122.3	113.1		
CONSUMER STAPLES	15.50	159.5	151.9	155.2	154.6	153.1	154.8	161.9	164.8	170.8	170.7	164.7	158.2	153.3	152.0
CONSUMER FOODS & TOBACCO	8.33	150.4	140.9	145.9	147.5	146.5	148.1	151.9	149.4	158.8	161.0	159.0	151.9	143.4	
NONFOOD STAPLES	7.17	170.1	164.6	166.0	162.7	160.8	162.5	173.4	182.6	184.6	182.0	171.2	165.5	164.7	165.1
CONSUMER CHEMICAL PROD	2.63	223.2	197.1	208.0	212.5	215.2	220.9	234.5	242.8	240.4	245.9	232.1	220.0	208.6	
CONSUMER PAPER PRODUCTS	1.92	127.8	120.2	124.9	124.1	122.8	124.1	131.3	133.8	139.8	137.5	131.5	124.2	118.9	
CONSUMER ENERGY PROD	2.62	147.8	164.5	154.0	141.1	134.0	131.9	142.9	158.0	161.5	150.5	139.3	141.0	154.3	
RESIDENTIAL UTILITIES	1.45		192.4	177.1	160.5	147.4	142.9	158.7	186.9	187.8	169.7	152.4	149.9		
EQUIPMENT															
BUSINESS EQUIPMENT	12.63	180.9	172.0	178.4	179.0	178.0	180.2	187.5	184.1	184.9	189.2	184.5	180.0	173.3	167.2
INDUSTRIAL EQUIPMENT	6.77	166.4	157.5	164.4	164.6	163.5	164.3	170.6	167.2	170.4	173.6	170.5	167.5	162.9	156.2
BUILDING AND MINING EQUIP	1.44	265.9	258.4	271.7	274.3	276.9	280.6	288.5	286.1	293.9	301.1	302.2	299.7	297.5	283.3
MANUFACTURING EQUIPMENT	3.85	127.9	124.5	130.5	129.3	126.9	126.3	132.3	128.9	131.5	132.8	127.8	125.0	119.3	115.6
POWER EQUIPMENT	1.47	149.8	144.5	147.7	149.1	147.8	149.8	155.2	150.8	150.8	155.1	153.1	149.0	144.8	137.8
COM'L, TRANSIT, FARM EQ	5.86	197.7	188.7	194.5	195.7	194.7	198.5	206.9	203.5	201.6	207.3	200.5	194.5	185.4	179.8
COMMERCIAL EQUIPMENT	3.26	258.1	235.5	247.1	245.1	247.1	254.9	268.2	273.4	274.1	279.7	265.5	260.2	246.2	237.2
TRANSIT EQUIPMENT	1.93	125.3	133.4	130.4	135.4	131.5	132.1	133.2	118.9	114.9	119.8	122.9	117.2	114.0	113.2
FARM EQUIPMENT	.67	112.0	120.4	123.2	128.6	122.3	115.4	121.3	106.8	98.7	107.3	108.0	97.1	95.1	
DEFENSE AND SPACE EQUIPMENT	7.51	102.6	100.6	100.7	101.1	100.7	102.1	102.7	101.5	102.1	102.7	103.8	105.4	107.3	105.8
<u>INTERMEDIATE PRODUCTS</u>															
CONSTRUCTION SUPPLIES	6.42	142.1	138.1	146.3	148.4	150.2	149.2	149.1	142.1	145.3	143.4	139.6	131.2	122.3	113.0
BUSINESS SUPPLIES	6.47	167.0	158.0	161.9	161.7	160.1	162.7	170.2	171.5	178.7	179.5	172.2	166.9	160.4	
COMMERCIAL ENERGY PRODUCTS	1.14	176.3	174.6	170.7	168.0	162.4	169.1	181.6	195.3	196.1	187.2	173.9	166.9	169.9	
<u>MATERIALS</u>															
DURABLE GOODS MATERIALS	20.35	149.2	144.6	150.6	154.7	154.0	156.2	156.1	148.0	151.6	151.9	147.9	141.0	133.5	123.8
DURABLE CONSUMER PARTS	4.58	114.5	113.0	114.7	119.9	121.2	123.4	124.6	116.2	116.7	115.0	109.8	104.1	95.1	81.4
EQUIPMENT PARTS	5.44	191.2	187.8	188.7	191.5	195.1	194.7	188.1	191.8	194.5	192.7	189.9	187.5	177.1	
DURABLE MATERIALS NEC	10.34	142.4	135.8	146.5	150.8	148.7	156.2	149.8	141.0	145.9	145.8	141.2	131.5	122.1	114.5
BASIC METAL MATERIALS	5.57	112.0	111.9	120.1	126.0	122.0	123.4	118.6	107.0	112.1	111.4	106.0	96.9	88.9	
NONDURABLE GOODS MATERIALS	10.47	174.6	175.5	181.4	180.6	182.6	181.0	181.5	169.2	175.6	175.8	174.2	166.4	151.0	146.7
TEXTILE, PAPER, & CHEM MAT	7.62	181.3	182.2	188.7	188.4	191.6	189.9	189.1	176.7	182.7	182.7	177.8	171.3	154.3	149.2
TEXTILE MATERIALS	1.85	113.0	110.5	116.2	114.6	116.8	118.6	119.8	100.7	120.4	118.4	117.9	107.8	94.2	
PAPER MATERIALS	1.62	150.7	148.6	156.2	160.2	157.8	154.7	155.4	140.7	153.0	150.9	150.8	149.4	130.1	
CHEMICAL MATERIALS	4.15	223.8	227.4	233.8	232.5	238.2	236.0	233.2	224.7	222.1	223.9	215.1	208.2	190.5	
CONTAINERS, NONDURABLE	1.70	169.4	165.3	176.1	174.1	174.1	170.5	178.5	166.5	174.7	173.9	174.6	159.8	144.2	
NONDURABLE MATERIALS NEC	1.14	137.6	145.5	140.6	138.2	135.3	137.0	135.2	123.7	130.2	132.7	149.1	143.7	139.7	
ENERGY MATERIALS	8.48	129.0	133.5	134.8	132.0	121.2	120.7	129.8	132.0	134.6	128.2	125.8	127.5	128.2	130.7
PRIMARY ENERGY	4.65	114.9	114.4	119.1	117.9	105.2	105.6	115.2	116.0	121.0	117.8	115.9	116.8	114.1	
CONVERTED FUEL MATERIALS	3.82	146.1	156.5	153.8	149.1	140.6	139.0	147.5	151.2	151.0	140.8	137.8	140.5	145.2	
<u>SUPPLEMENTARY GROUPS</u>															
HOME GOODS AND CLOTHING	9.35	131.8	126.6	136.5	136.8	135.6	134.3	139.5	125.3	138.0	139.2	134.5	124.8	110.7	108.8
ENERGY, TOTAL	12.23	137.4	143.9	142.2	137.3	127.7	127.6	137.4	143.4	146.1	138.5	133.2	134.0	137.6	141.9
PRODUCTS	3.76	156.4	167.6	159.1	149.3	142.6	143.2	154.6	169.3	172.1	161.6	149.8	148.8	159.0	
MATERIALS	8.48	129.0	133.5	134.8	132.0	121.2	120.7	129.8	132.0	134.6	128.2	125.8	127.5	128.2	130.7

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

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

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967	1981	1981												1982
		PRO- POR- TION	AVG.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.
MINING AND UTILITIES																
MINING		12.05	155.0	153.3	154.1	154.8	150.5	152.1	156.3	159.1	158.2	155.8	156.1	155.6	154.2	154.1
UTILITIES		6.36	142.2	140.4	143.1	143.2	135.2	135.4	141.7	146.5	146.0	145.0	145.3	143.7	142.2	141.7
MANUFACTURING																
NONDURABLE		87.95	150.4	151.1	151.2	151.6	152.0	152.8	152.4	153.2	153.2	151.1	148.0	145.2	141.9	137.1
DURABLE		35.97	164.8	165.6	166.2	165.3	165.9	166.4	165.8	167.1	167.3	165.9	162.8	160.6	157.6	153.2
		51.98	140.5	141.0	140.8	142.1	142.5	143.5	143.2	143.6	143.4	140.9	137.8	134.5	131.0	126.0
MINING																
METAL MINING	10	.51	123.0	125.5	134.1	131.1	123.1	125.0	123.5	123.6	124.1	121.5	119.8	114.8	109.4	
COAL	11,12	.69	141.3	147.5	159.0	151.2	75.9	77.0	122.9	170.0	167.4	161.9	166.9	160.8	145.5	144.7
OIL AND GAS EXTRACTION	13	4.40	146.8	141.4	142.2	144.1	146.1	146.2	148.2	147.7	148.2	148.8	148.9	149.1	150.3	150.9
STONE AND EARTH MINERALS	14	.75	129.2	138.4	140.0	138.8	133.7	132.2	132.7	133.3	128.2	123.4	122.0	116.7	114.2	
NONDURABLE MANUFACTURES																
FOODS																
TOBACCO PRODUCTS	20	8.75	152.0	151.9	152.5	152.4	151.9	152.2	151.3	151.6	151.9	150.7	151.4	152.7	152.0	
TEXTILE MILL PRODUCTS	22	2.68	135.8	138.4	139.3	136.2	138.9	138.8	138.3	139.4	140.7	136.3	132.5	126.3	123.2	
APPAREL PRODUCTS	23	3.31		123.6	121.6	120.2	121.6	122.6	121.1	122.6	122.6	122.5	117.8	114.4		
PAPER AND PRODUCTS	26	3.21	155.0	156.5	156.0	157.6	157.0	155.9	153.4	154.9	156.7	158.6	153.3	152.3	146.1	142.9
PRINTING AND PUBLISHING																
CHEMICALS AND PRODUCTS	27	4.72	144.4	143.9	144.8	142.7	141.6	141.3	143.1	144.4	146.1	145.9	145.6	144.7	146.3	143.7
PETROLEUM PRODUCTS	28	7.74	125.6	128.9	219.8	218.5	219.8	220.6	218.4	221.5	219.2	216.3	208.8	205.2	198.8	
RUBBER & PLASTICS PRODUCTS	29	1.79	129.8	133.1	131.5	130.3	130.0	129.8	129.3	128.7	130.4	129.1	128.3	128.2	128.9	125.0
LEATHER AND PRODUCTS	30	2.24	174.3	164.0	270.2	269.5	275.2	280.3	285.1	285.3	286.7	282.2	276.0	263.5	252.0	
	31	.86	69.3	68.9	68.3	68.8	68.9	69.8	68.4	70.1	69.6	69.7	71.2	70.8	66.5	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	81.1	78.6	78.4	78.5	79.8	80.9	80.9	80.6	81.8	82.3	82.5	83.8	85.3	85.9
LUMBER AND PRODUCTS	24	1.64	118.8	127.4	126.2	125.6	126.3	126.2	122.5	122.9	119.1	113.2	109.6	104.8	101.8	
FURNITURE AND FIXTURES	25	1.37	157.4	150.0	154.3	155.6	158.7	158.9	162.4	164.9	163.3	159.9	157.2	154.5	150.8	
CLAY, GLASS, STONE PROD	32	2.74	148.0	156.8	156.4	154.6	154.3	151.7	148.1	148.7	148.2	147.3	143.4	135.8	133.4	
PRIMARY METALS																
IRON AND STEEL	33,1,2	6.57	107.9	114.1	114.5	114.9	110.6	111.9	107.4	109.4	113.1	108.6	102.3	96.7	88.8	83.0
FABRICATED METAL PROD	34	5.93	136.5	135.8	137.6	139.2	139.5	138.4	139.3	140.1	140.0	136.8	133.8	130.5	126.6	121.2
NONELECTRICAL MACHINERY	35	9.15	171.0	167.3	168.3	169.2	169.7	172.1	174.1	176.7	176.4	173.9	169.7	167.9	164.8	160.0
ELECTRICAL MACHINERY	36	8.95	178.6	177.6	174.9	177.4	178.8	179.9	180.1	180.9	182.6	180.0	179.6	176.3	172.2	168.3
TRANSPORTATION EQUIP																
MOTOR VEHICLES & PHS	37,1	9.27	116.1	117.4	116.1	119.5	121.3	123.7	123.4	119.8	115.4	114.2	110.6	106.1	103.6	97.3
AEROSPACE & MISC	37,2-9	4.50	122.3	120.0	119.9	127.1	130.7	136.4	137.5	130.5	123.1	120.4	113.8	105.5	100.7	90.2
INSTRUMENTS	38	2.11	170.1	173.9	171.1	170.0	170.0	170.6	171.3	172.1	172.3	169.7	168.6	167.2	164.0	159.9
MISCELLANEOUS MFRS	39	1.51	154.9	152.9	154.9	155.4	157.3	157.0	158.8	159.4	158.6	154.2	151.5	151.7	149.0	142.3
UTILITIES																
ELECTRIC		3.88	191.0	189.3	187.1	188.9	188.6	192.9	195.6	196.2	194.2	188.3	189.4	190.9	189.3	189.7

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

	1981												1982
	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	
CHANGE FROM PREVIOUS MONTH													
TOTAL INDEX	.3	.2	-.1	.5	.1	.7	-.2	-1.3	-1.7	-1.8	-2.1	-3.0	
FINAL PRODUCTS	.3	.5	.6	.9	.1	.5	-.4	-1.0	-.7	-1.2	-.9	-2.4	
CONSUMER GOODS	.6	.3	.4	1.2	-.3	.3	-.7	-1.2	-.9	-1.6	-1.3	-3.0	
DURABLE CONSUMER GOODS	.8	1.7	.5	2.1	.4	-.9	-2.7	-1.5	-2.9	-4.8	-4.6	-5.5	
NONDURABLE CONSUMER GOODS	.6	-.3	.4	.9	-.6	.7	.1	-1.1	-.2	-.3	-.1	-2.1	
BUSINESS EQUIPMENT	-.1	1.0	.9	.6	.9	.7	-.2	-.9	-1.2	-1.1	-.9	-2.3	
INTERMEDIATE PRODUCTS	.1	-.4	-.5	-.1	-.8	.8	.4	-1.4	-2.1	-1.5	-1.5	-3.0	
MATERIALS	.3	.1	-1.0	.3	.4	.8	-.1	-1.7	-2.6	-2.6	-3.7	-3.7	
DURABLE GOODS MATERIALS	.4	1.1	-.3	.7	-.3	.8	.5	-2.5	-3.2	-3.3	-4.2	-4.8	
NONDURABLE GOODS MATERIALS	-.2	-1.3	1.0	-.2	-1.2	-.2	-.6	.1	-2.8	-3.2	-4.5	-4.5	
MANUFACTURING													
NONDURABLE	.1	.3	.3	.5	-.3	.5	.0	-1.4	-2.1	-1.9	-2.3	-3.4	
DURABLE	.4	-.5	.4	.3	-.4	.8	.1	-.8	-1.9	-1.4	-1.9	-2.8	
MINING AND UTILITIES	-.1	.9	.3	.7	-.2	.3	-.1	-1.7	-2.2	-2.4	-2.6	-3.8	
	.5	.5	-2.8	1.1	2.8	1.8	-.6	-1.5	.2	-.3	-.9	-.1	
CHANGE FROM SAME MONTH A YEAR AGO													
TOTAL INDEX	-.7	.0	2.5	6.2	8.1	9.7	8.0	5.0	1.7	-1.9	-4.7	-8.1	
FINAL PRODUCTS	.3	1.0	3.1	5.9	6.5	6.8	5.7	4.1	2.2	-.2	-1.4	-3.7	
CONSUMER GOODS	-.3	.2	2.5	6.1	6.0	6.1	4.7	2.3	.1	-2.6	-3.3	-6.0	
DURABLE CONSUMER GOODS	-2.7	-.5	5.7	14.4	15.5	14.5	11.1	5.2	-1.9	-9.6	-12.5	-16.6	
NONDURABLE CONSUMER GOODS	.7	.4	1.4	3.2	2.7	3.1	2.6	1.3	.8	.0	-.3	-2.0	
BUSINESS EQUIPMENT	.6	1.8	3.7	5.9	8.2	9.0	7.8	7.0	5.0	2.7	-.1	-2.7	
INTERMEDIATE PRODUCTS	-.9	-.9	4.0	7.3	7.8	8.0	5.3	2.2	-.7	-2.7	-5.5	-9.5	
MATERIALS	-1.7	-.8	1.3	6.4	10.2	13.9	11.8	7.0	1.8	-3.7	-8.5	-12.8	
DURABLE GOODS MATERIALS	-3.0	-1.6	2.6	9.1	13.6	19.1	17.5	12.3	4.4	-3.6	-8.5	-14.4	
NONDURABLE GOODS MATERIALS	-.5	-.1	3.5	8.2	10.9	12.3	8.7	2.5	-2.1	-5.7	-12.3	-16.5	
MANUFACTURING													
NONDURABLE	-.2	.6	2.7	5.2	6.9	8.1	6.2	3.0	.4	-1.5	-4.5	-7.5	
DURABLE	-2.5	-1.0	2.9	7.7	10.2	11.6	10.4	6.7	1.5	-3.4	-6.6	-10.6	
MINING AND UTILITIES	3.6	2.4	1.0	2.7	5.0	6.8	5.5	4.2	4.8	2.7	1.2	.5	

Table 2B

INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS

Not seasonally adjusted, 1967=100

MAJOR INDUSTRY GROUPINGS	SIC CODE	1967	1981	1981												1982
		PRO- TION	AVG.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.
MINING AND UTILITIES		12.05	155.0	158.6	158.1	154.4	145.2	145.5	155.6	161.4	164.1	156.8	152.5	152.3	155.0	159.8
MINING		6.36	142.2	137.3	141.7	143.1	135.1	135.9	142.8	143.0	146.9	146.4	147.7	145.2	141.6	138.8
UTILITIES		5.69	169.1	182.4	176.5	167.1	156.6	156.2	169.7	181.8	183.1	168.3	157.9	160.1	170.0	183.0
MANUFACTURING		87.95	150.4	144.8	150.7	152.5	152.4	153.4	156.6	149.5	154.3	155.5	152.4	145.8	137.0	131.5
NONDURABLE		35.97	164.8	156.9	164.3	164.8	165.3	166.1	170.5	163.9	172.2	173.4	169.3	161.4	149.7	145.2
DURABLE		51.98	140.5	136.4	141.3	144.1	143.4	144.7	147.0	139.5	142.0	143.1	140.7	135.0	128.2	122.1
MINING																
METAL MINING	10	.51	123.0	115.7	125.6	126.6	123.1	131.3	132.1	124.6	131.3	129.6	122.7	111.7	102.0	
COAL	11,12	.69	141.3	137.5	160.5	161.3	80.7	80.4	130.3	145.2	169.7	164.7	172.7	158.1	134.2	134.9
OIL AND GAS EXTRACTION	13	4.40	146.8	141.0	142.7	144.0	145.1	145.2	147.1	146.5	148.1	148.9	150.0	151.3	152.0	150.4
STONE AND EARTH MINERALS	14	.75	129.2	130.1	129.1	132.6	134.2	135.5	136.7	132.8	129.5	126.6	128.8	120.5	114.3	
NONDURABLE MANUFACTURES																
FOODS	20	8.75	152.0	143.9	147.3	148.6	148.0	149.4	153.0	150.7	158.5	161.8	161.2	154.2	147.4	
TOBACCO PRODUCTS	21	.67		126.0	132.5	128.3	117.0	118.8	123.8	107.3	129.3	132.2	136.4	128.1		
TEXTILE MILL PRODUCTS	22	2.68	135.8	127.3	135.9	135.8	140.0	142.1	145.9	128.1	147.1	144.5	140.4	129.0	113.1	
APPAREL PRODUCTS	23	3.31		115.1	127.7	125.7	124.4	122.6	128.4	108.3	128.4	130.1	124.2	111.9		
PAPER AND PRODUCTS	26	3.21	155.0	153.2	161.3	165.1	162.8	158.4	159.4	145.0	157.4	156.9	157.3	151.3	132.4	139.9
PRINTING AND PUBLISHING	27	4.72	144.4	130.0	136.0	135.3	135.6	138.6	147.8	152.7	158.8	159.8	152.3	146.1	139.4	129.9
CHEMICALS AND PRODUCTS	28	7.74	215.6	208.3	215.0	217.2	221.6	222.8	226.0	223.5	221.8	222.6	212.6	204.5	190.8	
PETROLEUM PRODUCTS	29	1.79	129.8	130.0	127.8	124.8	124.9	127.7	131.9	131.6	135.4	132.0	128.3	131.5	131.5	122.1
RUBBER & PLASTICS PRODUCTS	30	2.24	274.3	255.3	282.1	280.4	279.1	279.1	286.0	268.4	280.4	285.0	284.0	266.9	245.4	
LEATHER AND PRODUCTS	31	.86	69.3	67.4	70.7	72.0	70.3	71.5	70.9	59.7	69.7	70.7	74.9	71.2	63.0	
DURABLE MANUFACTURES																
ORDNANCE, PVT & GOVT	19,91	3.64	81.1	78.8	78.8	79.0	80.1	81.1	81.7	80.9	81.3	81.1	81.7	83.1	85.2	86.1
LUMBER AND PRODUCTS	24	1.64	118.8	119.8	126.4	127.4	127.5	126.8	126.8	119.4	122.7	117.2	114.8	103.6	93.7	
FURNITURE AND FIXTURES	25	1.37	157.4	147.7	162.8	158.7	158.1	154.0	162.9	148.0	164.0	165.5	159.2	156.5	151.1	
CLAY, GLASS, STONE PROD	32	2.74	148.0	143.6	146.4	150.5	155.6	154.4	155.8	149.8	154.4	151.8	149.1	137.9	126.9	
PRIMARY METALS	33	6.57	107.9	108.7	116.9	123.2	119.2	120.2	113.1	102.3	109.0	106.2	100.4	91.9	83.3	79.3
IRON AND STEEL	331,2	4.21	99.7	101.7	109.4	115.5	112.7	115.0	104.2	95.4	101.5	96.5	89.9	82.1	72.7	
FABRICATED METAL PROD	34	5.93	136.5	131.8	139.7	140.8	138.8	138.2	140.6	136.2	139.9	138.8	136.0	131.8	125.3	117.6
NONELECTRICAL MACHINERY	35	9.15	171.0	161.0	169.2	169.6	167.7	170.0	178.3	176.7	177.1	180.4	173.5	168.2	160.4	154.0
ELECTRICAL MACHINERY	36	8.05	178.6	174.2	175.6	177.6	177.1	179.4	182.4	175.4	181.1	184.5	185.1	178.7	171.6	165.4
TRANSPORTATION EQUIP	37	9.27	116.1	115.3	116.6	123.8	124.7	127.7	128.7	112.3	107.6	111.9	114.4	108.0	101.9	95.9
MOTOR VEHICLES & PTS	371	4.50	122.3	117.3	121.1	134.5	137.3	143.6	146.9	118.1	109.0	114.9	121.3	108.3	95.5	88.8
AEROSPACE & MISC	372-9	4.77	110.2	113.4	112.3	113.6	112.9	112.8	111.5	106.7	106.4	109.0	107.8	107.7	107.9	102.5
INSTRUMENTS	38	2.11	170.1	168.5	168.7	168.5	167.3	169.8	174.7	172.4	172.4	173.8	171.0	169.8	164.0	154.1
MISCELLANEOUS MFRS	39	1.51	154.9	142.2	153.3	153.6	154.0	154.6	162.3	154.8	164.9	165.0	157.8	153.1	143.6	132.3
UTILITIES																
ELECTRIC		3.88	191.0	204.5	195.8	184.1	171.3	173.5	195.2	213.5	215.0	193.4	177.5	178.1	189.7	205.0

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

SUMMARY GROUPINGS	1980		1981			
	III	IV	I	II	III	IV
TOTAL INDEX	142.3	148.7	151.8	152.5	153.0	146.3
PRODUCTS, TOTAL	144.3	148.4	150.3	151.9	152.2	147.7
FINAL PRODUCTS	143.3	147.0	148.3	150.9	151.2	147.3
CONSUMER GOODS	143.2	147.2	147.7	150.0	149.4	144.3
DURABLE CONSUMER GOODS	129.9	141.2	141.6	146.5	143.1	129.9
AUTOMOTIVE PRODUCTS	126.5	142.0	134.5	149.3	141.4	124.9
HOME GOODS	131.9	140.7	145.6	144.9	144.1	132.7
NONDURABLE CONSUMER GOODS	148.4	149.5	150.1	151.3	151.9	150.1
CLOTHING	123.8	123.0	120.3	121.2	121.3	
CONSUMER STAPLES	155.3	156.9	158.3	159.6	160.3	159.5
CONSUMER ENERGY (HOME GOODS AND CLOTHING)	151.9	148.2	146.2	147.2	148.9	149.0
(HOME GOODS AND CLOTHING)	128.2	132.6	134.0	134.0	133.6	125.2
EQUIPMENT	143.4	146.7	149.3	152.2	153.7	151.3
BUSINESS EQUIPMENT	170.4	174.3	178.2	182.2	184.0	178.7
INDUSTRIAL EQUIPMENT	154.7	156.0	163.2	167.3	169.5	165.2
COMMERCIAL, TRANSIT, FARM EQ.	188.6	195.5	195.5	199.5	200.6	194.3
DEFENSE AND SPACE EQUIPMENT	97.9	100.2	100.7	101.7	102.8	105.2
INTERMEDIATE PRODUCTS	148.2	153.7	157.4	155.8	155.9	149.2
CONSTRUCTION SUPPLIES	133.7	142.8	148.8	145.9	142.7	131.3
BUSINESS SUPPLIES	162.7	164.6	166.0	165.5	169.0	166.9
COMMERCIAL ENERGY PRODUCTS	172.8	174.2	174.7	177.3	176.9	175.7
MATERIALS	139.2	149.4	154.2	153.4	154.3	144.1
DURABLE GOODS MATERIALS	131.4	144.3	150.9	152.3	152.8	140.4
BASIC METAL MATERIALS	89.3	109.9	117.8	113.6	115.0	100.9
NONDURABLE GOODS MATERIALS	163.2	176.3	179.2	178.4	175.8	164.4
TEXTILE, PAPER AND CHEMICAL MAT	167.0	183.7	186.7	185.9	182.8	169.1
TEXTILE MATERIALS	113.2	113.7	114.8	114.5	115.5	106.9
PAPER MATERIALS	143.6	149.7	151.4	151.0	152.2	147.5
CHEMICAL MATERIALS	200.0	228.2	232.7	231.6	224.9	205.4
ENERGY MATERIALS	128.4	128.2	130.9	125.1	131.6	128.0
MANUFACTURING	141.5	148.6	151.3	152.4	152.5	145.0
DURABLE	130.2	138.4	141.3	143.1	142.6	134.4
NONDURABLE	157.7	163.4	165.7	166.0	166.8	160.3
MINING AND UTILITIES	149.5	150.9	154.1	153.0	157.7	155.3
MINING	130.3	135.3	142.2	137.4	145.8	143.7
UTILITIES	170.9	168.5	167.3	170.3	170.9	168.2

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

SUMMARY GROUPINGS	1980		1981			
	III	IV	I	II	III	IV
PRODUCTS, TOTAL	590.3	609.4	615.1	619.2	616.4	598.7
FINAL PRODUCTS	456.9	471.0	473.6	479.7	477.1	465.6
CONSUMER GOODS	308.1	318.1	318.7	322.1	320.3	311.2
DURABLE CONSUMER GOODS	75.8	83.2	82.2	86.5	83.9	74.6
AUTOMOTIVE PRODUCTS	34.4	38.9	36.4	41.0	38.4	32.9
HOME GOODS	41.4	44.3	45.8	45.5	45.5	41.7
NONDURABLE CONSUMER GOODS	232.3	234.9	236.5	235.6	236.5	236.6
CLOTHING	31.8	31.8	30.5	30.7	31.2	
CONSUMER STAPLES	200.4	203.1	206.1	205.0	205.3	206.8
CONSUMER ENERGY (HOME GOODS AND CLOTHING)	43.2	42.8	42.1	42.0	42.5	43.0
(HOME GOODS AND CLOTHING)	73.3	76.1	76.3	76.2	76.7	71.5
EQUIPMENT	148.9	153.0	154.9	157.6	156.8	154.4
BUSINESS EQUIPMENT	107.9	110.8	112.7	114.9	113.7	110.2
INDUSTRIAL EQUIPMENT	49.3	49.8	52.5	53.5	54.0	52.6
COMMERCIAL, TRANSIT, FARM EQ.	58.6	61.0	60.2	61.5	59.7	57.6
DEFENSE AND SPACE EQUIPMENT	40.9	42.2	42.2	42.7	43.1	44.2
INTERMEDIATE PRODUCTS	133.4	138.4	141.5	139.4	139.3	133.1
CONSTRUCTION SUPPLIES	57.2	61.1	63.6	61.9	60.6	55.2
BUSINESS SUPPLIES	76.2	77.3	77.9	77.5	78.8	77.9
COMMERCIAL ENERGY PRODUCTS	18.8	19.0	19.1	19.4	19.3	19.3

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

MAJOR MARKET GROUPINGS	1972		1981												1982
	DOLS-1	1981	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.
PRODUCTS, TOTAL	507.4	612.4	612.9	614.5	618.0	616.2	622.2	619.2	621.4	616.5	611.5	605.0	598.1	593.0	578.0
FINAL PRODUCTS	390.9	474.0	471.6	472.8	476.4	476.3	482.4	480.5	481.9	476.4	473.0	470.1	465.3	461.3	449.9
CONSUMER GOODS	277.5	318.1	316.8	318.8	320.5	320.0	324.3	322.1	324.0	319.3	317.7	314.3	311.3	308.1	298.3
DURABLE CONSUMER GOODS	82.0	81.8	80.6	81.8	84.3	84.7	87.1	87.7	86.7	83.0	81.9	78.7	74.3	70.8	65.5
AUTOMOTIVE PRODUCTS	41.1	37.2	34.9	36.1	38.2	39.2	41.7	42.0	40.4	37.1	37.6	35.2	32.1	31.3	27.0
HOME GOODS	40.9	44.6	45.7	45.6	46.1	45.5	45.4	45.7	46.3	45.9	44.3	43.5	42.2	39.5	38.5
NONDURABLE CONSUMER GDS	195.5	236.3	236.2	237.1	236.3	235.3	237.2	234.4	237.3	236.4	235.8	235.5	237.0	237.3	232.8
CLOTHING	28.5	30.5	30.8	30.5	30.1	30.1	31.0	30.9	31.5	31.6	30.6	29.7	30.1		
CONSUMER STAPLES	167.0	205.8	205.4	206.6	206.2	205.2	206.2	203.5	205.8	204.8	205.2	205.8	206.9	207.7	205.4
CONSUMER ENERGY PROD (HOME GOODS & CLOTHING)	39.2	42.4	42.9	42.2	41.3	41.6	42.0	42.3	42.3	43.0	42.2	42.5	43.2	43.3	65.9
(HOME GOODS & CLOTHING)	69.4	75.2	76.5	76.1	76.2	75.6	76.4	76.6	77.8	77.5	74.9	73.2	72.3	69.0	
EQUIPMENT	113.4	155.9	154.8	154.0	155.9	156.3	158.1	158.5	157.9	157.1	155.3	155.8	154.0	153.3	151.5
BUSINESS EQUIPMENT	80.6	112.9	112.4	112.0	113.8	113.7	115.3	115.8	114.9	114.0	112.1	112.0	110.0	108.6	107.3
INDUSTRIAL EQUIPMENT	34.4	53.1	51.8	52.6	53.1	53.1	53.4	53.8	53.8	54.6	53.4	53.2	52.5	52.2	51.0
COM'L, TRANSIT, FARM EQ	46.2	59.7	60.6	59.3	60.6	60.5	61.8	62.0	61.1	59.3	58.7	58.9	57.5	56.4	56.3
DEFENSE & SPACE EQUIP.	32.7	43.0	42.5	42.0	42.1	42.6	42.8	42.7	43.0	43.1	43.2	43.8	44.0	44.7	44.2
INTERMEDIATE PRODUCTS	116.6	138.4	141.2	141.7	141.7	139.9	139.8	138.7	139.5	140.1	138.4	134.9	132.8	131.7	128.2
CONSTRUCTION SUPPLIES	57.8	60.4	63.6	63.7	63.7	62.7	62.3	60.8	61.2	61.4	59.1	57.2	54.7	53.8	51.3
BUSINESS SUPPLIES	58.8	78.0	77.7	78.0	78.0	77.2	77.4	77.9	78.3	78.7	79.3	77.7	78.0	77.8	
COMMERCIAL ENERGY PROD	15.8	19.3	19.0	18.9	19.4	19.2	19.6	19.5	19.6	19.4	19.0	19.0	19.3	19.5	

Table 8

INDUSTRIAL PRODUCTION: DIFFUSION INDEXES

Percent of component series higher than in earlier months

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
1967-81			
AVERAGE	54.3	57.0	59.5
HIGH	71.7	78.7	82.8
LOW	22.6	15.7	14.7
1979			
DECEMBER	55.1	54.5	53.4
1980			
JANUARY	55.7	52.1	53.6
FEBRUARY	44.0	47.7	50.6
MARCH	48.3	46.4	49.8
APRIL	26.2	26.4	28.9
MAY	23.8	20.9	26.0
JUNE	35.3	17.2	21.3
JULY	41.7	26.8	23.8
AUGUST	60.0	41.5	21.1
SEPTEMBER	67.9	62.6	25.5
OCTOBER	61.3	65.5	42.8
NOVEMBER	70.0	74.5	65.7
DECEMBER	65.5	70.6	71.5
1981			
JANUARY	58.1	69.4	78.1
FEBRUARY	52.8	63.0	76.6
MARCH	53.4	61.7	75.7
APRIL	44.5	47.4	67.7
MAY	50.9	52.8	57.0
JUNE	50.4	48.3	52.1
JULY	67.4	59.1	56.0
AUGUST	46.6	58.9	53.2
SEPTEMBER	31.9	45.3	43.2
OCTOBER	31.5	25.3	36.0
NOVEMBER	35.7	24.3	30.0
DECEMBER	29.6	23.2	25.3

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

SERIES	SIC (1967)	BILL. KWH. 1967	1980 AVG.	1980					1981					PERCENT CHG. FROM PREV. NO. YR. (P)	PERCENT CHG. FROM PREV. NO. YR. (P)	
				Q 4	Q 1	Q 2	Q 3	Q 4	JULY	AUG	SEP	OCT	NOV			DEC
CHEMICALS AND PRODUCTS																
BASIC CHEMICALS	281	96.4	115.2	111.7	113.6	116.8	119.6	105.9	121.7	120.6	116.7	106.3	106.9	104.6	-2.1	-7.7
ALKALIES AND CHLORINE	2812	12.3	147.2	149.2	153.8	153.7	150.7	139.5	151.2	150.2	150.6	142.8	141.4	134.4	-5.0	-9.2
BASIC ORGANIC CHEM. NEC	2818	24.8	143.5	146.0	151.4	152.4	143.7	136.4	144.7	145.5	141.0	137.3	137.5	134.4	-2.2	-10.5
INORGANIC CHEM. NEC																
ACID AND FERT. MAT'LS. ERDA	2819	48.6	94.2	86.1	86.3	89.9	97.4	81.7	99.6	98.2	94.6	81.5	81.3	82.2	1.0	-6.8
29.8	87.8	76.7	77.3	84.6	97.1	77.3	99.9	97.1	94.4	75.0	78.3					
SYNTHETIC MATERIALS																
PLASTICS MATERIALS	2821	4.4	196.2	205.4	216.2	214.7	207.1	203.8	209.9	204.7	206.8	196.5	209.9			
OTHER SYNTHETICS	2822-4	7.7	190.4	190.8	192.2	186.2	183.5	179.5	187.9	181.1	181.6	182.5	179.0			
DRUGS	283	2.0	210.0	215.2	220.7	220.8	221.9	222.3	225.5	223.3	216.8	216.0	220.5	230.4	4.5	2.9
SOAP AND TOILETTAIES	284	1.0	147.5	147.7	150.5	149.4	159.2	148.8	159.9	161.1	156.5	148.8	145.9	151.6	3.9	3.1
FARM CHEMICALS	287	2.7	166.8	171.1	175.0	170.2	182.2	177.2	179.6	180.7	186.4	174.2	179.9	177.6	-1.3	2.0
PETROLEUM PRODUCTS																
29	22.3	177.5	176.7	185.6	181.2	181.3	181.3	180.6	180.9	182.4	178.0	181.9	184.0	1.2	.6	
RUBBER AND PLASTICS PROD.																
TIRES	301	3.2	115.0	115.4	112.0	111.4	114.0	105.4	116.3	114.9	110.9	105.8	107.9	102.5	-5.0	-11.6
RUBBER PRODUCTS NEC	306	2.3	124.7	127.9	130.2	133.2	122.9	136.9	128.5	131.0	125.4	121.3	121.9		.5	-7.0
PLASTICS PRODUCTS NEC	307	4.8	252.1	252.3	258.0	264.4	270.9	257.2	276.0	269.8	266.9	262.9	251.8	256.9	2.0	-4.4
LEATHER AND PRODUCTS																
SHOES	31	1.3	114.8	112.7	117.0	115.2	120.2	116.0	121.6	122.3	116.8	117.4	113.6	117.0	3.0	2.2
314	.6	94.1	94.0	98.9	94.6	99.2	96.1	99.5	101.4	96.6	98.2	94.0	96.1		2.2	.1
CLAY, GLASS, STONE PRODUCTS																
FLAT GLASS	321	1.2	113.6	115.9	112.3	114.2	116.8	112.2	116.0	117.7	116.7	110.7	113.9	112.1	-1.5	-6.8
PRESSED AND BLOWN GLASS	322	3.5	207.4	212.0	211.6	208.3	208.8	196.7	209.3	206.2	210.8	193.3	197.5	199.3	.9	-8.5
CEMENT	324	8.4	117.4	118.7	116.9	115.6	111.6	110.5	115.3	108.2	111.2	110.9	116.2	104.3	-10.2	-10.5
STRUCTURAL CLAY PRODUCTS	325	1.3	104.6	104.2	102.7	103.3	104.2	94.2	104.8	103.2	104.4	97.7	91.2	93.8	2.9	-12.7
CONCRETE PRODUCTS	327	2.3	189.5	189.3	193.9	190.4	184.9	172.6	186.2	184.5	184.1	180.6	165.8	171.5	3.4	-12.0
PRIMARY METALS																
BASIC STEEL & MILL PROD.	331	54.4	106.1	106.3	110.9	111.0	108.5	98.7	111.7	108.2	105.7	98.4	101.4	96.3	-5.0	-13.4
IRON & STEEL FOUNDRIES	332	5.9	195.6	199.7	203.3	204.2	210.8	185.2	216.2	211.8	204.4	185.6	183.3	186.8	1.9	-8.3
PRIMARY NONFERROUS METALS																
ALUMINUM	334	53.6	126.2	124.1	124.4	120.5	116.9	106.9	119.2	116.6	115.0	112.0	105.2	103.6	-1.5	-16.4
NONFERROUS MILL PRODUCTS	335	8.4	116.3	118.7	115.8	115.3	119.6	117.0	122.5	117.2	119.0	116.6	111.9	122.3	9.3	-1.1
NONFERROUS FOUNDRIES	336	1.4	167.2	166.7	171.7	173.0	175.2	174.1	176.9	175.1	173.6	168.1	173.0	181.3	4.8	6.9
FABRICATED METAL PRODUCTS																
METAL CANS	341	1.0	211.7	216.1	211.8	211.8	205.4	211.8	204.9	206.1	205.1	212.1	211.8	211.5	-2	-3.0
HARDWARE	342	1.6	147.7	150.4	153.4	155.6	160.1	147.8	160.5	166.8	153.1	145.9	146.3	151.4	3.5	-2.3
STRUCTURAL METAL PROD.	344	3.5	135.8	133.4	138.2	133.3	135.6	133.2	135.5	135.8	135.5	132.4	130.8	136.3	4.2	-5
FASTENERS	345	1.2	155.5	158.8	160.8	160.3	166.0	158.7	166.6	167.2	164.2	161.4	158.5	156.2	-1.5	-4.6
METAL STAMPINGS	346	3.1	138.4	140.2	143.3	148.2	160.0	149.9	162.8	160.2	156.9	147.9	148.5	153.3	3.2	6.0
Nonelectrical Machinery																
ENGINES AND TURBINES	351	1.4	135.1	135.4	145.3	141.2	145.7	136.5	146.2	152.1	138.9	133.1	135.1	141.2	4.6	-8.1
FARM EQUIPMENT	352	1.2	124.7	127.0	125.3	114.9	110.1	98.8	115.0	116.0	99.3	99.5	98.6	98.2	-3	-25.3
CONSTRUCTION EQUIPMENT	353	3.0	174.1	176.5	178.6	181.9	188.8	183.7	191.9	191.9	182.7	187.3	177.0	186.8	5.5	1.8
Metalworking Machinery																
SPECIAL INDUSTRY MACH.	355	1.5	148.9	149.6	151.6	144.0	142.8	140.5	142.5	143.8	142.0	139.4	139.9	142.2	1.7	-8.9
GENERAL INDUSTRIAL MACH.	356	2.7	145.6	144.0	149.0	148.7	151.4	146.7	151.2	151.7	151.3	147.2	144.7	148.1	2.4	-1.7
OFFICE AND COMPUTING MACH.	357	1.4	222.5	241.1	253.8	258.5	266.6	269.9	265.5	263.9	270.4	258.0	268.4	283.3	5.5	12.2
SERVICE INDUSTRY MACH.	358	1.2	142.0	144.0	140.8	141.2	135.5	130.9	142.0	130.6	133.8	132.9	128.9	131.0	1.6	-12.0
Electrical Machinery																
ELECT. DISTRIBUTION EQ.	361	1.8	121.3	117.8	120.2	122.3	126.7	122.1	119.8	136.7	123.4	118.4	121.1	126.9	4.8	5.5
ELECT. INDUST. APPARATUS	362	3.5	123.7	123.8	124.7	127.0	127.1	121.5	129.8	124.3	127.1	121.8	124.0	118.7	-4.3	-5.9
HOME APPLIANCES	363	2.2	102.9	107.5	109.4	111.2	113.3	102.2	111.5	118.6	109.7	107.5	101.1	97.9	-3.2	-11.1
Lighting & Wiring Prod.																
RADIO AND TV SETS	365	.8	120.5	120.5	128.8	124.3	124.9	122.7	129.7	123.2	122.0	119.0	123.8	125.1	1.1	1.8
COMMUNICATION EQUIP.	366	3.9	151.7	148.8	153.3	151.9	158.8	153.5	161.8	160.2	154.4	150.8	153.5	156.2	1.8	1.5
ELECTRONIC COMPONENTS	367	4.2	168.5	174.3	175.6	176.3	181.4	182.4	183.7	177.9	182.7	178.3	178.4	190.4	6.7	4.3
Transportation Equipment																
MOTOR VEHICLES AND PARTS	371	12.8	122.9	125.8	126.9	128.7	130.4	115.1	136.7	130.4	124.1	114.8	115.2	115.3	.1	-11.6
AIRCRAFT AND PARTS	372	8.4	99.2	104.5	103.6	100.9	101.6	98.9	102.4	101.8	100.5	98.0	98.1	100.5	2.4	-7.5
SHIPS AND BOATS	373	1.3	146.5	150.1	160.5	156.2	162.4	158.5	160.5	163.0	163.6	154.5	156.1	164.9	5.7	3.0
Instruments																
PHOTOGRAPHIC EQUIPMENT	386	1.4	158.5	160.4	167.6	166.4	169.5	169.8	171.2	164.7	172.5	159.2	173.3	177.0	2.1	4.6
38	3.1	160.8	163.1	168.9	168.7	173.1	172.7	175.7	172.6	171.0	166.5	172.3	179.4	4.1	6.1	
MISC. MANUFACTURES																
39	2.5	152.6	153.7	159.4	158.7	161.4	153.5	163.9	162.3	157.9	152.6	153.9	154.0	0.0	-2.2	
SUPPLEMENTARY GROUPINGS																
TOTAL, EXCLUDING ERDA		530.6	139.9	140.2	142.7	141.5	142.4	134.9	144.3	142.6	140.4	136.2	134.7	133.7	-.7	-6.5
Electric Utilities																
SALES TO INDUSTRY		457.1	149.4	148.7	151.9	151.0	154.3	143.4	156.7	154.6	151.7	144.5	143.4	142.4	-.7	-6.6
OWN USE		5.5	140.9	136.2												
INDUSTRIAL GENERATION		102.9	85.9	85.8	84.7	84.7	83.5	83.4	83.8	82.4	84.2	82.4	83.9	83.8	0.0	-2.9
SALES TO ELECTRIC UTILITIES		5.1	103.6	124.9												
OWN USE		97.8	85.0	84.0	84.8	83.3	82.6	81.4	83.1	82.5	82.1	80.7	81.8	81.8	-.1	-3.2

P--PRELIMINARY

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

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.