

# FEDERAL RESERVE statistical release



G.12.3

For release at 9:15 am (EDT)  
September 16, 1986

## INDUSTRIAL PRODUCTION

The index of industrial production has been revised back to January 1984. A supplement, printed on yellow sheets, is attached with revised data for January 1984 through December 1985. The revised data for 1986 are included in the regular tables of this release. See page 2 for additional information.

### CURRENT DEVELOPMENTS

Industrial production edged up an estimated 0.1 percent in August. Gains in output were sizable in defense and space equipment, construction supplies, nondurable consumer goods, and nondurable materials; however, auto, steel and electricity production declined during the month. Revised data for the preceding two months indicate somewhat stronger industrial activity than the earlier estimates. In particular, total industrial production for June was revised to no change (from -0.3 percent) and July output to a small rise (from -0.1 percent). At 124.8 percent of the 1977 average, production in August was 0.3 percent higher than a year earlier and down 1.1 percent from January.

**Market Groupings.** Output of consumer goods rose 0.2 percent in August. Although autos were assembled at an annual rate of 7.0 million units--down about 8 percent from the 7.6 million unit rate in July--increased truck production moderated the effect of reduced auto output. Production of home goods--such as appliances and furniture--also advanced in August. Nondurable consumer goods increased 0.5 percent reflecting gains in consumer fuels, chemical products, and foods. Business equipment output gained 0.3 percent owing to increases in transit equipment--largely trucks and aircraft--and in commercial equipment. Defense and space equipment production

### Industrial Production: Summary

Seasonally adjusted

Item	Index, 1977 = 100		Monthly percent change						Current month from a year ago
	1986		JUL	AUG	APR	MAY	JUN	JUL	
Total	124.6	124.8	.8	-0.4	.0	.3	.1	.3	
<b>Market Groupings</b>									
Products, total	132.9	133.3	1.1	-0.2	-0.1	.5	.4	.4	1.0
Final products	131.7	132.2	1.2	-0.4	-0.5	.6	.4	.0	
Consumer goods	124.8	125.1	2.2	-0.2	.0	.5	.2	.2	3.4
Durable goods	115.9	115.2	3.1	-1.8	.5	1.4	-0.6	.6	
Non durable goods	128.1	128.7	1.9	.3	-0.2	.2	.5	.4	4.4
Business equipment	137.5	137.9	.6	-0.5	-1.2	1.0	.3	.3	-2.2
Defense and space	179.7	182.2	1.0	.0	.2	.8	1.4	5.1	
Intermediate products	136.9	137.4	.9	.4	1.2	.1	.3	.3	4.3
Construction supplies	124.2	125.1	.8	-0.1	.5	.1	.6	.6	3.9
Materials	113.3	113.1	.5	-0.7	.2	.0	-0.2	-0.7	
<b>Industry Groupings</b>									
Manufacturing	128.8	129.2	1.2	-0.4	-0.2	.6	.3	1.5	
Durable	127.0	127.1	1.0	-0.9	-0.7	.7	.0	-0.8	
Non durable	131.4	132.1	1.5	.2	.5	.6	.6	4.8	
Mining	97.4	96.0	-1.9	-1.2	-0.4	-2.0	-1.4	-11.2	
Utilities	109.8	108.2	.1	-0.8	1.7	-0.6	-1.5	-1.7	

advanced sharply in August and is currently about 5 percent higher than a year earlier. Output of supplies for construction and business continued to increase. Total materials output, however, declined during the month reflecting lower metals output (mainly steel) which was related to strike activity, less electricity generation, and reduced output of parts for consumer durables, especially autos. Within materials many nondurable industries evidenced sizable increases.

Industry Groupings. Manufacturing output increased 0.3 percent in August following a revised 0.6 percent gain in July. All of the August gain was due to increased production of nondurables—in particular, chemicals, petroleum products, and textiles. But mining output was curtailed further with reductions in all major industries with the exception of oil and gas well drilling, which posted a small gain in August following declines since July 1985. Production at utilities declined an estimated 1.5 percent, mainly because of a drop in electricity generation related to cooler weather in August.

#### REVISION OF THE INDEX

As part of the Federal Reserve's ongoing review of its statistical series, the indexes of industrial production have been revised beginning with January 1984.

Revision of the Index for 1984 and 1985. The revision of the indexes for 1984 and 1985 affects the series primarily through the incorporation of information not available at the time the indexes were originally estimated. In the present revision, unlike the 1985 general revision, no major modifications were introduced; in particular, the reference year, the weights and the groupings of the index have remained unchanged. The present revision, in addition to the incorporation of data previously not available, reflects the updating of the seasonal adjustment factors for the entire index (including its groupings and the basic series); these are now calculated with the use of data through December 1985. The production adjustment factors applied to the indexes were updated as well.

The revised data indicate slightly less growth in the total index of industrial production than previously estimated: a rise of 11.2 percent in 1984 (instead of 11.5 percent), and an increase of 2.0 percent during 1985 (instead of 2.2 percent). The cumulative effect is to lower the level of the total index in December 1985 by 0.6 percent.

Indexes for most industry and market groupings also were revised downward slightly. In three market categories—business equipment, defense and space equipment, and energy materials—1985 annual output levels were revised down one percent or more; the level of output in nondurable materials was revised up slightly for 1984. Among the major industry groupings, downward revisions of total manufacturing output for both 1984 and 1985 were about one-half percent; the level of mining output was slightly increased for 1984 but decreased for 1985; and the level of utility production was revised downward 0.2 percent and 1.3 percent in 1984 and 1985, respectively.

The attachment to this release (printed on yellow sheets) includes the revised monthly index series for 1984 and 1985, together with revised quarterly indexes, gross value of product data now expressed in 1982 dollars instead of 1972 dollars, and electric power use indexes for the period of the revision.

Revision of 1986 Indexes. The revisions of the data between January and July 1986 reflect in part the revisions undertaken for 1984 and 1985 as well as the receipt of new information for 1986. Unlike the revisions for 1984 and 1985, which show slightly less growth for those years, the revisions for the first seven months of 1986 indicate somewhat stronger industrial activity than estimated previously: a cumulative decline of 1.1 percent for the period, instead of 2.1 percent. The overall level of industrial output for July 1986—at 124.6 percent of the 1977 average—was slightly higher than published earlier (124.1).

An updated historical tape of all published series is available through the National Technical Information Service (NTIS) of the Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4807.

# FEDERAL RESERVE



## Industrial Production

### INDUSTRIAL PRODUCTION

AUGUST DATA

SEASONALLY ADJUSTED, RATIO SCALE, 1977=100

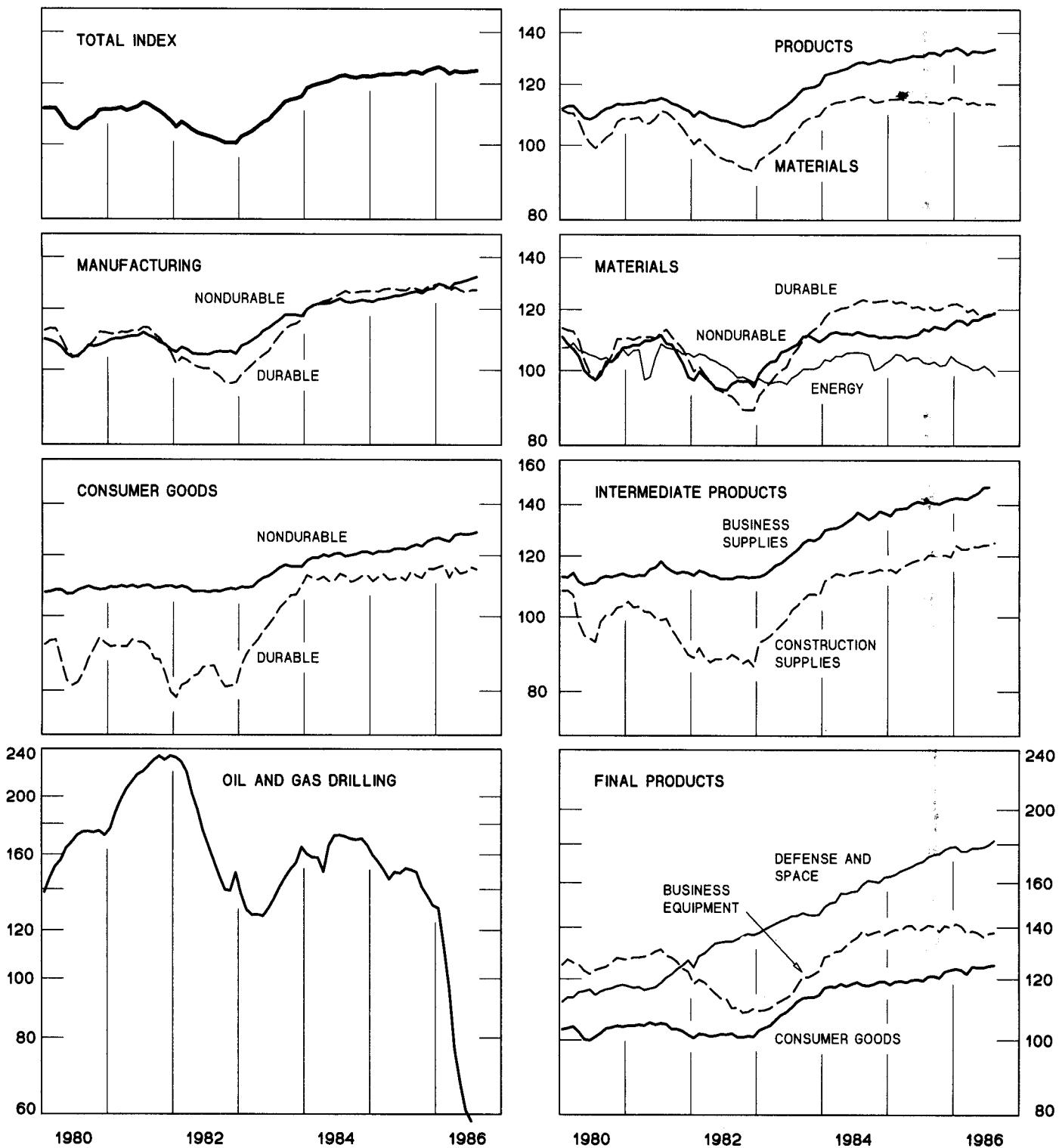


Table 1A  
**INDUSTRIAL PRODUCTION: MARKET GROUPINGS**  
Seasonally adjusted, 1977 = 100

Major Market Groupings	1977	1985															
	Proportion	Ann-Avg.	1985	Sep	Oct	Nov	Dec	1986	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
<b>TOTAL INDEX</b>	100.00	123.8	124.4	124.3	123.6	124.8	125.6	126.2	125.3	123.6	124.7	124.2	124.2	124.6	124.8		
PRODUCTS, TOTAL	57.72	130.8	132.1	132.0	131.0	132.8	133.0	134.0	132.9	131.2	132.7	132.4	132.2	132.9	133.3		
FINAL PRODUCTS	44.77	131.1	132.2	132.2	131.0	133.1	133.2	133.9	132.8	130.6	132.1	131.6	130.9	131.7	132.2		
CONSUMER GOODS	25.52	120.2	120.9	121.1	120.5	122.7	123.3	123.8	123.3	121.8	124.5	124.3	124.2	124.8	125.1		
EQUIPMENT, TOTAL	19.25	145.4	147.1	146.9	144.9	147.0	146.4	147.5	145.4	142.3	142.3	141.2	139.7	140.8	141.6		
INTERMEDIATE PRODUCTS MATERIALS	12.94	130.0	131.7	131.3	131.2	131.8	132.0	134.2	133.4	133.3	134.5	135.1	136.7	136.9	137.4		
MATERIALS	42.28	114.2	113.9	113.8	113.4	113.9	115.8	115.5	114.8	113.3	113.8	113.0	113.3	113.1	113.1		
CONSUMER GOODS	25.52	120.2	120.9	121.1	120.5	122.7	123.3	123.8	123.3	121.8	124.5	124.3	124.2	124.8	125.1		
DURABLE CONSUMER GOODS	6.89	112.9	114.5	113.1	112.3	115.4	115.3	116.0	116.6	112.4	115.9	113.8	114.3	115.9	115.2		
Automotive products	2.98	114.0	118.6	116.2	113.2	115.6	113.9	116.2	117.6	110.4	116.4	113.2	113.7	115.8	113.4		
Autos and trucks, consumer	1.79	112.0	119.4	115.8	111.3	114.1	110.4	118.2	119.4	106.3	115.1	110.3	112.2	110.5	110.8		
Autos, consumer	1.16	98.9	101.2	98.8	94.9	95.6	94.6	105.5	107.1	93.7	100.8	94.8	99.3	95.3	87.8		
Trucks, consumer	.63	136.3	153.1	147.4	141.8	148.6	139.8	141.7	142.1	129.6	141.5	139.1	136.1	150.3			
Auto parts & allied gds	1.19	116.9	117.3	116.8	116.0	117.7	119.0	113.3	114.9	116.6	118.4	117.4	116.1	117.7	117.5		
Home goods	3.91	112.2	111.4	110.7	111.6	115.3	116.4	115.8	115.8	113.9	115.5	114.3	114.8	116.0	116.5		
Appliances, TV & air-cond	1.24	110.1	128.7	126.1	127.5	136.8	140.4	133.2	135.1	133.7	138.8	133.9	137.5	138.9	139.9		
Appliances and TV	1.19	131.8	129.5	128.3	129.8	141.3	142.1	135.7	137.6	136.0	140.6	135.8	139.1	141.5			
Carpeting & furniture	.96	119.8	119.5	121.7	121.9	124.6	123.3	125.1	124.4	121.2	121.8	123.3	122.5	125.2			
Misc. home goods	1.71	94.3	94.3	93.3	94.4	93.1	95.1	98.0	97.0	95.5	95.0	95.0	94.1	94.2			
NONDURABLE CONSUMER GOODS	18.63	122.9	123.3	124.1	123.5	125.3	126.3	126.6	125.8	125.3	127.7	128.1	127.9	128.1	128.7		
Clothing	3.34	95.0	95.0	96.3	96.4	98.0	97.9	98.4	96.4	96.2	97.5	96.6	95.9	97.0			
Consumer staples	15.29	129.0	129.5	130.1	129.4	131.3	132.5	132.8	132.3	131.6	134.3	135.0	134.9	135.0	135.8		
Consumer foods & tobacco	7.80	128.8	129.7	130.1	128.7	130.5	131.0	130.1	131.1	130.3	131.9	132.4	132.7	132.6			
Nonfood staples	7.49	129.2	129.3	130.1	130.1	132.1	133.4	135.6	133.3	133.0	136.7	137.7	137.1	137.4	138.6		
Consumer chem. products	2.75	149.1	149.7	152.9	149.1	154.8	153.6	156.3	158.3	156.4	163.1	162.4	163.6	167.1			
Consumer paper products	1.88	141.9	141.6	142.6	143.5	143.2	146.5	148.9	143.4	143.1	145.1	148.6	147.2	144.6			
Consumer energy	2.86	101.8	101.8	99.9	103.0	103.1	105.4	107.0	103.2	104.0	106.0	106.8	104.9	104.3			
Consumer fuel	1.44	88.6	90.3	84.6	90.1	89.8	91.7	94.1	92.0	92.2	93.7	96.4	92.0	91.2			
Residential utilities	1.42	115.3	113.4	115.5	116.2	116.6	119.4	120.1	114.5	116.1	118.4	117.5	118.1				
EQUIPMENT, TOTAL	19.25	145.4	147.1	146.9	144.9	147.0	146.4	147.5	145.4	142.3	142.3	141.2	139.7	140.8	141.6		
BUSINESS & DEFENSE EQUIP.	18.01	146.0	147.5	147.4	145.7	149.2	147.8	149.1	147.8	145.5	146.6	146.6	144.8	146.1	146.9		
BUSINESS EQUIPMENT	14.34	139.6	141.0	140.4	138.3	140.8	140.0	141.5	140.5	137.7	138.6	137.9	136.2	137.5	137.9		
Constr., mining, & farm	2.08	64.3	64.6	64.4	64.2	65.1	66.3	65.3	63.0	59.5	58.6	60.9	61.9	60.7			
Manufacturing equipment	3.27	110.7	111.9	112.2	110.0	110.5	111.6	113.0	112.9	112.4	111.9	111.9	111.7	112.4	111.9		
Power equipment	1.27	83.5	84.8	84.3	85.3	84.1	85.4	82.9	82.3	82.0	83.0	82.9	83.5	81.4	81.2		
Commercial equipment	5.22	217.9	219.5	216.9	212.3	218.6	217.0	217.8	216.8	214.3	213.4	212.9	207.2	213.6	214.8		
Transit. equipment	2.49	105.4	107.1	109.5	109.5	109.7	105.5	112.7	111.7	104.3	112.1	107.3	108.8	104.1	107.9		
DEFENSE & SPACE EQUIPMENT	3.67	170.6	173.3	174.5	174.8	177.2	178.5	178.7	176.3	176.2	178.0	178.0	178.4	179.7	182.2		
INTERMEDIATE PRODUCTS	12.94	130.0	131.7	131.3	131.2	131.8	132.0	134.2	133.4	133.3	134.5	135.1	136.7	136.9	137.4		
Construction supplies	5.95	118.3	120.4	120.3	120.2	120.5	119.8	124.0	122.6	122.6	123.6	123.5	124.1	124.2	125.1		
Business supplies	6.99	140.0	141.3	140.7	140.5	141.5	142.4	142.9	142.6	142.5	143.8	145.0	147.4	147.7			
Gen. business supplies	5.67	143.9	145.7	144.2	144.3	145.3	146.2	147.2	146.7	146.4	148.0	148.3	151.0	152.1			
Commercial energy prod.	1.31	122.9	122.2	125.4	123.8	125.4	126.2	124.4	124.9	125.6	125.8	130.7	131.9	128.5			
MATERIALS	42.28	114.2	113.9	113.8	113.4	113.9	115.4	115.5	114.8	113.3	113.8	113.0	113.3	113.1	113.1		
DURABLE GOODS MATERIALS	20.50	121.4	121.2	119.9	120.1	121.2	121.9	122.2	121.3	119.3	120.2	118.4	117.9	118.5	118.5		
Consumer durable parts	4.92	100.3	99.7	98.6	99.8	100.7	101.1	103.5	103.2	99.9	99.3	96.4	96.3	95.7	94.8		
Equipment parts	5.94	158.0	157.7	155.4	152.7	154.0	154.1	153.8	153.0	153.7	154.8	152.3	151.7	154.3	155.0		
Durable materials nec	9.64	109.7	109.7	108.9	110.3	111.4	112.8	112.2	111.0	108.0	109.4	108.8	108.1	108.1	106.0		
Basic metal materials	4.64	84.8	85.5	84.0	85.5	87.8	87.9	85.2	83.0	79.6	82.9	78.9	77.1	77.8			
HONDURABLE GOODS MATERIALS	10.09	112.2	112.7	114.2	113.6	113.3	114.9	116.2	116.1	114.8	116.5	116.5	117.6	117.9	119.0		
Textile, paper, & chem. mater.	7.53	112.2	112.4	114.4	113.7	113.4	115.0	116.5	116.5	115.5	115.9	116.9	118.1	118.2	119.6		
Textile materials	1.52	98.7	102.0	104.3	105.2	106.1	103.8	104.1	107.5	105.7	106.7	108.4	109.5	110.7			
Pulp & paper materials	1.55	124.1	121.9	123.8	121.8	123.6	129.0	129.7	128.8	128.0	129.0	128.6	133.0	132.5			
Chemical materials	4.46	112.7	112.7	114.6	113.7	112.4	114.0	116.2	115.4	114.5	114.5	115.7	115.9	115.9	115.9		
Misc. nondurable materials	2.57	112.1	113.8	113.5	113.4	112.8	114.4	115.4	115.0	112.8	118.2	115.3	116.0	117.1			
ENERGY MATERIALS	11.69	103.4	102.2	102.8	101.5	101.8	104.5	103.0	102.1	101.4	100.4	100.5	101.5	100.4	98.6		
Primary energy	7.57	107.2	106.2	106.3	105.5	106.5	108.1	106.9	106.7	107.4	106.2	106.8	104.6				
Converted fuel materials	4.12	96.4	94.9	96.2	94.2	93.3	97.9	95.6	93.6	90.5	89.7	89.2	91.8	92.5			

NOTE: Two components--oil and gas well drilling and manufactured homes--are included in total equipment but not shown here. They are shown in Tables 4A and 4B on page 8 and 9.

Table 1B  
**INDUSTRIAL PRODUCTION: MARKET GROUPINGS**

Not seasonally adjusted, 1977 = 100

Major Market Groupings	1977	1985	1985					1986									
	Pro- portion	Avg.	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		
TOTAL INDEX	100.00	123.8	126.7	128.6	126.2	124.3	121.6	122.9	124.9	123.1	123.8	123.2	127.0	122.8	127.4		
PRODUCTS, TOTAL	57.72	130.8	135.9	138.4	134.8	132.4	128.4	129.5	130.8	129.0	130.6	130.6	135.7	132.4	137.7		
FINAL PRODUCTS	44.77	131.1	135.4	138.2	134.7	132.6	128.7	130.3	131.2	128.8	129.9	129.8	134.3	130.9	135.9		
CONSUMER GOODS	25.52	120.2	125.7	128.7	125.6	121.7	116.5	119.2	121.2	118.9	122.1	122.1	126.1	124.1	130.5		
EQUIPMENT, TOTAL	19.25	145.4	148.3	150.6	146.8	146.9	145.0	145.0	144.4	141.9	140.2	140.0	142.5	139.9	143.0		
INTERMEDIATE PRODUCTS	11.94	130.0	137.8	139.3	135.3	131.9	127.1	126.9	129.5	129.6	133.0	133.5	140.4	137.5	143.9		
MATERIALS	42.28	114.2	114.1	115.2	114.4	113.2	112.3	113.9	116.8	115.1	114.5	113.1	115.1	109.8	113.3		
CONSUMER GOODS	25.52	120.2	125.7	128.7	125.6	121.7	116.5	119.2	121.2	118.9	122.1	122.1	128.1	124.1	130.5		
DURABLE CONSUMER GOODS	6.89	112.9	110.9	116.3	121.5	116.6	103.9	112.1	117.9	114.9	119.1	116.1	119.3	104.2	112.8		
Automotive products	2.98	114.0	107.6	116.9	121.5	116.6	100.5	116.4	121.2	116.8	122.1	118.2	122.9	98.3	104.9		
Autos and trucks, consumer	1.79	112.0	99.9	113.3	121.8	116.5	90.3	115.0	126.0	117.0	124.4	119.9	127.6	89.1	95.4		
Autos, consumer	1.16	98.9	79.5	95.9	104.7	101.2	78.5	105.3	102.2	108.3	102.0	111.6	72.2	74.3			
Trucks, consumer	.63	136.3	137.9	145.5	153.6	144.9	112.4	133.0	151.1	144.5	154.2	153.0	157.3	120.3			
Auto parts & allied gds	1.19	116.9	119.1	122.3	121.2	116.7	115.7	113.4	114.0	116.5	118.7	115.6	115.8	112.2	119.3		
Hose goods	3.91	112.2	113.5	115.9	121.5	116.7	106.6	110.3	115.3	113.4	116.8	114.5	116.6	108.7	118.8		
Appliances, TV & air-cond	1.24	131.0	128.3	129.1	149.0	141.8	117.7	132.4	137.1	131.7	143.0	135.9	136.2	127.1	140.1		
Appliances and TV	1.19	131.8	132.0	132.7	153.3	145.6	120.5	134.4	138.7	132.3	142.1	136.5	136.7	129.9			
Carpeting & furniture	.96	119.8	122.5	129.1	127.3	125.4	117.6	115.4	125.8	122.8	124.2	122.2	126.1	115.5			
Misc. home goods	1.71	94.3	97.7	98.9	98.4	93.6	92.3	91.6	93.7	95.0	93.8	94.6	97.1	91.6			
NONDURABLE CONSUMER GOODS	18.63	122.9	131.1	133.3	127.0	123.6	121.1	121.8	122.6	120.8	123.3	124.4	131.4	131.5	137.1		
Clothing	3.34	95.0	99.7	101.0	98.6	97.0	93.1	93.3	95.6	95.9	96.4	96.3	99.7	94.8			
Consumer staples	15.29	129.0	138.0	140.6	133.3	129.4	127.2	128.0	128.3	125.8	129.1	130.5	138.3	139.6	145.0		
Consumer foods & tobacco	7.80	128.8	137.6	140.1	135.9	130.0	124.7	123.9	125.2	125.0	127.7	129.7	137.1	134.4			
Nonfood staples	7.49	129.2	138.5	140.7	130.6	128.9	129.8	132.3	131.5	126.6	130.6	131.3	139.5	144.9	148.8		
Consumer chem. products	2.75	149.1	159.6	168.7	154.8	152.2	145.8	145.7	150.7	147.2	157.0	157.5	169.5	177.5			
Consumer paper products	1.88	141.9	155.4	154.0	146.2	140.2	138.1	140.6	140.5	138.3	140.0	142.7	149.8	151.6			
Consumer energy	2.86	101.8	107.0	105.1	97.0	99.1	108.9	114.1	107.1	99.1	99.2	98.6	104.1	109.3			
Consumer fuel	1.44	88.6	91.5	87.0	90.1	93.2	95.7	92.0	86.7	85.0	90.3	96.6	95.5	94.0			
Residential utilities	1.42	115.3	122.8	123.6	104.0	105.1	122.4	136.7	127.8	113.5	108.3	100.6	112.9				
EQUIPMENT, TOTAL	19.25	145.4	148.3	150.6	146.8	146.9	145.0	145.0	144.4	141.9	140.2	140.0	142.5	139.9	143.0		
BUSINESS & DEFENSE EQUIP.	18.01	146.0	148.8	151.4	147.4	147.6	145.6	146.1	146.8	145.4	144.5	144.9	147.9	145.4	148.3		
BUSINESS EQUIPMENT	14.34	139.6	143.1	145.6	140.8	139.8	136.4	137.5	139.1	137.3	136.1	136.4	140.0	137.2	140.2		
Constr., mining, & farm	2.08	64.3	64.6	66.5	64.2	64.1	64.8	63.3	65.1	60.3	58.6	60.5	62.4	60.0			
Manufacturing equipment	3.27	110.7	113.2	115.5	110.9	110.3	109.2	113.3	112.9	111.0	110.6	113.9	111.0	113.1			
Power equipment	1.27	83.5	85.2	87.9	86.6	85.0	85.4	81.2	81.8	82.2	81.1	81.0	84.6	79.6	81.6		
Commercial equipment	5.22	217.9	229.0	228.4	217.2	216.4	211.6	210.4	211.2	210.2	206.2	208.0	212.2	219.0	224.1		
Transit equipment	2.49	105.4	97.7	107.1	111.9	109.7	98.9	112.4	113.3	109.1	115.1	112.2	116.3	94.3	100.3		
DEFENSE & SPACE EQUIPMENT	3.67	170.6	171.2	174.2	173.3	177.8	181.8	179.8	176.9	177.1	177.5	177.9	178.6	177.2	180.0		
INTERMEDIATE PRODUCTS	12.94	130.0	137.8	139.3	135.3	131.9	127.1	126.9	129.5	129.6	133.0	133.5	140.4	137.5	143.9		
Construction supplies	5.95	118.3	123.8	125.4	124.3	121.0	114.9	116.0	117.7	120.1	124.6	125.0	129.1	123.9	128.5		
Business supplies	6.99	140.0	149.7	151.2	144.7	141.1	137.6	136.1	139.6	137.6	140.2	140.8	150.0	149.1			
Gen. business supplies	5.67	143.9	154.4	154.5	150.1	145.9	141.2	138.9	142.5	142.3	145.0	145.6	152.7	151.7			
Commercial energy prod.	1.31	122.9	129.4	136.7	121.6	120.7	121.9	124.4	126.4	127.0	117.4	119.1	120.1	138.0			
MATERIALS	42.28	114.2	114.1	115.2	114.4	113.2	112.3	113.9	116.8	115.1	114.5	113.1	115.1	109.8	113.3		
DURABLE GOODS MATERIALS	20.50	121.4	120.9	122.2	121.4	120.0	118.3	118.2	121.8	121.4	121.2	120.2	120.8	115.4	116.3		
Consumer durable parts	4.92	100.3	98.5	101.0	101.7	101.0	99.1	100.4	103.7	101.8	100.5	97.7	98.2	91.5	93.6		
Equipment parts	5.94	158.0	155.7	156.3	152.9	154.9	156.0	153.7	152.9	154.9	153.0	152.5	153.5	151.0	153.0		
Durable materials sec	9.64	109.7	110.8	111.9	112.0	108.3	104.8	105.3	112.0	110.8	112.2	111.7	112.2	105.8	109.5		
Basic metal materials	4.64	84.8	82.2	82.9	84.3	81.8	79.8	82.8	86.4	86.2	89.0	84.9	81.1	72.8			
NONDURABLE GOODS MATERIALS	10.09	112.2	112.4	115.7	116.0	113.3	108.4	113.9	119.4	117.4	118.7	117.0	120.1	111.4	118.7		
Textile, paper, & chem. mater.	7.53	112.2	111.4	115.6	114.6	113.6	109.4	114.3	119.9	118.5	118.4	118.3	120.6	111.2	118.5		
Textile materials	1.52	98.7	104.5	104.6	110.2	108.3	93.2	103.8	112.0	109.0	108.3	112.5	112.9	94.2			
Pulp & paper materials	1.55	124.1	121.8	124.7	122.3	124.4	120.4	128.7	132.9	132.6	131.9	129.0	136.0	123.1			
Chemical materials	4.46	112.7	110.1	116.2	113.4	111.7	111.2	112.9	118.2	116.9	117.2	118.5	118.0	113.0			
Misc. nondurable materials	2.57	112.1	115.5	116.0	120.0	112.4	105.2	112.8	117.6	114.0	119.5	113.1	118.6	111.9			
ENERGY MATERIALS	11.69	103.4	103.7	102.5	100.6	101.3	105.2	106.4	105.7	102.1	99.1	97.5	100.8	98.4	100.0		
Primary energy	7.57	107.2	107.1	106.7	106.4	106.3	107.4	108.4	109.6	108.7	105.8	105.0	106.0	101.2			
Converted fuel materials	4.12	96.4	97.4	94.9	90.0	92.1	101.2	102.6	98.6	90.1	86.6	83.8	91.1	93.3			

NOTE: Two components—oil and gas well drilling and manufactured hoses—are included in total equipment but not shown here. They are shown in Tables 4A and 4B on page 8 and 9.

Table 2A  
**INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS**  
Seasonally adjusted, 1977 = 100

Major Industry Groupings	SIC Code	1977	1985	1985					1986							
		Pro- por- tion	An- Avg.	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
MINING AND UTILITIES		15.79	110.0	108.8	110.1	108.8	108.8	110.2	109.8	106.8	105.4	106.2	103.1	103.6	102.1	100.6
Mining		9.83	108.8	108.1	108.2	106.9	106.9	107.4	108.1	105.1	103.0	101.0	99.8	99.4	97.4	96.0
Utilities		5.96	111.9	110.0	113.3	111.8	111.9	114.8	112.5	109.7	109.3	109.4	108.5	110.4	109.8	108.2
MANUFACTURING		84.21	126.4	127.2	127.0	126.3	127.8	128.2	129.4	128.7	127.2	128.7	128.2	128.0	128.8	129.2
HONDURABLE		35.11	125.1	126.0	126.4	125.8	127.2	127.5	129.3	128.7	127.7	129.6	129.9	130.6	131.4	132.1
DURABLE		49.10	127.3	128.1	127.4	126.7	128.2	128.7	129.5	128.7	126.8	128.1	127.0	126.2	127.0	127.1
Mining																
Metal mining	10	.50	75.0	74.9	73.8	76.0	78.3	77.3	73.5	77.2	75.9	76.0	72.0			
Coal	11,12	1.60	126.8	125.0	126.9	122.9	125.8	128.6	130.8	126.5	128.7	124.4	128.0	127.3	120.2	
Oil & gas extraction	13	7.07	106.2	105.7	105.4	104.4	103.6	104.2	104.9	101.1	99.2	96.2	95.1	93.7	92.4	91.0
Stone & earth minerals	14	.66	118.3	118.1	118.8	118.5	118.0	114.6	113.5	116.8	111.6	115.0	112.4	114.5	112.6	
HONDURABLE MANUFACTURES																
Foods	20	7.96	130.2	131.5	132.2	129.8	131.5	132.1	132.0	132.9	132.2	133.1	133.7	134.0	134.1	
Tobacco products	21	.62	100.2	98.3	98.9	103.2	102.8	100.3	93.8	97.0	93.6	100.3	101.6	97.6		
Textile mill products	22	2.29	139.2	104.2	107.0	107.7	110.0	107.7	107.9	109.9	108.0	111.4	111.3	112.6	112.8	
Apparel products	23	2.79	100.9	100.0	101.8	102.1	103.8	104.5	105.5	102.8	102.8	103.1	102.6	101.7	102.1	
Paper & products	26	3.15	127.6	126.5	128.0	127.7	128.9	131.3	133.6	132.6	132.4	134.1	133.2	136.0	138.3	
Printing & publishing	27	4.54	153.9	155.8	151.4	154.5	156.8	157.6	160.9	156.7	157.8	161.6	161.9	163.2	165.0	165.7
Chemicals & products	28	8.05	127.1	127.9	129.1	127.3	128.2	128.1	131.7	132.0	130.2	132.8	131.5	133.1	138.2	
Petroleum products	29	2.40	86.8	89.2	85.3	87.9	87.6	88.9	94.7	90.1	88.6	91.3	95.7	91.9	90.4	93.7
Bubble & plastics prod.	30	2.80	146.9	148.2	148.8	149.0	150.1	149.4	150.2	151.1	147.8	146.8	150.1	152.2	153.5	
Leather & products	31	.53	68.5	70.7	70.1	68.2	68.7	66.4	65.4	64.8	62.7	61.5	59.5	57.9	60.0	
DURABLE MANUFACTURES																
Lumber & products	24	2.30	113.4	115.3	116.0	116.2	115.0	116.1	120.5	120.3	120.7	121.3	121.6	120.9		
Furniture & fixtures	25	1.27	139.7	140.9	142.8	140.0	142.2	140.5	141.2	143.2	142.9	145.9	146.2	147.1	148.9	
Clay, glass, stone prod.	32	2.72	115.5	116.4	117.4	116.1	116.7	118.2	120.0	119.3	120.0	121.6	120.2	120.8	118.9	
Primary metals	33	5.33	80.5	82.3	80.8	81.9	82.9	81.7	82.4	80.3	76.3	78.1	74.8	71.3	73.1	73.3
Iron & steel	33,24	3.49	70.4	72.3	70.3	72.4	73.9	71.6	72.2	69.5	64.3	65.6	60.2	58.3	61.3	
Fabricated metal prod.	34	6.46	107.3	107.8	106.7	107.9	107.6	108.2	109.2	108.5	107.6	108.2	106.5	106.6	105.7	106.5
Non-electrical machinery	35	9.54	145.3	145.8	144.2	141.7	144.8	146.2	144.9	143.9	141.7	140.8	141.3	140.4	142.0	140.5
Electrical machinery	36	7.15	168.4	165.8	164.5	164.2	166.9	168.7	166.1	164.8	165.2	166.8	166.0	163.2	167.2	167.7
Transportation equip.	37	9.13	121.4	125.0	124.5	123.3	124.8	128.0	128.2	127.5	122.6	124.2	125.1	125.2	124.8	
Motor vehicles & pts.	37,1	5.25	111.5	115.6	113.7	111.4	112.6	111.4	116.5	116.8	108.1	112.6	108.7	110.6	110.5	108.0
Aerospace & misc.	372-6,3	3.87	134.9	137.8	139.1	139.4	141.3	141.0	143.9	142.6	144.8	144.8	145.0	144.7	145.0	147.5
Instruments	38	2.66	139.1	141.0	140.0	138.8	139.9	140.4	141.5	141.9	142.0	142.4	140.3	139.9	138.5	140.0
Miscellaneous mfrs.	39	1.46	96.1	96.5	95.3	95.0	94.8	96.6	100.9	100.9	99.0	99.2	101.0	98.3	97.3	
UTILITIES																
Electric		4.17	119.7	117.6	120.8	119.4	120.1	122.4	119.7	119.5	119.8	121.6	121.7	123.3	122.0	

Table 3A  
**INDUSTRIAL PRODUCTION: PERCENT CHANGES**

Based on seasonally adjusted indexes

Series	1986												
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
CHANGE FROM PREVIOUS MONTH													
TOTAL INDEX	.8	-0.1	-0.6	1.0	-6.1	.5	-0.7	-1.3	.8	-0.4	-0.0	.3	-1.1
Final products	1.2	-0	-0.9	1.6	-1.1	.5	-0.8	-1.7	1.2	-0.4	-0.5	.6	-0.1
Consumer goods	1.3	-1	-0.5	1.8	-5.1	-4	-0.3	-1.2	2.2	-0.2	-0	.5	-2.1
Durable consumer goods	2.7	-1.2	-0.7	2.8	-0.1	.6	-5	-3.6	3.1	-1.8	-5	1.4	-0.6
Nondurable consumer goods	-.8	-.6	-0.5	1.5	-.8	-.3	-0.6	-0.4	1.9	-.3	-0.2	.2	-3.1
Business equipment	1.1	-0.4	-1.5	1.8	-0.5	1.1	-0.7	-2.0	1.6	-0.5	-1.2	1.0	-3.1
Construction Supplies	1.5	-0.1	-0.1	-.2	-0.6	3.5	-1	-1.1	0	-0.8	-0.1	.5	-1.6
Materials	-.3	-0.1	-0.4	.5	1.3	-.1	0	-0.6	-1.3	.5	-0.7	.2	-0.21
Durable goods materials	-.9	-1.1	-.1	-.9	-.6	-.2	-0.7	-1.7	-.7	-1.4	-0.5	.5	.01
Nondurable goods materials	-0.5	1.3	-0.5	-0.3	1.4	1.2	-0.1	-1.2	1.5	0	1.0	-.3	.91
Manufacturing	.8	-0.2	-0.5	1.2	-4.1	-.9	-0.6	-1.2	1.2	-0.4	-0.2	.6	-3.1
Durable manufacturing	1.0	-0.5	-0.6	1.2	-.4	-.6	-0.7	-1.5	1.0	-0.9	-0.7	.7	-0.1
Nondurable manufacturing	-.5	-.3	-0.5	1.1	-.3	1.4	-0.5	-0.8	1.5	-.2	-5	.6	-6.1
Mining and utilities	-.3	1.2	-1.2	-.0	1.3	-0.4	-2.7	-1.4	-1.1	-1.0	-.4	-1.4	-1.51
CHANGE FROM SAME MONTH A YEAR EARLIER													
TOTAL INDEX	1.1	1.6	1.2	1.7	2.31	2.9	1.7	-2	1.2	.5	-4	1.0	.31
Final products	2.5	2.9	1.6	2.6	3.01	3.8	2.2	-5	1.4	-.4	-.3	.8	.01
Consumer goods	2.6	2.9	2.0	3.0	3.51	4.8	3.6	2.1	4.7	3.8	3.6	4.6	3.41
Durable consumer goods	1.4	2.0	.6	2.2	1.81	4.8	3.6	-1.0	3.8	1.6	1.5	4.0	.61
Nondurable consumer goods	3.0	3.3	2.4	3.3	4.11	5.0	3.6	3.2	5.1	4.6	4.3	4.8	4.81
Business equipment	1.8	2.5	-.4	1.6	2.21	2.3	1.0	-0.9	-1.5	-2.1	-1.7	-1.4	-2.21
Construction Supplies	4.9	5.3	4.8	4.4	6.31	7.4	7.2	5.6	5.6	6.6	6.6	4.7	3.91
Materials	-1.6	-1.2	-0.3	-.0	-0.91	-.5	-0.1	-1.5	-0.3	-0.7	-0.7	-0.3	-0.71
Durable goods materials	-2.0	-2.5	-2.2	-1.5	-1.11	-1.1	-0.9	-2.9	-1.7	-1.9	-2.7	-1.4	-2.31
Nondurable goods materials	-.9	2.8	2.2	2.6	3.91	5.3	4.7	3.6	5.4	4.9	5.5	4.1	5.51
Manufacturing	1.9	2.1	1.3	2.2	2.61	3.6	2.8	-1.1	2.1	1.5	1.5	2.0	1.51
Durable manufacturing	1.2	1.3	.5	1.4	1.71	2.3	1.8	-0.4	-.4	-0.3	-0.6	.1	-0.81
Nondurable manufacturing	2.8	3.3	2.5	3.3	3.81	5.5	4.3	3.2	4.4	4.2	4.6	4.7	4.81
Mining and utilities	-2.8	-1.6	-.2	-1.0	-3.1	-1.3	-4.9	-5.2	-5.0	-5.9	-6.0	-5.9	-7.51

**Table 2B**  
**INDUSTRIAL PRODUCTION: INDUSTRY GROUPINGS**  
Not seasonally adjusted, 1977 = 100

Major Industry Groupings	SIC Code	1977		1985		1985				1986								
		Pro- portion	Avg.	Ann. Avg.	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
MINING AND UTILITIES		15.79	110.0	111.2	111.3	106.8	107.6	111.8	113.1	110.8	104.5	101.1	98.5	103.1	102.1	103.6		
Mining		9.83	108.8	108.8	108.7	108.8	108.7	108.5	108.0	106.5	103.2	99.7	98.2	98.4	94.1	96.8		
Utilities		5.96	111.9	115.1	115.6	103.7	105.7	117.3	121.5	117.9	106.7	103.4	98.9	111.0	115.3	114.9		
MANUFACTURING		84.21	126.4	129.6	131.8	129.8	127.4	123.4	124.7	127.5	126.6	128.1	127.9	131.4	126.5	131.9		
DURABLE		35.11	125.1	131.2	133.6	130.5	126.7	121.9	122.8	126.4	125.4	127.9	128.8	134.3	130.4	137.7		
NONDURABLE		49.10	127.3	128.5	130.6	129.3	127.9	124.5	126.1	128.3	127.5	128.2	127.2	129.3	123.7	127.8		
MINING																		
Metal mining	10	.50	75.0	73.8	72.7	75.2	74.3	67.5	69.9	77.8	77.8	79.8	79.5					
Coal	11,12	1.60	126.8	135.2	131.6	130.4	123.5	119.2	120.8	129.2	131.8	124.4	121.9	128.0	109.0			
Oil & gas extraction	13	7.07	106.2	104.2	104.5	104.7	106.4	108.6	108.3	103.3	98.3	94.1	92.7	91.3	90.4	89.7		
Stone & earth minerals	14	.66	118.3	121.1	125.2	125.5	123.6	112.4	102.3	107.8	105.0	115.3	114.7	117.8	112.7			
NONDURABLE MANUFACTURES																		
Foods	20	7.96	130.2	138.5	141.0	136.9	131.6	128.4	125.7	126.6	126.6	128.7	130.9	137.3	136.1			
Tobacco products	21	.62	100.2	103.9	103.4	113.7	106.9	76.9	94.6	102.5	95.1	99.2	94.9	108.6				
Textile mill products	22	2.29	103.2	109.3	111.6	114.1	110.8	96.5	102.0	111.0	109.5	112.2	114.4	117.4	102.5			
Apparel products	23	2.79	100.9	104.1	106.1	104.4	103.2	102.3	101.4	100.8	102.5	101.5	101.9	104.7	99.2			
Paper & products	26	3.15	127.6	126.7	129.4	131.0	127.1	122.7	133.6	136.7	133.2	139.5	128.4					
Printing & publishing	27	4.58	153.9	171.9	169.4	161.6	156.0	150.0	146.6	149.6	150.0	154.8	156.4	166.0	171.7	182.8		
Chemicals & products	28	8.05	127.1	129.4	135.8	129.5	126.9	123.7	125.2	129.7	127.8	132.6	132.1	137.2	135.6			
Petroleum products	29	2.40	86.8	92.4	88.6	89.0	90.1	89.9	88.4	84.8	82.9	88.2	95.6	96.0	94.9	97.0		
Rubber & plastics prod.	30	2.80	146.9	149.5	155.2	153.3	147.6	140.3	142.0	156.5	152.7	149.5	150.8	155.9	143.1			
Leather & products	31	.53	68.5	72.2	71.3	71.9	69.0	62.1	64.1	67.0	64.8	62.1	60.7	58.7	52.1			
DURABLE MANUFACTURES																		
Lumber & products	24	2.30	113.4	121.3	122.8	122.7	112.6	106.8	112.4	116.6	120.1	122.5	122.5	126.8				
Furniture & fixtures	25	1.27	139.7	145.8	148.5	144.3	143.7	138.8	138.5	149.7	143.5	143.2	141.2	147.2	137.4			
Clay, glass, stone prod.	32	2.72	115.5	121.9	120.9	122.1	118.5	112.2	111.5	113.3	116.6	121.8	121.4	124.7	120.1			
Primary metals	33	5.33	80.5	78.2	79.1	80.1	77.6	75.0	79.7	82.3	81.7	84.4	80.4	76.7	68.2	69.6		
Iron & steel	33,21	3.49	70.4	68.3	68.3	69.1	67.2	63.8	68.8	70.4	69.3	72.7	66.9	64.2	58.7			
Fabricated metal prod.	34	6.46	107.3	108.9	109.8	109.1	108.0	106.6	104.6	108.3	107.4	107.7	106.2	108.4	104.3	108.0		
Nonelectrical machinery	35	9.58	145.3	151.3	152.2	143.8	143.3	140.5	139.9	142.3	140.4	136.8	138.4	143.8	144.4	146.2		
Electrical machinery	36	7.15	168.4	165.8	167.5	169.7	169.5	166.5	165.0	164.1	164.8	166.2	164.6	163.3	161.7	167.8		
Transportation equip.	37	9.13	121.4	116.1	123.4	126.5	126.4	120.3	127.9	129.5	126.6	129.3	127.4	130.3	114.2	117.4		
Motor vehicles & pts.	371	5.25	111.5	103.0	112.2	117.2	114.0	101.5	115.3	119.9	113.9	117.9	114.5	120.0	94.7	98.4		
Aerospace & misc.	372-6,91	3.87	134.9	133.9	138.6	139.2	143.2	145.8	145.1	142.6	143.9	144.7	144.9	144.3	140.8	143.3		
Instruments	38	2.66	139.1	143.6	143.7	139.8	139.7	139.6	138.0	139.2	140.4	139.8	138.6	142.6	139.8	142.6		
Miscellaneous mfrs.	39	1.46	96.1	103.0	103.0	99.1	93.8	90.9	93.2	100.3	97.6	98.3	99.2	100.3	97.4			
UTILITIES																		
Electric		4.17	119.7	127.7	127.0	110.4	112.1	123.3	127.0	127.4	114.1	112.6	109.2	125.7	132.0			

**Table 3B**  
**INDUSTRIAL PRODUCTION: HISTORICAL DATA**  
Seasonally adjusted, 1977 = 100

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q I	Q II	Q III	Q IV	ANNUAL
<b>INDEX</b>																	
72	83.8	84.4	85.1	86.5	86.3	86.5	86.4	87.6	88.5	89.8	90.9	91.8	84.4	86.6	87.5	90.8	87.3
73	91.8	93.1	93.1	93.4	93.8	94.5	95.1	95.1	95.8	96.1	96.2	94.7	92.7	93.9	95.3	95.7	94.8
74	93.3	93.0	93.4	93.2	94.3	94.6	94.2	93.9	94.2	93.6	90.9	87.1	93.2	94.1	94.1	90.5	93.0
75	84.8	83.5	82.0	82.7	82.5	83.6	84.1	85.6	86.4	86.9	87.7	88.4	83.4	82.9	85.3	87.6	84.8
76	89.3	90.9	90.7	91.1	92.1	92.2	92.7	93.2	93.5	93.9	95.4	96.2	90.3	91.8	93.2	95.2	92.6
77	96.5	97.2	98.0	99.0	99.6	100.4	100.7	101.0	101.4	101.8	102.1	102.1	97.3	99.7	101.0	102.0	100.0
78	101.6	101.6	103.0	105.5	105.8	107.5	107.7	108.3	109.2	109.9	110.8	102.1	106.1	107.9	110.0	106.5	
79	110.3	110.9	111.2	109.9	110.9	110.9	110.5	110.2	110.4	111.0	111.0	111.0	110.8	110.6	110.4	111.0	110.7
80	111.3	111.4	111.4	109.1	106.2	105.0	104.8	106.3	107.7	108.5	110.7	111.0	111.4	106.8	106.3	110.1	108.6
81	111.0	111.2	111.6	110.6	111.2	112.0	113.4	112.8	111.5	110.8	109.0	107.4	111.2	111.3	112.5	108.9	111.0
82	105.4	107.0	105.8	104.5	103.6	103.0	102.5	102.0	101.3	100.5	100.6	100.5	106.1	103.7	102.0	100.6	103.1
83	102.5	103.3	104.2	105.6	106.9	107.8	109.8	111.6	113.7	114.4	114.8	115.5	103.3	106.8	111.7	116.9	109.2
84	118.5	119.3	119.9	120.5	121.0	121.9	122.8	123.0	122.4	122.1	122.7	122.7	119.3	121.1	122.7	122.5	121.4
85	122.7	123.2	123.4	123.3	123.6	123.6	123.4	124.4	124.3	123.6	124.8	125.6	123.1	123.5	124.0	124.7	123.8
<b>CHANGE*</b>																	
72	2.2	0.7	0.8	1.6	-0.2	0.2	-0.1	1.4	1.0	1.5	1.2	1.0	3.8	2.4	1.3	3.8	9.7
73	0.0	1.4	0.0	0.3	0.4	0.7	0.6	0.0	-0.7	0.3	0.1	-1.6	-2.1	1.3	1.5	0.4	8.1
74	-1.5	-0.3	0.4	-0.2	1.2	0.3	-0.4	-0.3	0.3	-0.6	-2.9	-4.2	-2.6	1.0	0.0	-3.8	-1.5
75	-2.6	-1.5	-1.8	0.9	-0.2	1.3	0.6	1.8	0.9	0.6	0.9	0.8	-7.8	-0.6	2.9	2.7	-8.8
76	1.0	1.8	-0.2	0.4	1.1	0.1	0.5	0.5	0.3	0.4	1.6	0.8	3.1	1.7	1.5	2.1	9.2
77	0.3	0.7	0.8	1.0	0.6	0.8	0.3	0.3	-0.4	0.4	0.3	0.0	2.2	2.5	1.3	1.0	8.0
78	-0.5	0.0	1.4	2.4	0.3	1.0	0.6	0.2	-0.6	0.8	0.6	0.8	0.1	3.9	1.7	1.9	6.5
79	-0.5	0.5	0.3	-1.2	0.9	0.0	-0.4	-0.3	0.2	0.5	0.0	0.0	0.7	-0.2	-0.2	0.5	3.9
80	0.3	0.1	0.0	-													

Table 4A

**INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985	1986						1987						
		Pro- por- tion	Annu- al Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
METAL MINING	101	.501	75.0	62.1	74.9	73.8	76.0	78.3	77.3	73.5	77.2	75.9	76.0	72.0		
Iron ore	1011	.151	87.7	56.4	94.2	96.7	94.7	102.4	74.2	76.7	83.8	82.0	82.7	84.3		
Nonferrous ores	102-6	.891	.351	69.6	61.5	63.4	65.0	68.2	69.2	76.4	74.3	74.5	72.6	71.5	68.9	
Copper ore	1021	.151	79.4	81.0	78.2	74.4	76.9	77.1	88.3	84.5	81.6	80.5	80.6			
Lead and zinc ores	1031	.051	66.0	64.9	60.9	59.2	66.0	62.2	65.6	73.4	69.3	67.9				
Gold and silver ores	1041	.021	142.8	135.7	139.7	150.3	149.8	157.0	149.6	160.7	171.8	156.9				
Ferroalloy ores	1061	.041	91.6	52.7	51.3	80.8	90.2	97.2	101.1	87.1	96.8	89.4	71.3	75.5	80.3	
ANTHRACITE	111	.021	66.6	63.2	59.5	62.5	62.7	61.4	61.4	68.8	72.8	65.6	75.3	62.6	63.8	55.0
BITUMINOUS	121	1.581	127.4	124.7	125.7	127.6	122.7	127.9	129.8	132.9	127.2	124.2	124.3	122.5	128.7	121.0
OIL AND GAS EXTRACTION	131	7.071	106.2	106.0	105.7	105.4	104.4	103.6	104.2	104.9	101.1	99.2	96.2	95.1	93.7	92.4
Crude oil & natural gas	1311	5.621	99.5	98.7	98.5	98.6	98.7	98.9	99.8	100.5	98.7	99.4	98.0	99.0	98.3	97.6
Crude oil, total	1312	3.461	108.1	110.8	108.0	107.3	107.8	107.9	108.6	108.9	107.6	108.2	106.8	107.5	107.0	107.0
Texas crude	1313	1.341	77.7	77.8	78.4	76.8	77.9	77.9	78.4	79.2	76.3	77.0	75.4	76.2	76.3	76.4
Alaska, Calif. crude	1314	.571	207.7	210.7	208.9	208.5	211.1	210.6	213.3	208.6	209.1	209.7	212.9	214.1	212.1	211.1
La. and other crude	1315	1.541	97.4	97.8	96.2	96.3	95.5	95.8	96.0	97.5	97.2	97.5	94.6	95.1	94.8	95.0
Natural gas	1316	2.161	85.7	83.6	83.2	84.7	84.1	85.5	85.7	87.2	84.3	85.4	83.9	85.3	84.4	
Natural gas liquids	1321	.471	98.9	97.7	97.5	96.4	97.2	98.7	99.4	104.6	103.7	99.3	97.3	101.1	97.7	
Propane	1322	.051	102.6	102.2	102.5	101.4	103.6	103.8	107.4	106.8	105.0	102.3	98.0	98.6	97.3	
Liquefied petroleum	1323	.421	98.4	97.2	98.9	95.9	96.5	98.2	98.5	104.3	103.6	98.9	97.2	101.3	97.7	
Oil & gas well drilling	1381	.991	147.5	151.7	150.9	149.6	141.2	136.7	131.8	130.5	113.2	96.4	76.5	67.8	60.9	58.4
FOODS	201	7.961	130.2	130.5	131.5	132.2	129.4	131.5	132.1	132.0	132.9	132.2	133.1	133.7	134.0	134.1
Meat products	2011	1.061	119.5	121.5	120.2	120.2	117.1	120.8	120.2	121.2	122.7	119.4	127.7	121.5	121.9	120.9
Beef	2012	.431	95.3	97.4	96.2	90.4	103.8	91.2	95.8	93.5	94.1	106.4	100.1	99.4	101.6	
Pork	2013	.251	112.8	114.8	116.7	115.1	110.4	108.9	108.7	110.9	114.3	108.2	114.4	108.4	104.3	106.5
Poultry	2014	.201	142.2	144.2	141.2	144.6	138.6	151.5	147.0	154.5	145.5	152.7	146.6	151.4		
Misc. meats	2015	.181	161.9	164.1	159.9	162.6	160.2	159.1	171.9	168.7	169.4	167.2	171.8	163.6	168.1	166.1
Dairy products	2021	.801	127.8	131.2	134.7	133.9	133.5	132.5	131.9	133.9	132.8	132.6	132.0	130.0	129.7	
Butter	2022	.011	115.8	123.8	126.1	133.7	123.7	122.9	124.6	117.6	120.7	121.7	116.4	111.0	108.9	106.5
Cheese	20221	.131	149.1	153.4	158.5	156.3	156.6	154.0	153.9	156.9	158.2	157.6	156.1	155.9	150.3	157.0
Concentrated milk	20231	.111	139.6	148.3	161.1	154.2	152.7	150.8	147.0	152.3	153.1	148.3	145.1	142.4	137.5	130.4
Frozen desserts	20241	.091	137.9	141.5	140.1	138.8	139.6	136.8	140.9	144.7	145.1	142.5	147.9	149.5	146.2	144.8
Canned and frozen food	2031	1.091	147.1	145.9	148.0	149.7	146.4	146.5	147.4	147.7	143.4	145.0	147.4	150.2	146.2	153.3
Grain mill products	2041	.941	131.3	132.5	132.1	132.0	131.9	132.0	133.2	132.2	133.9	130.5	134.3	135.0	135.9	133.8
Flour	20421	.121	113.0	110.5	113.6	114.9	115.3	130.4	112.9	115.2	122.5	111.6	116.3	117.0	121.8	119.9
Bakery products	2051	1.001	127.9	125.0	129.2	129.5	127.9	130.4	130.0	137.3	133.0	131.3	133.2	129.9	133.1	131.0
Beverages	2081	1.411	126.3	126.3	126.9	129.2	122.5	125.6	122.1	129.3	126.6	127.7	130.5	132.1	130.8	
Beer and ale	20821	.381	113.2	109.6	113.1	110.3	105.4	112.9	115.2	116.0	119.8	115.6	115.4	115.0	117.1	
Wine and brandy	20841	.071	104.4	103.9	178.5	175.6	168.3	163.7	161.9	159.8	176.2	164.7	191.8	207.1		
Soft drinks	20861	.791	136.1	133.5	133.4	139.6	135.9	135.7	136.4	129.3	138.5	138.2	137.4	140.2	146.5	141.2
Liquor	20851	.161	92.8	105.8	105.5	103.1	77.6	86.5	81.8	84.7	80.6	80.3	81.0	86.2		
Fats and oils	2071	.271	120.9	122.4	118.4	123.0	124.0	119.2	119.7	121.7	116.7	119.8	125.3	117.8	121.5	124.6
Coffee & misc. foods	2091	.791	139.8	139.8	138.8	137.3	139.4	142.5	146.2	147.1	145.0	142.4	142.7	140.9		
TOBACCO PRODUCTS	211	.641	100.2	98.8	98.3	98.9	103.2	102.8	100.3	93.8	97.0	93.6	100.3	101.6	97.6	
cigarettes	2111	.541	100.6	99.4	98.2	99.2	107.7	103.7	103.5	90.9	99.4	92.2	106.5	104.3	97.3	
Cigars	2112	.021	74.8	87.2	76.5	70.0	69.1	65.3	66.2	64.9	63.6	61.0	75.8	87.0	72.7	
TEXTILE MILL PRODUCTS	221	2.291	103.2	104.3	104.2	107.0	107.7	110.0	107.7	107.9	109.9	108.0	111.4	111.3	112.6	112.8
Fabrics	2211	.771	98.3	99.0	99.8	102.0	104.9	109.1	105.8	106.9	108.2	106.5	108.5	107.7	109.4	108.7
Cotton fabrics	2212	.281	108.4	109.9	113.1	114.6	117.5	122.2	118.6	123.5	124.4	124.0	127.2	126.0	129.1	125.2
Man-made fabrics	2221	.461	93.8	94.8	94.1	96.8	100.2	104.6	100.9	99.6	100.3	97.9	100.3	100.1	101.0	102.6
Knit goods	2251	.551	101.0	98.7	102.1	103.7	104.7	107.3	103.1	103.7	106.4	101.6	107.2	106.9	106.6	
Hosiery	22511	.121	145.0	130.0	149.3	148.3	155.1	159.9	139.0	153.6	152.8	144.6	167.0	150.5	150.8	
Knit garments	22534	.791	88.4	89.7	88.6	91.0	90.2	92.2	92.8	89.5	93.1	89.3	93.1	94.8	94.3	94.4
Fabric finishing	2261	.201	81.5	78.6	79.7	81.5	87.6	90.9	88.5	88.1	89.3	84.7	84.6	86.5	83.1	89.3
Carpeting	2271	.221	139.8	147.5	145.0	141.5	141.2	146.0	145.4	157.7	141.2	134.1	136.6	137.3	140.8	147.4
Yarns & misc. text.	2281	.951	105.7	105.5	106.9	110.9	105.7	112.7	113.0	116.5	112.5	111.7	116.1	121.1	121.6	
APPAREL PRODUCTS	231	2.791	100.9	99.9	100.0	101.8	102.1	103.8	104.5	105.5	102.8	102.8	103.1	102.6	101.7	102.1
LUMBER AND PRODUCTS	241	2.301	113.4	113.8	115.3	116.0	116.2	115.0	116.1	120.5	120.3	120.7	121.3	121.6	120.9	
Logging and lumber	24121	1.051	101.3	100.3	104.5	104.3	102.7	103.5	103.1	106.7	108.6	110.2	104.7	110.2	107.3	108.2
Lumber products	243-5	.91	125.1	123.6	126.2	126.2	126.8	125.7	125.8	133.0	128.3	129.4	135.5	131.5		
Hillwork & plywood	2431	.671	140.7	146.3	143.3	146.1	146.1	144.9	144.4	158.1	151.3	153.7	164.5	159.1	160.6	
Manufactured homes	2451	.251	101.1	100.3	101.9	100.2	102.3	100.2	98.6	96.0	90.4	89.9	86.9	83.5	85.0	
FURNITURE AND FIXTURES	251	1.271	139.7	145.7	140.9	142.8	140.0	142.4	140.5	141.2	143.2	142.9	145.9	146.2	147.1	148.9
Household furniture	2511	.791	114.0	115.5	113.6	115.7	118.4	115.9	118.6	118.8	115.6	117.4	119.3	117.2	121.1	
Fixt., office furn.	252,4,9	.471	182.1	186.5	184.5	183.7	180.1	185.0	183.9	185.3	184.5	188.3	194.8	192.1	198.4	191.5
PAPER AND PRODUCTS	261	3.151	127.6	128.6	126.5	128.0	127.7	128.9	131.3	133.6	132.6	132.4				

Table 4B  
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977		1985		1985				1986						
		Proportion	Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
ETAL MINING	101	.501	75.0	61.1	73.8	72.7	75.2	74.3	67.5	69.9	77.8	77.8	79.4	79.5		
ron ore	1011	.151	87.7	63.1	104.5	91.8	89.7	81.7	50.3	60.7	81.5	82.9	95.9	102.7		
onferrous ores	102-6,8,91	.351	69.6	60.2	60.7	64.5	69.0	71.1	74.9	73.8	76.2	75.7	72.4	69.7		
Copper ore	1021	.151	79.4	75.3	72.6	73.3	78.3	80.6	85.7	83.6	83.0	84.5	82.3			
Lead and zinc ores	1031	.051	66.0	59.0	59.8	58.7	68.4	61.7	64.4	74.5	74.8	72.1				
Gold and silver ores	104	.021	142.8	133.0	141.6	157.2	151.6	155.7	150.4	147.8	164.4	159.6				
Ferroalloy ores	1061	.041	91.6	45.9	54.7	81.0	92.6	99.6	89.9	82.2	95.4	92.5	72.7	83.4	83.7	
ETHACITE	111	.021	66.6	65.2	68.5	66.7	71.5	67.8	66.1	58.9	62.9	64.4	60.5	59.2	62.7	56.6
ITUMINOUS	121	1.581	127.4	112.9	130.0	132.3	131.1	124.2	119.8	121.5	129.9	132.5	125.1	122.6	128.8	109.6
IL AND GAS EXTRACTION	131	7.071	106.2	103.8	104.2	104.5	104.7	106.4	108.6	108.3	103.3	98.3	94.1	92.7	91.3	90.4
rude oil & natural gas	1311	5.621	99.5	97.3	97.2	97.6	98.2	99.3	101.5	102.6	101.2	99.7	97.8	97.5	97.1	96.3
Crude oil, total	1311	3.461	108.1	107.8	107.8	107.5	108.3	108.2	108.2	108.3	108.3	108.3	106.7	107.3	106.9	106.8
Texas crude	1311	1.341	77.7	77.4	77.8	76.8	77.7	78.3	78.1	78.5	76.7	72.6	75.9	76.4	76.1	76.0
Alaska, Calif. crude	1311	.571	207.7	210.8	208.4	208.7	211.5	208.9	211.5	210.1	210.3	210.4	212.2	213.2	212.4	212.2
La. and other crude	1311	1.541	97.4	97.1	96.4	96.5	96.6	96.8	95.9	96.4	97.9	97.0	94.3	94.8	94.4	94.3
Natural gas	1311	2.161	85.7	80.5	80.3	81.9	82.0	85.1	90.8	93.5	89.9	85.9	83.5	81.9	81.4	
natural gas liquids	1321	.471	98.9	97.6	98.4	96.6	97.2	102.2	101.1	104.3	98.9	95.6	98.1	95.9		
Propane	1321	.051	102.6	99.6	100.2	98.6	101.9	105.7	109.0	111.0	108.8	102.3	98.0	98.6	95.5	
Liquefied petroleum	1321	.421	98.4	97.3	98.2	96.4	96.6	101.8	102.1	103.8	103.8	98.5	95.4	98.1	96.0	
il & gas well drilling	1381	.991	147.5	143.4	146.3	147.4	144.8	148.5	152.8	142.7	114.4	90.5	72.2	62.4	56.5	55.2
OODS	201	7.961	130.2	132.4	138.5	141.0	136.9	131.6	128.4	125.7	126.0	126.6	128.7	130.9	137.3	136.1
eat products	2011	1.061	119.5	115.3	121.1	123.3	126.7	122.8	116.6	120.7	118.4	118.9	127.0	120.6	121.8	114.8
Beef	2011	.431	95.3	94.5	99.3	99.0	96.8	103.4	88.6	98.1	92.2	90.3	100.9	98.7	101.1	98.5
Pork	2011	.251	112.8	100.8	108.6	114.4	119.5	115.8	111.4	111.4	110.1	112.1	118.4	108.6	101.8	93.5
Poultry	2011	.201	142.2	146.6	151.3	148.1	158.3	135.2	136.0	138.8	143.4	139.8	152.0	149.4	159.4	
Misc. meats	2011	.181	161.9	151.1	157.6	167.1	174.0	166.0	170.6	168.6	165.9	174.5	174.3	158.1	157.5	152.9
airy products	2021	.801	127.8	81.3	133.3	128.9	124.7	121.6	123.4	125.7	131.7	136.0	141.3	144.1	144.8	134.7
Butter	2021	.011	115.8	99.8	98.0	107.3	114.8	113.7	127.2	143.1	142.9	134.7	133.6	124.3	105.4	85.8
Cheese	2021	.131	149.1	115.0	148.9	146.4	150.6	149.4	152.7	149.4	154.8	162.2	167.1	168.5	166.3	154.1
Concentrated milk	20231	.111	139.6	61.1	161.3	153.2	133.5	130.4	125.3	135.7	144.7	151.9	153.2	166.4	167.0	164.0
Frozen desserts	20241	.091	137.9	91.7	165.1	150.4	125.0	110.9	106.1	107.1	128.4	144.7	151.1	166.8	185.8	177.7
anned and frozen food	2031	1.091	147.1	148.1	162.7	177.9	168.4	146.2	135.4	132.2	134.6	136.5	134.3	140.2	147.2	155.6
rain mill products	2041	.941	131.3	132.3	137.6	138.6	134.0	130.8	132.6	131.0	132.2	128.7	129.8	130.9	136.3	133.2
Flour	20411	.121	113.0	99.2	116.7	120.4	119.2	108.7	113.4	129.1	114.6	112.9	115.2	119.6	113.0	
bakery products	2051	1.001	127.9	91.7	143.2	144.2	131.7	128.1	123.4	126.1	121.9	121.0	124.6	126.3	139.8	144.1
beverages	2081	1.411	126.3	135.1	138.7	148.3	125.7	119.7	113.1	111.5	118.7	120.6	126.3	131.7	144.1	140.2
Beer and ale	20821	.381	113.2	212.5	121.5	106.3	96.6	93.8	92.0	105.7	116.2	118.1	126.0	128.1	136.3	
Wine and brandy	20841	.071	164.4	161.2	187.4	171.6	200.9	177.7	161.2	132.5	156.6	170.0	190.0	206.0		
Soft drinks	20861	.791	136.1	147.2	149.8	156.1	139.3	132.6	127.4	119.6	124.9	125.7	130.0	136.5	155.8	155.7
Liquor	20891	.161	92.8	88.9	104.3	113.5	95.3	93.2	72.2	76.3	77.7	80.6	80.6	83.9		
ats and oils	2071	.271	120.9	111.3	112.1	120.3	129.9	127.0	125.5	124.1	121.4	122.3	120.7	115.2	119.4	113.4
offee & misc. foods	2091	.791	139.8	143.2	149.9	143.3	143.3	145.0	153.9	141.4	140.0	135.1	134.0	139.7	142.2	145.4
OBACCO PRODUCTS	211	.621	100.2	86.7	103.9	103.4	113.7	106.9	76.9	94.6	102.5	95.1	99.2	94.9	108.6	
igarettes	2111	.541	100.6	86.9	105.3	103.3	114.9	106.2	76.1	96.6	104.7	97.1	101.9	96.4	110.1	
igars	2121	.021	74.8	68.8	81.9	75.8	79.6	66.8	50.1	64.1	66.6	65.8	72.6	88.8	75.5	
TEXTILE MILL PRODUCTS	221	2.291	103.2	94.8	109.3	111.6	114.1	110.8	96.5	102.0	111.0	109.5	112.2	114.4	117.4	102.5
abrics	2211	.771	98.3	86.1	104.5	112.0	110.0	91.6	106.7	113.1	110.0	110.3	111.8	110.7	94.5	
Cotton fabrics	2211	.281	108.4	94.6	117.6	115.7	127.1	123.4	100.8	123.7	129.8	128.5	129.8	131.9	128.5	107.8
Man-made fabrics	2221	.401	93.8	81.4	98.2	97.9	106.7	105.4	86.1	100.3	106.4	101.8	102.1	103.8	102.8	88.1
nit goods	2251	.551	101.0	103.8	110.6	113.4	107.3	103.5	92.1	88.9	101.2	99.0	108.7	108.1	117.8	112.3
Bosier	22511	.121	145.0	01145.4	139.0	144.3	153.2	149.3	124.5	147.2	154.3	151.3	178.6	151.8	160.6	
Knit garments	22534,7-91	.431	88.4	91.9	119.2	102.5	104.5	94.2	90.4	82.9	72.3	88.1	84.1	88.7	95.6	105.5
abric finishing	2261	.201	81.5	57.3	82.7	81.1	93.5	93.1	80.0	85.3	94.7	91.1	89.3	90.9	85.6	65.2
arpeting	2271	.221	139.8	81.4	146.0	139.6	156.7	158.2	146.6	130.4	122.9	127.9	139.3	148.8	143.4	146.0
arns & misc. text.	2283,91	.551	105.7	91.3	115.0	114.6	113.7	111.6	100.3	106.5	116.8	114.1	112.3	121.5	125.8	104.2
APPAREL PRODUCTS	231	2.791	100.9	97.1	104.1	106.1	104.4	103.2	102.3	101.4	100.8	102.5	101.5	101.9	104.7	99.2
UMBER AND PRODUCTS	241	2.301	113.4	4112.0	121.3	122.8	122.7	112.6	104.8	112.4	116.6	120.1	122.5	122.5	126.8	
oggling and lumber	2411	1.051	101.3	98.9	119.4	111.9	110.4	99.7	91.6	106.2	109.4	105.5	108.7	115.3	106.5	
umber products	243-5,91	1.251	123.6	112.3	131.4	132.0	132.9	123.4	115.9	124.5	125.3	129.0	136.7	134.1	136.4	
Millwork & plywood	2431	.671	140.7	71142.9	149.4	152.9	153.8	148.8	136.9	151.6	146.9	151.2	163.0	160.7	164.9	
Manufactured homes	2491	.251	101.1	98.2	117.5	108.9	117.2	93.1	72.0	76.8	87.7	91.5	97.9	96.0	96.6	83.2
'URNITURE AND FIXTURES	251	1.271	139.7	1134.5	145.8	148.5	144.3	143.7	138.8	138.5	149.7	143.5	143.2	141.2	147.2	137.4
ousehold furniture	2511	.741	114.0	01102.8	117.5	121.0	118.3	119.2	113.9	113.2	125.2	118.0	117.0	115.9	119.5	107.8
ext., office furn.	252,4,9	.471	182.1	11185.5	192.7	194.2	187.2	183.9	178.7	180.3	192.0	180.6	187.2	184.7	193.4	190.5
APER AND PRODUCTS	261	3.151	127.6	1121.1	126.7	129.4	131.0	127.1	122.7	133.6						

Table 4A—continued

**INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977 Pro- totype tion	1985 Annu- al Avg.	1985				1986									
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
PRINTING & PUBLISHING	27	4.54	153.91	154.3	155.8	153.4	154.5	156.8	157.6	160.9	156.7	157.8	161.6	161.9	163.2	165.0	
Newspapers	271	1.35	133.51	134.2	136.3	134.9	133.8	134.6	136.6	140.2	135.0	135.5	137.4	139.2	141.5	147.1	
Period., books, cards	272,3,71	1.24	151.01	150.5	151.5	150.8	152.9	153.2	155.1	159.1	151.8	152.4	154.9	156.8	156.1	158.8	
Job printing	274-6,8,91	1.95	169.81	169.2	172.7	169.3	169.2	172.9	174.9	177.3	175.9	178.1	182.5	179.6	183.6	184.7	
CHEMICALS & PRODUCTS	28	8.05	127.1	127.2	127.9	129.1	127.3	128.2	128.1	131.7	132.0	130.2	132.8	131.5	133.1	134.2	
Chemicals & syn. mat.	281,2,6	3.86	117.71	118.7	117.9	119.2	119.2	117.4	119.3	123.6	121.7	119.5	120.1	121.6	122.2	123.6	
Basic chemicals	281	.92	98.81	101.9	97.5	97.4	100.3	95.4	98.7	102.4	103.2	95.5	95.2	100.7	98.4	98.1	
Alkalies & chlorine	2812	.12	97.21	98.8	95.3	94.6	95.1	88.8	96.2	98.3	99.8	95.8	96.5	97.8	98.8	98.1	
Industrial Gases	2813	.10	120.31	121.4	122.9	123.6	118.6	121.3	126.9	131.1	129.7	124.6	125.3	110.4	126.2	128.9	
Inorganic pigments	2816	.08	91.81	97.6	92.5	88.9	91.7	90.4	105.9	107.8	100.5	99.3	96.9	107.9	92.1	106.2	
Inorganic chem, nec	2819	.62	96.41	99.8	94.3	94.6	99.3	92.7	87.5	97.7	100.4	89.3	89.8	98.9	94.7	91.8	
Acids & other chem.	281	.40	95.01	100.5	93.3	93.9	102.3	92.1	88.0	100.2	104.6	87.3	88.5	102.8	95.9	91.0	
Synthetic materials	2821	1.11	149.41	151.4	151.6	156.2	152.7	150.5	156.31	163.3	157.6	157.5	158.8	157.5	158.0	164.8	
Plastics materials	2821	.59	197.41	202.1	201.5	205.8	205.2	201.2	211.1	221.6	207.5	210.3	213.3	211.3	216.5		
Synthetic rubber	2822	.08	96.81	97.3	101.3	100.5	89.9	86.0	80.31	99.6	107.2	111.5	111.3	104.6			
Man-made fibers	2823,41	.44	95.31	94.1	94.8	100.8	94.5	95.2	97.5	97.6	100.8	96.1	95.3	95.9	92.1	99.2	
Indust. organic chem.	2861	1.83	107.91	107.3	107.6	107.7	108.3	108.3	109.2	110.1	109.2	108.4	109.0	110.2	112.4	111.3	
Chemical products	283-5,9	3.65	141.71	141.2	141.5	144.9	142.0	145.6	144.91	147.4	148.2	143.0	155.0	150.8	151.6	155.8	
Drugs & medicines	2831	1.41	129.01	129.4	128.5	133.8	128.7	131.4	129.1	129.2	131.8	127.8	141.4	134.7	135.8	137.0	
Soap & toiletries	284	1.34	170.41	168.3	170.3	173.7	171.8	177.1	179.5	184.3	185.1	179.9	193.9	191.7	193.4	202.3	
Paints	285	.40	99.51	99.1	100.2	100.8	100.5	102.2	100.1	102.7	102.6	98.1	108.6	102.3	98.0	101.8	
Agricultural chemicals	287	.54	96.11	94.8	93.3	97.0	96.4	89.7	83.31	82.5	88.3	88.9	89.6	90.8	85.7	81.9	
PETROLEUM PRODUCTS	29	2.40	86.81	87.2	89.2	85.3	87.9	87.6	88.9	94.7	90.1	88.6	91.3	95.7	91.9	90.4	
Petroleum refining	291,9	2.21	85.71	86.8	88.3	84.0	87.1	87.1	88.2	91.7	91.8	88.2	86.2	90.9	94.8	91.3	
Automotive gasoline	291	.96	91.01	93.1	96.1	87.9	92.5	91.0	92.3	94.5	92.5	89.3	95.3	100.8	97.4	95.6	
Distillate fuel oil	293	.43	81.61	78.9	76.9	79.1	86.8	90.7	92.7	86.8	79.6	86.1	92.2	89.5	82.4		
Residual fuel oil	294	.15	49.71	41.9	46.2	47.7	52.4	51.0	53.4	49.6	46.2	46.9	52.4	54.4	49.4		
Aviation fuel & keros.	298	.18	109.41	107.9	108.1	111.0	114.1	117.6	114.8	126.8	125.7	117.7	111.6	113.4	117.3		
Misc. petroleum prod.	299	.48	81.31	88.0	88.8	82.1	77.7	76.4	77.4	89.9	86.6	80.8	85.5	93.6	90.7		
Refinery fuel, nec	301	.09	109.51	116.3	115.3	107.1	112.6	111.8	117.6	128.8	122.8	117.0	120.5	124.4	122.0		
Refinery nonfuel mat.	301	.26	66.21	73.0	75.7	69.9	59.6	60.6	64.2	78.4	71.1	65.9	68.7	75.9	73.8		
Refinery products, nec	301	.13	92.01	98.3	96.8	89.3	89.5	83.7	76.5	86.6	92.7	85.8	94.9	107.7	102.9		
RUBBER & PLASTICS PROD.	30	2.80	146.91	147.5	148.2	148.8	149.0	150.1	149.4	150.2	151.1	147.8	146.8	150.1	152.2	153.5	
Tires	301	.62	109.41	100.3	112.1	117.9	109.2	108.8	103.9	105.0	105.2	104.2	100.5	100.1	100.8		
Bub.prod.ex.tires	302-4,6	.51	118.11	118.7	120.0	117.0	117.8	118.0	117.6	121.7	125.7	121.5	108.9	122.9	123.6	125.2	
Plastics products, nec	307	1.67	169.61	170.8	171.2	172.4	174.0	175.7	177.2	177.2	173.3	172.8	177.7	180.6	182.9		
LEATHER AND PRODUCTS	31	.53	68.51	69.2	70.7	70.1	68.2	68.7	66.4	65.4	64.8	62.7	61.5	59.5	57.9	60.0	
Pers. leather gds	313,5-7,9	.16	78.31	78.4	79.3	80.0	80.1	78.8	77.9	77.9	76.3	75.9	74.2	72.4	72.3	68.8	
Shoes	314	.29	63.71	64.3	67.4	64.9	62.4	62.9	60.2	60.4	60.5	56.7	57.6	53.4	50.7	57.5	
CLAY, GLASS & STONE PROD.	32	4.72	115.51	116.6	116.4	117.4	116.1	116.7	118.2	120.0	119.3	120.0	121.6	120.2	120.8	118.9	
Pressed & blown glass	322	.51	105.91	107.9	106.5	108.5	108.7	107.5	109.7	108.3	110.9	111.8	107.9	112.0	111.5	113.1	109.5
Glass containers	3221	.30	91.91	95.0	92.1	95.9	94.0	97.2	94.0	96.2	95.4	94.0	97.0	95.2	97.0	96.6	
Cement	324	.24	103.81	104.9	101.9	104.9	100.8	95.7	101.6	125.3	108.5	109.8	114.7	106.4	105.1	106.2	
Structural clay prod.	325	.15	113.11	115.5	121.3	119.2	124.6	123.7	124.3	110.2	117.3	114.0	124.3	123.9	126.2	138.3	
Brick	3251	.07	88.91	97.6	93.1	85.8	93.2	89.4	90.4	94.3	92.0	86.3	94.6	87.9	90.9	100.0	
Clay sewer pipe	3259	.02	44.21	53.0	46.0	42.6	41.0	35.5	36.7	27.0	32.9	20.1	31.6	37.1	32.8	35.4	
Clay tile	3253,51	.07	156.31	150.5	170.1	173.6	178.9	182.2	182.31	149.8	165.8	167.5	179.4	183.8	187.1		
Concrete and misc.	326-91	1.55	120.51	121.5	121.6	121.1	119.8	121.7	124.2	124.6	121.9	124.3	124.9	123.7	123.7	119.6	
PRIMARY METALS	33	5.33	80.51	78.5	82.3	80.8	81.9	82.9	81.7	82.4	80.3	76.3	78.1	74.8	71.3	73.1	
Iron and steel	331,2	3.49	70.41	67.7	72.3	70.3	72.4	73.9	71.6	72.2	69.5	64.3	65.6	60.2	58.3	61.3	
Basic st. & mill prod.	3311	2.60	73.41	70.6	75.6	74.0	74.5	76.9	76.0	80.4	76.2	71.2	70.9	67.7	64.3	67.2	
Basic iron and steel	3311	1.11	64.31	63.2	66.4	65.0	65.0	65.0	61.4	68.2	66.1	62.9	63.0	59.4	55.9	55.4	
Pig iron	3312	.42	61.61	58.6	62.4	61.1	62.2	64.0	61.3	66.5	64.5	59.3	59.8	56.2	51.3	50.2	
Raw steel	331	.51	70.21	70.5	73.4	71.5	71.3	69.7	64.8	74.0	71.5	68.7	69.7	65.4	63.6	63.7	
Steel mill products	334	1.49	80.11	76.0	82.3	80.7	81.5	85.7	86.7	89.4	83.7	77.3	76.7	73.8	70.5	76.0	
Consumer dur. steel	3341	.38	61.31	53.7	59.0	61.4	64.3	65.9	54.5	69.9	66.8	58.9	59.3	56.9	52.1	50.9	
Equipment steel	336	.36	47.01	42.7	50.9	47.0	46.6	48.0	46.8	51.0	46.2	43.6	40.4	38.7	36.3	37.8	
Construction steel	339	.19	76.91	77.3	83.0	84.3	80.7	83.8	80.0	82.8	76.7	71.1	74.0	72.9	70.6	77.6	
Can & closure steel	340	.10	60.21	62.8	70.8	65.1	54.4	58.1	67.0	59.0	57.4	59.6	61.2	57.2	57.4	69.0	
Misc. steel	346	.46	127.01	122.7	128.1	124.7	128.9	138.1	151.3	144.5	135.4	125.1	123.6	119.0	115.0	127.3	
Iron & steel foundries	3321	.89	61.5	61.5	62.3	60.5	60.0	59.8	59.1	46.3	46.1	45.4	51.2	42.3	44.9	45.4	
Nonferrous metals	333-6,91	1.85	99.71	98.8	101.3	100.4	100.0	100.0	100.8	101.8	100.8	98.8	101.6	102.3	96.0	95.3	
Primary nonf. metals	3331	.51	90.71	89.5	94.3	89.4	86.9	82.5	86.8	87.6	83.0	84.7	83.3	85.4	76.2	76.8	
Copper	33311	.13	92.11	95.9	100.8	85.9	92.6	92.0	95.3	97.0	86.9	85.5					

Table 4B—continued

**INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Not seasonally adjusted, 1977 = 100

Series	SIC Code	1977	1985	1985						1986						
		Pro- por- tion	Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
PRINTING & PUBLISHING	271	4.54	153.9	160.6	171.9	169.4	161.6	156.0	150.0	146.6	149.6	150.0	154.8	156.4	166.0	171.7
Newspapers	2711	1.35	133.5	120.9	128.9	136.4	143.9	147.4	137.6	126.2	133.5	136.4	142.4	143.1	139.5	132.1
Period., books, cards	272,3,71	1.24	151.0	162.9	172.4	169.7	156.3	147.5	145.1	147.4	145.9	142.6	145.6	148.7	159.6	168.7
Job printing	274-6,8,91	1.95	169.8	186.6	201.5	192.0	177.3	167.4	161.8	160.1	163.1	164.2	169.3	170.5	188.4	203.7
CHEMICALS & PRODUCTS	281	8.05	127.1	128.5	129.4	135.8	129.5	126.9	123.7	125.2	129.7	127.8	132.6	132.1	137.2	135.6
Chemicals & sys. mat.	281,2,61	3.86	117.7	115.5	114.5	121.0	119.0	117.2	117.4	119.9	124.0	122.3	122.7	122.0	124.2	120.1
Basic chemicals	2811	.92	98.8	98.4	95.0	99.3	100.0	94.9	92.4	97.7	107.1	98.6	98.2	99.7	100.5	94.7
Alkalies & chlorine	28121	.121	97.2	98.6	92.3	96.2	93.8	89.0	95.9	91.8	98.1	98.9	99.2	98.1	101.7	98.7
Industrial Gases	28131	.101	120.3	117.3	121.6	124.8	116.1	121.2	123.2	127.0	133.1	128.3	129.5	111.9	127.7	124.5
Inorganic pigments	28161	.081	91.8	93.5	86.7	97.8	88.2	89.5	95.5	96.7	108.0	103.1	104.9	106.1	98.9	101.7
Inorganic chem, nec	28191	.621	96.4	95.8	92.2	95.9	100.0	92.3	86.1	94.0	104.4	92.9	91.8	97.2	96.0	88.1
Acids & other chem.	28192	.401	95.0	94.3	90.4	96.3	102.9	91.1	81.3	94.6	111.8	93.0	91.6	99.5	97.9	85.4
Synthetic materials	2821	1.111	149.4	143.5	145.3	160.3	153.0	149.1	150.4	154.4	163.2	164.8	164.5	159.9	162.8	156.2
Plastics materials	28211	.591	197.4	191.7	193.3	213.2	205.9	198.5	199.4	205.7	215.2	223.1	221.5	215.2	224.2	
Synthetic rubber	28221	.081	96.8	90.9	93.3	100.3	93.1	93.5	80.0	101.2	106.6	112.0	112.4	105.6		
Man-made fibers	2823,41	.441	95.3	89.3	91.4	101.1	93.9	93.8	98.2	96.2	104.7	97.2	98.5	96.7	94.0	94.1
Indust. organic chem.	2861	1.831	107.9	107.0	106.3	108.0	107.9	108.9	109.9	110.0	108.7	108.5	109.7	110.2	112.6	110.9
Chemical products	283-5,9	3.651	141.7	148.0	150.6	157.3	145.6	142.6	136.1	137.6	141.9	138.9	148.6	148.7	158.7	163.2
Drugs & medicines	2831	1.411	129.0	142.3	139.8	149.3	133.2	129.0	120.4	118.3	120.2	119.5	133.7	130.4	145.1	150.7
Soap & toiletries	2841	1.341	170.4	172.0	180.5	189.2	177.7	176.7	172.7	174.6	182.9	176.4	181.6	186.2	195.1	206.8
Paints	2851	.401	99.5	105.4	109.4	104.4	96.7	85.9	72.6	84.5	96.7	101.8	119.5	117.3	121.1	108.2
Agricultural chemicals	2871	.541	96.1	90.5	90.1	96.8	96.2	90.9	84.2	79.9	88.3	91.7	94.3	91.3	85.4	78.4
PETROLEUM PRODUCTS	291	2.401	86.8	91.6	92.4	88.6	89.0	90.1	89.9	88.4	84.8	82.9	88.2	95.6	96.0	94.9
Petroleum refining	291,91	2.211	85.7	90.1	90.4	86.1	87.0	88.5	89.4	88.7	84.9	82.8	87.8	94.4	94.5	93.1
Automotive gasoline	2911	.961	91.0	96.2	96.8	89.8	90.3	92.1	94.6	92.7	89.5	86.2	92.4	100.8	101.0	98.8
Distillate fuel oil	2912	.431	81.6	80.6	78.8	79.6	88.4	94.5	96.7	88.3	78.1	80.6	84.9	87.0	83.3	
Residual fuel oil	2913	.151	49.7	39.2	42.3	45.9	52.1	52.6	60.2	53.3	48.9	46.2	52.9	52.1	46.7	
Aviation fuel & keros.	2918	.109.4	108.0	108.0	110.9	115.1	121.3	117.3	127.0	127.4	119.5	107.6	108.9	115.1		
Misc. petroleum prod.	2981	.481	81.3	96.3	96.8	88.3	79.9	75.3	71.3	78.1	77.6	76.2	84.8	96.2	99.3	
Refinery fuel, nec	2991	.091	109.5	122.2	120.0	110.9	109.6	111.6	117.9	122.9	117.6	113.4	116.1	124.3	128.6	
Refinery products, nec	2992	.261	66.2	76.3	74.9	69.4	58.5	59.7	61.6	71.7	70.0	67.7	71.5	77.6		
RUBBER & PLASTICS PROD.	301	2.801	146.9	137.5	149.5	155.2	153.3	147.6	140.3	142.0	156.5	152.7	149.5	150.8	155.9	143.1
Tires	3011	.621	109.4	83.7	83.7	109.1	121.7	115.6	102.0	92.6	106.4	115.1	112.8	106.5	98.9	101.9
Bub.prod.ex.tires	302-4,61	.511	118.1	111.6	119.8	118.6	121.0	119.7	113.7	114.3	127.9	125.0	109.8	125.1	126.1	117.8
Plastics products, nec	3071	1.671	169.6	165.4	173.6	178.9	177.1	173.0	166.1	163.6	180.7	176.0	175.1	177.9	185.0	177.2
LEATHER AND PRODUCTS	311	.531	68.5	60.2	72.2	71.3	71.9	69.0	62.1	64.1	67.0	64.8	62.1	60.7	58.7	52.1
Pers. leather gds	313,5-7,91	.161	78.3	73.7	80.4	82.6	84.2	83.2	78.3	74.2	74.5	75.0	73.0	71.3	73.3	64.7
Shoes	3141	.291	63.7	53.3	69.4	66.4	67.0	62.4	53.1	59.1	64.6	60.5	57.2	56.1	51.2	47.6
CLAY, GLASS & STONE PROD.	321	2.721	115.5	117.7	121.9	120.9	122.1	118.5	112.2	111.5	113.3	116.6	121.8	121.4	124.7	120.1
Pressed & blown glass	3221	.511	105.9	109.5	112.0	110.2	112.1	107.2	92.9	102.4	114.0	110.9	114.2	111.9	118.2	111.0
Glass containers	32211	.301	91.9	97.1	98.8	94.1	99.5	91.6	70.9	88.8	101.6	98.3	101.4	96.9	103.8	98.7
Cement	3241	.241	103.8	123.7	128.7	126.5	123.4	94.7	74.5	69.3	71.9	91.9	115.3	117.7	130.0	125.1
Structural clay prod.	3251	.151	113.1	106.6	123.7	124.5	129.1	123.8	113.7	104.7	115.4	115.9	126.9	126.8	133.8	126.1
Brick	32511	.071	88.9	96.6	93.7	94.1	98.5	89.7	83.5	79.8	81.6	84.3	96.3	92.5	97.9	98.9
Clay sewer pipe	32591	.021	44.2	56.4	47.3	48.1	44.9	36.3	30.9	24.6	27.0	20.6	34.1	34.5	37.6	
Clay tile	3253,51	.071	156.3	130.4	166.8	175.9	182.8	181.9	166.7	151.5	173.5	173.7	183.0	186.4	196.9	
Concrete and misc.	326-91	1.551	120.5	121.2	124.4	123.0	124.6	122.3	119.5	117.8	121.3	124.7	124.2	124.8	119.3	
PRIMARY METALS	331	5.331	80.5	73.3	78.2	79.1	80.1	77.6	75.0	79.7	82.3	81.7	84.4	80.4	76.7	68.2
Iron and steel	331,21	3.491	70.4	64.9	66.3	66.3	69.1	67.2	63.8	68.8	70.4	69.3	72.6	66.9	64.2	58.7
Basic st. & mill prod.	3311	2.601	73.4	68.0	71.0	71.3	71.1	69.1	69.1	76.9	78.0	76.6	77.9	74.4	69.6	64.7
Basic iron and steel	33111	1.611	64.3	61.5	61.8	61.7	62.0	61.5	58.2	66.5	68.1	67.4	68.6	64.1	58.7	53.8
Pig iron	33121	.421	61.6	59.6	59.6	58.1	58.8	59.9	56.9	62.3	64.2	62.9	65.0	62.1	55.4	51.1
Bar steel	33131	.511	70.2	65.9	66.5	67.6	68.8	66.7	62.1	73.8	75.7	75.2	76.3	69.5	65.2	59.5
Steel mill products	3341	1.491	80.1	72.9	77.8	78.4	77.8	78.0	77.3	84.6	85.4	83.4	84.8	82.1	77.7	72.8
Consumer dur. steel	33411	.381	61.3	51.5	55.8	59.6	61.4	59.9	48.6	66.1	68.1	63.5	63.3	57.4	48.8	
Equipment steel	33412	.361	47.0	40.9	46.1	45.7	44.6	43.7	41.7	48.2	47.1	47.0	44.7	43.0	40.0	36.2
Construction steel	33413	.191	76.9	74.1	78.4	81.9	77.1	76.3	71.3	78.3	78.2	76.6	81.8	81.1	77.8	74.4
Can & closure steel	33414	.101	60.2	60.2	66.9	63.2	51.9	52.9	59.7	55.8	58.6	64.2	67.7	63.6	63.3	66.1
Misc. steel	33415	.461	127.0	117.5	121.1	121.1	123.1	125.7	134.8	136.7	138.1	134.9	136.7	132.3	126.7	122.0
Iron & steel foundries	3321	.891	61.5	55.7	60.5	59.5	63.2	56.2	48.0	44.9	48.1	48.1	56.9	45.0	48.5	41.1
Nonferrous metals	333-6,91	1.851	99.7	89.3	96.9	99.4	100.8	97.1	96.3	100.5	104.9	104.9	105.7	100.1	86.2	
Primary nonf. metals	3331	.511	90.7	83.0	87.9	86.0	87.5	83.9	86.4	87.9	86.2	86.8	87.2	87.7	77.5	
Copper	33311	.131	92.1	85.0	86.5	77.2	91.2	95.8	93.2	90.2	89.6	95.1	95.5	94.7	89.6	
Aluminum	33341	.281	84.9	83.5	82.7	82.8	81.5	78.4	77.5	78.1	79.6	80.3	81.2	81.3	70.0	66.2
Secondary nonf. mtl.s.	3341	.111	71.8	65.3	69.4	77.0	77.6	75.1	65.7	6						

Table 4A—continued

**INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Seasonally adjusted, 1977 = 100

Series	SIC Code	1977 Pro- port.	1985 Ann. Avg.	1985				1986								
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
FABRICATED METAL PRODUCTS	34	6.46	107.3	106.4	107.4	106.7	107.9	107.6	108.2	109.2	108.5	107.6	108.2	106.5	106.6	105.7
Metal containers	341	.521	85.6	82.9	88.9	87.4	86.8	87.1	88.7	90.1	88.8	85.3	93.6	90.6	91.7	87.8
Hardware, tools, cutlery	342	.731	100.8	98.5	100.4	99.1	99.1	99.4	100.8	100.4	99.1	100.2	101.9	100.1	104.4	104.4
Structural metal prod.	344	1.671	108.1	1108.9	109.0	108.8	108.9	108.6	109.0	109.4	107.7	107.8	109.5	109.7	107.8	107.3
Fasteners, stamp, etc.	345-71	1.951	109.8	108.5	110.5	108.8	109.8	109.4	110.4	114.8	116.5	111.3	113.1	108.4	107.9	107.8
NONELECTRICAL MACHINERY	351	9.541	145.3	145.4	145.4	144.2	141.7	144.8	146.2	144.9	143.9	141.7	140.8	141.3	140.4	142.0
Engines & farm equip.	351.2	1.481	63.0	62.6	62.2	60.8	61.7	62.5	62.8	64.0	62.8	61.7	63.3	60.9	61.0	60.6
Construct. & allied eq.	353	1.681	77.5	77.4	78.4	77.8	78.5	78.9	79.9	78.1	77.1	74.3	72.2	76.0	76.6	73.5
Metalworking machinery	354	1.241	126.9	130.9	130.1	128.7	125.9	128.5	130.7	132.3	130.6	131.0	128.3	129.5	134.9	134.8
Spec. & genl. ind. eq.	355.61	2.121	96.9	96.8	97.4	97.1	95.1	94.7	95.1	95.1	95.7	95.2	96.6	95.9	95.0	95.4
Office, serv., & misc.	357-9	3.021	265.4	2126.8	260.6	262.5	253.8	263.4	265.7	266.6	263.9	257.2	252.9	252.1	250.7	253.8
ELECTRICAL MACHINERY	361	7.151	168.4	165.5	165.8	164.5	164.2	166.9	168.7	166.1	164.8	165.2	166.8	166.0	163.2	167.2
Major elect. eq. & pts	361.21	1.271	89.9	90.9	90.7	88.4	85.3	86.6	87.2	88.9	88.9	88.4	90.3	91.3	90.9	91.8
Household appliances	3631	.751	124.3	121.1	124.5	120.2	120.0	131.9	126.2	129.1	133.5	131.9	138.3	131.9	137.8	137.0
Cooking equipment	36311	.111	227.2	2189.7	214.4	197.9	195.5	264.6	222.4	260.6	269.5	258.3	258.8	266.6	296.0	254.4
Refrigeration appl.	36321	.171	94.4	100.6	111.0	95.9	92.3	96.4	97.1	94.2	109.5	101.8	119.3	103.5	117.0	107.7
Laundry appliances	36331	.121	127.7	1140.7	124.9	125.7	132.4	132.1	136.7	130.5	133.5	133.6	155.2	137.9	133.2	164.7
Misc. appliances	3634-9	.351	104.8	102.4	102.7	105.3	104.8	106.7	105.9	103.5	101.8	105.6	103.3	100.6	99.2	104.3
TV and radio sets	3651	.441	144.7	121.1	139.5	137.1	137.2	158.5	166.8	154.2	148.2	143.9	154.0	147.5	139.8	147.9
Communication equipment	3661	2.011	217.8	216.2	219.3	218.9	219.7	221.6	220.5	218.6	216.0	215.1	217.9	218.4	207.1	218.0
Electronic components	3671	1.311	257.9	11250.5	245.6	241.9	239.3	240.1	242.0	241.8	241.4	247.8	247.6	243.4	239.2	243.0
TV tubes	3671-31	.131	117.6	1106.0	106.2	106.8	109.5	126.6	120.7	142.0						
Misc. electrical supp.	3691	.701	119.6	1117.3	118.1	116.2	117.4	116.4	120.0	116.0	114.8	115.2	115.5	118.9	113.8	117.3
Storage battery, repl.	36911	.131	123.5	1119.0	127.4	122.7	122.9	122.0	132.6	108.0	113.8	123.4	138.3	140.5	123.7	137.6
TRANSPORTATION EQUIPMENT	371	9.131	121.4	121.5	125.0	124.5	123.3	124.8	124.0	128.2	127.5	122.6	126.2	124.1	125.1	125.2
Motor vehicles & parts	3711	5.251	111.5	111.9	115.6	113.7	111.4	112.6	111.4	116.5	116.4	108.1	112.6	108.7	110.6	110.5
Autos, total		1.821	112.9	1115.3	115.5	112.7	108.3	108.9	108.0	120.4	122.3	107.0	115.1	108.2	113.4	108.8
Consumer		1.161	98.9	1101.0	101.2	98.8	94.9	95.6	94.6	105.5	107.1	93.7	100.8	94.8	99.3	95.3
Business		.661	137.6	1140.6	140.8	137.4	132.0	132.5	131.6	146.8	149.0	130.4	140.3	132.0	138.2	132.6
Trucks and buses		1.031	126.7	1123.7	140.6	135.9	131.3	136.3	130.4	135.0	133.0	119.9	131.8	126.8	125.6	136.4
Business vehicles		.411	111.9	1106.4	121.5	118.2	115.2	117.4	116.0	124.6	118.9	104.9	117.0	107.9	109.4	115.0
Consumer trucks		.631	136.3	1134.9	153.1	147.4	141.8	148.6	139.8	141.7	142.1	129.6	141.5	139.1	136.1	150.3
Truck trailers		.091	130.5	1129.1	128.8	130.4	126.8	125.9	129.7	130.9	111.6	123.7	125.8	133.5	135.0	140.2
Motor vehicle parts		2.311	102.9	1103.3	103.8	103.9	104.3	104.4	105.0	104.6	104.5	103.0	101.4	100.1	100.8	99.2
Aircraft and parts	3721	2.091	140.4	140.1	145.2	145.5	147.0	149.2	148.51	153.9	151.5	152.3	154.6	155.7	156.5	155.2
Ships and boats	3731	.661	84.2	81.6	81.7	82.2	83.9	83.5	86.8	88.0	83.9	84.4	85.8	85.9	84.5	87.0
Rail & misc trans eq.	374-91	1.111	154.8	154.5	160.6	161.3	157.1	161.1	164.2	161.5	158.0	157.8	160.2	159.2	157.4	159.4
Railroad equipment	3741	.271	31.2	30.4	44.0	46.9	36.4	32.6	31.2	21.8	9.8	18.3	31.5	29.0	20.2	20.6
INSTRUMENTS	381	2.661	139.1	140.2	141.0	139.0	138.4	139.9	140.4	141.5	141.9	142.0	142.4	140.3	139.9	138.5
Equipment instr. & pts	381-4	1.521	156.5	156.2	156.6	154.3	156.7	159.0	160.7	160.1	160.8	161.9	163.9	161.9	162.0	158.4
MISC. MANUFACTURES	391	1.461	96.11	96.8	96.5	95.3	95.0	94.8	96.61	100.9	100.9	99.0	99.2	101.0	98.3	97.3
Misc. cons. goods	391.3,4,61	.841	92.6	92.9	92.8	91.4	93.2	91.7	93.2	96.5	95.9	95.4	94.5	95.2	94.4	92.9
Misc. bus. supplies	395.91	.621	101.0	103.1	103.9	102.5	102.1	101.3	101.3	102.8	105.9	100.1	103.6	108.9	102.6	104.5
ELECTRIC UTILITIES	4911	4.171	119.7	117.4	117.6	120.8	119.4	120.1	122.4	119.7	119.5	119.8	121.6	121.7	123.3	122.0
Elec. util. generation		1.761	115.5	113.6	113.5	115.9	116.6	116.1	117.3	114.0	114.4	113.2	114.9	116.8	117.0	
Fossil fuel generation		1.411	109.0	106.9	106.6	107.8	108.3	108.4	110.9	107.8	107.0	105.9	107.5	110.0	110.7	
Hydro & nuclear gener.		.351	141.4	140.2	141.1	148.5	149.5	147.2	143.1	139.0	144.2	142.5	144.6	144.1	141.9	
Elec. util. sales		2.411	122.8	120.2	120.7	124.3	121.4	122.9	126.1	123.8	123.2	124.6	126.5	125.3	127.9	
Residential elec.		.951	123.2	120.2	120.5	122.7	123.7	124.8	127.9	125.5	124.4	124.0	128.0	125.6	128.0	
Nonresidential elec.		1.461	122.2	120.2	120.8	125.4	120.0	121.7	125.0	121.4	122.5	124.9	125.6	125.1	127.9	
Industrial elec.		.681	107.1	105.5	107.1	109.0	104.1	103.8	108.2	104.4	105.9	108.7	107.7	104.4	104.7	
Commercial & other elec.		.781	135.4	133.0	132.8	139.7	133.8	137.2	139.6	136.1	136.9	139.0	141.2	143.2	148.1	

Note: Seasonally adjusted industry totals are not aggregated from the seasonally adjusted components, but result from independent seasonal adjustment of the aggregated not seasonally adjusted components.

Table 4B—continued

**INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Not seasonally adjusted, 1977=100

Series	1977		1985		1985					1986						
	SIC Code	Pro- por- tion	Ann. Avg.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
FABRICATED METAL PRODUCTS 34	6-46	107.3	105.0	108.9	109.8	109.1	108.0	106.6	104.6	108.3	107.4	107.7	106.2	108.4	104.3	
Metal containers 341	.52	85.6	86.6	93.9	92.5	87.1	85.4	83.2	83.4	87.2	84.3	92.7	90.3	95.2	91.8	
Hardware, tools, cutlery 342	.73	100.81	96.8	102.2	103.0	101.5	100.0	98.0	95.1	101.0	100.9	99.9	99.4	105.4	102.6	
Structural metal prod. 344	1.67	108.1	1109.1	111.6	112.8	112.5	111.4	111.7	106.1	103.3	104.3	105.5	107.7	109.2	107.6	
Fasteners, stamp, etc. 345-7	1.95	109.81	105.3	110.3	111.2	111.4	109.5	105.8	107.4	118.4	115.6	114.5	108.7	110.7	104.6	
NONELECTRICAL MACHINERY 35	9.54	145.31	147.8	151.3	152.2	141.8	143.3	140.4	139.9	142.3	140.4	136.8	138.4	143.8	144.4	
Engine & farm equip. 351.2	1.48	63.01	60.7	59.9	60.7	60.7	62.4	64.1	64.1	64.2	63.6	63.4	61.1	61.1	58.8	
Construct. & allied eq. 353	1.68	77.51	78.2	78.8	80.8	78.8	78.7	79.7	76.4	78.1	73.4	70.8	74.1	77.2	74.2	
Metalworking machinery 354	1.24	126.91	128.7	130.7	133.7	129.3	126.6	126.2	127.9	133.5	132.4	129.2	127.9	134.7	132.5	
Spec. & genl. ind. eq. 355.6	2.12	96.91	94.7	97.7	100.5	94.9	95.3	94.6	92.8	96.1	96.1	95.3	95.4	96.2	93.3	
Office, serv., & misc. 357-9	3.02	205.21	2127.4	232.8	280.9	261.4	259.7	250.2	252.6	249.8	242.0	246.7	258.7	266.5		
ELECTRICAL MACHINERY 36	7.15	168.41	159.8	165.8	167.5	169.7	169.5	166.5	165.0	164.1	164.8	166.2	164.6	163.3	161.7	
Major elect. eq. & pts 361.2	1.27	89.91	90.6	92.7	93.1	88.6	86.4	84.3	86.2	87.1	87.8	88.0	90.2	92.6	91.4	
Household appliances 363	.75	124.31	108.3	118.4	125.6	136.6	127.9	109.3	129.9	139.8	135.5	144.0	132.2	138.0	122.0	
Cooking equipment 3631	.11	227.21	167.5	208.8	207.0	235.3	271.0	198.6	259.6	269.1	248.9	258.7	279.1	286.6	224.7	
Refrigeration appl. 3632	.17	94.21	102.6	80.7	102.0	103.9	83.3	69.3	96.3	118.1	114.9	134.6	109.7	123.5	109.7	
Laundry appliances 3633	.12	127.71	117.1	125.0	126.5	152.8	118.4	115.5	138.8	148.0	142.1	159.0	134.0	135.0	137.3	
Misc. appliances 3634-6,9	.35	104.81	89.2	105.4	110.5	115.4	106.9	97.9	101.7	106.3	107.0	107.2	95.8	98.8	90.1	
TV and radio sets 365	.44	144.71	1119.8	155.3	145.0	182.0	175.9	139.7	142.2	136.8	126.9	138.9	143.9	134.6	143.5	
Communication equipment 366	2.01	217.81	213.4	215.7	217.1	218.7	224.1	228.2	219.7	215.7	217.0	215.9	216.1	207.2	215.3	
Electronic components 367	1.31	257.91	2142.7	247.0	244.5	242.1	243.6	244.6	240.8	238.8	245.8	246.3	242.1	241.5	235.5	
TV tubes 3671-3	.13	117.61	90.6	118.4	115.9	130.2	130.8	89.0	135.3							
Misc. electrical supp. 369	.70	119.61	109.5	117.7	124.8	126.2	122.5	128.6	117.2	109.9	109.7	108.7	112.3	111.2	109.1	
Storage battery, repl. 3691	.13	123.51	97.1	133.7	161.0	160.9	147.6	162.4	114.5	96.9	98.8	102.7	106.7	107.0	112.3	
TRANSPORTATION EQUIPMENT 37	9.13	121.41	1112.3	116.1	123.4	126.5	126.4	120.3	127.9	129.5	126.6	129.3	127.4	130.3	114.2	
Motor vehicles & parts 371	5.25	111.51	98.9	103.0	112.2	117.2	114.0	101.5	115.3	119.9	113.9	117.9	114.5	120.0	94.7	
Autos, total	1.82	112.91	96.6	90.7	109.5	119.4	115.5	89.6	120.2	128.4	116.6	123.7	116.5	127.4	82.4	
Consumer	1.16	98.91	84.7	79.5	95.9	104.7	101.2	78.5	105.3	112.5	102.2	108.3	102.0	111.6	72.2	
Business	.66	137.61	117.8	110.6	133.5	145.6	140.9	109.2	146.5	156.5	142.2	150.8	142.0	155.3	100.5	
Trucks and buses	1.03	126.71	98.0	126.7	131.8	141.3	132.4	105.5	130.1	141.5	131.5	143.1	139.9	145.2	109.5	
Business vehicles	.41	111.91	86.0	109.4	110.7	122.4	113.2	94.9	125.7	126.7	111.6	126.0	119.8	126.6	92.9	
Consumer trucks	.63	136.31	105.9	137.9	145.5	153.6	144.9	112.4	133.0	151.1	144.5	154.2	153.0	157.3	120.3	
Truck trailers	.09	130.51	113.4	128.5	136.9	129.1	127.8	132.8	116.3	111.0	131.4	129.3	134.3	140.3	123.1	
Motor vehicle parts	2.31	102.91	100.6	101.0	104.6	104.1	104.1	107.8	104.9	104.0	103.2	101.6	100.8	102.1	96.6	
Aircraft and parts 372	2.09	140.41	136.4	139.5	144.9	147.4	151.7	152.9	154.5	153.8	154.0	154.1	155.2	155.7	151.2	
Ships and boats 373	.66	84.21	79.5	78.6	80.6	83.6	84.9	88.3	87.6	84.5	85.6	86.9	87.1	85.0	84.7	
Rail & misc trans eq. 374-6,9	1.11	154.81	149.9	156.4	161.2	157.0	161.9	166.9	161.6	166.2	159.5	161.4	160.1	158.1	154.7	
Railroad equipment 374	.27	31.21	29.1	35.4	47.8	39.0	33.3	31.9	21.1	9.2	19.0	31.6	30.8	22.5	19.7	
INSTRUMENTS 381	2.66	139.11	141.6	143.6	143.7	139.8	139.7	139.6	136.0	139.2	140.4	139.8	138.6	142.6	139.8	
Equipment instr. & pts 381-4	1.52	156.51	160.8	162.9	164.1	157.9	156.6	155.6	154.1	157.1	159.3	159.0	159.5	165.8	163.2	
MISC. MANUFACTURES 39	1.46	96.11	96.9	103.0	103.0	99.1	93.8	90.9	93.2	100.3	97.6	96.3	99.2	100.3	97.4	
Misc. cons. goods 391,3,4,6	.84	92.61	91.9	98.7	98.5	97.1	89.7	86.2	89.8	94.4	94.5	92.6	94.6	97.9	91.9	
Misc. bus. supplies 395,9	.62	101.01	103.6	108.8	109.1	102.0	99.4	97.3	97.7	108.3	101.1	101.3	105.5	103.7	105.0	
ELECTRIC UTILITIES 491	4.17	119.71	126.3	127.7	127.0	110.4	112.1	123.3	127.0	127.4	114.1	112.6	109.2	125.7	132.0	
Blec. util. generation	1.76	115.51	125.1	124.9	115.3	107.3	109.7	120.7	119.9	117.0	107.9	106.0	108.6	122.4		
Fossil fuel generation	1.41	109.01	120.8	121.9	109.7	102.1	102.4	113.9	113.7	107.5	97.9	95.0	99.1	115.8		
Hydro & nuclear gener.	.35	141.41	142.5	137.0	137.7	128.1	138.6	147.7	145.0	155.0	147.7	149.9	146.6	148.7		
Elec. util. sales	4.41	122.81	127.1	129.8	135.6	112.6	113.8	125.3	132.1	135.0	118.6	117.4	109.6	128.2		
Residential elec.	.95	123.71	130.3	134.5	134.7	105.5	107.7	132.4	152.2	144.2	120.2	112.8	100.4	120.3		
Nonresidential elec.	1.46	122.21	125.1	126.7	136.2	117.2	117.8	120.6	119.0	128.9	117.6	120.4	115.7	133.3		
Industrial elec.	.68	107.11	104.4	109.0	115.4	103.5	104.4	103.2	98.7	110.6	104.9	107.8	102.5	109.1		
Commercial & other elec.	.78	135.41	143.0	142.1	154.3	129.1	129.5	135.8	136.7	144.9	128.6	131.3	127.1	154.4		

Note: Seasonally adjusted industry totals are not aggregated from the seasonally adjusted components, but result from independent seasonal adjustment of the aggregated not seasonally adjusted components.

Table 5  
**INDUSTRIAL PRODUCTION: INDEXES; 1977 = 100**  
 Quarterly averages, seasonally adjusted

SERIES	Quarterly Averages of Monthly Indexes											
	1984			1985			1986					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Industrial production	119.3	121.1	122.7	122.5	123.1	123.5	124.0	124.7	125.0	124.3		
Products, total	124.0	126.0	128.0	128.7	129.1	130.4	131.6	132.3	132.7	132.4		
Final products	124.5	126.6	128.7	129.3	129.7	130.6	131.7	132.4	132.5	131.5		
Consumer goods	117.1	117.9	118.1	118.8	118.8	119.5	120.5	122.1	123.0	124.3		
Durable consumer goods	112.4	111.8	112.5	112.6	112.4	112.1	113.0	114.3	115.0	114.7		
Automotive products	110.6	109.5	109.5	109.0	113.7	112.4	115.9	114.2	114.7	114.4		
Home goods	113.7	113.5	114.7	115.3	111.4	111.8	110.8	114.4	115.2	114.8		
Non-durable consumer goods	118.9	120.2	120.2	121.1	121.2	122.2	123.2	125.0	125.9	127.9		
Equipment, total	134.3	138.1	142.6	143.4	144.0	145.3	146.5	146.1	145.0	141.1		
Business & defense equipment	133.3	137.2	141.5	142.6	144.0	145.8	146.9	147.3	147.5	145.8		
Business equipment	129.0	132.6	137.1	137.8	138.8	140.0	140.3	139.7	139.9	137.5		
Defense and space equipment	150.2	155.3	158.8	161.3	164.5	168.4	172.9	176.8	177.1	178.1		
Intermediate products	122.1	124.0	125.8	126.5	127.2	129.9	131.2	131.7	133.7	135.4		
Construction supplies	112.7	113.5	114.5	115.0	115.3	117.9	119.8	120.2	123.1	123.7		
Business supplies	130.2	133.0	135.4	136.3	137.4	140.2	140.9	141.5	142.7	145.4		
Commercial energy products	115.4	118.2	119.3	120.6	121.5	122.3	123.1	125.1	125.0	129.5		
Materials	112.8	114.4	115.5	114.1	114.9	114.0	113.8	114.3	114.5	113.4		
Durable goods materials	118.7	121.0	123.1	123.1	123.0	121.4	120.4	121.1	120.9	118.8		
Basic metal materials	87.4	87.8	85.5	84.3	84.1	84.3	84.0	87.1	82.6	79.6		
Non-durable goods materials	111.5	111.7	111.7	110.7	110.7	111.0	113.4	113.9	115.7	116.8		
Textile, paper, & chem materials	111.8	112.2	112.4	110.5	111.2	110.6	113.3	114.0	116.2	117.0		
Textile materials	106.8	104.3	102.3	95.0	93.2	95.2	101.7	105.0	105.8	108.2		
Pulp and paper materials	124.9	127.6	128.0	125.7	126.6	121.6	123.8	124.8	128.8	130.2		
Chemical materials	108.9	109.5	110.4	110.6	112.0	112.1	113.6	113.4	115.3	115.4		
Energy materials	103.7	105.2	105.4	101.1	104.4	103.7	102.5	102.6	102.2	100.8		
Manufacturing	120.9	123.0	124.7	124.9	125.3	126.1	126.8	127.4	128.4	128.3		
Durable	120.9	123.5	125.9	126.4	126.8	127.3	127.5	127.9	128.3	127.1		
Non-durable	120.9	122.3	122.9	122.9	123.3	124.6	125.9	126.8	128.6	130.0		
Mining and Utilities	110.3	111.7	112.2	109.5	111.6	109.8	109.1	109.3	107.3	103.6		
Mining	109.9	112.1	113.7	108.6	110.1	109.9	107.9	107.1	105.4	100.1		
Utilities	111.0	111.1	109.7	110.8	114.1	109.6	111.1	112.8	110.5	109.5		

Table 6  
**INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS**  
 Billions of 1982 dollars at annual rates, seasonally adjusted

SERIES	Billions of 1982 Dollars at Annual Rates														
	1982	1985	Quarters				Months				APR	MAY	JUN	JUL	AUG
			Dollars	Ann.	1985	Q1	Q2	Q3	Q4	1986					
Products, total	1376.8	1650.9	1631.8	1648.5	1652.6	1671.9	1683.1	1682.8	1660.8	1686.3	1687.6	1674.4	1664.9	1675.9	
Final products	1084.5	1282.3	1271.9	1279.7	1281.4	1297.3	1304.7	1298.6	1282.5	1307.0	1301.1	1287.7	1280.1	1289.1	
Consumer goods	703.7	820.7	813.2	817.2	818.9	834.0	842.7	849.1	832.0	852.3	852.4	842.7	840.5	846.3	
Durable consumer goods	133.3	195.7	194.3	193.7	197.7	197.6	199.6	198.6	192.9	201.3	196.8	197.9	201.2	199.0	
Automotive products	65.9	108.0	107.3	106.1	110.9	108.2	109.6	108.8	103.8	111.0	107.3	108.0	110.6	108.2	
Home goods	67.4	87.8	87.0	87.6	86.7	89.41	90.0	89.91	89.2	90.3	89.4	89.9	90.6	90.8	
Non-durable consumer goods	570.4	625.0	618.8	623.5	621.3	636.3	643.1	650.51	639.1	651.0	655.7	644.7	639.3	647.3	
Equipment, total	380.8	461.7	458.7	462.5	462.5	463.4	462.0	449.51	450.4	454.7	448.7	445.0	439.6	442.8	
Business & defense equipment	345.4	430.4	426.2	431.2	430.8	434.0	437.0	432.6	428.6	436.3	431.9	429.6	424.6	427.6	
Business equipment	278.0	343.7	342.6	345.8	343.4	343.51	345.9	341.61	338.0	345.2	341.0	338.6	333.5	335.4	
Defense and space equipment	67.4	86.7	83.6	85.4	87.4	90.41	91.0	91.01	90.6	91.1	90.9	91.0	92.2		
Intermediate products	292.2	368.6	359.9	368.8	371.2	374.6	378.4	384.21	378.3	379.3	386.4	386.8	384.8	386.8	
Construction supplies	108.3	144.8	140.7	144.4	146.9	147.11	150.3	151.11	149.8	150.4	151.2	151.8	152.0	152.8	
Business supplies	183.9	223.8	219.3	224.4	224.2	227.51	228.1	233.01	228.5	228.9	235.2	235.0	232.7		
Commercial energy products	63.4	72.6	70.1	73.0	72.5	75.31	73.8	77.61	75.2	74.6	80.7	77.4			

Table 7  
**INDUSTRIAL PRODUCTION: DIFFUSION INDEXES**  
 Percent of component series higher than in earlier months

	ONE MONTH EARLIER	THREE MONTHS EARLIER	SIX MONTHS EARLIER
<b>1977-85</b>			
AVERAGE	53.7	56.1	57.6
HIGH	76.6	79.4	88.3
LOW	26.4	23.2	23.0
<b>1984</b>			
JULY	58.3	56.2	57.9
AUGUST	46.0	52.0	59.1
SEPTEMBER	48.2	48.8	57.3
OCTOBER	51.0	47.4	51.8
NOVEMBER	53.0	49.6	52.8
DECEMBER	53.2	51.4	53.2
<b>1985</b>			
JANUARY	51.8	55.8	48.2
FEBRUARY	55.8	55.6	47.6
MARCH	54.8	56.0	54.8
APRIL	51.0	55.6	53.6
MAY	54.6	54.0	54.9
JUNE	53.4	52.2	59.1
JULY	53.4	51.8	56.0
AUGUST	57.5	57.9	57.7
SEPTEMBER	51.2	57.1	57.1
OCTOBER	49.6	56.0	58.3
NOVEMBER	61.7	56.2	58.3
DECEMBER	57.5	60.9	63.5
<b>1986</b>			
JANUARY	60.7	68.7	67.1
FEBRUARY	42.5	55.4	56.2
MARCH	37.1	38.9	51.0
APRIL	65.9	46.2	60.9
MAY	42.7	47.8	55.2
JUNE	44.6	54.4	47.4
JULY	55.4	47.2	46.4

NOTE: THE DIFFUSION INDEXES SHOW THE PERCENT OF THE INDUSTRIAL PRODUCTION INDEX'S 252 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 8  
**AUTO ASSEMBLIES AT ANNUAL RATES**  
 Seasonally adjusted

	1985	Millions of Units																
		Ann.	1986															
			Avg-	1985	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	
Autos, total					8.2	8.3	8.1	7.8	7.8	7.7	8.6	8.7	7.6	8.1	7.6	8.0	7.6	7.0

Table 9A

**ELECTRIC POWER USE BY INDUSTRIES**

Seasonally adjusted indexes, 1977 = 100

Series	SIC (bil. code)	1977 (KWh)	Indexes						Percentage change from previous quarter						Indexes		
			1985			1986			1985			1986			1985		
			Avg.	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	JUL
TOTAL	10-14,20-39	785.8	100.4	100.9	100.0	99.6	100.0	97.9	-0.9	-0.4	-4	-2.0	-3.0	-3.0	98.5	97.9	
<b>MAJOR INDUSTRY DIVISIONS</b>																	
Mining	10-14	59.4	122.2	124.2	123.0	121.7	121.2	110.5	-1.0	-1.0	-0.4	-8.8	-11.0	108.6	108.7		
Manufacturing	20-39	726.4	98.9	99.3	98.5	98.2	98.6	97.1	-0.9	-0.3	-4	-1.6	-2.3	98.0	97.0		
Durable	24,25,32-39	344.3	97.3	96.4	97.0	97.4	97.2	95.8	-6	-4	-0.2	-1.5	-0.6	95.2	93.7		
Non-durable	20-23,26-31	382.1	100.5	102.1	100.0	98.9	99.6	98.3	-2.1	-1.1	-8	-1.3	-3.7	100.0	100.2		
<b>INDUSTRY GROUPS AND SERIES</b>																	
METAL MINING	101	15.14	106.6	111.6	109.0	103.6	104.1	92.3	-2.3	-5.0	-4	-11.3	-17.3	89.3	90.8		
Iron ore	1011	6.14	108.5	116.5	115.9	107.6	97.5	89.7	-0.5	-7.2	-9.4	-8.0	-23.0	82.5	83.4		
Copper ore	1021	5.91	110.2	107.2	113.5	107.4	116.7	95.9	5.9	-5.4	8.7	-17.8	-10.5	98.9	107.6		
COAL	11,121	10.31	131.2	132.7	135.0	128.5	140.3	135.9	1.8	-4.8	9.2	-3.1	2.4	137.0	136.3		
OIL AND GAS EXTRACTION	131	23.91	135.0	133.9	135.4	137.9	137.2	120.6	1.1	1.8	-0.5	-12.0	-9.9	118.8	116.3		
Crude oil and natural gas	1311	18.21	139.8	139.4	140.2	142.1	140.4	123.5	-6	1.3	-1.2	-12.0	-11.4	122.3	117.0		
Natural gas liquids	1321	3.44	104.9	104.5	102.4	112.4	111.1	101.4	-0.2	9.8	-1.1	-8.0	-1.2	99.7	99.2		
STONE AND EARTH MINERALS	141	11.01	109.3	112.3	108.8	104.9	93.4	90.2	-3.2	-3.6	-10.9	-3.4	-19.7	89.8	91.1		
Crushed stone	1421	2.41	145.2	142.9	144.8	144.7	139.8	142.0	2.0	-0.1	-3.4	1.6	-0.1	142.2	142.7		
Sand and gravel	1441	2.01	91.3	91.3	92.7	93.0	90.8	96.8	1.5	-4	-2.4	6.6	6.0	97.7	100.2		
Chemical & fertilizer mat.	1471	5.94	100.7	107.8	99.2	91.9	77.5	69.6	-8.0	-7.3	-15.7	-10.2	-35.4	68.0	66.7		
FOODS	201	42.81	119.0	119.3	118.9	119.6	120.1	121.7	-0.4	-6	-4	1.4	2.0	122.7	122.3		
Meat products	2011	6.91	109.9	110.1	108.7	109.8	112.3	114.1	-1.3	1.0	2.2	1.7	3.6	113.4	113.8		
Dairy products	2021	5.31	117.5	117.1	118.5	120.6	122.9	126.0	1.2	1.4	2.2	2.6	7.6	125.6	123.7		
Canned and frozen foods	2031	5.71	133.5	133.7	134.8	132.2	131.6	132.8	-8	-1.9	-0.5	1.0	-0.7	131.2	137.6		
Grain mill products	2041	7.41	111.6	111.9	110.2	112.3	110.4	109.2	-1.6	1.9	-1.7	-1.1	-2.4	110.5	110.7		
Bakery products	2051	2.51	135.3	136.0	135.5	137.4	142.5	140.7	-0.4	1.4	3.7	-1.3	3.5	141.6	139.5		
Sugar and confectionery	2061	3.31	167.0	171.9	166.9	166.4	171.8	179.1	-2.9	-0.3	3.3	4.2	4.2	175.8	174.4		
Fats and oils	2071	3.41	109.8	109.4	113.4	110.0	114.4	113.4	3.8	-3.0	4.0	-0.9	3.9	113.1	113.7		
Beverages	2081	4.81	122.8	123.4	122.2	122.2	121.2	126.3	-1.0	0	-0.8	4.2	2.3	130.8	126.0		
Misc. food preparations	2091	3.11	115.8	116.5	116.5	114.7	115.5	117.0	-1.1	-1.5	-7	1.3	.5	117.1	117.7		
TOBACCO PRODUCTS	211	1.31	104.4	103.2	98.9	111.1	97.7	99.6	-4.1	12.2	-12.0	1.9	-3.5	103.1	103.6		
TEXTILE MILL PRODUCTS	221	28.31	94.8	92.7	97.0	98.3	96.8	97.9	4.6	1.4	-1.6	1.2	5.7	96.7	101.9		
Fabrics	2211	12.11	90.2	88.5	91.5	92.0	91.5	91.9	3.3	.6	-0.5	-4	3.9	89.5	93.9		
Knit goods	2251	3.71	79.11	77.8	80.2	82.1	81.2	84.1	3.1	2.3	-1.1	3.5	8.0	84.3	84.3		
Fabric finishing	2261	2.21	117.1	115.1	119.4	121.5	119.2	118.3	3.7	1.8	-1.9	-0.8	2.7	119.5	132.9		
Yarn and thread	2281	6.71	104.8	100.3	109.6	112.9	107.9	109.7	9.2	3.1	-4.4	1.6	9.3	108.0	118.9		
Miscellaneous textiles	2291	2.71	95.4	95.7	94.6	97.0	96.2	98.9	-1.2	2.6	-0.8	2.7	3.3	100.1	97.3		
APPAREL PRODUCTS	231	6.61	117.3	118.5	115.7	119.5	118.9	121.8	-2.4	3.3	-0.5	2.4	2.7	121.1	123.3		
Men's outerwear	2311	2.11	113.5	115.2	112.3	115.5	114.7	116.7	-2.6	2.9	-0.7	1.7	1.3	117.2	116.0		
Women's outerwear	2331	1.91	109.0	110.8	106.2	109.6	116.4	113.0	-4.1	3.2	0.2	-2.9	2.0	110.3	108.4		
LUMBER AND PRODUCTS	241	16.41	119.1	118.3	119.4	121.5	122.9	128.0	-9	1.8	1.1	4.2	8.2	127.8	129.1		
Lumber	2421	6.91	100.0	99.5	100.3	101.6	103.9	107.6	-8	1.3	2.3	3.6	8.2	107.4	105.3		
Millwork and plywood	2431	4.41	129.0	126.6	129.0	134.7	133.9	138.1	1.9	4.5	-0.6	3.1	9.1	137.5	140.5		
FURNITURE AND FIXTURES	251	4.21	122.6	121.7	124.1	123.6	126.4	127.7	2.0	-0.4	2.2	1.1	5.0	128.6	130.8		
Home furniture	2511	2.81	119.6	113.8	115.5	116.0	117.0	117.8	1.4	-5	-8	.7	3.5	117.2	120.6		
PAPER AND PRODUCTS	261	71.91	119.0	118.8	118.3	118.4	119.5	120.3	-0.4	-0	-9	-6	1.3	121.2	121.2		
Wood pulp	2611	5.91	129.5	126.9	130.8	123.3	129.1	118.9	3.1	-5.7	4.7	-7.9	-6.3	127.9	126.6		
Paper	2621	34.41	125.5	125.2	124.0	125.5	127.9	129.9	-1.0	1.2	1.9	1.6	3.7	131.2	129.7		
Paperboard	2631	22.11	106.7	104.4	109.5	108.7	109.8	101.7	4.9	-1.3	-7.7	2.0	-2.6	102.1	99.5		
Converted paper	2641	5.01	116.7	116.5	116.4	112.8	109.7	109.0	-1.8	-3.1	-2.7	-0.7	-8.1	108.3	114.3		
Paperboard containers	2651	3.41	110.2	107.8	108.7	113.6	111.7	114.6	.8	4.6	-1.7	2.6	6.3	112.8	120.1		
Building paper and board	2661	1.11	150.5	148.8	154.4	150.6	156.6	154.4	3.8	-2.4	4.0	-1.4	3.7	156.7	152.1		
PRINTING AND PUBLISHING	271	10.61	141.1	142.7	140.3	142.7	145.4	149.3	-1.7	1.7	1.9	2.7	4.6	150.0	149.4		
Newspapers	2711	2.61	120.1	121.3	119.2	121.8	123.7	128.6	-1.8	2.2	1.6	4.0	6.0	127.6	124.6		
Commercial Printing	2751	4.81	154.7	156.5	152.9	158.4	162.6	169.1	-2.3	3.6	2.6	4.0	8.1	172.3	171.4		
CHEMICALS AND PRODUCTS	281	162.1	86.3	89.9	85.0	82.3	83.0	79.8	-5.4	-3.2	-9	-3.9	-11.3	81.6	82.7		
Basic chemicals	2811	85.61	74.9	81.9	72.9	67.7	69.5	65.9	-11.1	-7.0	2.6	-5.2	-19.6	67.5	68.1		
Alkalines and chlorine	28121	13.31	92.6	96.9	98.0	82.2	90.1	91.1	1.1	-10.1	9.6	1.1	-6.0	94.4	106.0		
Inorganic chemicals,aec	2819	58.11	62.2	72.1	58.4	53.0	52.2	48.6	-19.0	-9.2	-1.6	-6.7	-32.5	49.6	50.1		
Acid and fertilizer mat.	13-01	80.91	85.9	80.0	71.4	75.1	66.9	-5.8	-10.8	5.3	-11.0	-21.3	67.1	66.6			
Nuclear mats., nonradioactive	44.61	54.4	66.2	49.2	45.4	42.8	40.9	-25.6	-7.7	-5.9	-4.4	-38.2	42.0	43.3			
Synthetic materials	2621	19.31	113.1	110.4	113.4	115.9	119.1	109.6	2.7	2.2	2.8	-8.0	-0.7	115.5	117.5		
Plastics materials	2821	9.21	133.8	127.4	134.1	141.0	146.7	132.9	5.2	4.1	-9.4	4.4	4.4	153.8	156.7		
Drugs	2831	4.11	140.8	141.2	141.3	141.7	141.1	148.7	-1	-3	-0.4	5.4	5.3	146.6	148.1		
Soaps and toiletries	2841	2.11	117.7	117.6	117.4	119.9	124.3	129.1	-0.1	2.1	3.7	3.9	9.8	129.5	135.2		
Industrial organic chem.	2861	35.81	92.0	88.0	90.6	94.9	92.4	93.3	3.0	4.7	-2.6	-9.1	6.1	93.2	95.1		
Farm chemicals	2871	10.51	95.1	96.5	94.5	92.4	87.3	91.2	-2.1	-2.3	-5.5	4.5	-5.5	89.5	89.2		

Table 9B  
**ELECTRIC POWER USE BY INDUSTRIES**  
 Not seasonally adjusted, 1977 = 100

Series	SIC code KBB	Indexes								Percentage change from				Indexes					
		1977				1985				1986				previous quarter		year ago			
		bil.	1985	1985	1985	Q2	Q3	Q4	1986	Q1	Q2	1985	Q3	Q4	1986	Q1	Q2	1985	1986
			Avg.															JUN	JUL
TOTAL	10-14,20-39	785.8	100.4	102.2	101.8	98.2	98.1	99.2	-0.4	-3.5	-0.1	1.1	-2.9	101.1	98.1				
MAJOR INDUSTRY DIVISIONS																			
MINING	10-14	59.4	122.2	126.9	118.7	118.8	125.5	113.0	-6.5	-1	5.6	-10.0	-11.0	109.5	102.9				
MANUFACTURING	20-39	726.4	98.9	100.6	100.7	96.9	96.3	98.3	-1	-3.8	-0.6	2.1	-2.3	100.5	97.8				
DURABLE	24,25,32-39	97.3	97.6	98.4	95.7	96.1	97.0	-0.8	-2.7	-4	-0.9	-0.6	97.0	93.5					
NONDURABLE	20-23,26-31	382.1	100.5	103.3	102.8	97.9	96.5	99.6	-0.5	-4.8	-1.5	3.2	-3.7	103.6	101.6				
INDUSTRY GROUPS AND SERIES																			
METAL MINING	10	15.1	106.6	123.4	101.9	94.4	108.8	101.9	-17.4	-7.3	15.2	-6.3	-17.4	95.0	88.4				
Iron ore	101	6.1	108.5	134.4	104.0	89.3	107.8	103.3	-22.6	-14.1	20.7	-4.2	-23.1	90.1	82.8				
Copper ore	102	5.9	110.2	114.9	109.6	105.9	113.8	102.7	-4.6	-3.4	7.5	-9.8	-10.6	104.6	104.6				
COAL	11,12	10.3	131.2	130.1	118.8	127.9	160.0	133.4	-8.7	7.7	25.1	-16.6	2.5	126.1	105.6				
OIL AND GAS EXTRACTION	13	23.0	135.0	133.7	136.7	137.8	136.1	120.5	-2.2	-8	-1.2	-11.5	-9.9	120.4	120.0				
Crude oil and natural gas	131	18.2	139.8	138.2	140.9	142.4	140.5	122.5	2.0	1.1	-1.3	-12.9	-11.4	121.9	120.0				
Natural gas liquids	132	3.4	104.9	105.9	108.9	107.6	104.9	104.7	-2.8	-1.2	-2.5	-0.2	-1.2	105.6	107.0				
STONE AND EARTH MINERALS	14	11.0	109.3	114.8	106.7	106.7	91.6	92.2	-7.1	-0	-14.2	-7	-19.7	90.8	86.4				
Crushed stone	142	2.4	145.2	145.9	151.5	147.7	126.8	146.0	3.8	-2.5	-14.1	15.1	.0	147.3	147.3				
Sand and gravel	144	2.0	91.3	91.5	98.6	99.0	78.9	97.0	7.7	-5	-20.3	22.8	6.0	101.1	102.8				
Chemical & fertilizer mat.	147	5.0	100.7	109.7	92.8	93.1	80.2	70.8	-15.4	.3	-13.9	-11.6	-35.4	67.2	59.9				
FOODS	20	42.4	119.0	115.8	128.2	120.9	112.7	118.2	10.7	-5.7	-6.7	4.8	2.0	125.7	128.5				
Meat products	201	6.9	109.9	107.2	119.6	109.8	104.0	111.0	11.6	-8.2	-5.3	6.7	3.6	117.3	122.7				
Dairy products	202	5.3	117.5	117.0	131.1	116.4	113.6	125.9	12.0	-11.2	-2.5	10.9	7.6	133.4	137.6				
Canned and frozen foods	203	5.7	133.5	127.5	148.9	134.7	121.3	126.5	16.8	-9.5	-9.9	4.3	-0.8	132.4	139.8				
Grain mill products	204	7.4	111.6	108.2	113.3	114.6	108.6	105.6	4.8	1.1	-5.2	-2.8	-2.4	110.0	111.4				
Bakery products	205	2.5	135.3	133.9	150.0	135.7	130.9	138.5	12.1	-9.5	-3.6	5.9	3.5	148.7	153.3				
Sugar and confectionery	206	3.3	167.0	153.6	164.2	189.9	168.5	160.1	6.9	15.7	-11.2	-5.0	4.2	167.8	165.9				
Fats and oils	207	3.4	109.8	103.3	111.3	117.0	114.9	107.7	7.5	5.1	-1.8	-6.3	3.9	110.0	106.5				
Beverages	208	4.8	122.8	122.7	136.1	119.6	110.6	125.8	10.9	-12.1	-7.5	13.8	2.5	139.1	138.9				
Misc. food preparations	209	3.1	115.8	113.7	125.9	115.6	107.8	114.3	10.7	-8.2	-6.8	6.1	.5	120.9	124.7				
TOBACCO PRODUCTS	21	1.3	104.4	99.8	106.9	112.7	91.5	96.7	7.0	5.5	-18.8	5.7	-3.1	107.2	98.9				
TEXTILE MILL PRODUCTS	22	28.3	94.8	95.7	102.4	98.3	87.7	101.1	7.0	-4.0	-10.8	15.2	5.6	107.3	96.7				
Fabrics	221-4	12.1	90.2	91.5	97.1	92.3	82.0	95.0	6.1	-4.9	-11.1	15.8	3.8	100.4	90.0				
Knit goods	225	3.7	79.1	80.0	89.1	79.7	72.3	86.4	11.4	-10.5	-9.4	19.6	8.0	94.4	86.4				
Fabric finishing	226	2.2	117.1	117.2	121.7	122.8	113.7	120.4	3.9	.9	-7.4	5.9	2.7	127.8	123.8				
Yarn and thread	228	6.7	104.8	105.0	114.9	113.1	96.9	114.6	9.4	-1.6	-14.2	18.2	9.2	121.4	108.0				
Miscellaneous textiles	229	2.1	95.4	97.0	99.4	96.2	90.6	100.3	2.4	-3.3	-5.8	10.7	3.4	106.2	92.6				
APPAREL PRODUCTS	23	6.6	117.3	114.7	133.5	115.3	108.6	117.8	16.4	-13.6	-5.9	8.5	2.7	129.3	131.4				
Men's outerwear	231,2	2.1	113.5	113.2	132.1	110.9	100.9	114.7	18.7	-16.1	-9.0	13.7	1.3	128.4	127.6				
Women's outerwear	233	1.9	109.0	106.5	126.6	105.0	103.0	108.6	18.9	-17.1	-1.9	5.5	2.0	119.7	121.4				
LUMBER AND PRODUCTS	24	16.4	119.1	118.2	116.6	121.6	125.5	127.9	-1.3	4.3	3.2	2.0	8.2	125.1	122.7				
Lumber	242	6.9	100.0	99.6	97.4	102.2	100.2	107.8	-2.3	4.9	3.9	4.6	8.2	104.4	99.3				
Millwork and plywood	243	4.4	129.0	127.8	125.8	134.0	136.5	139.4	-1.5	6.5	1.9	2.2	9.1	136.2	133.8				
FURNITURE AND FIXTURES	25	4.2	122.6	120.1	125.0	124.1	126.4	126.1	4.0	-0.7	1.8	-0.3	5.0	129.5	121.1				
Home furniture	251	2.8	114.6	113.3	114.5	116.3	118.1	117.2	1.1	1.6	1.5	-0.8	3.4	119.3	107.7				
PAPER AND PRODUCTS	26	71.9	119.0	119.4	119.5	118.1	117.9	120.9	-1	-1.2	-0.1	-2.5	1.3	122.4	119.8				
Wood pulp	261	5.9	129.5	128.3	131.6	125.4	124.2	120.2	2.6	-4.6	-1.0	-3.2	-6.3	128.7	127.6				
Paper	262	34.4	125.5	126.5	124.5	124.6	127.0	131.2	-1.6	-1	1.9	3.3	3.7	131.6	129.0				
Paperboard	263	22.1	106.7	106.4	108.8	105.6	100.7	103.7	2.2	-2.9	-4.7	3.0	-2.6	105.0	96.6				
Converted paper	264	5.0	116.7	119.5	120.0	111.9	106.2	109.9	.4	-6.8	-5.1	3.5	-8.1	113.5	114.3				
Paperboard containers	265	3.4	110.2	107.7	111.2	112.9	109.6	114.4	3.3	1.6	-2.9	4.4	6.3	116.0	116.7				
Building paper and board	266	1.1	150.5	150.7	153.2	151.5	154.5	156.3	1.7	-1.2	2.0	1.2	3.7	161.1	149.5				
PRINTING AND PUBLISHING	27	10.6	141.1	138.3	158.6	140.1	133.5	144.7	14.7	-11.7	-4.7	8.4	4.6	155.4	164.5				
Newspapers	271	2.6	120.1	118.7	134.4	119.6	112.9	125.8	13.1	-10.8	-5.6	11.4	6.0	134.8	139.4				
Commercial Printing	275	4.8	154.7	150.2	173.3	156.5	149.2	162.4	15.4	-9.7	-4.7	8.8	8.1	174.9	188.6				
CHEMICALS AND PRODUCTS	28	162.1	86.3	92.7	85.6	80.5	81.5	82.3	-7.6	-6.1	1.3	.9	-9	-0.6	-0.6	123.1	123.4		
Basic chemicals	281	85.6	74.9	84.5	72.7	66.7	66.5	67.9	-14.0	-8.2	2.6	-0.8	-19.6	68.8	69.1				
Alkalies and chlorine	2812	13.3	92.6	100.5	97.4	81.4	87.9	94.5	-3.1	-16.5	8.1	7.4	-6.0	97.5	102.1				
Inorganic chemicals,nec	2819	58.1	62.2	75.2	57.9	51.7	51.6	50.7	-23.0	-10.7	-0.1	-1.8	-32.5	50.9	51.1				
Acid and fertilizer mat.	13.0	80.9	87.0	80.1	70.8	73.8	68.5	7.9	-11.6	4.2	-7.2	-21.3	69.3	67.9					
Nuclear mats., nondefense	44.6	54.4	70.2	48.5	43.7	42.4	43.3	-30.8	-10.0	-3.0	2.1	-38.4	43.1	44.1					
Synthetic materials	282	19.3	113.1	114.0	117.3	112.9	114.0	113.3	2.9	-3.7	.9	-0.6	-0.6	123.1	123.4				
Plastics materials	2821	9.2	133.8	131.5	138.1	136.4	142.0	137.3	5.0	-1.2	4.1	-3.3	4.4	161.8	163.7				
Drugs	283	4.1	140.8	140.5	156.6	138.5	129.5	147.9	11.5	-11.6	-6.5	14.3	5.3	157.4	163.4				
Soaps and toiletries	284	2.1	117.7	114.5	124.1	119.5	120.6	12											

Table 9A—continued

**ELECTRIC POWER USE BY INDUSTRIES**

Seasonally adjusted indexes, 1977 = 100

Series	SIC code	Indexes						Percentage change from previous quarter				Indexes			
		1977		1985		1986		1985		1986		1985		1986	
		(bil.)	KW/H	Avg.	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	JUN	JUL
PETROLEUM PRODUCTS	291	34.7	112.9	113.0	113.6	113.5	115.0	117.1	-6	-0.2	1.3	1.9	3.7	121.2	110.9
RUBBER & PLASTICS PRODUCTS	301	23.1	126.3	125.5	125.6	128.7	128.7	127.2	-1	2.5	.0	-1.1	1.4	130.4	133.5
Tires	301	5.4	77.4	78.5	75.0	76.6	71.2	67.3	-4.5	2.1	-7.0	-5.5	-14.3	69.5	72.4
Bubber products, nec	3061	2.21	94.0	94.4	90.3	95.51	97.1	93.0	-4.3	5.8	1.7	-4.2	-1.4	96.0	98.8
Plastics products, nec	3071	14.2	164.1	161.9	164.9	168.51	170.3	171.2	1.9	2.2	1.0	-6	5.8	174.9	177.1
LEATHER AND PRODUCTS	311	1.4	88.4	88.9	89.0	88.0	87.4	83.6	-1	-1.2	-0.6	-4.4	-6.0	81.5	83.0
Shoes	3141	.7	79.4	79.6	79.2	78.0	82.3	77.1	-0.4	-1.5	5.5	-6.3	-3.1	74.0	74.4
CLAY, GLASS, AND STONE	321	31.4	104.9	104.7	104.8	105.3	106.7	105.7	-1	-4	1.3	-1.0	.9	105.4	102.0
Flat glass	3211	1.3	101.0	96.5	99.2	106.2	107.1	107.6	2.7	7.0	.9	-4.1	11.4	106.8	110.6
Pressed and blown glass	3221	6.8	102.4	101.7	102.5	102.3	104.8	106.2	-8	-0.2	2.5	1.3	4.5	106.8	100.2
Cement	3241	10.2	98.3	98.9	98.4	97.9	100.7	97.4	-0.6	-1.0	3.4	-3.4	-1.6	97.5	93.8
Structural clay products	3251	1.5	100.0	100.7	100.8	98.5	102.9	100.3	-1	-2.3	4.5	-2.6	-0.4	97.8	101.9
Concrete products	3271	3.6	109.4	110.8	110.1	111.7	113.5	111.8	-0.6	1.4	1.7	-1.5	.9	111.3	105.9
PRIMARY METALS	331	171.3	80.2	78.5	79.8	79.3	78.4	75.4	1.6	-0.5	-1.2	-3.9	-4.0	74.2	70.4
Basic steel and mill prod.	3311	65.7	74.6	70.3	75.9	76.9	73.9	70.4	7.9	1.4	-3.9	-4.8	-1	72.7	70.7
Iron and steel foundries	3321	12.0	78.6	80.0	76.6	76.9	71.6	69.1	-4.2	.3	-6.8	-3.5	-13.5	68.7	63.2
Primary nonferrous metals	3331	78.1	89.2	82.3	94.9	86.3	84.2	85.5	15.2	-9.1	-2.4	1.6	3.9	80.9	83.7
Aluminum	33341	70.3	78.5	78.7	74.4	76.2	80.2	73.2	-5.5	2.4	5.3	-8.7	-7.0	68.4	60.9
Nonferrous foundries	3361	2.1	115.4	118.1	115.6	110.0	115.6	115.3	-2.1	-4.9	5.1	-0.3	-2.4	114.9	113.0
FABRICATED METAL PRODUCTS	341	26.4	114.4	114.8	114.5	114.7	114.9	115.5	-0.3	-2	-2	-6	-6	115.6	115.1
Metal cans	3411	2.2	112.3	110.8	113.9	116.11	115.8	120.5	2.8	1.9	-0.3	4.1	8.8	119.9	117.2
Hardware	3421	2.3	102.7	103.6	101.0	102.0	100.7	103.2	-2.5	1.0	-1.3	2.5	-0.4	105.4	107.1
Structural metal products	3441	.8	112.2	114.0	114.0	111.81	107.9	110.8	-0	-1.9	-3.5	2.7	-2.8	112.3	110.4
Fasteners	3451	1.6	102.7	105.3	101.1	99.1	102.9	104.3	-4.0	-2.0	3.8	1.3	-1.0	105.7	110.2
Metal stampings	3461	6.2	113.2	113.5	110.8	114.9	116.4	110.5	-2.3	3.7	1.3	-5.1	-2.6	108.3	104.0
NONELECTRICAL MACHINERY	351	28.6	115.1	115.0	114.3	116.1	115.8	113.9	-0.6	1.6	-0.3	-1.6	-1.0	113.8	115.1
Engines and turbines	3511	2.4	70.2	70.6	68.5	65.6	63.5	63.3	-3.0	-4.2	-3.1	-0.4	-10.3	64.8	62.6
Farm equipment	3521	2.1	57.6	59.7	56.9	54.2	52.0	49.8	-4.6	-4.8	-4.0	-4.2	-16.5	50.7	53.1
Construction equipment	3531	5.1	86.4	85.6	86.0	87.3	82.2	78.7	-5	1.4	-5.8	-4.3	-8.0	80.6	77.0
Metalworking machinery	3541	3.8	110.5	109.7	111.1	112.9	114.2	114.7	1.3	1.6	1.1	-5	4.6	117.1	114.9
Special industry machinery	3551	2.0	101.2	100.2	102.1	100.1	101.9	99.9	1.9	-2.0	1.8	-1.9	-0.3	96.2	103.2
General industrial mach.	3561	4.6	109.5	109.9	110.8	108.7	108.2	108.7	-8	-1.9	-0.5	-5	-1.1	106.4	112.8
Office and computing mach.	3571	2.8	203.4	205.9	202.6	204.4	207.9	195.6	-1.6	.9	1.7	-5.9	-5.0	195.4	203.2
Service industry machinery	3581	2.8	95.3	95.7	94.5	94.2	95.5	98.7	-1.3	-0.3	1.4	3.3	3.1	99.2	105.8
ELECTRICAL MACHINERY	361	25.0	123.8	124.8	123.2	123.3	124.1	127.0	-1.2	.0	-7	2.3	1.8	125.7	128.1
Elect. distribution equip.	3611	1.5	100.1	99.2	102.0	101.9	98.6	99.8	2.8	-0.1	-3.3	1.2	-5	102.1	100.1
Elect. indust. apparatus	3621	4.3	80.6	80.8	79.9	75.7	78.0	79.0	-1.1	-5.2	3.1	1.2	-2.2	78.5	83.3
Household appliances	3631	2.7	93.8	94.8	94.4	92.2	89.0	94.0	-0.4	-2.4	-3.5	5.7	-0.8	93.6	93.7
Lighting and wiring prod.	3641	2.3	100.2	100.2	99.1	99.6	101.6	101.3	-1.1	.6	2.0	-0.4	1.1	104.0	104.2
Radio and TV sets	3651	.9	115.7	115.0	114.5	116.51	122.7	117.7	-0.4	1.7	5.3	-4.0	2.4	119.7	114.5
Communication equipment	3661	6.6	166.1	168.1	164.6	167.2	169.5	167.4	-2.1	1.6	1.3	-1.2	-0.4	163.5	164.9
Electronic components	3671	6.0	168.3	168.8	165.5	169.51	176.2	180.0	-1.9	2.4	3.9	2.2	6.6	173.5	182.5
TRANSPORTATION EQUIPMENT	371	31.4	110.5	110.2	110.2	112.1	114.5	112.2	-0	1.8	2.2	-2.1	1.8	112.2	113.4
Motor vehicles and parts	3711	19.3	98.3	97.9	97.2	99.3	103.2	98.9	-0.7	2.2	3.9	-4.1	1.1	98.4	98.4
Aircraft and parts	3721	6.5	137.6	135.1	140.6	140.9	143.7	149.0	4.1	-2	2.0	3.7	10.3	149.4	152.5
Ships and boats	3731	2.1	118.7	120.6	115.3	116.61	113.0	106.2	-4.4	1.1	-3.0	-6.1	-12.0	100.2	122.6
INSTRUMENTS	381	5.5	141.9	141.9	141.4	146.5	149.2	149.5	-0.4	3.6	1.9	-1	5.3	149.4	149.0
Copiers and related equip.	3861	1.4	123.9	122.8	121.6	128.9	136.9	134.0	-1.0	6.0	6.2	-2.1	9.2	138.6	135.8
MISCELLANEOUS MANUFACTURES	391	4.1	100.1	101.1	99.8	99.6	102.4	102.9	-1.3	-0.3	2.8	-5	1.7	101.3	100.9
SUPPLEMENTARY GROUPINGS															
TOTAL, LESS NUCLEAR NONDEFENSE		740.7	104.2	103.8	104.3	104.0	104.7	102.8	-5	-0.3	.6	-1.8	-1.0	103.3	102.7
UTILITY SALES TO INDUSTRY		715.7	101.4	102.0	101.0	100.6	100.7	98.8	-0.9	-0.4	-1	-1.9	-3.1	99.2	98.7
INDUSTRIAL GENERATION		70.1	83.4	82.3	81.9	84.9	86.2	83.2	-0.4	3.7	1.5	-3.5	1.1	86.6	82.4

Note—The electric power use data by industry, shown in billions of kilowatt hours for 1977, are from the Census of Manufactures of that year and from other sources. They are provided for information and are not used as weights to compile the electric power use indexes. All index aggregations, with their detailed components, are calculated from the kilowatt hour data collected in the Federal Reserve survey of electric power use by industry. The electric power total includes only those major divisions of industries—mining and manufacturing—for which data are collected in this Federal Reserve survey. The total does not include gas or electric utility kilowatt hour use. The supplementary grouping, "total, less nondefense, nuclear" is shown separately because the nondefense nuclear materials series (part of SIC 2819) accounts for a disproportionately large part of total electric power use. Since the value added proportion for this industry is a considerably smaller part of total IP than its share of total electric power use, excluding this component from total power use facilitates comparisons with total IP.

Table 9B—continued

**ELECTRIC POWER USE BY INDUSTRIES**

Not seasonally adjusted, 1977 = 100

Series	SIC code	Indexes						Percentage change from previous quarter						Indexes			
		1977		1985		1986		1985		1986		1985		1986		1986	
		bil.	KWH	Avg.	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	JUN	JUL		
PETROLEUM PRODUCTS	29	34.7	112.9	111.4	118.7	112.8	112.2	115.6	6.5	-4.9	-0.5	3.1	3.7	124.0	115.6		
RUBBER & PLASTICS PRODUCTS	30	23.1	126.3	126.9	127.4	127.8	126.0	128.7	-4	-3	-1.4	2.2	1.4	133.5	128.8		
Tires	301	5.4	77.4	79.3	76.8	76.3	68.8	68.0	-3.2	-0.7	-9.9	-1.0	-14.2	71.5	69.9		
Rubber products, nec	306	2.2	94.0	95.7	90.6	94.9	96.2	94.4	-5.4	4.7	1.4	-1.9	-1.4	98.9	93.7		
Plastics products, nec	307	14.2	164.1	163.7	167.3	167.1	167.1	173.2	2.2	-0.1	-0.1	3.7	5.8	178.7	172.6		
LEATHER AND PRODUCTS	31	1.4	88.4	89.0	91.6	86.0	86.8	83.5	2.9	-6.1	-9	-3.7	-6.1	85.1	77.3		
Shoes	314	.7	79.4	78.6	83.2	75.2	82.1	76.1	5.9	-9.6	9.1	-7.3	-3.2	77.2	71.3		
CLAY, GLASS, AND STONE	32	31.4	104.9	105.8	109.0	107.0	99.5	106.7	3.1	-1.9	-6.9	7.2	-9.1	108.4	104.4		
Flat glass	321	1.3	101.0	96.2	101.7	105.8	107.2	5.7	4.1	-0.8	2.1	11.5	108.2	112.2			
Pressed and blown glass	322	6.8	102.4	101.5	105.6	102.7	101.3	106.1	4.0	-2.7	-1.4	4.7	4.5	108.7	100.6		
Cement	324	10.2	98.3	101.6	106.7	102.3	84.4	99.9	5.0	-4.1	-17.5	18.3	-1.7	102.2	101.9		
Structural clay products	325	1.5	100.0	101.2	101.9	100.8	98.8	100.7	.7	-1.1	-2.0	1.9	-0.5	100.7	101.2		
Concrete products	327	3.6	109.4	112.3	112.8	112.2	108.6	113.3	-4	-0.5	-3.2	4.3	.9	113.3	107.8		
PRIMARY METALS	33	171.3	80.2	80.6	78.5	77.5	79.3	77.4	-2.7	-1.1	2.2	-2.3	-4.0	74.9	69.2		
Basic steel and mill prod.	331	65.7	74.6	74.8	73.2	72.7	75.7	74.9	-2.2	-0.6	4.1	-1.1	-0.1	73.9	68.5		
Iron and steel foundries	332	12.0	78.6	83.1	75.4	75.1	71.4	71.8	-9.2	-0.5	-4.9	.6	-13.5	71.7	60.0		
Primary nonferrous metals	333	78.1	89.2	82.7	93.0	88.8	82.9	85.8	12.4	-4.5	-6.7	3.5	3.7	83.9	81.1		
Aluminum	3334	70.3	78.5	79.5	75.7	75.2	78.4	74.0	-4.7	-0.7	4.2	-5.6	-7.0	68.7	63.4		
Nonferrous foundries	336	2.1	115.4	118.3	113.9	110.7	116.2	115.5	-3.7	-2.7	4.9	-0.6	-2.4	115.6	106.3		
FABRICATED METAL PRODUCTS	34	26.4	114.4	114.8	116.5	113.0	114.4	115.5	1.6	-3.0	1.2	1.0	.6	117.4	114.2		
Metal cans	341	2.2	112.3	112.4	120.0	112.1	111.7	122.3	6.7	-6.6	-0.3	9.5	8.8	125.7	121.2		
Hardware	342	2.3	102.7	103.3	102.6	101.0	100.2	102.9	-0.7	-1.6	-0.8	2.7	-0.4	107.2	104.7		
Structural metal products	344	.8	112.2	111.9	113.8	110.8	110.8	108.8	1.6	-2.6	-1	-1.8	-2.8	110.8	108.4		
Pasteners	345	1.6	102.7	105.0	102.2	97.3	103.7	103.9	-2.6	-4.8	6.6	.2	-1.0	105.8	106.5		
Metal stampings	346	6.2	113.2	115.0	111.2	112.5	116.7	112.0	-3.3	1.1	3.7	-4.0	-2.6	109.8	101.7		
NONELECTRICAL MACHINERY	35	28.6	115.1	114.5	119.8	113.7	112.9	113.4	4.6	-5.1	-0.7	.4	-1.0	116.7	117.3		
Engines and turbines	351	2.4	70.2	69.5	70.8	64.6	63.1	62.3	1.9	-8.6	-2.3	-1.3	-10.3	64.9	63.1		
Farm equipment	352	2.1	57.6	60.0	55.8	52.1	54.4	50.1	-7.1	-6.6	4.4	-7.9	-16.5	51.0	49.6		
Construction equipment	353	5.1	86.4	84.7	89.3	86.1	81.0	77.9	5.4	-3.5	-5.9	-3.8	-8.0	82.0	79.2		
Metalworking machinery	354	3.8	110.5	108.9	114.3	110.1	114.5	113.9	5.0	-3.6	3.9	-0.5	4.6	117.4	115.5		
Special industry machinery	355	2.0	101.2	100.1	104.2	98.8	101.1	99.8	4.1	-5.2	2.3	-1.3	-0.3	98.4	101.0		
General industrial mach.	356	4.6	109.5	110.7	113.9	106.3	106.6	109.5	2.8	-6.6	.3	2.7	-1.1	110.3	111.6		
Office and computing mach.	357	2.8	203.4	201.9	218.0	202.6	197.3	191.9	8.0	-7.1	-2.6	-2.7	-4.9	200.9	212.9		
Service industry machinery	358	2.8	95.3	96.3	99.5	91.3	92.6	99.3	3.4	-8.3	1.4	7.2	3.1	103.8	112.8		
ELECTRICAL MACHINERY	36	25.0	123.8	124.1	129.2	121.6	120.3	126.3	4.1	-5.8	-1.1	5.0	1.8	129.4	131.4		
Elect. distribution equip.	361	1.5	100.1	98.8	105.3	100.9	96.8	99.3	6.6	-4.2	-4.1	2.6	.5	105.3	98.6		
Elect. indust. apparatus	362	4.3	80.6	82.3	80.7	74.2	77.2	80.4	-1.9	-8.0	4.1	4.2	-2.2	80.3	82.5		
Household appliances	363	2.7	93.8	96.3	94.1	90.0	89.8	95.5	-2.3	-4.4	-0.3	6.4	-0.8	98.4	91.8		
Lighting and wiring prod.	364	2.3	100.2	100.1	99.6	99.6	101.0	101.2	-0.4	.0	1.3	.3	-1.2	105.2	100.7		
Radio and TV sets	365	.9	115.7	113.4	124.5	113.7	116.4	116.1	9.8	-8.7	2.3	-0.2	2.4	123.0	120.2		
Communication equipment	366	4.6	166.1	165.7	180.4	164.3	158.4	165.0	8.8	-8.9	-3.6	4.2	-0.4	169.9	178.3		
Electronic components	367	6.0	168.3	167.6	176.1	168.4	167.3	178.5	5.1	-4.3	-0.7	6.7	6.5	180.1	191.8		
TRANSPORTATION EQUIPMENT	37	31.4	110.5	111.4	115.1	109.3	110.7	113.4	3.4	-5.1	1.3	2.4	1.8	117.3	115.9		
Motor vehicles and parts	371	19.3	98.3	100.3	101.0	96.5	99.1	101.4	.7	-4.5	2.7	2.4	1.1	104.7	99.1		
Aircraft and parts	372	6.5	137.6	134.2	147.4	141.0	137.5	148.1	9.8	-4.3	-2.5	7.7	10.3	154.0	160.2		
Ships and boats	373	2.1	118.7	118.0	115.4	112.9	118.7	104.1	-2.2	-2.2	5.1	-12.3	-11.8	98.3	120.1		
INSTRUMENTS	381	5.5	141.9	140.6	151.6	143.1	143.1	148.1	7.8	-5.6	.0	3.5	5.3	156.1	156.7		
Copiers and related equip.	386	1.4	123.9	122.6	126.6	127.7	132.8	133.9	3.3	-8	4.0	.9	9.2	146.2	138.8		
MISCELLANEOUS MANUFACTURES	391	4.1	100.1	99.6	104.6	98.2	100.3	101.3	5.0	-6.1	2.0	1.9	1.7	102.8	101.3		
<b>SUPPLEMENTARY GROUPINGS</b>																	
TOTAL, LESS NUCLEAR MONDEFENSE		740.7	104.2	104.9	106.3	102.8	102.8	103.9	1.3	-3.3	.0	1.1	-1.0	105.9	102.6		
UTILITY SALES TO INDUSTRY		715.7	101.4	103.4	103.0	99.1	98.7	100.2	-0.4	-3.7	-0.4	1.5	-3.1	101.9	98.9		
INDUSTRIAL GENERATION		70.1	83.4	82.7	82.3	82.6	87.7	83.5	-0.5	-4	6.1	-4.8	1.0	86.5	83.5		

## Explanatory Note

**Coverage.** The index is a measure of industrial production expressed as a percentage of output in a reference period (currently 1977). The changes in the physical output of the nation's factories, mines, and electric and gas utilities are represented by 252 individual series in the index, covering 27 pertinent two-digit codes of the *Standard Industrial Classification* (SIC). For each individual series, index series relatives are calculated first and are then aggregated in the following two ways: (1) market groupings, such as consumer goods, equipment, intermediate products, and materials, from which the seasonally adjusted total index is derived (tables 1A and 1B), and (2) industry groupings, such as SIC two-digit industries, and major aggregates of these groupings, such as durable and nondurable manufacturing, mining, and utilities (tables 2A and 2B).

**Market groupings.** For purposes of analysis the individual industrial output series are grouped into materials, intermediate products, and final products; together, the latter two form the products category. Materials are industrial output requiring further processing within industry; intermediate products are expected to become inputs in nonindustrial sectors such as construction, farming, and services; and final products are assumed to enter final use as items of private consumption, government use, or capital formation. In the index, final products are subdivided into consumer goods and equipment.

**Timing.** A first estimate of output for a month is published about the 15th of the following month. This estimate may be revised in each of the next three months as new data become available. After the fourth month, indexes are not revised further until the time of an annual revision or a benchmark revision. The last three benchmark revisions were published in 1971, 1976, and 1985. Such revisions are derived mainly from the quinquennial *Census of Manufactures*, the quinquennial *Census of Mineral Industries*, and the *Annual Survey of Manufactures*, all prepared by the Bureau of the Census, and the *Minerals Yearbook* of the Bureau of Mines.

**Source data.** The indexes of industrial production are constructed from monthly data of two types: (1) directly measured output in physical units; and (2) estimates of output derived from data on input, expressed in physical units, adjusted by conversion factors that relate these inputs to physical output. The data on directly measured physical product (pounds, yards, barrels, and the like) are obtained from reports of the Bureau of the Census, the Bureau of Mines, other government agencies, and trade associations. When suitable monthly data on physical product are unavailable, estimates of physical output based on input data (kilowatt hours, production-worker hours) are used. The hours worked by production workers are collected in the monthly establishment survey of the Bureau of Labor Statistics, while data on the kilowatt hours used in industry are collected from electric utilities by the Federal Reserve Banks. The estimates of input conversion are based mainly on historical relationships that were derived from censuses and annual surveys and, when appropriate, on more recent cyclical, technological and statistical developments. Users of the index should bear in mind that, especially for the first and second estimates of a given month's indexes, the available source data are limited and are subject to change in the months following their initial receipt as well as in benchmark revisions.

**Seasonal adjustment.** Individual series are seasonally adjusted by the X-11 Method II of the Bureau of the Census with the intervention analysis technique applied to the series. The seasonal factors currently being used are based on data through 1985. The individual series and the major aggregate series are seasonally adjusted independently, and the factors for the aggregate series in the sum-

mary table and in tables 1 and 2 are reviewed monthly. The seasonally adjusted total index is aggregated from the seasonally adjusted market groupings of the index and may not precisely equal an aggregation of the seasonally adjusted industry groupings. A simple aggregation of the seasonally adjusted individual series within groupings may not precisely equal the seasonally adjusted groupings, primarily because aggregates are adjusted independently.

**Weights.** The total index and the various groupings of the component series are currently aggregated on the basis of 1977 value-added weights, which are shown in the first column of the index tables under the heading proportions. Value-added weights for 1972 are used for the 1972-77 period, while 1967 weights are used for the 1967-72 period. The weight years for earlier periods after World War II are 1963, 1958, 1954, and 1947. The indexes for the various periods are linked to provide the continuous final results expressed in relation to the 1977 comparison year taken as 100. The gross-value-weighted product series are expressed in terms of 1982 dollars.

**Formula.** The symbolic expression for the total index ( $I_t$ ) is

$$I_t = \sum \left( \frac{q_{77}p_{77}}{\sum q_{77}p_{77}} \right) \cdot \left( \frac{q_t}{q_{77}} \right) \cdot 100 = \frac{\sum q_t p_{77}}{\sum q_{77} p_{77}} \cdot 100,$$

where  $q$  is quantity,  $p$  is Census value added per unit of output,  $t$  represents the  $t$ th period, and 77 denotes base-year values.

**Reliability.** The median of the revisions in total industrial production, without regard to sign, between the first and fourth estimates is 0.3 percent: that is, in about half of the cases the absolute value of the revision from the first to the fourth estimate was less than 0.3 percent. (This calculation used data for the period from January 1972 to January 1985.) Over the same period, positive changes in the first estimate were confirmed in the fourth estimate (available three months later) about 94 percent of the time. Negative changes in the first estimate were confirmed in the fourth estimate about 85 percent of the time. Thus the likelihood is high that the first estimate for a month will indicate the direction of change in the total index in a reliable manner. However, the magnitude of change as first estimated typically is revised during the next three months; these revisions are based on revised and more complete data sources. The estimates for the higher aggregates generally are considered more reliable than the estimates for their individual components. Revisions to the components often offset each other and thereby reduce the size of revisions to the aggregates.

**Rounding.** Changes shown for index components may not aggregate to changes for totals because of independent rounding. Percentage changes are calculated from indexes expressed in more digits following the decimal point than shown in their rounded form in the present release. Therefore, percentage changes calculated from the rounded indexes may not entirely coincide with the percentage changes calculated from unrounded indexes.

**Literature.** *The Handbook of the Industrial Production Index* contains a more detailed description of the index and the procedures used in compiling it, plus a history of its development, a glossary of terms, and a bibliography. The *Handbook* is scheduled to be published in late 1986. Selected data on industrial production are also published monthly in the Financial and Business Statistics section of the *Federal Reserve Bulletin*.