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1985 Revision

# Industrial Production

Total Index and Major Groupings, 1977 = 100  
January 1967-December 1984  
with supplementary historical data.

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Industrial Output Section

Division of Research and Statistics

Board of Governors of the Federal Reserve System  
Washington, D.C. 20551

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YP	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
PRODUCTS, TOTAL																	
39	15.2	15.3	15.4	15.4	15.5	15.7	16.0	16.2	16.7	17.1	17.5	17.6	15.3	15.6	16.3	17.4	16.1
40	17.4	17.2	17.1	17.2	17.5	17.9	17.9	18.1	18.6	18.9	19.3	20.0	17.2	17.5	18.2	19.4	18.1
41	20.6	21.2	21.8	22.2	23.0	23.2	23.4	23.7	23.7	23.9	24.1	24.4	21.2	22.8	23.6	24.1	23.0
42	25.1	25.8	26.0	24.4	24.5	24.6	25.2	26.0	26.9	27.9	28.8	29.7	25.6	24.5	26.0	28.8	26.2
43	29.8	30.5	30.8	31.2	31.5	31.8	32.7	33.2	34.2	34.7	35.2	34.4	30.4	31.5	33.4	34.8	32.5
44	34.9	35.2	35.2	35.3	35.3	35.4	35.7	36.1	35.8	35.9	35.4	35.1	35.1	35.3	35.9	35.5	35.4
45	34.8	34.4	33.9	33.3	32.4	31.8	31.3	27.9	25.0	24.3	24.7	24.7	34.4	32.5	28.0	24.6	30.0
46	24.5	24.2	24.8	25.2	24.9	25.2	25.8	26.6	27.3	27.8	28.1	28.4	24.5	25.1	26.6	28.1	26.1
47	28.6	28.8	28.9	28.9	28.9	28.9	28.8	29.0	29.3	25.7	30.1	30.2	28.8	28.9	29.0	30.0	29.2
48	30.4	30.4	30.3	30.2	30.2	30.5	30.6	30.6	30.4	30.6	30.3	30.0	30.3	30.3	30.5	30.3	30.4
49	29.5	29.3	29.3	29.0	29.1	29.0	29.1	29.3	29.6	29.4	29.3	29.2	29.3	29.0	29.3	29.3	29.3
50	29.9	30.3	30.9	31.8	32.5	33.5	34.4	35.5	34.9	35.1	35.1	35.7	30.4	32.6	34.9	35.3	33.3
51	36.0	36.3	36.3	36.3	36.0	35.8	35.2	34.8	35.1	35.1	35.6	35.9	36.2	36.0	35.0	35.5	35.7
52	36.3	36.6	36.7	36.6	36.7	37.4	36.7	37.6	38.5	39.0	39.6	39.8	36.5	36.9	37.6	39.5	37.6
53	40.1	40.6	40.7	40.7	40.8	40.5	40.7	40.6	40.1	40.1	39.1	38.5	40.5	40.7	40.4	39.2	40.2
54	38.4	38.5	38.5	38.1	38.1	38.1	38.0	38.0	38.4	38.6	39.1	39.5	38.4	38.1	38.1	39.1	38.5
55	40.2	40.4	41.1	41.5	42.0	42.1	42.2	42.1	42.4	43.2	43.5	43.7	40.6	41.9	42.2	43.5	42.1
56	43.9	44.0	44.0	44.4	44.1	44.0	43.9	44.5	44.5	44.9	44.9	45.4	44.0	44.2	44.3	45.1	44.5
57	45.7	46.2	46.2	45.7	45.4	45.7	45.8	45.9	45.6	44.9	44.2	43.7	46.0	45.6	45.8	44.3	45.5
58	43.2	42.6	42.3	41.9	42.3	43.1	43.3	43.9	43.9	44.2	45.6	45.7	42.7	42.4	43.7	45.2	43.6
59	46.2	46.9	47.1	47.8	48.2	48.6	48.6	48.3	48.1	47.9	47.4	48.8	46.7	48.2	48.3	48.1	48.0
60	50.0	49.8	49.6	49.7	50.0	49.4	49.1	49.0	48.6	48.9	48.4	47.7	49.8	49.7	48.9	48.3	49.3
61	47.7	47.7	47.9	48.7	49.0	49.5	49.9	50.3	50.2	51.0	51.9	52.2	47.8	49.1	50.1	51.7	49.8
62	51.7	52.4	52.8	53.2	53.5	53.6	54.1	54.1	54.4	54.2	54.6	54.6	52.3	53.4	54.2	54.5	53.7
63	55.2	55.7	55.7	56.3	56.5	56.6	56.6	57.1	57.3	57.8	58.0	58.1	55.5	56.5	57.0	58.0	56.7
64	58.7	58.7	58.7	59.9	60.0	60.0	60.6	60.6	60.3	59.7	61.4	62.2	58.7	60.0	60.5	61.1	60.1
65	62.9	63.4	64.2	64.2	64.8	65.2	65.7	65.8	66.4	67.1	67.7	68.5	63.5	64.7	65.9	67.8	65.5
66	69.1	69.3	70.1	70.4	70.9	71.3	71.8	71.5	72.0	72.7	72.6	72.8	69.5	70.9	71.8	72.7	71.2
67	73.6	73.1	73.3	74.0	73.5	73.6	73.3	74.2	74.3	74.7	75.9	76.6	73.4	73.7	74.0	75.8	74.2
68	76.3	76.7	76.9	76.7	77.4	77.7	77.4	78.1	78.4	78.6	79.5	79.6	76.6	77.3	78.0	79.2	77.8
69	80.1	80.4	81.2	80.5	80.2	80.7	81.4	81.2	81.0	81.1	80.1	80.1	80.6	80.5	81.2	80.4	80.7
70	78.9	79.1	79.0	79.0	79.1	78.9	79.0	78.1	77.6	76.4	75.9	77.7	79.0	79.0	78.2	76.6	78.2
71	77.9	78.0	77.8	78.2	78.2	78.6	79.4	79.0	80.1	80.9	81.4	81.9	77.9	78.3	79.5	81.4	79.3
72	83.3	84.0	84.6	86.0	85.6	86.0	85.7	86.9	87.7	88.8	89.8	90.5	84.0	85.9	86.8	89.7	86.6
73	90.5	91.9	91.9	92.0	92.4	93.0	93.4	93.2	94.5	94.5	94.6	92.6	91.4	92.5	93.7	93.9	92.9
74	91.4	91.2	92.0	92.2	93.0	93.5	92.9	92.7	93.1	92.4	90.7	87.6	91.5	92.9	92.9	90.2	91.9
75	85.0	84.4	83.2	84.1	84.1	85.1	85.8	86.6	87.1	87.2	88.0	88.5	84.2	84.4	86.5	87.9	85.7
76	89.4	91.1	90.5	90.7	91.7	91.5	92.3	92.7	92.9	93.4	95.4	96.2	90.3	91.3	92.7	95.0	92.3
77	97.0	97.4	97.7	98.8	99.3	100.1	100.6	101.3	101.5	101.6	101.8	103.0	97.3	99.4	101.1	102.1	100.0
78	102.1	102.7	104.5	105.9	106.0	107.5	107.7	108.0	108.7	109.1	109.8	110.6	103.1	106.5	108.1	109.8	106.9
79	110.7	111.1	111.4	109.8	111.3	111.1	110.6	110.2	110.9	111.5	111.4	111.5	111.1	110.7	110.6	111.5	111.0
80	111.5	112.4	112.4	110.4	108.5	108.1	108.8	110.4	111.5	112.1	113.1	113.0	112.1	109.0	110.3	112.7	111.0
81	113.1	113.2	113.6	113.5	114.4	114.4	115.2	114.5	113.3	112.7	111.7	110.9	113.3	114.1	114.3	111.8	113.4
82	109.0	110.6	109.9	108.7	108.3	107.8	107.6	106.9	106.4	105.7	106.1	106.2	109.8	108.3	106.9	106.0	107.8
83	107.5	108.0	108.8	110.4	111.6	112.8	114.4	116.5	118.4	118.9	119.1	120.0	108.1	111.6	116.4	119.3	113.9
84	122.8	123.7	124.5	125.4	126.2	127.5	128.6	129.0	128.8	129.0	129.9	129.8	123.7	126.4	128.8	129.5	127.1

INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
FINAL PRODUCTS, TOTAL																	
39	15.0	15.0	15.3	15.3	15.3	15.4	15.7	15.9	16.2	16.6	17.0	17.1	15.1	15.3	16.0	16.9	15.8
40	17.1	17.0	16.9	17.0	17.1	17.4	17.5	17.6	18.3	18.7	19.1	19.8	17.0	17.2	17.8	19.2	17.8
41	20.4	21.2	21.8	22.2	22.9	23.1	23.3	23.6	23.7	24.0	24.1	24.6	21.1	22.8	23.5	24.2	22.9
42	25.4	26.1	26.4	24.6	24.8	25.0	25.9	26.8	27.7	28.8	29.9	31.1	26.0	24.8	26.8	29.9	26.9
43	31.2	31.9	32.3	32.9	33.2	33.6	34.5	35.2	36.2	36.8	37.4	36.4	31.8	33.2	35.3	36.9	34.3
44	37.1	37.4	37.4	37.5	37.6	37.7	38.0	38.4	38.1	38.0	37.5	37.0	37.3	37.6	38.2	37.5	37.6
45	36.7	36.3	35.6	34.8	33.7	33.0	32.3	28.3	25.2	24.6	24.8	25.0	36.2	33.8	28.6	24.8	31.0
46	24.7	24.5	24.6	25.0	25.0	25.1	25.6	26.6	27.4	27.9	28.3	28.4	24.6	25.0	26.5	28.2	26.1
47	28.7	28.7	28.7	28.7	28.6	28.7	28.6	28.8	29.2	25.6	30.0	30.1	28.7	28.6	28.9	29.9	29.0
48	30.1	30.1	30.0	30.0	29.9	30.4	30.4	30.2	30.0	30.2	30.0	29.7	30.1	30.1	30.2	30.0	30.1
49	29.2	29.2	29.2	29.0	29.0	29.0	29.0	29.3	29.4	29.4	28.9	28.7	29.2	29.0	29.3	29.0	29.1
50	29.7	29.8	30.4	31.3	32.0	33.0	34.0	35.3	34.6	34.6	34.6	35.3	30.0	32.1	34.6	34.8	32.9
51	35.7	36.0	36.0	35.9	35.5	35.5	34.8	34.4	35.0	35.1	35.8	36.1	35.9	35.6	34.7	35.7	35.5
52	36.6	36.9	37.1	37.1	37.3	38.1	37.2	38.0	38.9	35.5	40.2	40.5	36.9	37.5	38.0	40.1	38.1
53	40.7	41.1	41.2	41.2	41.4	41.0	41.2	41.1	40.6	40.6	39.5	38.9	41.0	41.2	41.0	39.6	40.7
54	38.6	38.6	38.6	38.1	38.2	38.2	38.2	38.1	38.1	38.2	38.8	39.1	38.6	38.2	38.2	38.7	38.5
55	39.8	40.0	40.6	41.1	41.5	41.4	41.6	41.6	41.9	42.8	42.9	43.2	40.2	41.4	41.7	43.0	41.6
56	43.3	43.3	43.4	43.9	43.6	43.6	43.7	44.0	44.1	44.5	44.7	45.2	43.3	43.7	44.0	44.8	44.1
57	45.4	46.0	46.1	45.6	45.3	45.6	45.7	45.8	45.6	44.7	44.1	43.5	45.9	45.5	45.7	44.1	45.4
58	43.0	42.5	42.2	41.7	42.0	42.7	43.1	43.4	43.3	43.6	45.2	45.4	42.6	42.1	43.3	44.7	43.3
59	45.8	46.2	46.5	47.1	47.6	47.9	48.3	48.2	48.1	47.8	47.0	48.2	46.2	47.6	48.2	47.7	47.5
60	49.6	49.4	49.4	49.4	49.8	49.2	48.9	48.9	48.6	48.9	48.3	47.7	49.5	49.5	48.8	48.3	49.1
61	47.5	47.5	47.6	48.4	48.8	49.2	49.6	49.9	49.7	50.7	51.7	52.0	47.6	48.8	49.7	51.5	49.5
62	51.7	52.3	52.8	53.3	53.5	53.4	54.1	54.0	54.2	54.3	54.5	54.7	52.3	53.4	54.1	54.5	53.7
63	55.5	55.9	56.0	56.3	56.3	56.5	56.5	57.1	57.3	57.7	57.8	58.0	55.8	56.4	57.0	57.9	56.7
64	58.7	58.4	58.3	59.6	59.9	59.9	60.5	60.5	60.3	59.5	61.4	62.5	58.5	59.8	60.4	61.1	59.9
65	63.1	63.5	64.3	64.5	65.1	65.6	66.0	66.0	67.0	67.5	68.1	68.9	63.7	65.1	66.3	68.2	65.8
66	69.7	69.9	70.6	71.1	71.5	72.1	72.5	72.5	73.0	74.0	73.8	74.0	70.1	71.6	72.7	73.9	72.1
67	74.5	74.1	74.3	75.1	74.4	74.4	74.0	74.8	74.8	75.3	76.8	77.7	74.3	74.6	74.5	76.6	75.0
68	77.2	77.6	77.8	77.5	78.2	78.5	78.2	78.9	79.3	75.5	80.2	80.1	77.5	78.0	78.8	79.9	78.6
69	80.7	80.9	81.5	80.9	80.4	81.0	82.0	81.7	81.5	81.5	80.4	80.3	81.0	80.8	81.8	80.7	81.1
70	79.0	79.5	79.2	79.2	79.3	79.1	79.0	78.1	77.3	75.9	75.4	77.6	79.2	79.2	78.1	76.3	78.2
71	77.9	77.7	77.6	77.9	77.9	78.2	79.0	78.7	79.6	80.4	80.8	81.2	77.7	78.0	79.1	80.8	78.9
72	82.5	83.2	83.8	85.3	84.6	85.0	84.6	85.7	86.6	87.7	88.7	89.5	83.2	85.0	85.6	88.6	85.6
73	89.6	90.8	90.9	91.1	91.5	92.1	92.3	92.2	93.8	93.9	93.9	91.6	90.5	91.6	92.7	93.1	92.0
74	90.6	90.4	91.3	91.5	92.6	93.1	92.8	92.6	93.2	92.8	91.1	88.0	90.8	92.4	92.9	90.7	91.7
75	85.4	84.8	83.8	84.9	84.9	85.8	86.5	87.2	87.8	87.8	88.4	89.1	84.7	85.2	87.2	88.4	86.3
76	89.7	91.4	90.8	90.9	91.9	91.7	92.3	92.8	92.6	93.1	95.4	96.4	90.7	91.5	92.6	95.0	92.4
77	97.3	97.8	97.8	98.9	99.2	99.9	100.6	101.2	101.4	101.4	101.7	102.8	97.7	99.3	101.1	101.9	100.0
78	101.6	102.5	104.4	106.0	106.1	107.5	107.8	108.3	108.9	105.2	109.9	110.5	102.8	106.5	108.3	109.9	106.9
79	110.8	111.0	111.5	109.4	111.4	111.1	110.6	110.2	111.1	111.5	111.5	111.4	111.1	110.6	110.6	111.5	111.0
80	111.8	112.9	112.9	111.9	110.1	109.6	110.7	111.7	112.8	112.5	114.5	114.1	112.5	110.5	111.7	114.0	112.2
81	114.2	114.7	115.1	115.2	116.0	116.2	116.9	116.3	115.3	115.1	114.0	113.2	114.7	115.8	116.2	114.1	115.2
82	111.0	112.5	112.0	110.8	110.2	109.6	109.3	108.3	107.7	107.0	107.4	107.9	111.8	110.2	108.4	107.4	109.5
83	108.6	109.0	109.7	111.3	112.5	113.6	115.1	117.3	119.2	119.3	119.7	120.8	109.1	112.5	117.2	120.0	114.7
84	123.4	124.2	125.0	126.1	126.8	128.2	129.2	129.7	129.8	129.9	130.7	130.6	124.2	127.1	129.5	130.4	127.8

INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
CONSUMER GOODS																	
39	17.5	17.5	17.8	17.8	17.8	18.0	18.2	18.3	18.6	18.7	18.9	19.0	17.6	17.9	18.4	18.9	18.2
40	18.9	18.9	18.6	18.7	18.9	19.0	19.0	19.0	19.5	19.8	20.2	20.9	18.8	18.9	19.1	20.3	19.3
41	21.3	21.9	22.5	22.9	23.6	23.6	23.6	23.7	23.6	23.6	23.6	23.6	21.9	23.3	23.6	23.6	23.1
42	24.1	23.8	23.8	20.5	20.3	19.9	20.2	20.4	20.5	20.8	20.9	21.4	23.9	20.2	20.4	21.0	21.4
43	20.7	20.9	21.0	21.2	21.5	21.9	22.2	22.4	22.5	22.4	22.3	21.8	20.9	21.5	22.4	22.2	21.8
44	22.1	22.2	22.5	22.6	22.8	22.9	23.0	23.5	23.0	23.0	23.0	23.0	22.2	22.7	23.2	23.0	22.8
45	23.3	23.2	23.1	23.3	23.3	23.5	23.4	22.4	23.5	23.8	24.5	24.8	23.2	23.4	23.1	24.4	23.5
46	25.9	26.9	26.8	27.0	27.2	27.2	27.9	28.8	29.3	29.7	30.1	30.3	26.5	27.1	28.7	30.0	28.1
47	29.6	29.5	29.6	29.5	29.3	29.3	29.5	29.7	30.0	30.4	30.9	30.9	29.6	29.4	29.7	30.8	29.9
48	30.8	30.9	30.5	30.8	30.7	31.2	31.1	30.8	30.7	31.0	30.7	30.3	30.7	30.9	30.9	30.7	30.8
49	30.0	29.9	30.1	30.0	30.0	30.4	30.7	30.9	31.4	31.5	31.1	30.7	30.0	30.1	31.0	31.1	30.6
50	32.0	32.0	32.7	33.6	34.4	35.3	36.4	37.5	36.6	36.3	36.2	36.7	32.2	34.4	36.8	36.4	35.0
51	37.0	36.9	36.4	35.7	35.1	34.6	33.5	32.7	33.1	32.8	33.4	33.6	36.8	35.1	33.1	33.3	34.6
52	33.9	34.2	34.3	34.3	34.3	35.2	34.6	35.3	36.2	36.8	37.5	37.5	34.1	34.6	35.4	37.3	35.4
53	37.9	38.2	38.2	38.1	38.3	37.7	37.8	37.5	37.0	37.0	36.4	35.9	38.1	38.0	37.4	36.4	37.5
54	36.0	36.4	36.5	36.5	36.7	37.0	37.1	37.1	37.5	37.6	38.4	39.1	36.3	36.7	37.2	38.4	37.3
55	39.9	40.1	40.9	41.1	41.7	41.4	41.5	41.6	41.8	42.6	42.8	43.0	40.3	41.4	41.6	42.8	41.6
56	43.0	42.9	42.9	43.0	42.8	42.7	42.8	43.0	43.0	43.3	43.1	43.4	42.9	42.8	42.9	43.3	43.1
57	43.7	44.2	44.4	43.9	44.0	44.2	44.4	44.6	44.6	43.9	43.8	43.5	44.1	44.0	44.5	43.7	44.2
58	42.9	42.6	42.3	41.8	42.5	43.3	44.0	44.1	43.6	44.0	46.1	46.4	42.6	42.5	43.9	45.5	43.8
59	46.9	47.2	47.2	48.0	48.2	48.0	48.6	48.7	48.5	48.3	47.2	48.8	47.1	48.0	48.6	48.1	48.0
60	50.3	49.7	49.8	50.1	50.4	50.1	49.6	49.7	49.5	50.0	49.1	48.8	50.0	50.2	49.6	49.3	49.8
61	48.4	48.7	48.7	49.8	50.4	50.9	51.4	51.7	50.9	52.3	53.2	53.3	48.6	50.4	51.3	52.9	50.9
62	52.9	53.2	53.6	54.1	54.4	54.0	55.0	54.3	54.7	54.6	54.9	55.1	53.3	54.2	54.7	54.9	54.3
63	55.8	56.4	56.7	56.9	57.0	57.4	57.2	57.7	57.8	58.2	58.3	58.6	56.3	57.1	57.6	58.4	57.3
64	59.2	59.1	58.8	60.3	60.7	60.6	61.5	61.4	60.7	55.5	61.7	63.0	59.0	60.6	61.2	61.4	60.5
65	63.9	64.1	64.6	64.5	64.9	65.0	65.0	65.0	66.0	66.3	66.6	67.1	64.2	64.8	65.3	66.7	65.3
66	67.4	67.6	68.1	68.3	68.3	68.6	68.5	68.3	68.5	69.9	69.6	69.4	67.7	68.4	68.4	69.6	68.6
67	70.0	69.1	69.3	70.5	69.1	69.3	69.2	69.9	70.0	71.0	72.5	73.7	69.5	69.7	69.7	72.4	70.3
68	72.7	73.1	73.5	73.4	73.8	74.2	74.1	74.9	75.2	75.7	76.7	76.3	73.1	73.8	74.7	76.2	74.5
69	76.7	77.3	77.9	76.7	76.1	77.0	78.4	78.2	77.6	77.7	77.0	77.1	77.3	76.6	78.1	77.2	77.3
70	75.8	76.5	76.4	76.8	77.2	77.4	77.5	76.2	75.9	75.0	74.5	77.7	76.3	77.1	76.6	75.7	76.4
71	78.9	78.8	79.1	79.7	79.8	80.4	81.6	80.7	81.4	82.5	83.2	83.7	78.9	79.9	81.2	83.1	80.6
72	84.9	85.2	85.5	87.2	86.3	86.7	86.3	87.8	88.2	85.3	89.7	90.7	85.2	86.7	87.4	89.9	87.3
73	89.8	91.1	91.2	91.0	91.1	91.3	91.2	91.1	92.7	92.2	92.1	89.5	90.7	91.1	91.6	91.3	91.2
74	88.2	87.5	88.7	88.5	89.2	89.9	89.2	89.7	89.4	89.1	86.6	84.3	88.1	89.2	89.5	86.7	88.4
75	80.8	80.9	80.4	82.6	83.0	84.7	86.5	87.1	87.9	87.9	88.8	89.5	80.7	83.4	87.2	88.7	84.9
76	90.5	92.3	91.5	91.8	92.9	92.9	93.3	93.9	93.5	93.9	96.4	97.2	91.4	92.6	93.6	95.8	93.3
77	98.0	98.5	98.4	99.0	99.1	99.7	100.3	101.3	100.6	101.3	101.7	102.4	98.3	99.3	100.7	101.8	100.0
78	100.1	101.6	102.9	104.2	104.1	105.4	105.4	105.3	105.5	105.4	105.4	106.1	101.6	104.6	105.4	105.7	104.3
79	105.4	105.0	105.5	103.1	105.0	104.3	103.2	102.6	102.8	102.9	103.1	103.2	105.3	104.1	102.9	103.1	103.9
80	103.2	103.6	104.1	102.5	100.2	99.9	101.0	102.1	103.5	103.8	104.3	104.1	103.6	100.9	102.2	104.1	102.7
81	104.4	104.3	104.7	104.4	105.4	104.7	105.1	104.9	103.3	103.3	102.7	101.6	104.5	104.8	104.4	102.5	104.1
82	100.7	101.9	101.7	101.2	101.3	101.8	101.7	102.0	101.0	106.9	101.3	101.1	101.4	101.4	101.5	101.1	101.4
83	103.0	103.7	104.5	106.2	107.8	108.8	110.3	112.2	113.4	113.6	113.6	114.4	103.7	107.6	112.0	113.9	109.3
84	116.2	116.9	117.3	118.3	117.7	118.5	119.1	118.4	118.3	118.5	119.6	119.7	116.8	118.2	118.6	119.3	118.2







INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
INTERMEDIATE PRODUCTS																	
39	16.4	16.5	16.5	16.6	16.6	17.0	17.3	17.8	18.7	19.8	19.9	19.9	16.5	16.7	17.9	19.9	17.8
40	19.2	18.6	18.5	18.6	19.3	19.9	19.7	19.8	20.2	20.3	20.5	21.1	18.8	19.3	19.9	20.6	19.7
41	21.6	21.9	22.5	23.0	23.5	23.9	24.4	24.4	24.4	24.3	24.4	24.2	22.0	23.5	24.4	24.3	23.6
42	24.6	24.6	24.4	24.3	23.8	23.1	23.2	23.4	23.6	24.4	24.3	24.2	24.5	23.7	23.4	24.3	24.0
43	24.4	24.7	24.7	25.0	25.1	25.0	25.4	25.9	26.3	26.3	26.5	26.7	24.6	25.0	25.9	26.5	25.5
44	26.6	26.4	26.6	26.6	26.3	26.4	26.5	26.8	26.8	27.1	27.2	27.4	26.5	26.4	26.7	27.3	26.7
45	27.5	27.5	27.5	27.4	27.5	27.3	27.5	26.0	24.4	23.6	24.4	24.2	27.5	27.4	26.0	24.1	26.3
46	24.0	23.6	26.3	26.3	25.1	26.4	26.7	27.2	27.9	28.0	28.0	28.4	24.6	25.9	27.3	28.1	26.5
47	29.0	29.5	29.6	29.8	30.0	29.7	29.5	29.6	29.9	30.0	30.6	30.9	29.4	29.8	29.6	30.5	29.9
48	31.7	31.5	31.5	31.2	31.5	31.2	31.9	31.9	31.5	32.1	31.5	31.5	31.5	31.3	31.7	31.7	31.6
49	30.6	29.9	29.8	29.5	29.5	29.4	29.3	29.5	30.2	30.0	30.3	31.1	30.1	29.5	29.7	30.5	29.9
50	31.0	32.0	32.5	33.8	34.1	34.9	35.7	36.4	36.4	36.8	36.8	37.1	31.8	34.3	36.2	36.9	34.8
51	37.3	37.1	37.4	37.8	37.5	37.2	36.4	36.0	35.9	35.4	35.2	35.3	37.3	37.5	36.1	35.3	36.5
52	35.5	36.1	35.8	35.3	35.1	35.4	35.2	36.4	37.2	37.5	38.0	38.1	35.8	35.3	36.2	37.9	36.3
53	38.1	39.1	39.3	39.3	39.3	39.4	39.4	39.1	38.6	38.5	38.2	37.5	38.8	39.3	39.0	38.1	38.8
54	37.8	38.0	38.0	38.1	38.2	37.9	37.8	37.7	39.1	40.0	40.5	41.0	37.9	38.1	38.2	40.5	38.7
55	41.4	42.1	43.2	43.3	43.6	44.3	44.3	44.1	44.7	44.9	45.4	45.4	42.2	43.7	44.4	45.2	43.9
56	46.0	46.0	46.2	46.3	45.8	45.4	44.4	45.5	46.2	46.2	46.0	46.4	46.1	45.8	45.4	46.2	45.9
57	46.2	47.0	46.4	46.0	46.1	46.0	46.3	46.0	45.8	45.4	44.8	44.4	46.6	46.1	46.0	44.9	45.9
58	44.0	43.2	43.2	42.8	43.4	44.5	44.3	45.7	46.0	46.3	47.4	47.0	43.5	43.6	45.4	46.9	44.9
59	48.0	48.9	49.6	50.4	50.7	50.8	50.1	48.5	48.4	48.4	49.2	51.3	48.8	50.6	49.0	49.6	49.6
60	51.3	51.1	50.3	50.7	50.6	49.9	50.1	49.3	48.9	49.2	48.9	48.1	50.9	50.4	49.5	48.7	49.9
61	48.2	48.3	49.1	49.8	50.0	50.7	51.5	51.8	51.9	52.6	52.5	52.9	48.5	50.2	51.7	52.7	50.9
62	51.8	53.4	53.7	53.3	53.9	53.9	53.7	54.4	54.9	54.5	54.8	54.8	53.0	53.7	54.4	54.7	54.0
63	54.4	54.8	54.8	56.6	57.5	57.3	57.3	57.5	57.7	58.3	59.0	58.4	54.6	57.1	57.5	58.6	57.0
64	58.9	59.7	60.0	60.6	61.0	60.9	61.4	61.0	60.8	61.0	61.9	61.8	59.5	60.8	61.1	61.6	60.7
65	62.3	63.2	63.8	63.4	64.0	64.2	65.0	65.1	64.8	65.6	66.3	67.5	63.1	63.8	65.0	66.5	64.6
66	67.5	67.6	68.5	68.2	68.9	68.9	69.6	68.5	68.7	68.8	68.9	68.9	67.9	68.7	68.9	68.9	68.6
67	70.6	70.0	70.1	70.3	70.3	70.7	71.0	72.3	72.7	72.8	73.1	73.0	70.2	70.4	72.0	73.0	71.4
68	73.4	74.0	74.2	74.7	75.2	75.4	75.4	76.0	75.9	76.1	77.3	78.3	73.9	75.1	75.7	77.2	75.5
69	78.7	78.9	80.4	79.4	79.6	80.1	79.6	79.7	79.6	79.8	79.4	79.7	79.3	79.7	79.6	79.6	79.6
70	78.4	78.0	78.5	78.7	78.6	78.4	79.0	78.5	78.7	78.1	77.8	78.2	78.3	78.6	78.7	78.0	78.4
71	78.4	79.1	78.6	79.3	79.6	79.8	81.2	80.1	82.2	83.0	83.6	84.4	78.7	79.6	81.2	83.6	80.8
72	86.1	87.1	87.9	88.5	89.0	89.6	89.9	91.1	91.7	93.1	93.9	94.0	87.0	89.0	90.9	93.7	90.2
73	93.8	95.6	95.2	95.2	95.7	96.3	97.2	96.6	96.7	96.7	96.8	96.1	94.9	95.7	96.8	96.5	96.0
74	94.1	93.9	94.2	94.5	94.4	94.9	93.2	92.9	92.7	90.8	89.3	86.2	94.1	94.6	93.0	88.8	92.6
75	83.5	82.8	81.2	81.3	81.2	82.4	83.0	84.7	84.7	85.4	86.7	86.4	82.5	81.6	84.1	86.2	83.6
76	88.2	89.9	89.6	89.8	91.3	91.2	92.7	92.6	94.2	94.6	95.3	95.5	89.2	90.8	93.2	95.1	92.1
77	95.8	96.0	97.2	98.4	99.6	100.7	100.7	101.6	101.4	102.4	102.2	103.6	96.3	99.6	101.2	102.8	100.0
78	103.8	103.7	104.6	105.6	105.9	107.4	107.4	107.0	108.1	108.9	109.2	110.9	104.0	106.3	107.5	109.7	106.9
79	110.2	111.2	111.0	110.7	110.8	110.7	110.5	110.2	110.3	111.2	111.2	111.7	110.8	110.7	110.3	111.3	110.8
80	110.6	110.5	110.7	105.1	102.9	102.8	102.5	106.0	107.3	107.2	108.5	109.0	110.6	103.6	105.3	108.2	106.9
81	109.3	108.3	108.7	107.9	109.0	108.5	109.4	108.5	106.3	104.8	104.1	102.8	108.8	108.5	108.1	103.9	107.3
82	102.0	104.0	102.5	101.4	101.6	101.1	101.2	101.7	101.7	101.1	101.2	100.6	102.8	101.4	101.5	101.0	101.7
83	103.6	104.3	105.6	107.3	108.4	110.0	112.2	113.7	115.9	117.3	117.2	117.6	104.5	108.6	113.9	117.4	111.2
84	120.9	121.9	122.8	123.0	124.2	125.4	127.0	126.9	125.6	126.2	127.2	127.3	121.9	124.2	126.5	126.9	124.9

INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
CONSTRUCTION SUPPLIES																	
47	34.1	35.2	35.5	35.9	36.3	36.4	35.5	36.0	36.3	36.2	36.9	37.0	34.9	36.2	35.9	36.7	35.9
48	38.7	38.3	38.4	38.2	38.5	38.0	39.1	38.9	38.4	39.3	38.1	37.8	38.5	38.2	38.8	38.4	38.5
49	36.8	36.0	35.5	35.0	34.6	34.5	34.1	34.5	35.5	34.4	35.5	37.1	36.1	34.7	34.7	35.7	35.3
50	36.6	38.0	38.9	41.0	41.4	42.8	43.9	44.8	44.9	45.3	45.3	45.4	37.9	41.7	44.5	45.3	42.4
51	45.8	45.3	45.5	45.3	45.0	44.7	43.6	43.4	43.4	43.0	42.6	42.7	45.6	45.0	43.5	42.8	44.2
52	43.3	43.6	43.4	42.6	42.0	41.8	41.7	44.5	45.0	45.6	46.4	46.6	43.4	42.1	43.7	46.2	43.8
53	47.3	48.0	48.2	48.3	47.3	47.0	47.6	47.5	46.6	46.7	45.9	44.8	47.8	47.6	47.2	45.8	47.1
54	45.7	45.8	45.5	45.5	46.0	45.0	44.9	44.6	46.9	46.4	48.9	49.3	45.6	45.5	45.5	48.9	46.4
55	50.0	50.7	52.4	52.8	53.0	53.9	54.0	54.0	54.3	54.3	54.9	55.3	51.0	53.2	54.1	54.8	53.3
56	56.2	56.0	55.8	55.6	54.8	54.2	51.4	54.0	55.4	55.0	54.6	55.6	56.0	54.9	53.6	55.0	54.9
57	54.8	56.4	55.5	54.3	54.0	54.4	54.6	54.1	53.8	53.1	52.5	51.7	55.6	54.3	54.2	52.4	54.1
58	51.0	49.4	49.1	48.5	50.1	52.1	51.8	54.1	54.2	54.2	56.3	55.6	49.8	50.2	53.4	55.3	52.2
59	56.7	58.2	59.7	61.4	61.9	61.7	59.2	55.5	54.9	55.1	56.9	61.4	58.2	61.7	56.5	57.8	58.5
60	61.0	60.3	58.5	58.5	57.9	56.8	57.4	56.0	55.5	55.6	54.9	54.2	59.9	57.7	56.3	54.9	57.2
61	53.7	53.7	54.9	56.3	56.5	57.7	58.6	59.3	59.8	60.3	59.8	60.3	54.1	56.8	59.2	60.1	57.7
62	57.4	60.8	61.5	60.7	60.6	61.1	60.8	61.9	62.6	61.6	61.9	62.4	59.9	60.8	61.8	61.9	61.2
63	60.8	61.0	61.7	63.8	65.2	64.9	64.7	64.9	64.4	65.4	66.1	65.2	61.2	64.6	64.7	65.6	64.0
64	65.6	67.3	67.5	67.8	68.1	67.6	68.9	68.2	67.7	67.9	69.5	68.6	66.8	67.8	68.3	68.7	67.9
65	69.2	71.0	71.5	70.5	71.2	71.3	73.3	72.6	71.9	73.0	74.0	75.6	70.5	71.0	72.6	74.2	72.1
66	75.5	74.8	76.3	76.3	76.7	75.6	76.3	74.0	74.0	74.1	74.2	74.0	75.5	76.2	74.8	74.1	75.1
67	76.1	75.3	75.5	75.2	76.4	76.9	77.2	78.0	78.7	78.3	78.8	78.7	75.6	76.2	78.0	78.6	77.1
68	79.2	80.0	80.2	80.6	81.0	81.0	81.0	81.5	80.8	80.8	82.7	84.2	79.8	80.9	81.1	82.5	81.1
69	84.7	85.5	85.9	85.0	84.5	84.9	84.2	84.1	84.1	84.4	83.9	83.4	85.4	84.8	84.1	83.9	84.6
70	80.8	80.5	81.2	82.1	82.1	81.8	82.7	82.4	82.2	81.4	80.4	81.3	80.9	82.0	82.4	81.0	81.6
71	81.3	81.9	81.5	82.3	82.7	83.6	84.4	82.9	86.0	87.2	87.4	88.9	81.6	82.9	84.4	87.8	84.2
72	91.2	91.7	92.5	93.8	94.3	94.9	95.4	96.5	97.7	98.9	100.3	99.6	91.8	94.3	96.5	99.6	95.6
73	100.0	103.5	102.3	101.6	102.1	102.3	102.2	102.4	102.7	102.7	103.1	102.4	101.9	102.0	102.4	102.7	102.3
74	100.0	99.4	99.5	100.0	99.8	99.0	96.4	95.4	94.4	91.6	89.1	84.8	99.6	99.6	95.4	88.5	95.8
75	82.6	82.1	80.3	80.4	79.8	80.4	81.0	83.1	84.0	84.6	84.7	84.5	81.7	80.2	82.7	84.6	82.3
76	87.5	89.8	89.3	89.8	91.1	91.4	92.8	93.6	93.9	94.5	95.4	94.4	88.9	90.7	93.4	94.8	92.0
77	94.4	94.6	96.5	98.1	99.7	100.6	101.1	102.0	102.1	102.7	102.5	104.9	95.2	99.5	101.7	103.4	100.0
78	104.2	103.9	104.1	105.4	105.6	107.1	106.9	107.0	108.2	108.6	109.6	111.8	104.1	106.0	107.4	110.0	106.9
79	110.7	110.1	109.7	107.7	107.9	107.9	108.4	107.5	108.2	108.5	108.5	109.4	110.2	107.9	108.0	108.8	108.7
80	108.1	108.2	106.8	98.1	94.6	93.8	92.8	98.6	100.6	100.7	102.8	103.3	107.7	95.5	97.3	102.3	100.6
81	104.7	103.0	103.2	101.7	101.5	99.7	99.1	99.5	96.3	94.0	91.7	89.3	103.6	101.0	98.3	91.7	98.6
82	88.5	91.2	88.7	87.3	88.1	88.2	88.1	89.4	88.5	87.1	87.9	86.3	89.5	87.9	88.7	87.1	88.3
83	92.7	93.5	94.5	96.1	97.7	99.3	102.2	103.6	105.4	107.1	107.2	106.7	93.6	87.7	103.7	107.0	100.6
84	111.2	112.4	113.9	113.7	113.1	114.3	114.3	115.3	114.7	114.6	115.7	114.7	112.5	113.7	114.8	115.0	114.0

INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	CCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
MATERIALS																	
39	14.1	14.3	14.3	13.8	13.8	14.4	15.1	15.2	17.0	18.6	18.9	18.9	14.2	14.0	15.7	18.8	15.7
40	18.4	17.4	16.7	17.2	18.0	19.0	19.5	19.6	19.9	20.1	20.5	21.2	17.5	18.1	19.6	20.6	19.0
41	21.5	22.1	22.9	22.4	23.8	24.1	24.4	24.6	24.6	24.7	24.9	25.4	22.1	23.4	24.5	25.0	23.7
42	25.4	25.8	26.0	26.7	26.7	26.7	27.2	28.0	28.3	25.1	29.6	29.9	25.8	26.7	27.8	29.5	27.4
43	30.3	31.1	31.5	31.7	31.7	30.9	32.1	32.7	33.5	34.1	34.4	34.4	31.0	31.4	32.8	34.3	32.3
44	34.7	35.0	34.8	34.7	34.2	33.7	33.2	33.6	33.5	33.6	33.7	33.9	34.8	34.2	33.4	33.7	34.0
45	33.5	33.8	33.9	33.3	32.5	31.6	30.4	27.6	25.5	24.1	25.8	26.1	33.7	32.5	27.9	25.4	29.9
46	22.9	20.1	25.3	23.6	21.9	24.9	26.4	27.4	27.5	28.2	28.1	28.3	22.8	23.5	27.1	28.2	25.4
47	28.3	28.5	29.4	28.7	28.8	28.6	28.3	28.2	28.6	28.8	29.5	29.2	28.7	28.7	28.4	29.2	28.8
48	29.3	29.4	29.2	28.9	30.4	30.5	30.7	30.3	30.4	31.4	30.2	30.0	29.3	30.0	30.5	30.2	30.0
49	29.4	29.3	28.1	27.7	26.9	26.5	26.4	26.9	27.3	24.5	26.8	28.1	28.9	27.1	26.9	26.5	27.3
50	28.3	27.8	29.7	31.0	31.8	33.1	34.0	35.0	35.4	36.8	35.4	36.0	28.6	32.0	34.8	35.7	32.7
51	35.6	35.8	36.5	36.8	37.1	37.3	36.6	36.0	36.2	35.7	35.8	35.9	36.0	37.0	36.2	35.8	36.2
52	36.7	36.4	36.4	35.7	35.2	33.2	32.5	36.6	39.0	36.8	39.9	40.0	36.5	34.7	36.0	39.6	36.7
53	39.8	40.8	41.3	41.6	42.4	42.5	43.0	41.9	40.8	39.5	38.5	37.6	40.6	42.2	41.9	38.6	40.8
54	37.2	37.1	36.8	36.7	37.2	37.6	37.8	37.6	37.3	38.1	38.8	39.5	37.0	37.2	37.6	38.8	37.7
55	40.9	41.9	43.0	43.8	44.7	44.8	45.3	45.3	45.8	46.3	46.1	46.4	41.9	44.4	45.5	46.3	44.6
56	46.6	45.7	45.6	45.9	45.1	44.4	40.9	44.6	47.0	47.7	46.7	47.5	46.0	45.1	44.2	47.3	45.7
57	46.6	46.9	46.7	46.1	45.9	46.1	46.4	46.5	45.9	45.2	43.6	42.1	46.8	46.0	46.3	43.6	45.7
58	40.9	39.5	38.5	37.6	38.0	39.7	40.7	41.9	42.9	43.7	44.9	45.0	39.7	38.4	41.8	44.5	41.1
59	45.8	47.2	48.5	49.8	51.1	50.7	47.7	44.1	44.1	43.6	45.3	50.2	47.2	50.5	45.3	46.4	47.4
60	51.6	51.0	50.1	49.0	48.5	47.7	47.8	47.6	46.8	46.6	45.4	44.2	50.9	48.4	47.4	45.4	48.1
61	44.6	44.2	44.6	46.0	47.3	48.1	48.7	49.7	49.8	50.7	51.4	52.1	44.5	47.1	49.4	51.4	48.1
62	51.7	52.5	52.6	52.5	51.8	51.6	52.1	52.2	52.6	52.6	53.1	52.8	52.3	52.0	52.3	52.9	52.4
63	53.0	53.8	54.6	55.1	56.4	56.6	56.0	55.5	56.7	57.0	57.3	57.0	53.8	56.0	56.1	57.1	55.8
64	57.4	58.3	58.3	59.0	59.5	59.9	60.0	61.2	62.2	61.0	62.9	63.7	58.0	59.5	61.1	62.5	60.3
65	64.4	64.6	65.6	66.3	66.6	67.4	68.0	68.7	68.1	68.8	68.5	69.3	64.9	66.8	68.2	68.9	67.2
66	70.3	71.0	72.3	72.2	73.0	73.4	73.6	74.2	75.0	75.3	74.2	74.2	71.2	72.9	74.3	74.5	73.2
67	73.9	72.5	71.1	71.8	71.0	70.9	70.8	72.9	72.5	73.4	74.2	75.2	72.5	71.2	72.1	74.3	72.5
68	75.5	75.5	75.8	76.4	77.5	77.9	77.9	77.3	77.7	77.8	79.0	79.4	75.6	77.3	77.6	78.7	77.3
69	79.8	80.7	81.0	81.3	81.1	82.2	82.2	83.0	83.3	83.2	82.8	82.3	80.5	81.5	82.8	82.8	81.9
70	80.4	80.0	79.8	79.2	79.0	78.6	79.0	80.0	79.4	72.3	76.9	78.6	80.1	78.9	79.5	77.6	79.0
71	79.7	79.2	79.4	79.9	80.8	81.2	79.2	78.8	80.3	80.5	80.7	82.3	79.4	80.6	79.4	81.2	80.2
72	84.7	85.0	85.8	87.2	87.3	87.3	87.4	88.7	89.9	91.3	92.6	93.7	85.1	87.3	88.7	92.5	88.4
73	93.9	95.0	94.9	95.6	96.0	96.9	97.9	98.1	97.9	98.7	98.8	98.0	94.6	96.2	98.0	98.5	96.8
74	96.6	96.0	95.8	94.9	96.5	96.5	96.3	95.8	96.1	95.5	97.1	86.3	96.1	96.0	96.1	90.9	94.8
75	84.5	81.9	79.9	80.4	79.7	81.0	81.1	83.6	85.2	86.1	81.0	88.1	82.1	80.4	83.3	87.1	83.2
76	89.2	90.6	90.9	91.6	92.6	93.1	93.3	94.0	94.5	94.5	95.4	96.1	90.2	92.5	93.9	95.3	93.0
77	95.9	97.0	98.5	99.4	100.1	100.7	100.9	100.5	101.4	102.1	102.4	101.0	97.1	100.1	100.9	101.8	100.0
78	100.9	100.0	101.0	104.9	105.5	106.1	107.2	107.3	107.7	109.2	110.1	111.1	100.6	105.5	107.4	110.2	105.9
79	109.6	110.6	111.0	110.1	110.4	110.8	110.4	110.1	109.7	110.4	110.3	110.3	110.4	110.4	110.1	110.3	110.3
80	111.0	110.2	110.0	107.3	103.1	100.7	99.2	100.6	102.5	103.6	107.3	108.4	110.4	103.7	100.8	106.4	105.3
81	108.0	108.4	108.8	106.6	106.9	108.5	110.8	110.4	109.0	107.3	105.2	102.7	108.4	107.4	110.1	105.1	107.7
82	100.4	102.0	100.3	98.7	97.1	96.4	95.7	95.5	94.4	93.5	93.2	92.6	100.9	97.4	95.2	93.1	96.7
83	95.8	96.8	98.0	99.2	100.5	101.0	103.5	105.0	107.3	108.4	108.9	109.4	96.9	100.2	105.3	108.9	102.8
84	112.4	113.3	114.1	114.4	114.7	115.2	115.8	116.1	115.9	114.2	114.6	114.6	113.3	114.8	116.0	114.5	114.6

INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
MANUFACTURING																	
19	10.6	10.4	10.0	10.2	10.2	10.9	11.5	11.8	11.3	11.1	11.5	11.3	10.3	10.4	11.5	11.3	10.9
20	12.4	12.4	12.2	11.4	11.8	11.8	11.4	11.4	11.2	10.6	9.4	8.8	12.3	11.7	11.3	9.6	11.2
21	8.3	8.3	8.1	8.1	8.4	8.3	8.3	8.7	8.8	9.2	9.3	9.2	8.3	8.3	8.6	9.2	8.5
22	9.4	9.6	10.1	10.5	11.1	11.6	11.7	11.2	11.6	12.1	12.5	12.9	9.7	11.0	11.5	12.5	11.1
23	12.7	12.8	13.3	13.5	13.8	13.6	13.4	13.1	13.0	12.8	12.8	12.6	12.9	13.6	13.1	12.7	13.0
24	12.8	13.1	12.9	12.6	11.9	11.3	11.2	11.6	12.0	12.3	12.6	13.1	12.9	11.9	11.6	12.7	12.2
25	13.4	13.5	13.6	13.6	13.4	13.4	13.7	13.4	13.5	14.1	14.4	14.8	13.5	13.5	13.5	14.4	13.6
26	14.4	14.3	14.3	14.3	14.2	14.3	14.3	14.5	14.8	14.7	14.6	14.5	14.3	14.3	14.5	14.6	14.4
27	14.4	14.5	14.6	14.6	14.6	14.6	14.5	14.4	14.2	13.9	13.9	14.1	14.5	14.6	14.3	14.0	14.3
28	14.3	14.5	14.6	14.5	14.7	14.9	15.1	15.4	15.5	15.8	16.1	16.4	14.5	14.7	15.3	16.1	15.0
29	16.5	16.4	16.6	16.8	17.2	17.4	17.6	17.4	17.1	16.9	16.0	15.1	16.5	17.1	17.4	16.0	16.7
30	15.2	15.1	14.6	14.8	14.6	14.2	13.5	13.0	12.9	12.4	12.1	11.8	15.0	14.5	13.1	12.1	13.7
31	11.8	11.9	12.2	12.2	12.1	11.6	11.4	11.1	10.6	10.1	9.9	9.8	12.0	11.9	11.0	9.9	11.2
32	9.7	9.4	9.1	8.6	8.3	8.1	7.8	8.0	8.6	8.8	8.8	8.7	9.4	8.3	8.1	8.8	8.6
33	8.6	8.3	7.8	8.7	10.2	11.8	13.1	12.3	11.7	11.0	10.3	10.4	8.2	10.2	12.3	10.6	10.3
34	10.7	11.3	11.8	12.0	12.2	11.9	10.9	10.9	10.3	10.7	10.8	11.6	11.3	12.0	10.7	11.0	11.2
35	12.7	12.9	12.7	12.6	12.6	12.5	12.9	13.4	13.7	14.1	14.4	14.6	12.8	12.6	13.3	14.4	13.2
36	14.3	13.9	14.2	15.1	15.4	15.8	16.1	16.3	16.6	16.9	17.3	17.9	14.1	15.4	16.3	17.4	15.7
37	17.9	18.2	18.3	18.6	18.7	18.3	18.4	18.2	17.6	16.1	14.2	12.7	18.1	18.5	18.1	14.3	17.1
38	12.5	12.4	12.5	12.1	12.1	12.1	12.8	13.6	14.1	14.5	15.2	15.3	12.5	12.1	13.5	15.0	13.2
39	14.6	14.7	14.7	14.5	14.5	14.8	15.3	15.7	16.6	17.6	17.9	18.1	14.6	14.6	15.9	17.8	15.8
40	17.8	17.3	16.9	17.1	17.8	18.6	18.8	19.1	19.4	19.7	20.1	20.8	17.3	17.8	19.1	20.2	18.6
41	21.2	21.9	22.5	23.1	23.9	24.2	24.4	24.6	24.5	24.8	24.8	25.2	21.9	23.7	24.5	24.9	23.8
42	25.7	26.3	26.7	25.9	26.0	26.2	27.0	27.9	28.8	25.8	30.7	31.5	26.3	26.1	27.9	30.7	27.7
43	31.9	32.6	32.9	33.3	33.5	33.6	34.4	35.1	36.0	36.8	37.3	36.7	32.5	33.5	35.2	37.0	34.5
44	37.3	37.5	37.5	37.4	37.2	37.1	37.1	37.6	37.4	37.5	37.2	37.2	37.4	37.2	37.4	37.3	37.3
45	36.7	36.5	36.1	35.3	38.2	33.3	32.5	28.5	25.4	24.4	25.0	25.3	36.4	34.3	28.8	24.9	31.2
46	23.6	22.1	24.9	24.9	23.8	25.1	25.9	27.1	27.7	26.3	28.6	28.7	23.5	24.6	26.9	28.5	25.9
47	28.6	28.7	28.8	28.9	28.7	28.7	28.5	28.7	28.8	29.2	29.6	29.7	28.7	28.7	28.6	29.5	28.9
48	29.8	29.8	29.8	29.7	30.0	30.3	30.4	30.3	30.0	30.2	29.8	29.6	29.8	30.0	30.2	29.9	30.0
49	29.2	28.9	28.7	28.1	27.8	27.9	28.0	28.3	28.8	27.7	27.9	28.7	28.9	27.9	28.4	28.1	28.3
50	29.3	29.5	30.0	31.3	32.1	33.0	34.1	35.4	35.0	35.3	35.2	35.8	29.6	32.1	34.8	35.4	33.0
51	36.0	36.1	36.3	36.3	36.1	35.9	35.3	34.9	35.1	34.9	35.3	35.5	36.1	36.1	35.1	35.3	35.6
52	35.9	36.1	36.3	35.9	35.9	35.5	34.7	37.2	38.4	39.0	39.8	40.1	36.1	35.8	36.8	39.7	37.1
53	40.3	40.7	40.9	41.1	41.3	41.0	41.3	41.2	40.3	39.9	38.9	37.9	40.6	41.1	40.9	38.9	40.4
54	37.6	37.5	37.3	37.0	37.3	37.5	37.4	37.2	37.5	37.9	38.5	39.1	37.5	37.3	37.4	38.5	37.6
55	40.0	40.5	41.4	42.0	42.8	42.8	43.0	43.0	43.2	43.8	43.9	44.5	40.7	42.5	43.1	44.1	42.6
56	44.3	44.0	44.0	44.6	44.0	43.7	41.9	43.9	44.6	45.0	44.9	45.5	44.1	44.1	43.5	45.2	44.4
57	45.4	46.0	45.8	45.2	44.9	45.3	45.3	45.3	44.9	44.1	43.2	42.3	45.7	45.1	45.2	43.2	44.9
58	41.4	40.4	40.0	39.3	39.8	41.0	41.3	42.2	42.6	42.8	44.4	44.5	40.6	40.0	42.0	43.9	41.7
59	45.3	46.2	46.9	47.9	48.5	48.6	47.7	45.8	45.7	45.3	45.7	48.8	46.1	48.3	46.4	46.6	47.0
60	50.1	49.7	49.1	48.7	48.4	47.9	47.8	47.5	47.0	47.0	46.1	45.3	49.6	48.3	47.5	46.1	48.0
61	45.4	45.2	45.5	46.5	47.3	48.0	48.6	49.3	48.9	49.9	50.8	51.4	45.3	47.3	48.9	50.7	48.1
62	50.7	51.6	52.0	52.1	52.0	51.9	52.4	52.5	52.9	52.8	53.2	53.3	51.5	52.0	52.6	53.1	52.4
63	53.6	54.0	54.4	55.1	55.6	55.8	55.5	55.8	56.2	56.7	56.9	56.9	54.0	55.5	55.9	56.8	55.5
64	57.4	57.7	57.7	58.8	59.0	59.1	59.6	60.0	60.3	59.4	61.2	62.3	57.6	58.9	59.9	60.9	59.3
65	63.0	63.4	64.2	64.5	65.0	65.4	66.4	66.5	66.7	67.2	67.5	68.5	63.5	65.0	66.5	67.7	65.7
66	69.2	69.7	70.6	71.0	71.5	71.8	72.1	72.3	72.9	73.6	72.8	73.1	69.8	71.4	72.4	73.2	71.7
67	73.4	72.5	72.2	72.6	72.1	72.0	71.7	73.1	73.1	73.7	75.0	75.8	72.7	72.3	72.6	74.8	73.1
68	75.6	76.0	76.1	76.1	77.1	77.3	77.0	77.4	77.5	77.9	79.1	79.1	75.9	76.8	77.3	78.7	77.2
69	79.5	80.2	80.8	80.5	80.1	80.6	81.2	81.3	81.2	81.3	80.4	80.0	80.2	80.4	81.2	80.6	80.6
70	78.3	78.3	78.1	77.8	77.6	77.4	77.6	77.1	76.5	74.8	74.3	76.3	78.2	77.6	77.1	75.1	77.0
71	76.9	76.9	76.8	77.2	77.7	77.9	78.0	77.1	78.7	76.8	80.1	80.9	76.9	77.6	77.9	80.3	78.2
72	82.8	83.4	84.1	85.5	85.3	85.6	85.6	86.8	87.6	89.0	90.1	91.1	83.4	85.5	86.6	90.1	86.4
73	91.3	92.6	92.8	93.1	93.4	94.1	94.6	94.7	95.2	95.8	96.0	94.2	92.3	93.5	94.8	95.3	94.0
74	93.1	92.7	93.1	92.8	93.9	94.2	93.7	93.7	93.8	92.0	90.5	86.1	93.0	93.6	93.8	89.9	92.6
75	83.6	81.9	80.1	81.0	80.8	82.0	82.8	84.2	85.2	85.8	86.5	87.4	81.9	81.2	84.1	86.6	83.4
76	88.4	90.4	90.0	90.3	91.5	91.4	92.2	92.6	92.9	93.3	94.6	95.5	89.6	91.0	92.6	94.5	91.9
77	96.0	97.0	97.7	98.8	99.6	100.2	100.6	101.6	101.5	101.8	102.1	103.0	96.9	99.6	101.2	102.3	100.0
78	102.4	102.3	103.4	105.8	106.1	107.3	108.0	108.6	109.3	109.8	110.6	111.7	102.7	106.4	108.6	110.7	107.1
79	111.1	111.7	112.1	110.3	112.1	112.0	111.8	111.2	111.2	112.7	111.1	111.2	111.6	111.5	111.4	111.3	111.5
80	111.4	111.5	111.1	108.6	105.6	104.0	104.1	105.8	107.5	108.4	110.2	110.4	111.3	106.1	105.8	109.7	108.2
81	110.6	110.7	111.1	111.2	111.7	111.7	112.9	112.3	110.8	109.4	107.6	105.8	110.8	111.6	112.0	107.6	110.5
82	103.4	105.1	104.3	103.0	102.5	102.2	102.2	101.8	101.2	100.1	100.1	100.0	104.3	102.6	101.8	100.1	102.2
83	102.4	103.5	104.9	106.3	107.9	109.0	111.2	113.1	115.2	115.9	116.2	116.8	103.6	107.7	113.2	116.3	110.2
84	119.6	121.0	122.0	122.8	123.2	124.1	125.4	125.9	125.6	125.5	126.0	125.8	120.9	123.4	125.6	125.8	123.9





INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
MINING																	
19	26.4	23.3	22.3	23.8	24.8	25.5	27.0	26.3	28.4	29.2	21.0	25.7	24.0	24.7	27.2	25.3	25.5
20	28.7	28.4	29.0	27.3	28.4	29.6	29.4	30.4	28.4	30.5	31.4	31.7	28.7	28.4	29.4	31.2	29.6
21	27.3	25.9	24.1	24.1	24.6	23.7	22.6	22.9	22.4	23.9	22.9	23.2	25.8	24.1	22.6	23.3	23.8
22	25.8	28.4	30.7	17.8	18.0	19.7	19.0	20.9	27.3	30.1	31.6	33.6	28.3	18.5	22.4	31.8	25.4
23	33.3	33.5	34.7	37.1	36.1	36.1	36.9	36.5	33.6	35.2	35.2	32.8	33.8	36.4	35.7	34.4	35.1
24	33.9	35.3	33.3	30.8	31.0	30.8	30.7	30.4	32.5	32.3	31.8	32.4	34.2	30.9	31.2	32.2	32.0
25	33.7	32.8	31.9	33.7	34.7	34.4	34.9	35.7	30.7	30.7	31.3	31.0	32.8	34.2	33.8	31.0	33.0
26	30.5	31.9	35.2	35.3	34.5	35.6	36.1	36.3	36.7	37.6	39.0	39.1	32.5	35.1	36.4	38.5	35.7
27	38.1	38.7	40.5	35.7	35.9	35.4	34.1	35.8	35.0	34.4	34.1	33.6	39.1	35.7	34.9	34.0	35.8
28	33.9	33.7	35.4	34.4	35.4	34.4	34.5	35.6	35.8	36.7	37.7	36.7	34.3	34.7	35.3	37.1	35.4
29	38.7	39.4	37.0	38.8	38.4	38.2	39.2	38.9	39.6	38.6	36.9	38.0	38.4	38.5	39.2	37.8	38.4
30	36.9	35.9	33.8	34.5	34.4	34.1	33.7	32.7	32.0	31.8	31.4	30.6	35.5	34.3	32.8	31.3	33.3
31	29.5	28.7	29.7	30.0	29.4	29.7	29.5	27.4	26.8	28.1	28.3	27.8	29.3	29.7	27.9	28.1	28.6
32	25.2	24.9		24.7	22.6	21.6	22.0	22.7	24.0	24.7	24.8	23.5	25.5	23.0	22.9	24.3	23.9
33	23.7	24.8	25.6	23.3	27.2	28.7	30.0	31.2	29.2	27.5	27.5	27.4	27.5	26.4	30.1	27.5	27.3
34	28.1	28.6	30.7	28.8	29.1	28.9	28.6	28.2	28.3	27.8	28.0	28.8	29.1	28.9	28.4	28.2	28.6
35	30.3	30.4	31.4	28.7	30.0	32.7	29.5	29.7	30.4	32.3	32.6	33.4	30.7	30.5	29.9	32.8	31.0
36	34.1	35.1	32.7	35.2	34.4	34.8	35.5	35.5	36.1	36.7	38.4	38.7	33.9	34.8	35.7	37.9	35.7
37	38.0	39.0	42.9	39.5	40.0	41.3	40.8	41.3	41.8	40.5	39.5	38.6	40.0	40.3	41.3	39.5	40.2
38	37.0	35.1	35.1	34.1	32.1	33.0	33.8	34.8	35.1	35.4	36.6	36.6	35.7	33.0	34.6	36.2	34.8
39	35.9	36.1	36.9	34.7	35.1	36.7	38.1	33.1	39.9	41.8	41.8	40.6	36.3	35.5	37.1	41.4	37.6
40	41.8	40.9	41.8	45.3	42.9	41.8	41.8	40.7	40.8	40.1	41.3	42.4	41.5	43.3	41.1	41.2	41.8
41	42.0	42.3	44.9	36.0	43.8	45.0	44.8	45.6	46.1	47.2	46.5	47.4	43.1	41.6	45.5	47.0	44.4
42	46.8	47.1	45.2	46.6	45.5	44.9	44.8	46.1	45.8	45.5	45.8	45.2	46.4	45.7	45.6	45.5	45.7
43	43.8	46.1	47.6	48.3	46.7	41.3	47.9	47.6	48.3	47.9	46.9	49.3	45.9	45.4	47.9	48.0	46.8
44	48.8	50.2	49.9	51.3	51.6	50.1	49.5	50.0	50.2	50.3	50.8	49.5	49.7	51.0	49.9	50.2	50.2
45	49.0	49.9	51.1	51.5	50.2	50.8	50.7	49.3	47.1	43.5	49.3	48.1	50.0	50.8	49.0	47.0	49.2
46	49.0	49.8	49.1	37.9	41.9	48.7	51.9	50.5	51.2	50.8	48.6	49.8	49.3	42.8	51.2	49.7	48.3
47	53.2	53.8	54.8	50.2	54.3	53.9	54.7	55.6	56.2	56.0	56.5	56.4	53.9	52.8	55.5	56.3	54.6
48	57.2	57.2	51.6	52.9	59.5	59.5	59.5	59.3	58.1	56.8	57.9	57.8	55.3	57.3	59.0	58.1	57.4
49	56.3	56.1	50.8	55.5	54.5	50.7	49.4	49.2	44.5	41.8	52.5	50.5	54.4	53.5	47.7	48.3	50.9
50	49.5	45.6	56.5	55.8	56.0	57.8	58.9	60.1	61.0	61.2	59.9	60.6	50.5	56.5	60.0	60.6	56.9
51	61.5	60.4	60.9	61.8	62.0	62.2	62.2	62.8	63.2	64.3	63.9	63.7	60.9	62.0	62.7	64.0	62.4
52	64.1	64.7	64.3	63.7	56.8	57.3	57.0	60.7	65.2	60.9	64.9	63.5	64.4	59.3	61.0	63.1	61.9
53	62.7	62.2	62.6	63.0	63.9	64.5	65.3	65.7	65.1	63.3	62.3	61.6	62.5	63.8	65.4	62.4	63.5
54	61.4	61.5	61.5	61.5	62.3	63.6	63.5	61.9	61.0	61.6	62.9	63.6	61.5	62.5	62.1	62.7	62.3
55	65.5	66.8	66.6	67.9	68.3	69.3	69.4	70.3	70.9	72.0	72.3	72.1	66.3	68.5	70.2	72.2	69.5
56	72.3	71.9	72.9	74.4	73.4	73.4	69.4	73.0	73.9	74.0	74.2	73.0	72.4	73.8	72.1	73.8	73.1
57	73.3	74.6	75.3	74.7	74.3	73.6	73.9	73.8	72.9	71.9	69.7	69.0	74.4	74.2	73.5	70.2	73.2
58	67.8	66.9	63.6	62.3	62.2	64.6	66.7	69.1	70.3	70.2	70.0	70.4	66.1	63.1	68.7	70.2	67.1
59	70.3	70.7	70.9	73.0	74.6	73.1	69.7	66.0	65.6	66.0	70.4	71.9	70.6	73.5	67.1	69.4	70.2
60	70.5	71.1	71.4	73.3	72.4	71.7	71.2	71.8	71.2	70.9	70.6	70.6	71.0	72.5	71.4	70.7	71.6
61	70.5	70.2	70.7	70.5	70.6	71.2	71.4	72.7	72.6	74.2	74.3	74.3	70.5	70.7	72.3	74.3	72.1
62	73.6	74.0	74.4	74.1	73.7	73.6	74.1	74.8	74.6	73.6	74.0	73.1	74.0	73.8	74.5	73.6	74.1
63	74.2	75.7	75.9	75.9	77.7	77.0	77.9	78.2	78.1	77.7	78.1	78.0	75.3	76.9	78.1	77.9	77.1
64	79.1	79.7	79.3	79.3	79.7	80.2	79.7	80.2	80.8	81.0	82.2	81.2	79.4	79.8	80.2	81.5	80.2
65	81.5	81.6	82.2	82.1	82.1	83.1	83.0	83.9	82.1	85.1	84.8	85.7	81.8	82.5	83.0	85.2	83.1
66	86.1	85.7	87.7	84.7	87.5	87.7	88.0	88.4	88.4	88.7	88.9	89.5	86.5	86.6	88.2	89.1	87.6
67	89.4	88.3	87.7	88.7	87.8	88.5	91.3	91.9	90.3	89.8	89.0	88.4	88.5	88.3	91.2	89.1	89.3
68	89.2	90.6	91.3	92.6	93.5	93.4	95.1	94.2	93.8	91.1	93.6	93.7	90.4	93.2	94.4	92.8	92.7
69	93.8	93.7	94.2	94.8	96.1	98.9	96.6	96.4	97.4	97.5	97.9	99.1	93.9	96.6	96.8	98.2	96.4
70	98.3	97.5	97.7	97.8	97.8	97.7	96.6	98.8	100.1	101.6	101.7	100.9	97.8	97.8	98.5	101.4	98.9
71	99.4	98.0	98.5	99.1	99.0	98.6	95.3	96.5	96.2	87.7	91.2	97.1	98.7	98.9	96.0	92.0	96.4
72	97.4	97.2	97.7	99.0	97.6	98.2	98.7	98.4	99.7	99.4	98.9	98.5	97.4	98.3	99.0	98.9	98.4
73	98.4	98.9	97.3	97.2	97.9	98.8	100.4	100.6	100.3	100.5	100.4	100.8	98.2	98.0	100.4	100.5	99.3
74	100.0	100.4	99.8	99.6	100.5	99.4	100.5	97.8	99.0	100.2	94.0	94.3	100.1	99.8	99.1	96.2	98.8
75	98.3	98.2	97.0	96.3	95.8	97.1	95.1	95.5	95.3	96.3	97.3	97.0	97.8	96.4	95.3	96.9	96.6
76	97.4	96.9	96.2	96.0	97.2	97.1	96.4	96.9	98.7	98.6	98.7	98.7	96.8	96.7	97.3	98.6	97.4
77	95.7	99.1	100.6	100.8	100.8	101.6	101.7	98.1	102.1	102.1	102.6	94.1	98.5	101.1	100.6	99.6	100.0
78	92.5	93.6	97.9	106.2	106.2	107.0	108.6	106.0	104.9	106.9	107.3	105.9	94.7	106.5	106.5	106.7	103.6
79	103.1	104.0	104.0	105.8	105.3	106.1	105.1	107.3	108.1	106.6	109.8	109.1	103.7	105.7	106.8	109.2	106.4
80	113.0	112.3	113.4	112.2	113.3	113.0	111.2	110.0	111.3	110.0	113.9	115.2	112.9	112.8	110.9	113.1	112.4
81	115.0	117.2	117.9	107.8	109.3	116.1	122.2	122.7	121.9	121.3	120.1	119.1	116.7	111.1	122.2	120.2	117.5
82	119.7	119.7	116.9	114.5	112.1	108.7	106.5	105.0	102.6	102.5	101.8	101.4	118.8	111.8	104.7	101.9	109.3
83	103.8	100.6	99.7	100.4	100.3	100.7	101.7	103.2	105.3	106.2	107.0	105.4	101.4	100.4	103.4	106.2	102.9
84	110.9	109.4	109.6	109.8	111.7	113.5	114.8	113.0	113.6	107.2	108.8	108.9	109.9	111.7	113.8	108.3	110.9



INDEXES, SEASONALLY ADJUSTED, 1977=100

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Q1	Q2	Q3	Q4	ANN. AVG.
<b>UTILITIES</b>																	
39	6.5	6.6	6.7	6.8	6.8	6.9	6.9	6.9	7.1	7.1	7.2	7.2	6.6	6.8	7.0	7.2	6.9
40	7.3	7.4	7.4	7.4	7.5	7.6	7.6	7.7	7.7	7.8	8.0	8.0	7.4	7.5	7.7	8.0	7.6
41	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.9	8.9	9.1	8.2	8.5	8.7	9.0	8.6
42	9.3	9.4	9.4	9.5	9.4	9.5	9.7	9.8	9.9	9.9	10.0	10.2	9.4	9.5	9.8	10.0	9.7
43	10.1	10.2	10.3	10.4	10.5	10.7	10.7	10.8	11.0	11.1	11.2	11.2	10.2	10.5	10.8	11.1	10.7
44	11.1	11.2	11.4	11.5	11.5	11.4	11.3	11.4	11.4	11.4	11.4	11.4	11.2	11.5	11.3	11.4	11.4
45	11.6	11.7	11.6	11.6	11.7	11.8	11.7	11.5	11.4	11.4	11.4	11.5	11.6	11.7	11.5	11.4	11.6
46	11.5	11.5	11.5	11.7	11.7	11.8	12.0	12.3	12.5	12.6	12.7	12.7	11.5	11.7	12.2	12.7	12.0
47	12.3	12.4	12.5	12.7	12.9	13.0	13.1	13.2	13.4	13.5	13.6	13.7	12.4	12.9	13.2	13.6	13.0
48	13.9	14.0	14.3	14.2	14.3	14.4	14.6	14.7	14.9	15.0	15.2	15.2	14.0	14.3	14.7	15.1	14.5
49	15.1	15.1	15.1	15.2	15.2	15.4	15.6	15.7	15.7	15.7	16.0	16.3	15.1	15.2	15.6	16.0	15.5
50	16.5	16.6	16.9	17.1	17.4	17.5	17.6	17.8	18.0	18.4	18.5	18.7	16.7	17.4	17.8	18.5	17.6
51	19.0	19.3	19.5	19.8	19.9	20.1	20.2	20.4	20.5	20.5	20.8	20.9	19.3	20.0	20.4	20.8	20.1
52	21.1	21.3	21.3	21.2	21.3	21.4	21.6	22.0	22.4	22.6	22.7	22.9	21.2	21.3	22.0	22.7	21.8
53	22.8	22.8	23.1	23.3	23.6	23.9	24.1	24.0	24.0	24.1	24.0	24.0	22.9	23.6	24.0	24.0	23.6
54	24.5	24.5	24.8	25.0	25.0	25.2	25.4	25.5	25.7	26.2	26.5	26.7	24.6	25.1	25.5	26.5	25.4
55	26.6	27.2	27.6	27.9	28.0	28.1	28.2	28.9	29.3	29.6	29.8	30.2	27.1	28.0	28.8	29.8	28.4
56	30.3	30.6	30.8	31.1	31.4	31.4	31.2	31.2	31.2	31.5	31.7	31.9	30.6	31.3	31.2	31.7	31.2
57	32.2	32.6	32.6	32.9	33.1	33.1	33.7	33.9	33.6	33.7	34.1	34.0	32.5	33.1	33.7	34.0	33.3
58	34.1	34.2	34.3	34.0	34.2	34.5	34.7	35.1	35.4	35.6	35.8	36.3	34.2	34.3	35.1	35.9	34.9
59	36.9	37.1	37.4	37.7	38.2	38.6	38.8	38.4	39.0	38.9	39.3	40.0	37.1	38.2	38.8	39.4	38.4
60	40.1	40.5	41.2	41.1	40.7	40.9	41.0	41.3	41.5	41.4	41.5	41.6	40.6	40.9	41.2	41.5	41.1
61	41.6	41.8	41.8	42.5	43.4	43.3	43.3	43.9	44.4	44.7	44.7	44.9	41.7	43.1	43.8	44.8	43.4
62	45.6	45.5	45.8	45.6	46.4	46.7	47.1	46.9	47.0	47.3	47.8	47.9	45.6	46.2	47.0	47.7	46.6
63	48.8	49.5	49.1	48.9	49.5	49.8	49.5	49.8	50.2	50.6	51.1	51.2	49.1	49.4	49.8	51.0	49.8
64	52.1	52.2	52.6	53.4	53.8	54.4	54.9	54.9	55.0	55.2	55.1	55.7	52.3	53.9	54.9	55.3	54.1
65	55.6	55.9	56.5	57.4	57.0	57.4	56.9	57.3	58.4	59.2	58.8	59.1	56.0	57.3	57.5	59.0	57.4
66	59.2	60.1	60.3	60.7	61.1	61.9	62.9	63.0	63.0	62.9	63.5	63.5	59.9	61.2	63.0	63.3	61.8
67	63.3	63.5	62.9	65.6	64.9	64.3	64.6	63.7	64.2	67.0	67.0	68.4	63.3	64.9	64.2	67.5	64.9
68	68.1	67.8	68.9	68.9	69.7	70.5	69.8	70.3	71.4	71.3	71.7	74.2	68.3	69.7	70.5	72.4	70.2
69	73.8	74.3	75.1	74.7	74.8	76.2	77.4	77.8	77.0	77.6	78.8	78.8	74.4	75.2	77.4	78.4	76.4
70	79.0	79.0	80.0	80.5	82.0	80.3	81.5	82.6	83.0	81.7	82.0	81.9	79.3	80.9	82.4	81.9	81.1
71	83.9	83.3	84.0	84.3	85.1	85.8	85.5	84.8	85.4	86.8	85.7	85.4	83.8	85.1	85.3	86.0	85.0
72	87.5	89.1	89.1	90.8	89.2	89.2	89.2	90.3	91.0	92.8	93.6	93.7	88.6	89.7	90.2	93.4	90.4
73	92.9	94.5	92.2	93.2	93.5	94.9	95.0	94.7	97.1	95.4	93.6	91.0	93.2	93.9	95.6	93.3	94.0
74	90.9	90.3	92.0	92.6	94.7	95.0	92.1	93.6	94.3	94.0	92.5	92.6	91.1	94.1	93.3	93.1	92.8
75	91.0	92.3	94.7	96.1	93.2	93.6	93.5	95.1	94.4	93.2	94.5	93.6	92.7	94.3	94.3	93.8	93.7
76	95.7	94.2	95.2	96.4	96.7	96.8	97.2	97.3	97.1	98.7	102.6	102.4	95.0	96.6	97.2	101.2	97.4
77	102.2	98.8	97.3	97.6	98.9	99.5	101.4	100.5	101.0	101.2	100.3	101.2	99.4	98.7	101.0	100.9	100.0
78	102.8	103.9	103.6	101.3	102.0	102.3	102.0	103.0	104.2	104.0	103.3	104.4	103.4	101.9	103.1	103.9	103.1
79	106.3	109.1	107.6	107.9	106.3	104.3	103.7	104.0	104.6	105.1	106.5	105.9	107.7	106.2	104.1	105.8	105.9
80	104.8	106.3	109.8	107.1	105.1	105.6	107.4	109.1	108.9	106.7	108.7	108.4	106.9	105.9	108.5	107.9	107.3
81	107.1	106.2	106.8	105.3	107.6	109.3	109.5	106.7	106.5	107.4	106.9	106.6	106.7	107.4	107.6	107.0	107.1
82	109.7	109.0	107.8	107.1	104.8	103.8	103.7	103.4	102.2	102.0	102.8	101.2	108.8	105.2	103.1	102.0	104.8
83	100.6	101.6	101.4	103.5	103.3	103.0	105.5	107.6	109.0	107.4	106.8	112.2	101.2	103.2	107.4	108.8	105.2
84	112.7	109.4	111.6	111.4	111.6	111.4	109.8	110.0	109.7	109.4	112.1	111.6	111.2	111.4	109.8	111.1	110.9

## 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 non-durable 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.

**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.

**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 utilities and self-generators 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 recent major developments.

**Seasonal adjustment.** Individual series are seasonally adjusted by the X-11 Method II seasonal adjustment procedure that was developed by the Bureau of the Census and modified by the intervention analysis technique. The seasonal factors currently being used for individual series were derived from data through 1983; those for major aggregates were based on data through 1984. The individual series and the aggregate series are seasonally adjusted independently, and the factors for the aggregate series in the summary 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 the 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 on the 1977 comparison-based year. The gross-value-weighted product series are expressed in terms of 1972 dollars.

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

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

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

**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 December 1982.)

**Rounding.** Changes shown for index components may not aggregate to changes for totals because of independent rounding.

**Literature.** *The Manual of the Industrial Production Index, 1985*, contains a more detailed description, together with a history of the index, a glossary of terms, and a bibliography. The *Manual* is scheduled to be published in 1986. Selected data on industrial production are also published monthly in the Financial and Business Statistics section of the *Federal Reserve Bulletin*.