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COMPOSITE INDEXES OF LEADING, COINCIDENT, AND LAGGING
INDICATORS: NOVEMBER 1985

The composite index of leading indicators increased 0.1 percent in November to 171.5 (1967=100), according to preliminary estimates released today by the Commerce Department's Bureau of Economic Analysis.

On the basis of more complete data, the index increased 0.4 percent in October and 0.4 percent in September. A month ago, the bureau reported estimates that showed the index increased 0.3 percent in October and 0.4 percent in September. Change in credit outstanding was the major contributor to the October revision.

Four of 11 indicators available for November contributed to the increase in the index. They were, ordered from the largest positive contributor to the smallest: stock prices, net business formation, change in sensitive materials prices (the weighted 4-month moving average of the monthly changes had a positive effect on the index even though sensitive prices decreased in November), and manufacturers' new orders for consumer goods and materials in 1972 dollars.

Five of 11 made negative contributions. They were, ordered from the largest negative contributor to the smallest: change in credit outstanding, vendor performance (i.e., companies receiving slower deliveries from vendors), contracts and orders for plant and equipment in 1972 dollars, building permits, and average weekly initial claims for state unemployment insurance.

Two indicators were unchanged: average workweek and money supply in 1972 dollars.

The composite index of coincident indicators, a monthly approximation of aggregate economic activity, increased 0.3 percent in November to 161.2 (1967=100). On the basis of more complete data, the index decreased 0.1 percent in October and was unchanged in September.

The composite index of lagging indicators decreased 0.2 percent in November to 130.4 (1967=100). On the basis of more complete data, the index increased 1.2 percent in October and 1.2 percent in September.

A recorded message that provides current data for the composite indexes is in operation. This 4-minute recording, which will be updated monthly, can be heard by telephoning (202)898-2450.

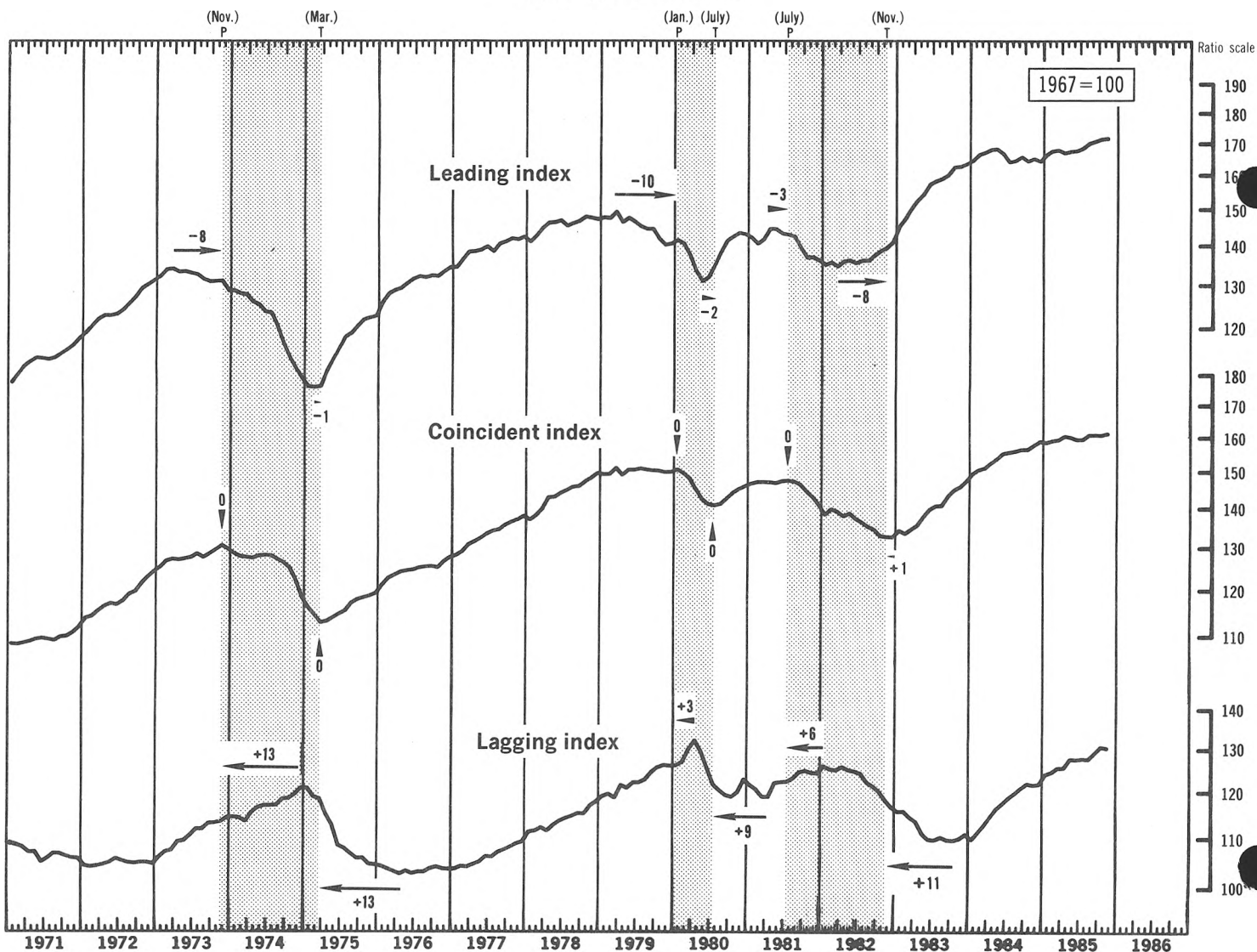
The leading index is designed to predict monthly movements in aggregate economic activity, which is approximated by the coincident index. The lagging index is expected to move, after a time lag, in the same direction as the coincident index and thus to confirm the movements in the coincident index.

These concepts are explained more fully in the 1984 edition of Handbook of Cyclical Indicators (price \$5.50, stock number 003-010-00127-5), which is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

More data on the composite indexes, as well as other important measures of economic activity, appear each month in Business Conditions Digest, also available from the Superintendent of Documents. Annual subscription: \$44.00.

Next release date: January 30 for the December composite indexes.

COMPOSITE INDEXES



NOTE: P (peak) indicates the end of general business expansion and the beginning of recession; T (trough) indicates the end of general business recession and the beginning of expansion. Thus, the shaded areas represent recessions. The arrows indicate the length of leads (-) and lags (+), in months, from the business cycle turning dates.

Table 1. Composite Indexes of Leading, Coincident, and Lagging Indicators

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	IQ	IIQ	IIIQ	IVQ
Leading index (1967=100)																
1976	126.1	128.0	128.8	129.3	130.5	131.6	132.2	131.9	132.4	132.2	133.5	134.5	127.6	130.5	132.2	133.4
1977	134.5	136.5	138.4	138.5	138.9	139.8	138.5	140.5	141.1	141.9	141.6	142.4	136.5	139.1	140.0	142.0
1978	141.0	142.8	144.9	146.3	146.4	146.9	145.4	146.2	146.8	147.9	147.6	147.2	142.9	146.5	146.1	147.6
1979	147.7	147.5	149.3	146.4	147.6	146.5	145.2	144.5	144.5	141.7	140.1	140.5	148.2	146.8	144.7	140.8
1980	141.4	140.4	137.4	133.4	130.9	132.0	135.1	138.3	141.2	142.4	143.4	143.0	139.7	132.1	138.2	142.9
1981	142.1	140.4	141.7	144.6	144.5	143.2	142.9	142.4	139.3	136.9	137.0	136.2	141.4	144.1	141.5	136.7
1982	135.1	135.7	134.7	136.0	136.2	135.5	136.2	136.1	137.5	138.6	139.4	140.9	135.2	135.9	136.6	139.6
1983	145.2	147.4	150.2	152.5	154.4	157.3	158.2	158.9	160.0	162.4	162.5	163.4	147.6	154.7	159.0	162.8
1984	164.5	166.5	167.2	168.1	168.2	166.7	163.9	164.4	165.7	164.2	165.1	164.1	166.1	167.7	164.7	164.5
1985	166.3	167.6	167.8	166.9	r167.4	r167.6	r168.5	170.0	170.6	r171.3	p171.5		167.2	r167.3	169.7	
Leading index--percent change from preceding month (quarter)																
1976	2.7	1.5	0.6	0.4	0.9	0.8	0.5	-0.2	0.4	-0.2	1.0	0.7	4.2	2.3	1.3	0.9
1977	0.0	1.5	1.4	0.1	0.3	0.6	-0.9	1.4	0.4	0.6	-0.2	0.6	2.3	1.9	0.6	1.4
1978	-1.0	1.3	1.5	1.0	0.1	0.3	-1.0	0.6	0.4	0.7	-0.2	-0.3	0.6	2.5	-0.3	1.0
1979	0.3	-0.1	1.2	-1.9	0.8	-0.7	-0.9	-0.5	0.0	-1.9	-1.1	0.3	0.4	-0.9	-1.4	-2.7
1980	0.6	-0.7	-2.1	-2.9	-1.9	0.8	2.3	2.4	2.1	0.8	0.7	-0.3	-0.8	-5.4	4.6	3.4
1981	-0.6	-1.2	0.9	2.0	-0.1	-0.9	-0.2	-0.3	-2.2	-1.7	0.1	-0.6	-1.0	1.9	-1.8	-3.4
1982	-0.8	0.4	-0.7	1.0	0.1	-0.5	0.5	-0.1	1.0	0.8	0.6	1.1	-1.1	0.5	0.5	2.2
1983	3.1	1.5	1.9	1.5	1.2	1.9	0.6	0.4	0.7	1.5	0.1	0.6	5.7	4.8	2.8	2.4
1984	0.7	1.2	0.4	0.5	0.1	-0.9	-1.7	0.3	0.8	-0.9	0.5	-0.6	2.0	1.0	-1.8	-0.1
1985	1.3	0.8	0.1	-0.5	r0.3	0.1	r0.5	r0.9	0.4	r0.4	p0.1		1.6	r0.1	r1.4	
Coincident index (1967=100)																
1976	121.4	122.9	123.6	124.3	124.6	124.8	125.3	125.5	125.6	125.3	126.8	127.8	122.6	124.6	125.5	126.6
1977	128.3	129.2	130.9	131.6	132.5	133.6	134.3	134.6	135.8	136.6	137.2	138.1	129.5	132.6	134.9	137.3
1978	137.1	138.3	140.0	143.0	143.1	144.2	145.0	145.9	146.1	147.4	148.4	149.7	138.5	143.4	145.7	148.5
1979	149.3	149.4	151.2	149.1	150.6	150.6	151.0	150.6	150.4	150.3	149.9	150.0	150.0	150.1	150.7	150.1
1980	150.7	149.6	148.1	145.1	142.4	141.1	140.8	141.2	142.7	144.2	145.3	146.1	149.5	142.9	141.6	145.2
1981	146.8	147.2	147.2	147.1	146.9	147.5	147.6	147.3	146.5	144.5	143.0	140.9	147.1	147.2	147.1	142.8
1982	138.4	139.9	139.2	138.0	138.8	137.3	136.4	135.2	134.5	132.9	132.7	132.6	139.2	138.0	135.4	132.7
1983	134.3	133.5	134.6	135.6	137.9	139.8	140.7	140.8	143.3	145.0	145.9	147.5	134.1	137.8	141.6	146.1
1984	149.5	150.6	151.1	152.6	153.9	155.4	155.7	156.0	156.5	156.5	157.7	r158.8	150.4	154.0	156.1	157.7
1985	r158.4	r159.0	r159.3	r160.4	r160.0	r159.3	r159.4	r160.8	r160.8	r160.7	p161.2		r158.9	r159.9	r160.3	
Coincident index--percent change from preceding month (quarter)																
1976	1.6	1.2	0.6	0.6	0.2	0.2	0.4	0.2	0.1	-0.2	1.2	0.8	3.0	1.6	0.7	0.9
1977	0.4	0.7	1.3	0.5	0.7	0.8	0.5	0.2	0.9	0.6	0.4	0.7	2.3	2.4	1.7	1.8
1978	-0.7	0.9	1.2	2.1	0.1	0.8	0.6	0.6	0.1	0.9	0.7	0.9	0.9	3.5	1.6	1.9
1979	-0.3	0.1	1.2	-1.4	1.0	0.0	0.3	-0.3	-0.1	-0.1	-0.3	0.1	1.0	0.1	0.4	-0.4
1980	0.5	-0.7	-1.0	-2.0	-1.9	-0.9	-0.2	0.3	1.1	1.1	0.8	0.6	-0.4	-4.4	-0.9	2.5
1981	0.5	0.3	0.0	-0.1	-0.1	0.4	0.1	-0.2	-0.5	-1.4	-1.0	-1.5	1.3	0.1	-0.1	-2.9
1982	-1.8	1.1	-0.5	-0.9	0.6	-1.1	-0.7	-0.9	-0.5	-1.2	-0.2	-0.1	-2.5	-0.9	-1.9	-2.0
1983	1.3	-0.6	0.8	0.7	1.7	1.4	0.6	0.1	1.8	1.2	0.6	1.1	1.1	2.8	2.8	3.2
1984	1.4	0.7	0.3	1.0	0.9	1.0	0.2	0.2	0.3	0.0	0.8	r0.7	2.9	2.4	1.4	1.0
1985	r-0.3	r0.4	r0.2	r0.7	r-0.2	r-0.4	0.1	0.9	r0.0	r-0.1	p0.3		r0.8	0.6	0.3	
Lagging index (1967=100)																
1976	104.3	103.8	103.3	102.8	103.4	102.9	103.2	103.2	103.9	104.2	103.8	103.7	103.8	103.0	103.4	103.9
1977	103.8	104.3	104.2	104.7	105.2	106.3	106.2	107.2	107.7	108.3	109.0	109.4	104.1	105.4	107.0	108.9
1978	111.4	111.6	112.3	111.6	112.8	113.7	114.3	114.8	115.4	115.3	117.1	118.0	111.8	112.7	114.8	116.8
1979	119.2	119.7	118.8	121.7	121.0	122.3	122.3	123.0	124.7	125.8	126.3	126.1	119.2	121.7	123.3	126.1
1980	126.2	127.1	130.2	132.3	129.6	125.5	121.8	120.5	119.4	119.0	120.1	123.0	127.8	129.1	120.6	120.7
1981	121.7	120.7	119.0	119.0	122.2	122.4	122.5	123.3	124.7	125.0	124.5	124.4	120.5	121.2	123.5	124.6
1982	126.1	125.3	125.1	125.9	125.1	124.8	124.3	122.3	121.4	120.2	118.2	116.7	125.5	125.3	122.7	118.4
1983	115.7	115.8	114.4	113.5	111.0	109.8	109.7	110.3	109.7	109.6	110.0	110.9	115.3	111.4	109.9	110.2
1984	109.8	111.3	112.8	114.6	116.4	117.5	118.8	119.8	121.0	122.0	121.7	r121.9	111.3	116.2	119.9	121.9
1985	r124.1	r124.6	r125.6	r125.6	r127.7	r127.6	r127.8	r127.7	r129.2	r130.7	p130.4		r124.8	r127.0	r128.2	
Lagging index--percent change from preceding month (quarter)																
1976	-0.3	-0.5	-0.5	-0.5	0.6	-0.5	0.3	0.0	0.7	0.3	-0.4	-0.1	-1.2	-0.8	0.4	0.5
1977	0.1	0.5	-0.1	0.5	0.5	1.0	-0.1	0.9	0.5	0.6	0.6	0.4	0.2	1.2	1.5	1.8
1978	1.8	0.2	0.6	-0.6	1.1	0.8	0.5	0.4	0.5	-0.1	1.6	0.8	2.7	0.8	1.9	1.7
1979	1.0	0.4	-0.8	2.4	-0.6	1.1	0.0	0.6	1.4	0.9	0.4	-0.2	2.1	2.1	1.3	2.3
1980	0.1	0.7	2.4	1.6	-2.0	-3.2	-2.9	-1.1	-0.9	-0.3	0.9	2.4	1.3	1.0	-6.6	0.1
1981	-1.1	-0.8	-1.4	0.0	2.7	0.2	0.1	0.7	1.1	0.2	-0.4	-0.1	-0.2	0.6	1.9	0.9
1982	1.4	-0.6	-0.2	0.6	-0.6	-0.2	-0.4	-1.6	-0.7	-1.0	-1.7	-1.3	0.7	-0.2	-2.1	-3.5
1983	-0.9	0.1	-1.2	-0.8	-2.2	-1.1	-0.1	0.5	-0.5	-0.1	0.4	0.8	-2.6	-3.4	-1.3	0.3
1984	-1.0	1.4	1.3	1.6	1.6	0.9	1.1	0.8	1.0	0.8	-0.2	r0.2	1.0	4.4	3.2	1.7
1985	r1.8	r0.4	0.8	r0.0	r1.7	r-0.1	0.2	r-0.1	r1.2	r1.2	p-0.2		r2.4	r1.8	r0.9	

p, preliminary. r, revised.

NOTE: Quarterly data are averages of monthly figures. Quarterly percent changes are computed from quarterly data. See table 2 for composition of the indexes.

Table 2. Net Contributions of the Individual Components to the Leading, Coincident, and Lagging Indexes

Indicator	Basic data				Net contribution to index			Direction of change
	Aug. 1985	Sept 1985	Oct. 1985	Nov. 1985	Aug. to Sept	Sept to Oct.	Oct. to Nov.	Oct. to Nov.
LEADING INDICATORS								
Average workweek, production workers, manufacturing (hours).....	40.6	40.7	40.7	p40.7	0.08	0.00	0.00	0
*Average weekly initial claims, state unemployment insurance (thousands)....	375	381	367	371	-0.04	0.10	-0.03	-
New orders, mfg., consumer goods and materials (billions of 1972 dollars)...	38.14	38.50	r38.94	p39.16	0.05	0.06	0.03	+
Vendor performance, companies receiving slower deliveries from vendors (pct.)..	42	42	46	42	0.00	0.16	-0.18	-
Net business formation (index: 1967=100).	117.6	r117.4	r115.3	p116.1	-0.02	-0.25	0.11	+
Contracts and orders, plant & equipment (billions of 1972 dollars).....	15.65	16.40	r15.72	p15.05	0.10	-0.09	-0.10	-
Building permits (index: 1967=100).....	142.3	r144.2	134.6	132.5	0.04	-0.21	-0.05	-
#Change in inventories on hand and on order (ann. rate, billions of 1972 \$)..	r-2.03	r-2.15	p-1.08	NA	-0.01	0.06	NA	
#Change in sensitive materials prices (percent).....	-0.52	r-0.47	r-0.22	-0.08	0.02	0.10	0.06	+
Stock prices, 500 common stocks (index: 1941-43=10).....	188.31	184.06	186.18	197.45	-0.14	0.07	0.40	+
Money supply (M2) (billions of 1972 \$)...	975.3	r979.2	977.9	p977.9	0.13	-0.04	0.00	0
Change in credit--business and consumer borrowing (annual rate, percent).....	r8.4	r9.0	r15.6	p11.1	0.03	0.34	-0.26	-
Percent change in Leading Index.....	....	....	....	....	0.35	0.41	0.12	
COINCIDENT INDICATORS								
Employees on nonagricultural payrolls (thousands).....	97,977	r98,217	r98,571	p98,753	0.20	0.30	0.20	+
Personal income less transfer payments (annual rate, billions of 1982 \$)....	r2,513.0	r2,516.9	r2,521.6	p2,527.7	0.08	0.09	0.16	+
Industrial production, total (index: 1977=100).....	r125.2	r125.0	r124.6	p125.1	-0.04	-0.09	0.14	+
Manufacturing and trade sales (millions of 1972 dollars).....	r184,052	r183,793	p182,136	NA	-0.03	-0.20	NA	
Percent change in Coincident Index....	....	....	....	....	0.00	-0.06	0.31	
LAGGING INDICATORS								
*Average duration of unemployment (weeks).....	15.6	15.5	15.3	16.0	0.05	0.09	-0.47	-
Ratio, deflated inventories to sales, manufacturing and trade (ratio).....	1.54	r1.54	p1.56	NA	0.00	0.26	NA	
Labor cost per unit of output, mfg.--actual as percent of trend (percent)...	r83.4	r83.4	r83.5	p83.0	0.00	0.04	-0.27	-
Average prime rate charged by banks (percent).....	9.50	9.50	9.50	9.50	0.00	0.00	0.00	0
Commercial and industrial loans outstanding (millions of 1972 \$).....	r128,236	r128,389	r129,884	p131,460	0.03	0.31	0.47	+
Ratio, consumer installment credit to personal income (percent).....	r15.52	r15.80	p15.92	NA	1.07	0.46	NA	
Percent change in Lagging Index.....	....	....	....	....	1.17	1.16	-0.23	

* Series is inverted in calculating the composite index: a decrease in this series is considered an upward movement.

Smoothed by a weighted 4-month moving average (with weights 1,2,2,1) placed at the terminal month of the span.

NA, not available. p, preliminary. r, revised. e, estimated.

NOTE: The net contribution of an individual component is that component's share in the composite movement of the group. The percent change in the index equals (except for rounding differences) the sum of the net contributions of the individual components plus the trend adjustment factor of 0.139 for the leading index, -0.175 for the coincident index, and 0.018 for the lagging index.