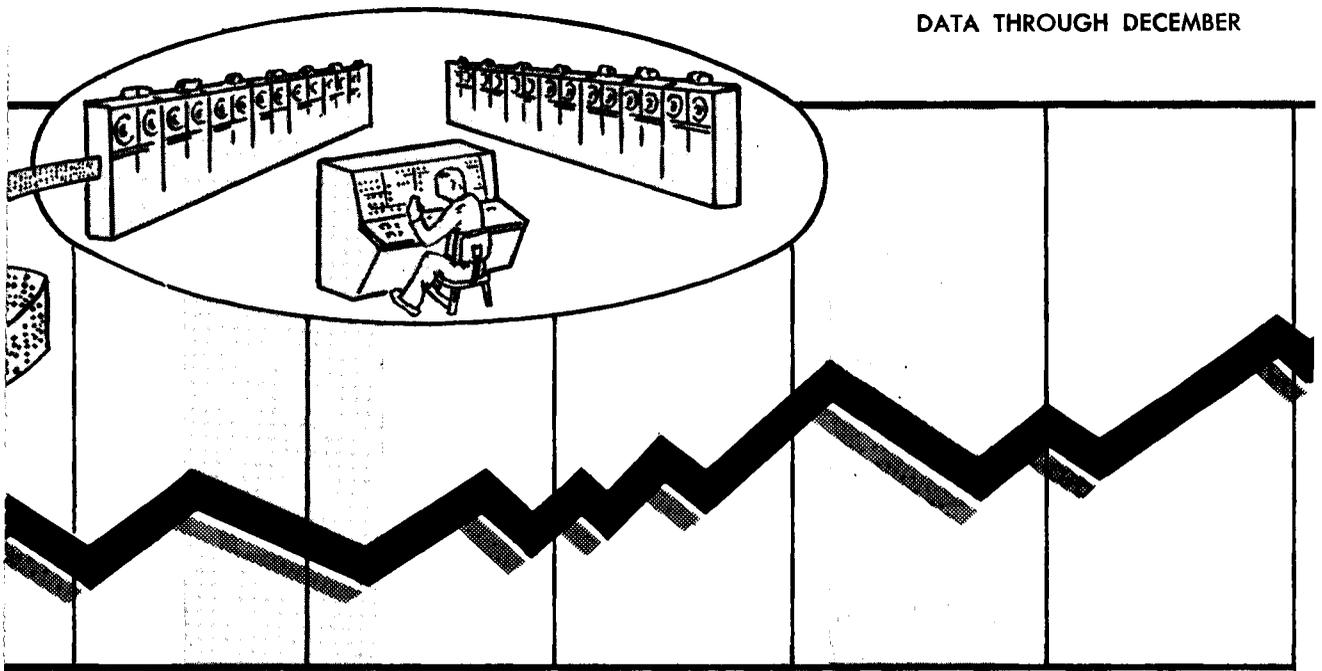


JANUARY 1963

# Business Cycle Developments

DATA THROUGH DECEMBER



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

# Business Cycle Developments

JANUARY 1963

DATA THROUGH DECEMBER

Series ES1 No. 63-1



U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

BUREAU OF THE CENSUS

Richard M. Scammon, Director

A. ROSS ECKLER, Deputy Director  
HOWARD C. GRIEVES, Assistant Director  
CONRAD TAEUBER, Assistant Director  
MORRIS H. HANSEN, Assistant Director for Research and Development  
CHARLES B. LAWRENCE, Jr., Assistant Director for Operations  
WALTER L. KEHRES, Assistant Director for Administration  
CALVERT L. DEDRICK, Chief, International Statistical Programs Office  
CONRAD SHAMEL, Acting Public Information Officer

Office of the Chief Economic Statistician

JULIUS SHISKIN, Chief

This report is prepared under the direction of Julius Shiskin, Chief Economic Statistician of the Bureau of the Census. His technical staff includes Feliks Tamm, Allan H. Young, and Betty Tunstall. Editorial supervision is provided by Geraldine Censky of the Statistical Reports Division.

The cooperation of the various government and private agencies which provide data for the report is gratefully acknowledged. Credit is given to these agencies in the list of series and sources on the back cover of this report.

Correspondence about technical subject matter should be addressed to the Office of the Chief Economic Statistician, Bureau of the Census, Washington 25, D. C.

Subscription price is \$4 a year (\$1 additional for foreign mailing). Single issues are 40 cents.

Airmail delivery in the United States is available at an additional charge of \$5.25 per year.

Make checks payable to the Superintendent of Documents. Send to U.S. Government Printing Office, Washington 25, D. C., or to any U.S. Department of Commerce Field Office. See list below.

## U. S. DEPARTMENT OF COMMERCE FIELD OFFICES

Albuquerque, N. Mex. U.S. Courthouse	Cleveland 1, Ohio Federal Reserve Bank Bldg. E. 6th St., and Superior Ave.	Los Angeles 15, Calif. 450 Western Pacific Bldg. 1031 S. Broadway	Portland 4, Oreg. 217 Old U.S. Courthouse 520 SW Morrison St.
Atlanta 3, Ga. 4th Fl. Home Savings Bank Bldg. 75 Forsythe St., N. W.	Dallas 1, Tex. 3-104, Merchandise Mart 500 S. Ervay St.	Memphis 3, Tenn. 212 Falls Bldg. 22 N. Front St.	Reno, Nev. 1479 Wells Ave.
Boston 10, Mass. Room 230 80 Federal Street	Denver 2, Colo. 142 New Custom House 19th and Stout Sts.	Miami 32, Fla. 408 Ainsley Bldg. 14 NE First Ave.	Richmond 19, Va. 2105 Federal Bldg. 400 N. Eighth St.
Buffalo 3, N. Y. 504 Federal Bldg. 117 Ellicott St.	Detroit 26, Mich. 438 Federal Bldg. 230 W. Fort St.	Minneapolis 1, Minn. 304 Federal Bldg. 110 S. Fourth St.	St. Louis 3, Mo. 2511 Federal Bldg. 1520 Market St.
Charleston 4, S. C. Sergeant Jasper Bldg. West End Broad St.	Greensboro, N. C. 407 U.S. Post Office Bldg.	New Orleans 12, La. 333 St. Charles Ave.	Salt Lake City 1, Utah 222 SW Temple St.
Cheyenne, Wyo. 207 Majestic Bldg. 16th and Capitol Ave.	Honolulu 13, Hawaii 202 International Savings Bldg. 1022 Bethel St.	New York 1, N. Y. Empire State Bldg.	San Francisco 11, Calif. 419 Customhouse 555 Battery St.
Chicago 6, Ill. Room 1302 226 West Jackson Blvd.	Houston 2, Tex. 5102 Federal Bldg. 515 Rusk Ave.	Philadelphia 7, Pa. Jefferson Bldg. 1015 Chestnut St.	Savannah, Ga. 235 U.S. Courthouse and Post Office Bldg. 125-29 Bull St.
Cincinnati 2, Ohio 809 Fifth Third Bank Bldg. 36 E. Fourth St.	Jacksonville 2, Fla. 512 Greenleaf Bldg. 204 Laura St.	Phoenix 25, Ariz. New Federal Bldg. 230 N. First Ave.	Seattle 4, Wash. 809 Federal Office Bldg. 909 First Ave.
	Kansas City 6, Mo. Room 2011 911 Walnut St.	Pittsburgh 22, Pa. 1030 Park Bldg. 355 Fifth St.	

# CONTENTS

	Page
Important Features and Changes for This Issue.....	ii
Introduction .....	1
Organization and Content of the Report .....	1
Descriptions and Procedures .....	1
How to Read the Time Series Charts .....	4
Basic Data	
Chart 1.—Business Cycle Series: 1948 to Present:	
A. NBER Leading Indicators .....	5
B. NBER Roughly Coincident Indicators .....	10
C. NBER Lagging Indicators .....	13
D. Other U.S. Series With Business Cycle Significance .....	14
E. International Comparisons of Industrial Production .....	17
Table 1.—Basic Data for Business Cycle Series: January 1960 to Present .....	19
Analytical Measures	
Table 2.—Recent Changes for Business Cycle Series .....	29
Table 3.—Distribution of Highs in Business Cycle Indicators During Recent Months Compared With Periods Around Previous Business Cycle Peaks .....	31
Chart 2.—Diffusion Indexes: 1948 to Present:	
A. NBER Leading Indicators .....	32
B. NBER Roughly Coincident Indicators .....	33
Chart 3.—Diffusion Indexes—Actual and Anticipated: 1948 to Present .....	34
Table 4.—Diffusion Indexes (Percent Rising) for 12 Major Economic Activities: January 1960 to Present .....	35
Table 5.—Diffusion Indexes, Actual and Anticipated, for 4 Manufacturing Activities: January 1960 to Present.....	38
Table 6.—Direction of Change in Series Components Over Specified Time Spans and Percent of Series Rising: July 1960 to Present:	
A. (D1) Average Workweek of Production Workers, Manufacturing .....	39
B. (D6) Value of Manufacturers' New Orders, Durable Goods Industries.....	40
C. (D19) Index of Stock Prices, 500 Common Stocks.....	41
D. (D23) Index of Industrial Materials Prices.....	42
E. (D5) Average Weekly Initial Claims for Unemployment Insurance, State Programs.....	43
F. (D41) Number of Employees in Nonagricultural Establishments .....	44
G. (D47) Index of Industrial Production .....	45
H. (D54) Sales of Retail Stores.....	46
Cyclical Patterns	
Chart 4.—Comparisons of Reference Cycle Patterns.....	47
Chart 5.—Comparisons of Specific Cycle Patterns.....	52
Table 7.—Percent of Reference Peak Levels as Measured at Designated Months After the Reference Trough Dates in the 9 Most Recent Expansions .....	56
Table 8.—Percent Change From Reference Trough Levels as Measured at Designated Months After the Reference Trough Dates in the 9 Most Recent Expansions.....	57
Table 9.—Percent of Specific Peak Levels and Percent Change from Specific Trough Levels as Measured at Designated Months After the Specific Trough Dates in the 9 Most Recent Expansions .....	58
Appendixes	
Appendix A.—Business Cycle Reference Dates and Duration of Expansions and Contractions in the United States: 1854 to 1961.....	60
Appendix B.—Specific Trough and Peak Dates for Selected Business Indicators.....	61
Appendix C.—Average Percentage Changes and Related Measures for Monthly and Quarterly Business Cycle Series .....	62
Appendix D.—Current Seasonal Adjustment Factors for Business Cycle Series Adjusted by Bureau of the Census or NBER (November 1961 to December 1962).....	65
Appendix F.—Percent Change for Selected Series Over Contraction and Expansion Periods of Business Cycles: 1920 to 1961 .....	66

### IMPORTANT FEATURES AND CHANGES FOR THIS ISSUE

A limited number of changes are made from time to time to reflect the change from one stage of the business cycle to another, to show new findings of business cycle research and newly available economic series, or to emphasize the activity of a particular series or series group. Such changes may involve additions or deletions of series used, changes in placement in relation to other series, changes in components of indexes, etc. These changes will be listed in this section each month. The changes made in this issue are as follows:

Consumer installment debt (series 66) has been revised back to July 1955 by the source agency to allow for a new seasonal adjustment and the adjustment of two components to the June 1960 benchmark.

\*\*\*\*\*

### BACKGROUND MATERIALS

Experimental work for this report was carried out in collaboration with the National Bureau of Economic Research which is responsible for much of the early research in this field. The book, "Signals of Recession and Recovery," contains an explanation of research findings helpful in interpreting current cyclical trends, a more detailed description of the indicators and measures used, and additional historical data. This book was issued as Occasional Paper 77 of the National Bureau of Economic Research, 261 Madison Avenue, New York 16, N.Y. (207 pages, price \$3). Other references, both to historical studies and current interpretations of the indicators, appear in this book.

\*\*\*\*\*

# Business Cycle Developments

## INTRODUCTION

This report has been prepared to bring together many of the available economic indicators in convenient form for analysis and interpretation by specialists in business cycle analysis. The presentation and classification of series in this report follows the business indicators approach. The classification of series and the business cycle turning dates are those designated by the National Bureau of Economic Research (NBER) which, in recent years, has been the leader in this field of investigation. However, this publication is not to be taken as implying acceptance or endorsement by the Bureau of the Census or any other government agency of any particular approach to business cycle analysis. It is intended only to supplement other reports of the Department of Commerce that provide data for analyzing current business conditions.

The unique features are the arrangement of data according to their usual timing relations during the course of the business cycle and the inclusion of special analytical measures and historical cyclical comparisons that help in evaluating the current stage of the business cycle.

The chief merits of this report are the speed with which the data for indicators are collected, assembled, and published and the arrangement of the series for business cycle studies. Electronic computers are used for many of the computations, thus making early publication possible. Publication is scheduled for around the 20th of the month following the month of data.

About 70 principal indicators and over 300 components are used for the different measures shown. The movements of the series are shown against the background of the expansions and contractions of the general business cycle so that "leads" and "lags" can be readily detected and unusual cyclical developments spotted. The exact number of series included for the total and important classes of series may vary from month to month because of additions of new series and revisions in the composition of indexes. Almost all of the basic data are available in published reports. A complete list of the series and the sources of data is shown on the back cover of this report. All the data shown are seasonally adjusted where seasonal variations appear to exist.

## ORGANIZATION AND CONTENT OF THE REPORT

Three types of data are shown in this report. They are as follows:

**Basic data** (chart 1 and table 1).—Over 50 business cycle indicators and 20 additional series with business cycle significance are included. Together they provide a broad view of current and prospective business cycle fluctuations in the economy as well as the basis for making an economic interpretation of these fluctuations.

**Analytical measures** (charts 2-3 and tables 2-6).—These are measures which aid in forming a judgment of (1) the magnitude of current changes compared to previous changes, (2) the imminence of a turning point in the business cycle, and (3) the extent of current changes in different parts of the economy. They also aid in pointing to developments in particular industries and places.

**Cyclical patterns** (charts 4-5 and tables 7-9).—The current cyclical change is compared with changes at corresponding stages of earlier cycles. These comparisons are made in different ways depending upon the phase of the business cycle.

In addition to the data shown as part of the regular report, certain appendix materials are presented. These materials include historical data, key information, and adjustment factors.

## DESCRIPTIONS AND PROCEDURES

### Business Cycle Series

The three major groups of series are those with a fairly consistent timing relation to the business cycle. They are grouped, in accordance with the NBER classification, as "leading," "roughly coincident," or "lagging" indicators. Additional series are also included for a more complete coverage of the national economy. The series are described as follows:

**NBER Leading Indicators**.—Around 30 series usually reach peaks or troughs before those in aggregate economic activity as measured by the roughly coincident series (see below). For this reason, they are designated as "leading" series. One group of these series pertains to activities in the labor market, another to orders and contracts, and so on.

**NBER Roughly Coincident Indicators**.—About 15 series are direct measures of aggregate economic activity or move roughly together with it; for example, nonagricultural employment, industrial production and retail sales. For this reason they are referred to as "roughly coincident" series.

**NBER Lagging Indicators**.—Some series, such as new plant and equipment expenditures and manufacturers' inventories, usually have reached turning points after they were reached in aggregate economic activity, and for this reason, they are designated as "lagging" series.

**Other series**.—About 20 additional U.S. series with business cycle significance are also shown. Some of these series, such as change in money supply, merchandise trade balance, and cash surplus or deficit, represent important factors in the economy, but they have not qualified as indicators for various reasons, such as irregularity in timing. Finally, industrial production indexes for several countries which have important trade relations with the United States are presented.

### Seasonal Adjustments

Official seasonally adjusted data are used in this report wherever they are available. However, for the special purposes of business cycle studies, a number of series that are not ordinarily published in seasonally adjusted form are shown on a seasonally adjusted basis in this report. These series are as follows:

4. Number of persons on temporary layoff, all industries
5. Average weekly initial claims for unemployment insurance, State programs
9. Construction contracts awarded for commercial and industrial buildings, floor space
13. Number of new business incorporations
14. Current liabilities of business failures
15. Number of business failures with liabilities of \$100,000 and over
17. Price per unit of labor cost index
18. Profits (before taxes) per dollar of sales, all manufacturing corporations
25. Change in manufacturers' unfilled orders, durable goods industries
30. Nonagricultural placements, all industries
55. Index of wholesale prices, all commodities other than farm products and foods
62. Index of wage and salary cost per unit of output, total manufacturing
81. Index of consumer prices
82. Federal cash payments to the public
83. Federal cash receipts from the public
84. Federal cash surplus or deficit
90. Defense Department obligations, procurement
91. Defense Department obligations, total
92. Military prime contract awards to U.S. business firms
96. Manufacturers' unfilled orders, durable goods industries
97. Backlog of capital appropriations, manufacturing
128. Japan, index of industrial production

Seasonal adjustments for these series were developed by either the Bureau of the Census or the NBER. The adjustment factors used are shown in the appendix table D. Seasonally adjusted data prepared by the collecting agency will be substituted for the series mentioned above whenever they are published.

### Designation of Business Cycle Turning Points

The historical business cycle turning points are those designated by the NBER. They mark the approximate date when aggregate economic activity reached its cyclical high or low levels. As a matter of general practice, a business cycle turning point will not be designated until at least 6 months after it has occurred.

### Charts

Time series line charts (charts 1-3) are used to show the cyclical timing and pattern of each series. Since various ratio and arithmetic scales are used, rates of change are not comparable except for those series having the same scale. See the diagram, page 4, for additional help in using the charts.

Shaded areas on the charts indicate periods of business cycle contraction between reference dates

for peaks ("P"—beginnings of shaded areas) and troughs ("T"—ends of shaded areas). The shading for a recession period will be entered only after a trough has been designated.

### Analytical Measures of Current Change

Four kinds of analytical measures are presented—rates of change, diffusion indexes, timing distributions, and direction-of-change tables. These measures aid in forming a judgment of the magnitude of current changes compared to previous changes, the imminence of a turning point in the business cycle, and the extent of current changes in different parts of the economy. They also point to developments in particular industries and places.

**Rates of change.**—There is considerable interest in the rate of acceleration during expansions and the rate of retardation during recessions. For this reason, rates of change for the principal monthly and quarterly business cycle series are included in table 2 of this report. Rates of change are helpful in judging and appraising trends of acceleration or retardation in a current business cycle phase, despite the fact that the erratic nature of month-to-month rates of change often makes it difficult to determine the significance of a change until some months after it has occurred. For series, such as unemployment and layoffs, which usually move down during expansions and up during recessions, the changes are inverted so that, in table 2, rises are shown as declines and declines as rises.

**Diffusion indexes.**—Diffusion indexes are simple summary measures of groups of economic series. They express, for a given group, the percent of the series which has risen over given intervals of time. Their turning points tend to lead the turning points of the aggregate and they measure how widespread a business change is. They vary between the limits of 100 (all components rising) and zero (all components falling). Widespread increases are often associated with rapid growth in aggregate activity, and widespread declines with sharp reductions.

The diffusion indexes in this report are grouped according to the timing classification of the NBER. For monthly series, two comparison intervals are used: 1-month intervals (January-February, February-March, etc.) and 3-month intervals (January-April, February-May, etc.). The indexes based on 1-month intervals are more "current" but they are also more irregular than the 3-month indexes (see chart 2). Quarterly series are compared over 1-quarter intervals and 4-quarter intervals.

Series numbers preceded by the letter "D" designate diffusion indexes. When one of these numbers corresponds to a basic indicator series number, it means that the diffusion index has been computed from components of the indicator series; for example, the diffusion index numbered "D6" is computed from components of series number 6. Diffusion indexes not computed from basic series components are assigned new numbers.

This report includes 29 diffusion indexes based on 16 indicator series (see tables 4 and 5). Seventeen of these indexes are computed by the Bureau of the Census utilizing nearly 300 components of 9 indicators (D1, D5, D6, D19, D23, D41, D47, D54,

and D58). Indexes for 8 of these indicators show comparisons for components over both 3-month and 1-month spans while, for 1 indicator (D58), comparisons are over 1-month spans only. The 12 other diffusion indexes are based on 7 indicators closely related to the above 9 indicators. They include two indexes on capital appropriations (602 companies and 15 industries)—NBER indexes based on data from the National Industrial Conference Board; the Chicago Purchasing Agents Association index based on monthly reports of changes in profits (200 companies); the First National City Bank of New York index based on quarterly profit reports (700 companies); and 8 NBER diffusion indexes—actual and anticipated—for the following: Manufacturers' sales (800 companies) and new orders (400 companies), based on data from Dun and Bradstreet, Inc.; carloadings (19 commodity groups), based on data from the Association of American Railroads; and new plant and equipment expenditures (16 industries), based on data from the Office of Business Economics and the Securities and Exchange Commission.

Diffusion indexes that are based on anticipations show what proportion of business enterprises (or industries) are forecasting a rise in activity. Comparisons with indexes based on actual changes show whether there is a generally optimistic bias or a lag in recognition of actual developments.

Diffusion indexes constructed on the basis of current data are often highly irregular and require careful judgment in their use and interpretation.

**Timing distributions.**—Distributions of current "highs" appear to be helpful in appraising the evidence for a prospective business cycle turning point. Each month a timing distribution is constructed which shows the number of series reaching high values during each month of the expansion. The timing distribution is summarized by showing the number of series reaching new highs and the percent currently high for each of several recent months (see table 3). Similar distributions of "lows" will be prepared during contractions.

To provide historical perspective for interpreting the distribution of current highs, such distributions are also shown for leading and coincident series as they appear 3 months and 6 months before the peak of each of the earlier post-World War II expansions and at their peaks.

To compile timing distributions for the current cyclical phase, the data for the principal business cycle indicators are scanned each month. During a business cycle expansion, the high value for each series is recorded. (For inverted series, that is series with negative conformity to the business cycle; low values are taken during expansions and high values during contractions.) If the values for 2 or more months are equal, the latest date is taken as the high month. In selecting these values, erratic values are disregarded, although it is, of course, difficult to identify an erratic value, particularly for the current month.

The letter "H" is used in the basic data table (table 1) to identify and highlight the current high values during the expansion, and the letter "L" to

identify the low values preceding the current highs. The highs designated during the current cyclical phase will not necessarily be the specific cycle peaks. Thus, as new high levels are reached during the expansion, the current highs will be moved ahead. On the other hand, lows preceding current highs are usually specific cycle troughs. Comparisons of the current timing distributions with those for periods around earlier business cycle troughs and peaks are helpful for appraising the evidence of a prospective business cycle turning point.

Interpretations of timing distributions must be made in light of the fact that a contraction following a high value reached several months ago may be the result of an erratic fluctuation and that a new high may be reached in some future month. In short, when the percent currently high falls below 50 percent for both the leading and roughly coincident series, this does not necessarily signify that a business cycle peak has occurred. It may do so, but it may also simply reflect a short reversal in the upward movement.

**Direction-of-change tables.**—Direction-of-change tables show directions of change ("+" for rising, "o" for unchanged, and "-" for falling) in the components used for the diffusion indexes. These tables provide a convenient view of changing business conditions and are helpful in making an economic interpretation of the movements in the more highly aggregated statistical measures. That is, they show which economic activities went up, which went down, and how long such movements have persisted. They also help to show how a recession or recovery spreads from one sector of the economy to another.

### Comparisons of Cyclical Patterns

In forming a judgment about the current intensity and probable ultimate character of a cyclical fluctuation, some economists find it helpful to compare the behavior of the indicator series and diffusion indexes in the current business cycle phase with their behavior during the corresponding phase of previous business cycles. These comparisons are made in different ways depending upon the phase of the business cycle.

Contractions are compared by computing changes over the span from the most recent business cycle peak to the current month and over equal spans from previous reference peaks. This type of comparison is designated as representing changes from reference peak levels and from reference peak dates.

Expansions may be compared by measuring changes from the immediately preceding peak levels. In this report the current expansion is related to the May 1960 reference peak. For earlier expansions, percentage changes are also computed from their respective reference peaks to dates which are the same number of months beyond the succeeding reference troughs as the current expansion is beyond its reference trough. This type of comparison is designated as representing changes computed from reference peak levels and from reference trough dates. Although the spans from reference trough dates are the same for each expansion, the

spans from the preceding peak dates are different, depending on the length of the contractions. This type of comparison answers the question whether, and by how much, the current level of activity exceeds or falls short of the level at the preceding business cycle peak, a given number of months after the recovery began, and how the current situation compares in this respect with earlier recoveries.

Expansions also may be compared by computing changes from reference trough levels and from reference trough dates. This type of comparison measures the extent of the rise from the trough level so many months after the upswing began.

In addition to comparing cyclical fluctuations on the basis of reference dates (which are the same for all series), comparisons are made on the basis of specific peak and trough dates identified for each series. For example, the specific peak in retail sales corresponding to the May 1960 reference peak is April 1960; the specific peak in stock prices is July 1959.

Recent performance in several individual indicators is compared graphically with that in earlier business cycles. In making graphic comparisons, the reference peak or trough levels are set equal to

100, and the reference peak or trough dates are aligned depending on the phase of the business cycle.

In order to make historical comparisons, it is frequently necessary to use data for a closely related series for cycles prior to the initial date covered by the series used currently. Such comparisons are, therefore, to be considered only approximate. Nearly all series have undergone change in definition, coverage, or estimation procedure since 1919. The principal cases of this sort are as follows:

7. New private nonfarm dwelling units started (prior to 1939: Residential building contracts, floor space)
41. Number of employees in nonagricultural establishments (prior to 1929: Employment in manufacturing)
52. Personal income (prior to 1929: Quarterly data as published by Barger and Klein)
54. Sales of retail stores (prior to 1935: Department store sales)
62. Index of wage and salary cost per unit of output, total manufacturing (prior to 1946: Production worker wage cost per unit. Supplements to wages and salaries, which are a part of total labor cost, are not included).

#### HOW TO READ THE TIME SERIES CHARTS (CHARTS 1-3)

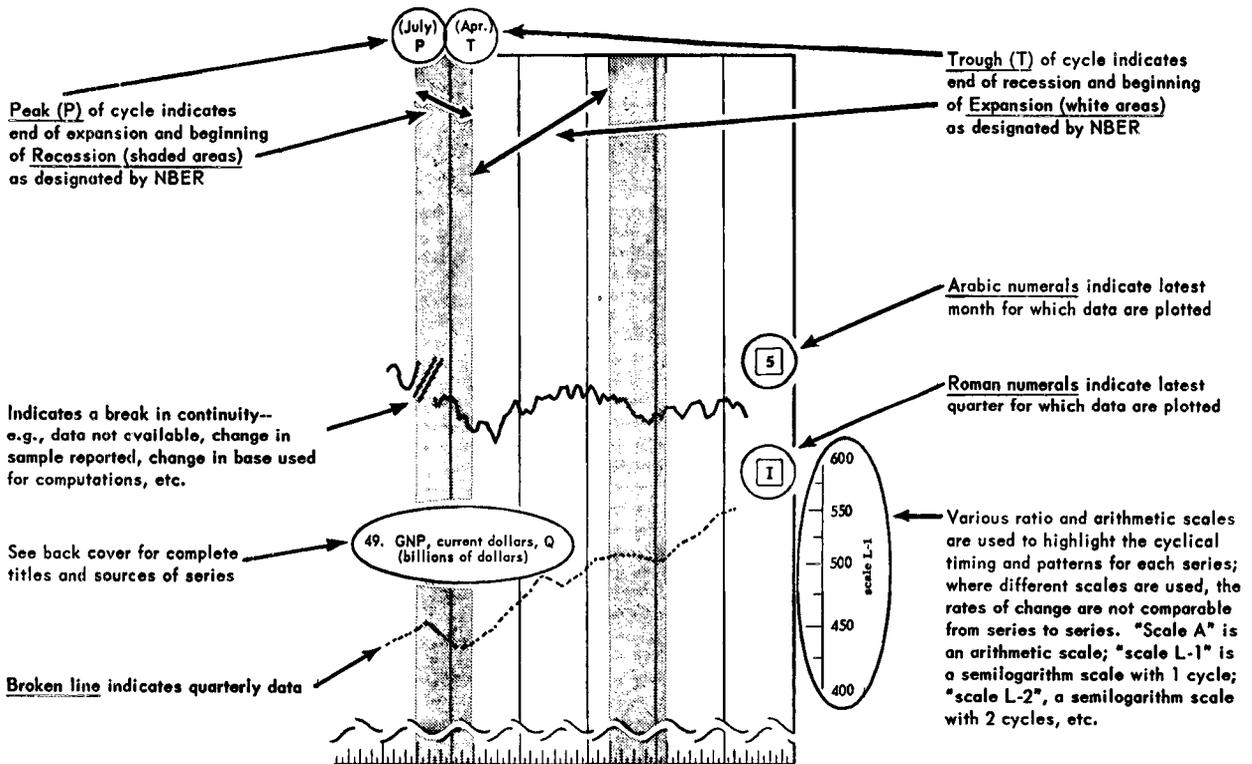
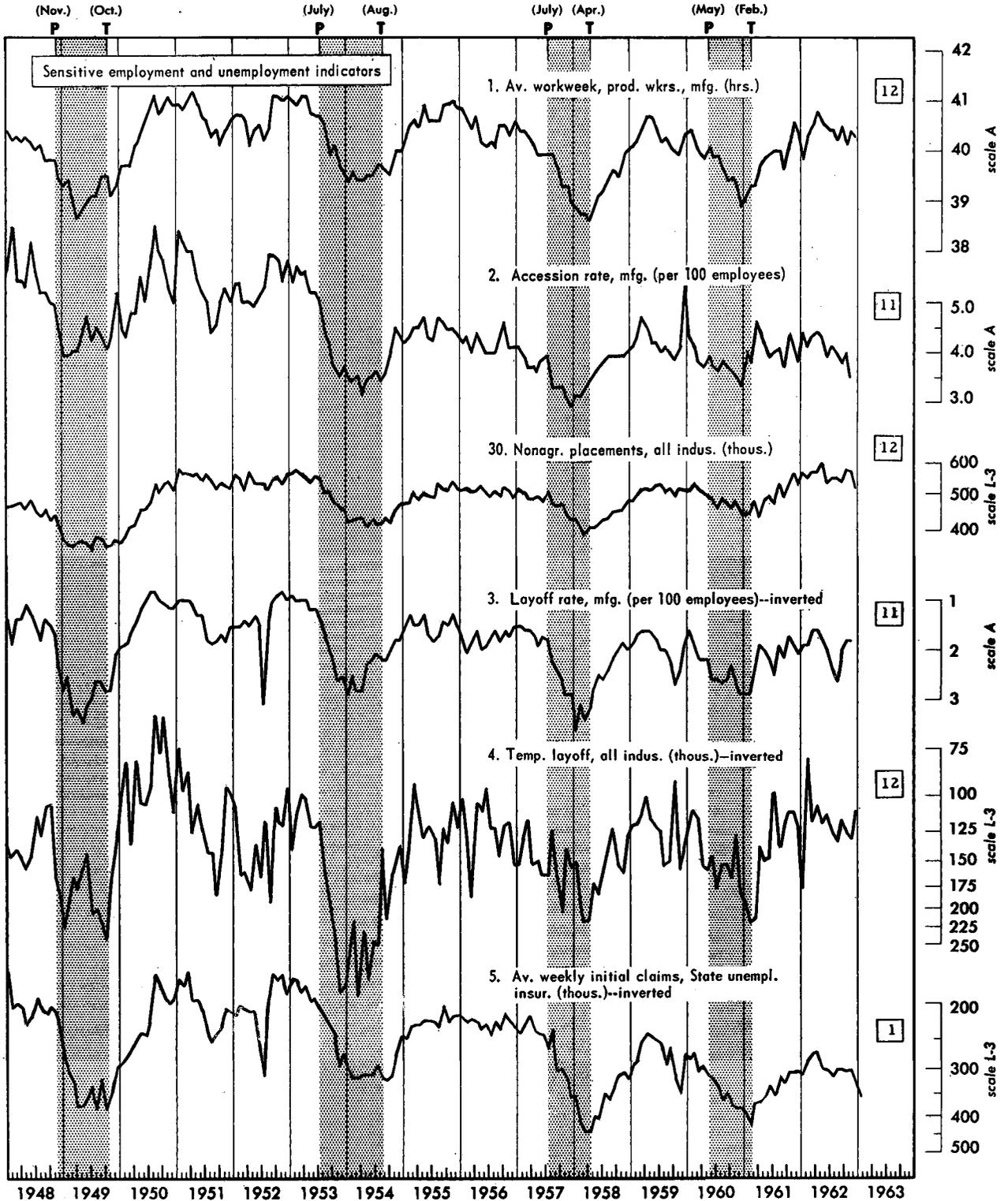


CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT

A

NBER Leading Indicators



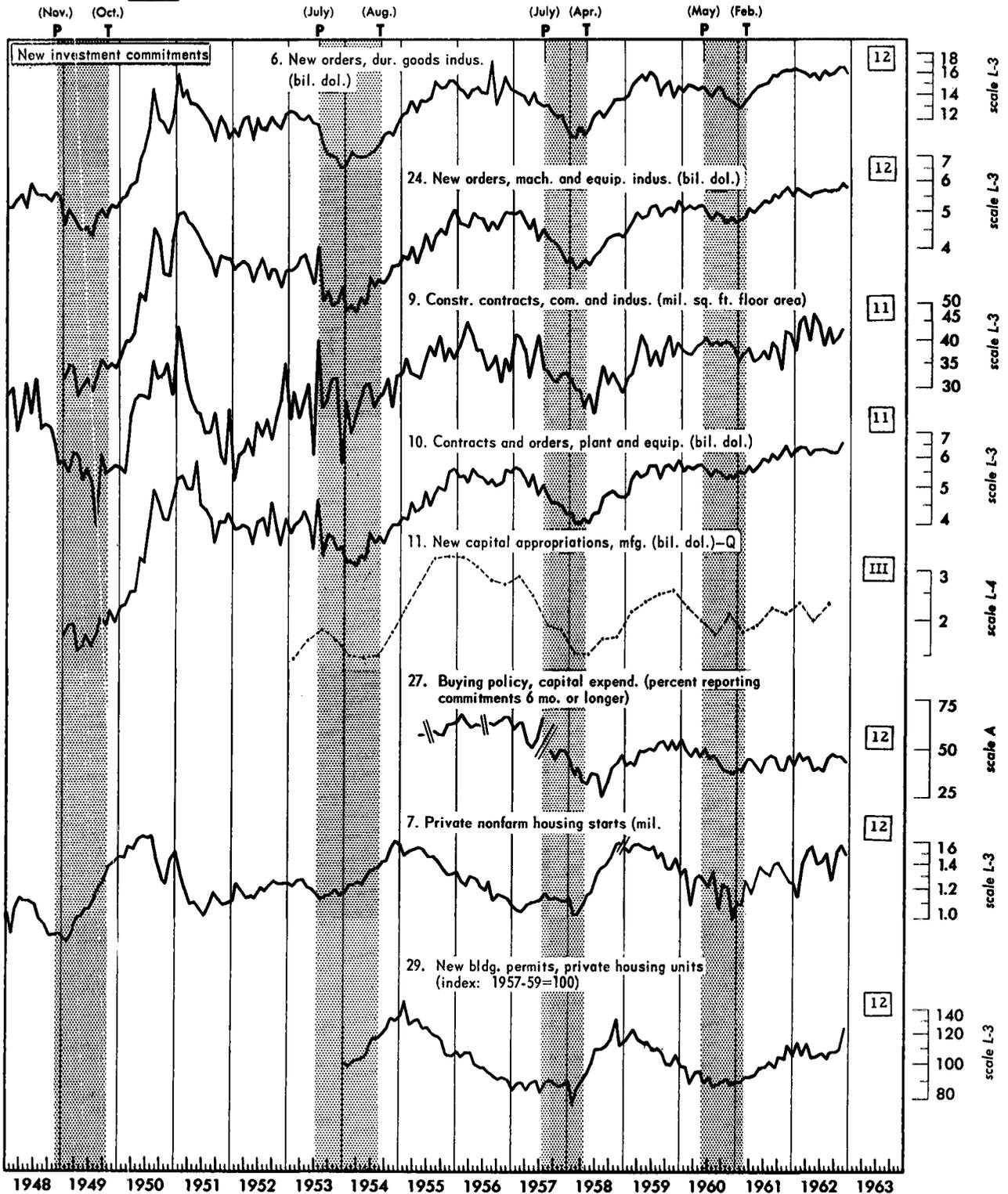
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**A**

**NBER Leading Indicators—Con.**



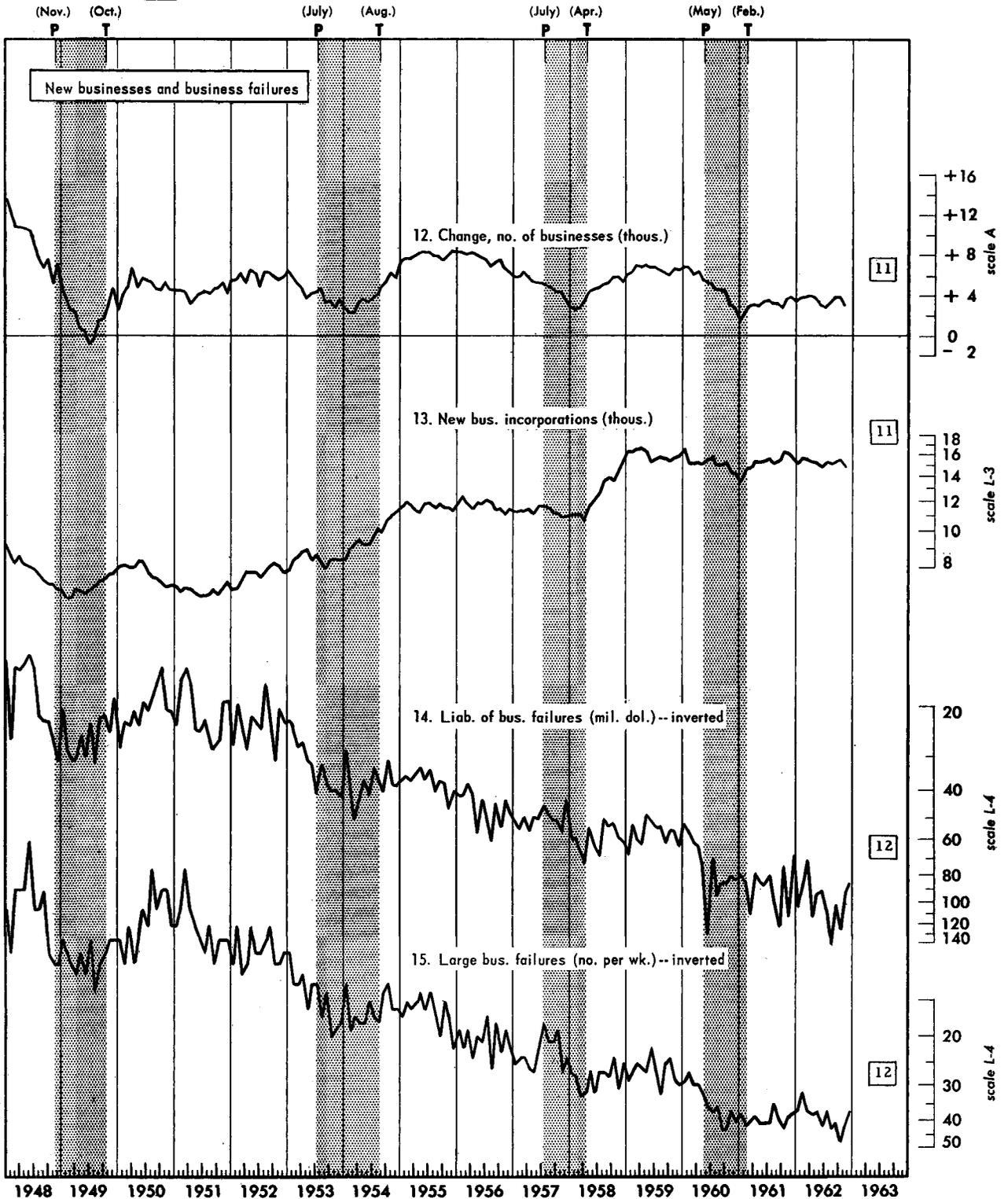
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**A**

**NBER Leading Indicators—Con.**



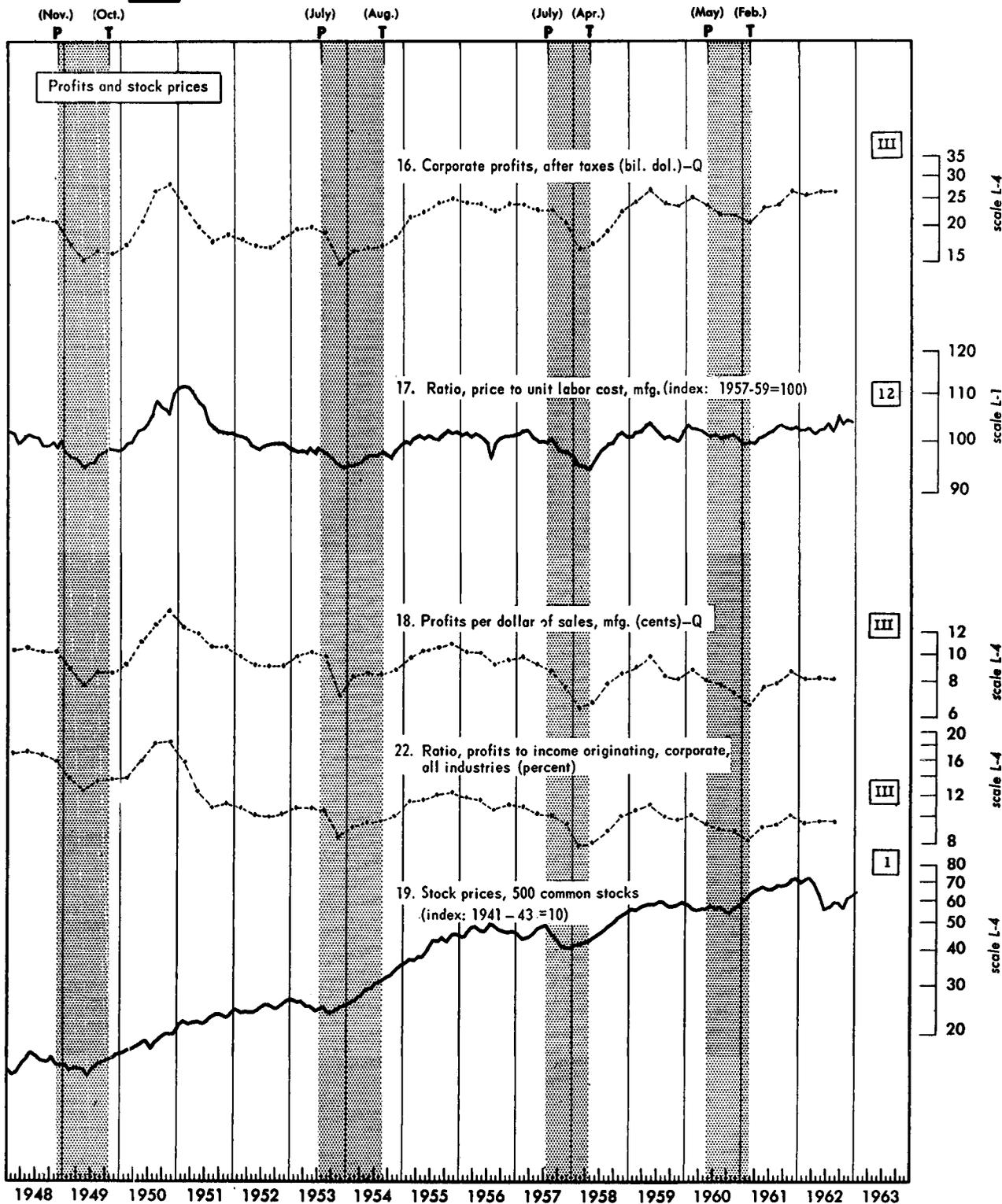
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**A**

**NBER Leading Indicators—Con.**



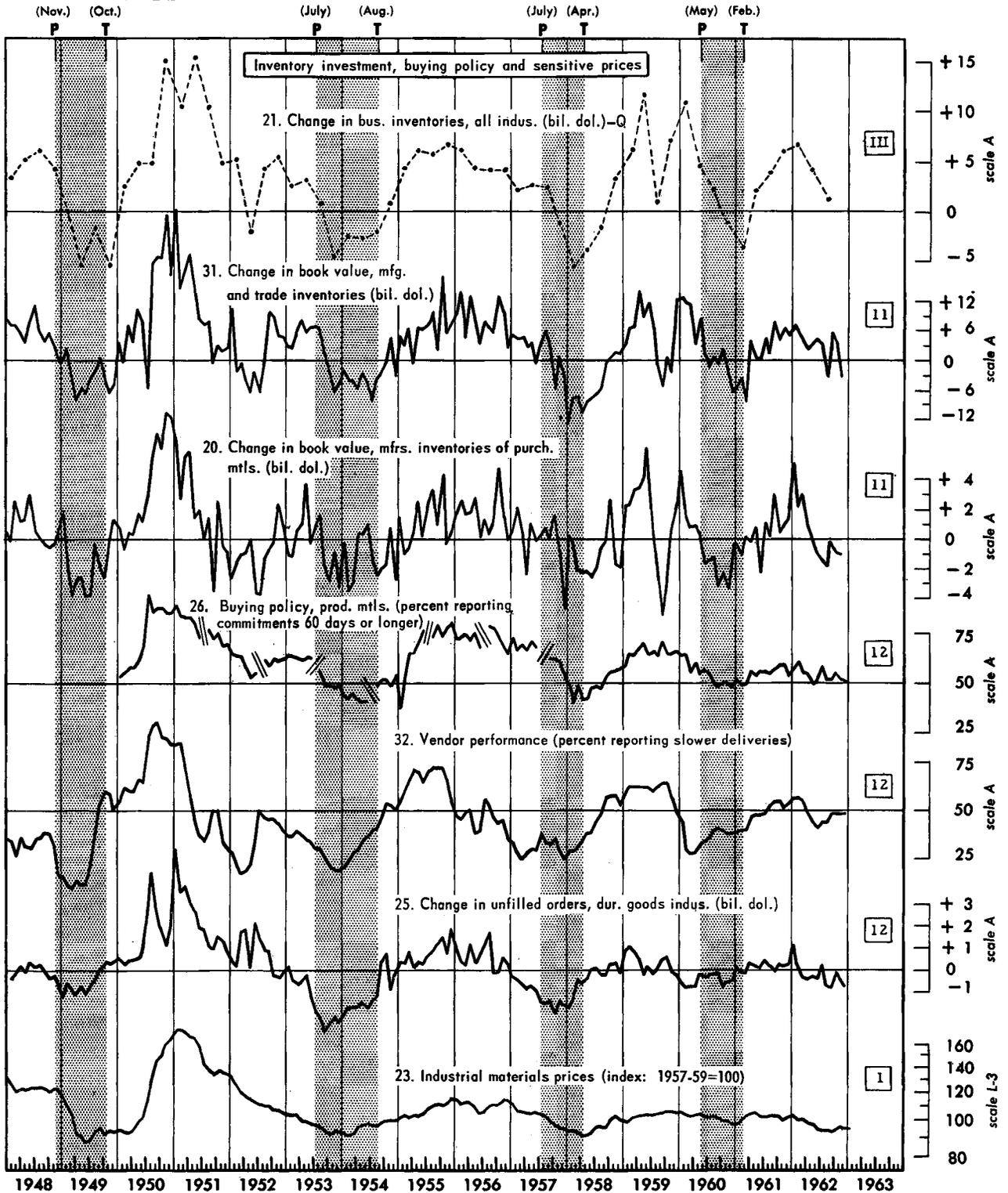
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**A**

**NBER Leading Indicators—Con.**



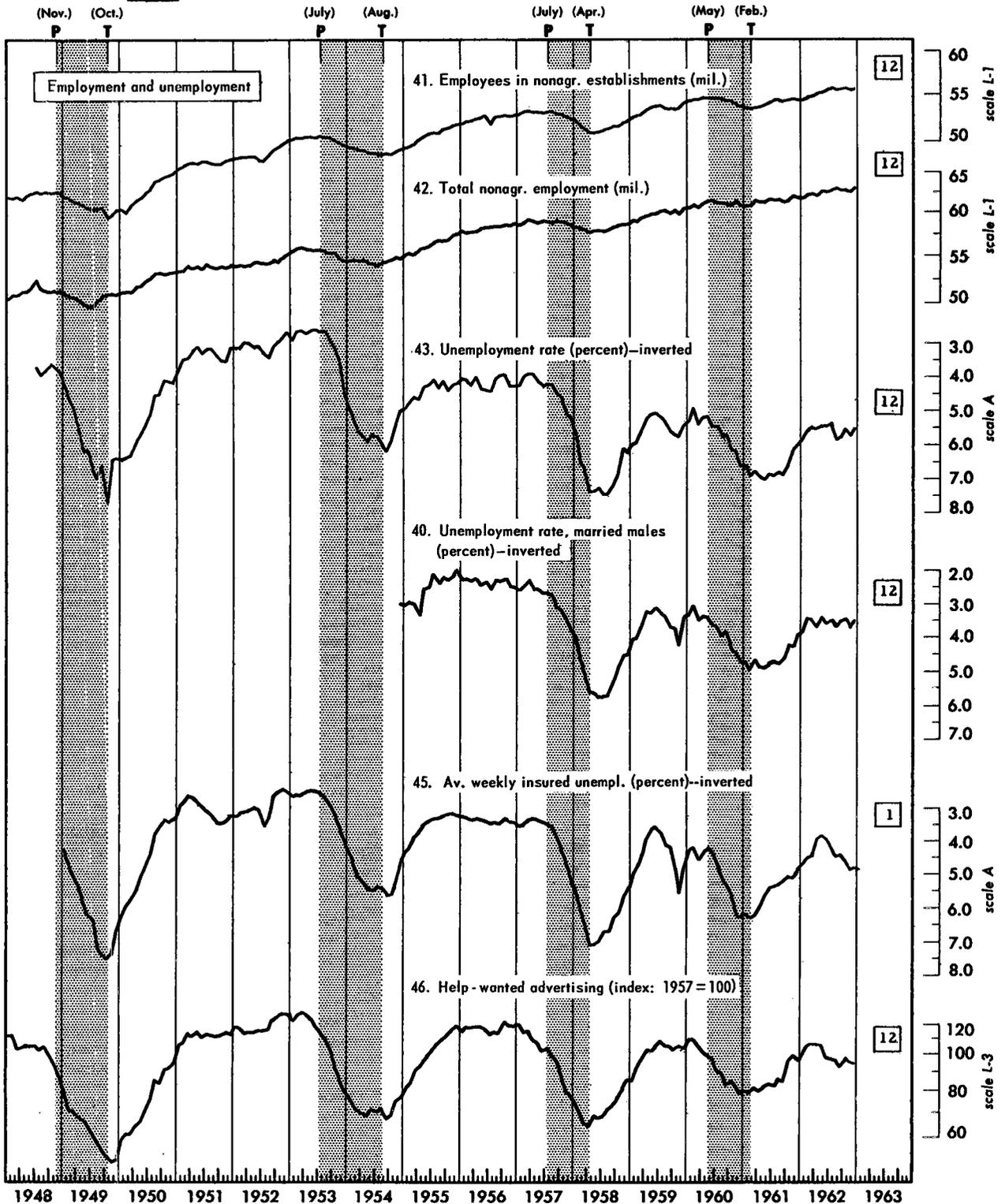
See "How to Read the Time Series Charts," page 4.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

B

NBER Roughly Coincident Indicators



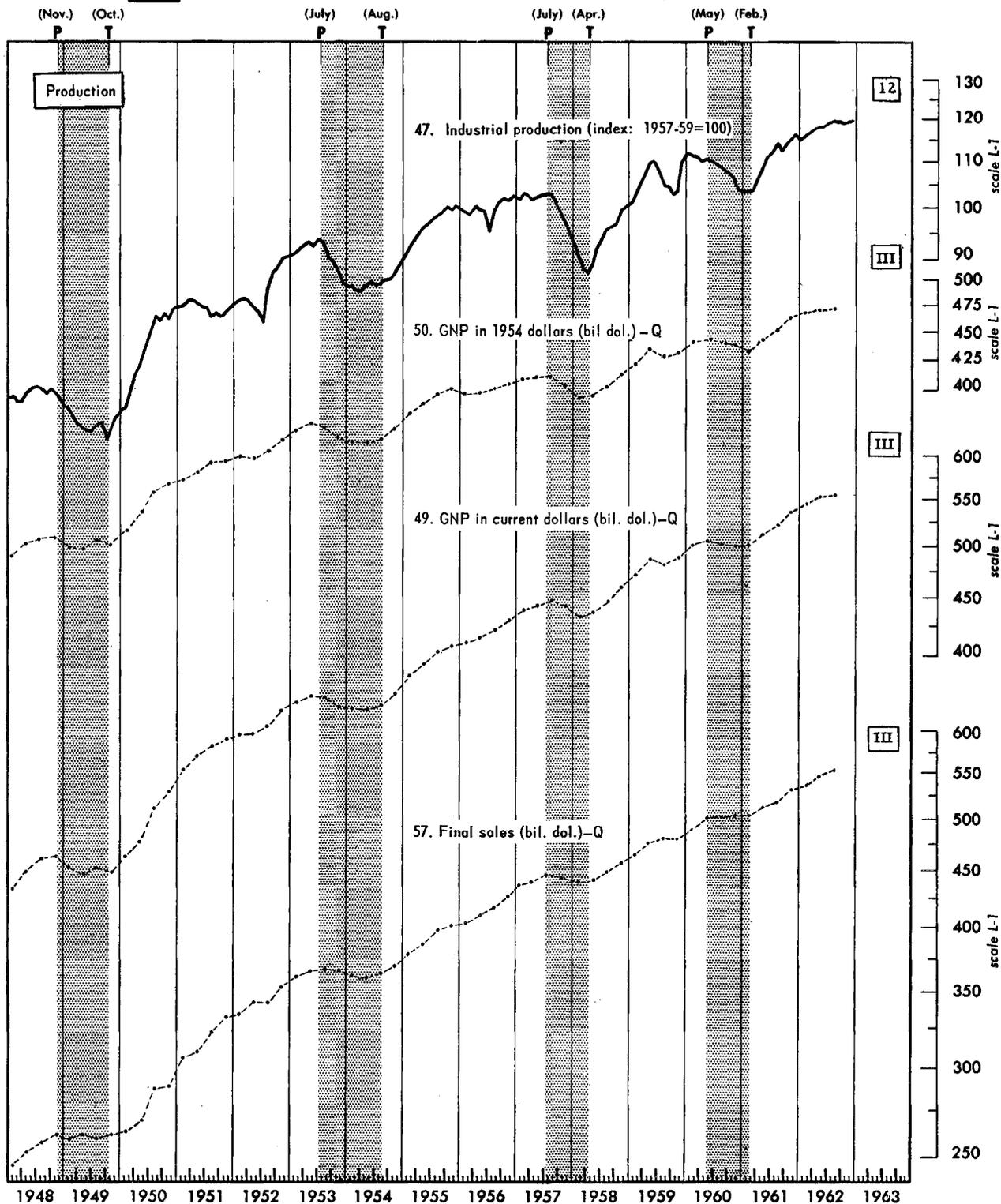
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**B**

**NBER Roughly Coincident Indicators—Con.**



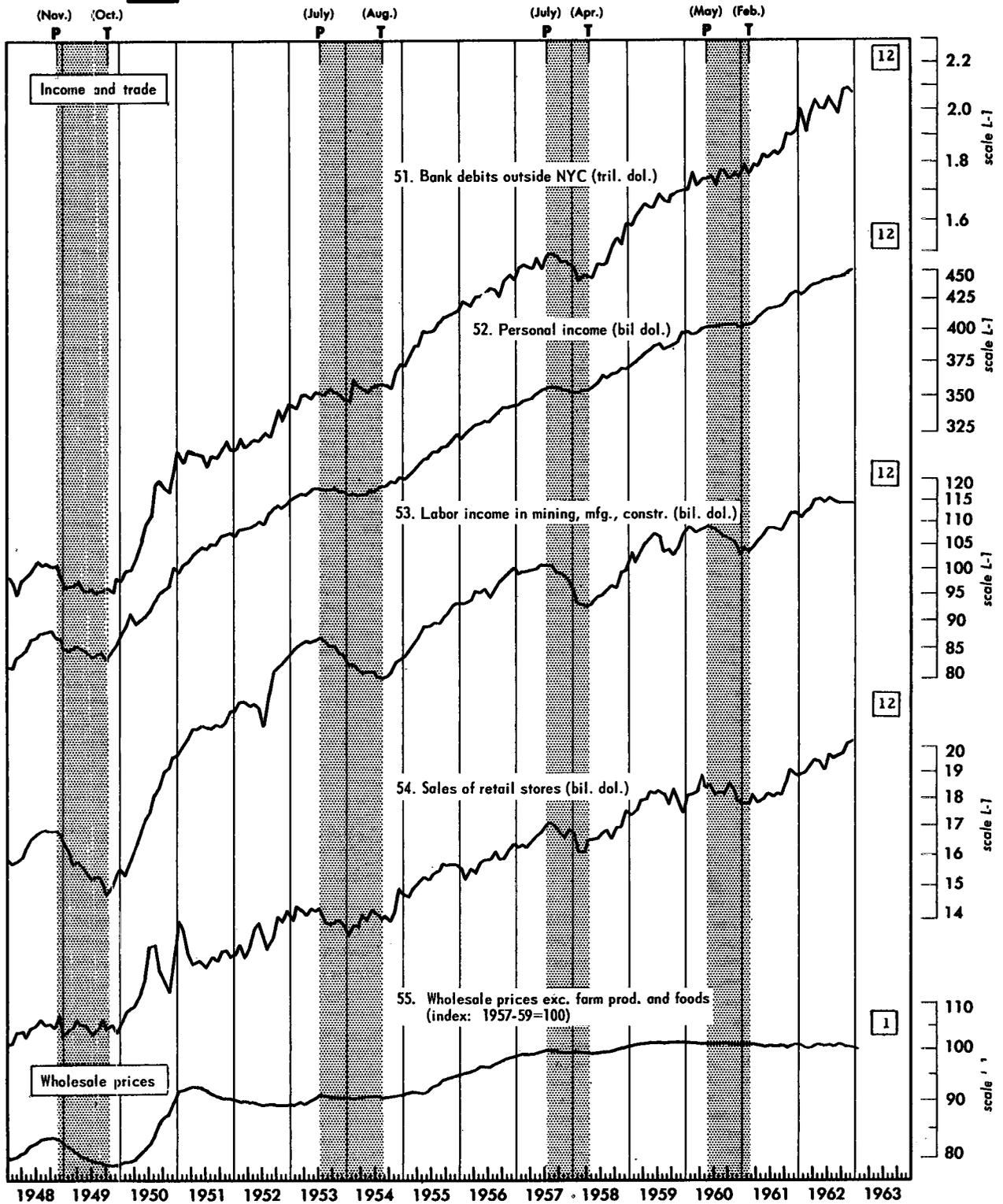
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**B**

**NBER Roughly Coincident Indicators—Con.**



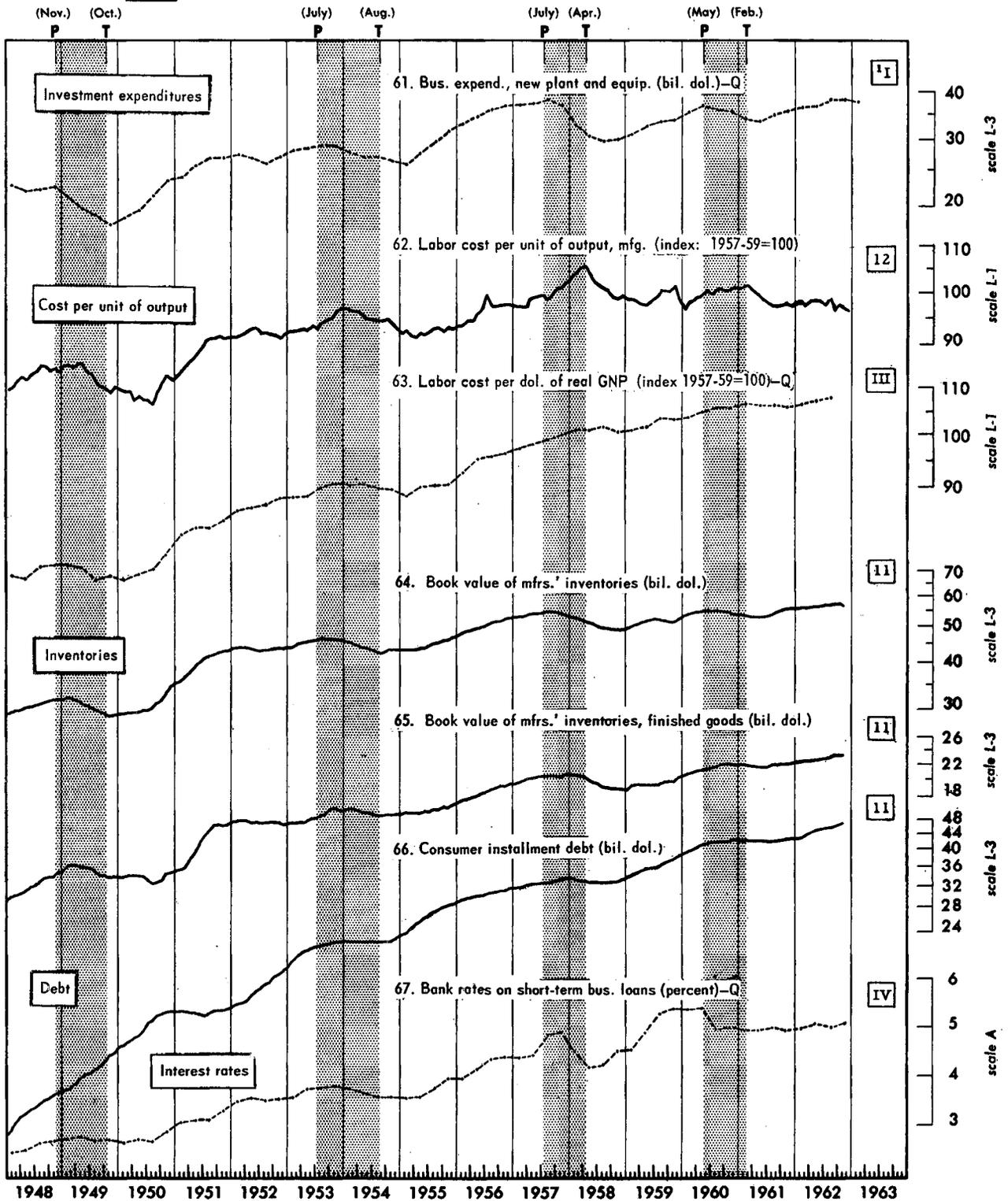
See "How to Read the Time Series Charts," page 4.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

C

NBER Lagging Indicators



See "How to Read the Time Series Charts," page 4.

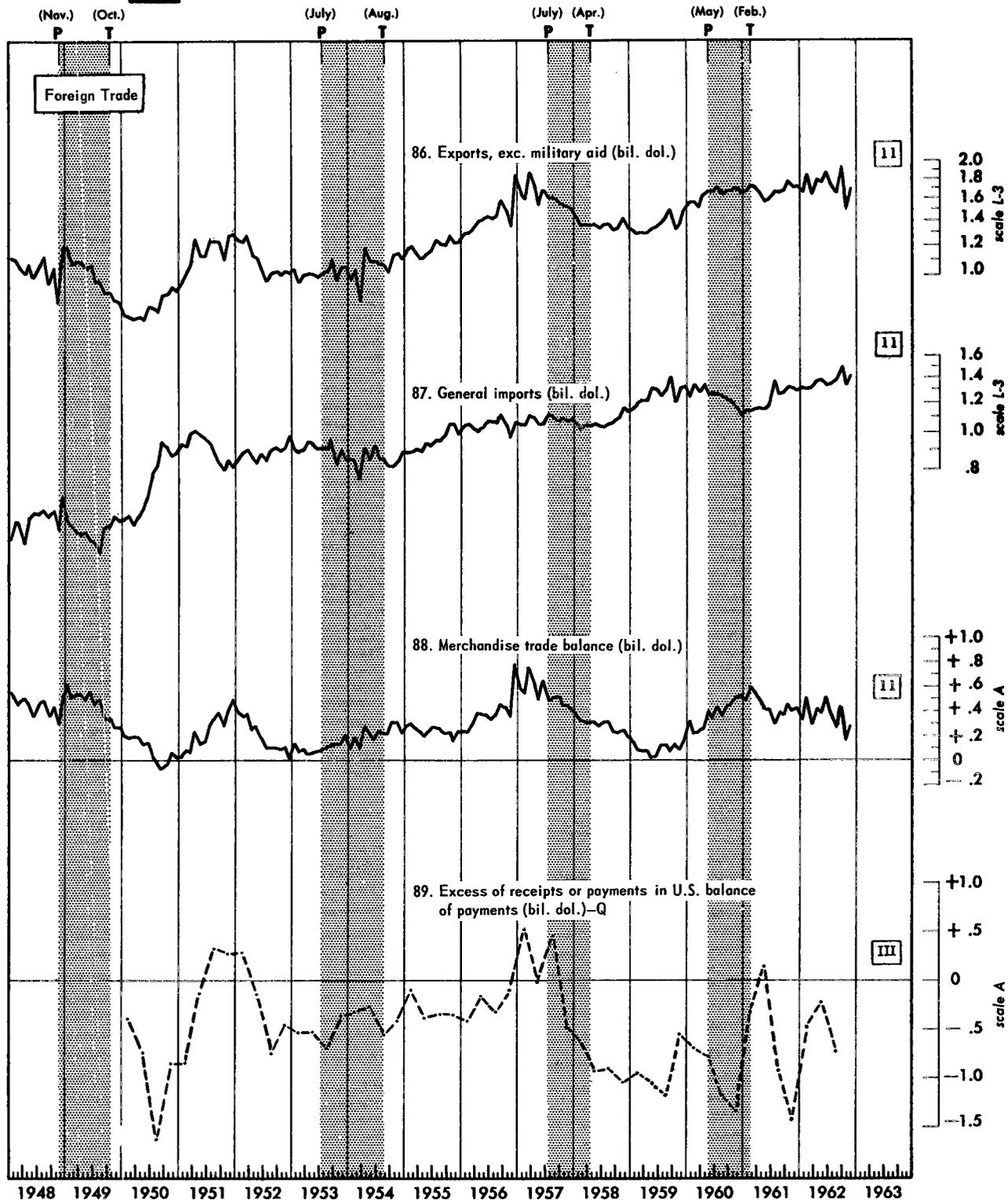
<sup>1</sup>Last 2 quarters are anticipated.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**D**

**Other U.S. Series With Business Cycle Significance**



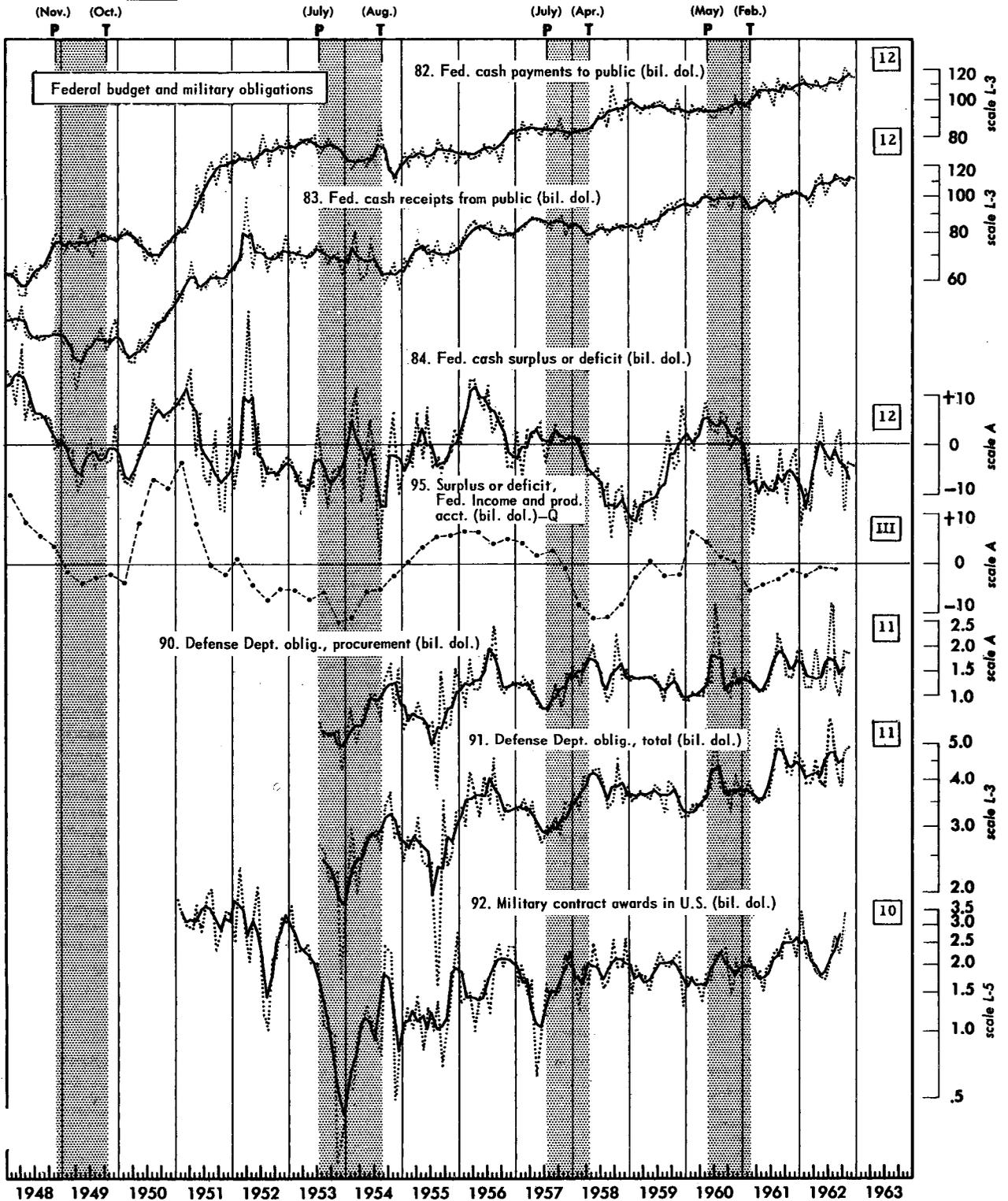
See "How to Read the Time Series Charts," page 4.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

D

Other U.S. Series With Business Cycle Significance—Con.



See "How to Read the Time Series Charts," page 4.

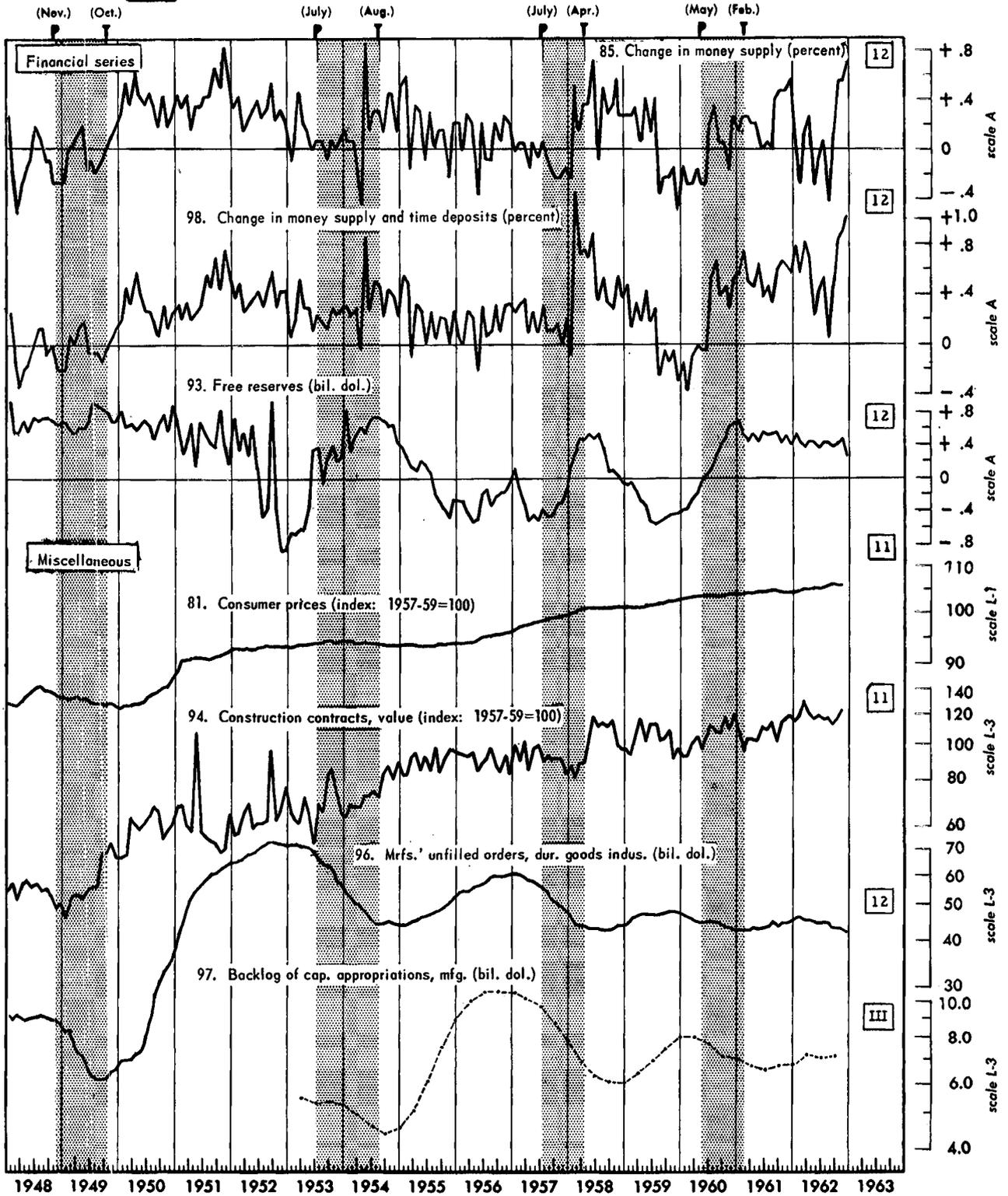
Solid lines indicate 3-month average; latest data for 3-month moving average plotted 1 month behind seasonally adjusted data.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

**D**

**Other U.S. Series With Business Cycle Significance—Con.**



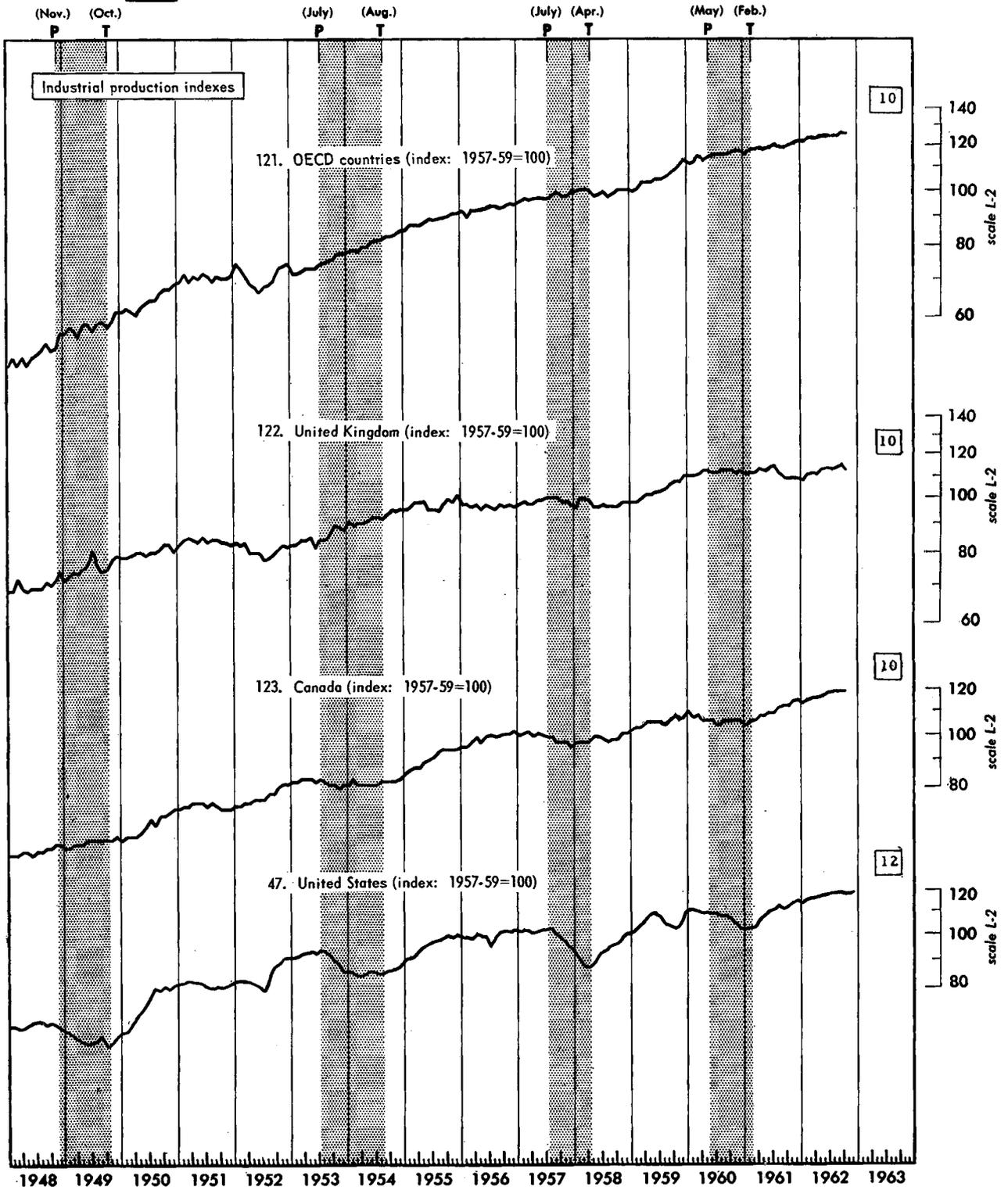
See "How to Read the Time Series Charts," page 4.

**CHART 1**

**BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**

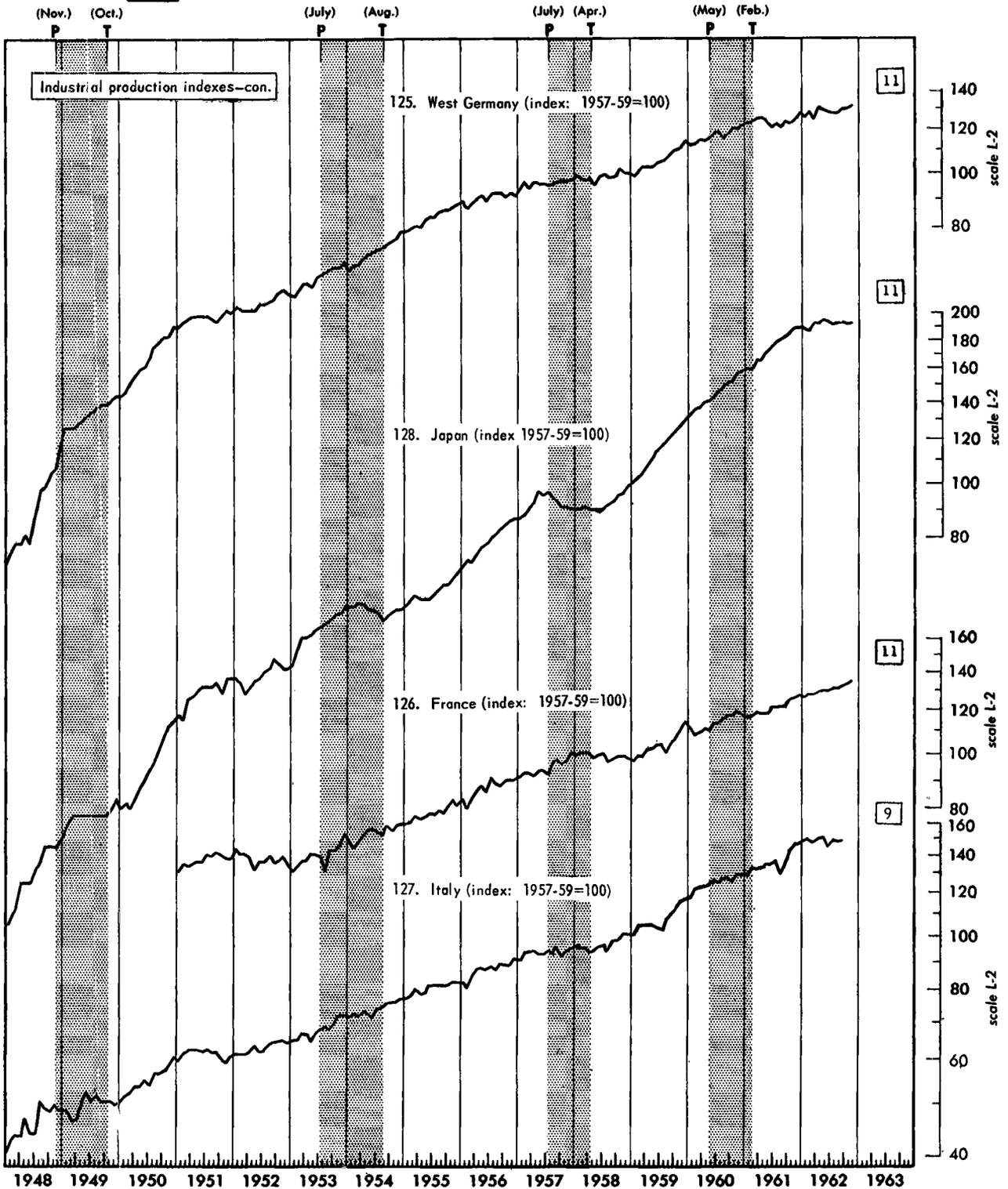
**E**

**International Comparisons of Industrial Production**



See "How to Read the Time Series Charts," page 4.

**CHART 1** BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.  
**E** International Comparisons of Industrial Production—Con.



See "How to Read the Time Series Charts," page 4.

Table 1.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading Indicators							
	1. Average workweek of production workers, manufacturing	2. Accession rate, manufacturing	30. Nonagricultural placements, all industries	3. Layoff rate, manufacturing	4. Number of persons on temporary layoff, all industries <sup>1</sup>	5. Avg. weekly initial claims for unemployment insurance, State programs	6. Value of mfrs.' new orders, durable goods industries	24. Value of mfrs.' new orders, machinery and equipment industries
	(Hours per prod. wkr.)	(Per 100 employees)	(Thous.)	(Per 100 employees)	(Thous.)	(Thous.)	(Bil. dol.)	(Bil. dol.)
1960								
January.....	40.4	4.3	506	1.6	122	281	14.19	5.04
February.....	40.1	4.1	535	1.9	110	271	14.80	5.14
March.....	39.9	3.8	513	2.2	116	303	14.64	5.06
April.....	39.8	3.7	504	2.2	156	294	14.47	5.12
May.....	40.1	3.9	494	2.2	160	316	14.68	5.17
June.....	39.9	3.7	482	2.6	145	322	14.34	5.01
July.....	39.9	3.6	460	2.6	177	335	13.84	4.78
August.....	39.6	3.8	488	2.7	154	363	14.41	4.96
September.....	39.4	3.7	473	2.6	153	351	14.62	4.87
October.....	39.5	3.6	460	2.3	166	373	13.74	(L) 4.65
November.....	39.3	3.5	475	2.6	128	385	13.60	4.81
December.....	(L) 38.5	(L) 3.3	444	2.9	179	381	13.22	4.66
1961								
January.....	39.0	4.0	443	2.9	193	393	(L) 12.88	4.79
February.....	39.3	3.8	444	(L) 2.9	(L) 220	(L) 429	13.36	4.80
March.....	39.3	(H) 4.6	474	2.3	215	371	13.82	5.10
April.....	39.7	4.4	(L) 433	1.9	137	370	14.38	4.99
May.....	39.8	4.2	481	2.0	151	357	14.79	5.17
June.....	39.9	3.9	494	2.2	147	331	14.90	5.30
July.....	40.0	4.0	470	2.5	99	351	15.02	5.28
August.....	40.0	4.1	529	1.9	138	315	15.63	5.55
September.....	39.6	3.7	491	2.2	123	329	15.74	5.45
October.....	40.2	4.4	530	1.7	111	307	16.07	5.59
November.....	40.6	4.0	565	1.8	111	307	16.10	5.74
December.....	40.4	3.8	526	2.1	123	305	16.24	5.48
1962								
January.....	39.8	4.4	568	1.9	177	312	16.43	5.78
February.....	40.3	4.1	548	1.9	(H) 80	285	16.19	5.71
March.....	40.5	4.3	575	1.6	117	273	16.00	5.59
April.....	(H) 40.8	4.4	576	(H) 1.6	107	(H) 270	15.73	5.47
May.....	40.6	4.3	(H) 602	1.8	118	300	15.97	5.60
June.....	40.5	3.9	538	2.0	112	305	15.44	5.62
July.....	40.5	4.1	553	2.4	126	313	16.27	5.71
August.....	40.2	4.0	555	2.6	134	301	15.91	5.60
September.....	40.5	3.8	534	2.0	116	301	15.89	5.69
October.....	40.1	r4.0	579	1.8	125	302	r16.57	r5.62
November.....	40.4	p3.5	573	p1.8	131	301	(H) r16.57	(H) r5.93
December.....	p40.3	(NA)	517	(NA)	110	327	p16.00	p5.79
1963								
January.....						<sup>2</sup> 355		
February.....								
March.....								
April.....								
May.....								
June.....								

<sup>1</sup>Beginning with April 1962, the 1960 Census is used as the benchmark for computing this series. Prior to April 1962, the 1950 Census is used as the benchmark.

<sup>2</sup>Week ended January 12, 1963.

Table 1.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading Indicators--Continued						
	9. Construction contracts awarded for commercial and industrial buildings	10. Contracts and orders for plant and equipment	11. Newly approved capital appropriations, 602 manufacturing corporations	27. Buying policy, capital expend., pct. reporting commitments 6 mo. and over*	7. New private nonfarm dwelling units started	29. Index of new private housing units authorized by local building permits	12. Net change in business population, operating businesses
	(Mil. sq. ft. floor space)	(Bil. dol.)	(Bil. dol.)	(Percent reporting)	(Ann. rate, thous.)	(1957-59=100)	(Thous.)
1960							
January.....	37.32	5.56		55	1,302	98.3	
February.....	36.93	5.69	2.24	50	1,366	97.9	+19
March.....	36.73	5.61		46	1,089	88.1	
April.....	38.73	5.72		50	1,275	95.1	
May.....	39.25	5.78	2.01	46	1,309	95.9	+17
June.....	40.31	5.58		50	1,264	88.5	
July.....	38.87	5.39		45	1,209	91.6	
August.....	39.38	5.58	(L)1.79	47	1,335	87.3	+14
September.....	38.96	5.51		43	1,067	87.4	
October.....	39.44	(L)5.27		39	1,237	89.9	
November.....	39.44	5.39	2.11	38	1,206	91.4	+10
December.....	38.15	5.30		(L)37	(L)987	(L)87.1	
1961							
January.....	35.18	5.52		40	1,108	89.3	
February.....	36.90	5.50	1.82	39	1,087	89.4	(L)+6
March.....	38.16	5.64		45	1,258	92.3	
April.....	(L)35.09	5.51		45	1,162	92.5	
May.....	35.89	5.73	1.92	41	1,278	93.0	+10
June.....	37.32	5.92		38	1,376	97.6	
July.....	35.67	5.80		45	1,333	98.4	
August.....	39.79	6.13	2.24	47	1,303	101.2	+10
September.....	38.36	5.93		46	1,397	97.4	
October.....	33.42	6.13		39	1,413	103.1	
November.....	42.22	6.41	2.13	39	1,345	102.7	+10
December.....	41.54	6.04		47	1,255	111.6	
1962							
January.....	37.72	6.31		41	1,247	104.2	
February.....	44.72	6.44	2.32	47	1,134	113.5	+11
March.....	46.09	6.40		44	1,407	105.7	
April.....	39.93	6.09		46	1,521	112.9	
May.....	(H)46.42	6.28	2.00	39	1,566	103.6	(H)+11
June.....	44.34	6.31		41	1,399	104.4	
July.....	38.60	6.36		38	1,447	106.5	
August.....	43.27	6.28	2.32	46	1,500	103.1	+10
September.....	39.38	6.18		(H)48	1,261	107.8	
October.....	40.60	r6.20		47	r1,504	107.9	
November.....	42.59	(H)p6.58	(NA)	47	(H)r1,576	r110.7	(NA)
December.....	(NA)	(NA)		43	p1,479	(H)p125.0	
1963							
January.....							
February.....							
March.....							
April.....							
May.....							
June.....							

Table 1.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading Indicators--Continued							
	13. Number of new business incorporations	14. Current liabilities of business failures	15. Business failures with liabilities of \$100,000 and over	16. Corporate profits after taxes	17. Price per unit of labor cost index	18. Profits (before taxes) per dol. sales, all mfg. corporations	22. Ratio, profits to income originating, corporate, all industries	19. Index of stock prices, 500 common stocks*
1960	(Number)	(Mil. dol.)	(Number per week)	(Ann. rate, bil. dol.)	(1957-59=100)	(Cents)	(Percent)	(1941-43=10)
January.....	16,561	52.88	29		103.6			58.03
February.....	15,274	57.60	27	24.9	102.9	8.8	10.0	55.78
March.....	15,233	61.57	30		102.7			55.02
April.....	15,280	63.71	30		102.1			55.73
May.....	15,176	76.52	32	23.5	101.5	8.0	9.4	55.22
June.....	15,630	(L) 131.31	36		101.1			57.26
July.....	15,828	71.04	38		101.5			55.84
August.....	15,114	94.66	36	21.9	100.7	7.8	8.9	56.51
September.....	15,112	86.02	43		100.8			54.81
October.....	15,240	85.98	(L) 43		101.0			(L) 53.73
November.....	14,281	80.44	37	21.7	101.2	7.3	8.8	55.47
December.....	14,167	82.78	41		100.1			56.80
1961								
January.....	(L) 13,492	80.16	38		(L) 99.6			59.72
February.....	14,601	84.45	42	(L) 20.3	99.9	(L) 6.6	(L) 8.2	62.17
March.....	14,658	111.36	40		99.8			64.12
April.....	15,327	79.07	39		100.9			65.83
May.....	15,225	84.09	41	22.9	101.1	7.6	9.1	66.50
June.....	15,342	87.05	41		101.7			65.62
July.....	15,539	80.52	41		102.3			65.44
August.....	15,213	99.41	35	23.7	103.4	7.9	9.3	67.79
September.....	15,419	124.11	40		103.6			67.26
October.....	(H) 16,286	74.04	43		103.2			68.00
November.....	16,149	112.36	39	(H) 26.3	102.9	(H) 8.7	(H) 10.0	71.08
December.....	15,818	(H) 68.94	38		103.2			(H) 71.74
1962								
January.....	15,124	104.72	37		102.2			69.07
February.....	15,809	87.36	(H) 32	25.6	102.4	8.1	9.5	70.22
March.....	15,713	71.20	37		102.8			70.29
April.....	15,402	111.67	38		101.9			68.05
May.....	15,260	95.62	37	26.1	102.2	8.2	9.6	62.99
June.....	14,904	91.89	42		102.3			55.63
July.....	15,247	107.22	37		103.4			56.97
August.....	15,104	142.00	43	26.1	102.1	8.1	9.6	58.52
September.....	15,249	102.08	41		(H) 105.0			58.00
October.....	15,373	125.36	48		r103.4			56.17
November.....	14,849	92.63	42	(NA)	r104.2	(NA)	(NA)	60.04
December.....	(NA)	85.74	37		p104.0			62.64
1963								
January.....								<sup>1</sup> 65.13
February.....								
March.....								
April.....								
May.....								
June.....								

<sup>1</sup>January 17, 1963.

## Basic Data

Table 1.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading Indicators--Continued						
	21. Change in bus. inventories, farm and nonfarm, after valuation adjustment	31. Change in book value of manufacturing and trade inventories, total	20. Change in book value of mfrs.' inventories, purchased materials	26. Buying policy, production mats., percent reporting commitments 60 days or longer*	32. Vendor performance, percent reporting slower deliveries*	25. Change in manufacturers' unfilled orders, durable goods industries	23. Index of industrial materials prices*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent reporting)	(Percent reporting)	(Bil. dol.)	(1957-59=100)
1960							
January.....		+12.8	+4.6	64	44	-0.52	105.7
February.....	+10.8	+11.7	+1.5	64	30	-0.78	104.3
March.....		+11.4	+0.8	56	(L) 27	-0.77	102.4
April.....		+3.2	+1.0	61	28	-0.68	103.8
May.....	+4.4	+8.5	+0.4	55	32	-0.19	104.1
June.....		+2.3	-1.6	57	34	-0.22	102.7
July.....		-1.5	-1.4	54	36	-0.24	101.6
August.....	+2.1	+0.4	-1.2	50	40	-0.17	102.1
September.....		-0.6	-3.2	49	41	-0.13	101.2
October.....		+2.4	-2.4	50	39	(L) -0.77	99.7
November.....	-1.1	-2.1	(L) -3.4	50	38	-0.50	98.5
December.....		-6.2	-0.4	(L) 48	38	-0.43	(L) 96.8
1961							
January.....		-5.8	-0.3	51	38	+0.01	97.3
February.....	(L) -3.6	-3.2	-1.0	49	40	-0.02	99.3
March.....		(L) -8.7	+0.1	50	40	-0.11	103.1
April.....		+4.1	-0.1	57	47	+0.42	104.1
May.....	+2.1	+0.7	+0.8	54	48	+0.23	(H) 104.4
June.....		+0.4	-2.2	56	48	+0.07	101.0
July.....		+4.5	+1.1	56	49	+0.49	101.7
August.....	+4.0	+1.8	+0.2	55	52	+0.22	102.9
September.....		(H) +7.8	+3.0	57	55	-0.03	102.9
October.....		+4.2	+0.5	59	55	+0.33	102.3
November.....	+6.0	+6.1	+0.9	59	51	+0.25	98.9
December.....		+5.0	+1.3	54	53	+0.28	101.0
1962							
January.....		+7.6	(H) +5.0	57	56	(H) +1.21	102.9
February.....	(H) +6.7	+6.3	+2.2	(H) 61	(H) 56	+0.22	100.6
March.....		+4.2	+2.9	56	55	-0.33	100.4
April.....		+2.5	+1.0	55	48	-0.43	98.3
May.....	+4.0	+3.1	+0.2	49	46	-0.31	97.8
June.....		+4.3	-1.0	52	42	-0.36	95.4
July.....		+3.3	-1.5	58	44	+0.29	94.2
August.....	+1.0	-3.0	-1.7	52	44	-0.71	94.5
September.....		+5.7	-0.1	52	48	-0.81	94.0
October.....		r+3.8	-0.8	55	48	r-0.09	94.9
November.....	(NA)	p-3.1	p-1.0	52	48	r-0.26	96.4
December.....		(NA)	(NA)	51	48	p-0.72	95.8
1963							
January.....							195.7
February.....							
March.....							
April.....							
May.....							
June.....							

<sup>1</sup>January 16, 1963.

Table 1.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Roughly Coincident Indicators							
	41. Number of employees in nonagricultural establishments	42. Total nonagricultural employment, labor force survey <sup>1</sup>	43. Unemployment rate, total <sup>1</sup>	40. Unemployment rate, married males <sup>1</sup>	45. Average weekly insured unemployment rate, State programs	46. Index of help-wanted advertising in newspapers	47. Index of industrial production	50. Gross national product in 1954 dollars
	(Thous.)	(Thous.)	(Percent)	(Percent)	(Percent)	(1957=100)	(1957=59=100)	(Ann. rate, bil. dol.)
1960								
January.....	54,211	60,436	5.29	3.35	4.27	109.0	111.7	
February.....	54,445	60,875	4.91	3.02	4.17	110.1	111.0	440.9
March.....	54,427	60,488	5.38	3.48	4.54	105.4	110.5	
April.....	54,702	61,132	5.17	3.34	4.26	100.3	109.7	
May.....	54,584	61,371	5.14	3.36	4.19	99.7	109.9	442.3
June.....	54,538	61,293	5.44	3.61	4.39	97.8	109.6	
July.....	54,514	61,133	5.44	3.70	4.67	90.1	109.1	
August.....	54,403	61,035	5.75	3.95	5.10	89.4	108.7	439.7
September.....	54,301	60,996	5.70	3.83	5.38	82.6	107.8	
October.....	54,190	60,758	6.14	4.32	5.68	84.6	107.0	
November.....	53,995	61,210	6.18	4.46	6.27	82.2	105.4	437.7
December.....	53,707	(L)60,635	6.65	4.73	(L)6.33	(L)79.0	103.6	
1961								
January.....	53,581	60,852	6.65	4.72	6.15	79.9	(L)103.3	
February.....	(L)53,485	60,922	6.91	(L)4.91	6.32	79.3	103.4	(L)433.9
March.....	53,561	61,274	6.76	4.65	6.26	81.1	103.8	
April.....	53,663	61,101	6.93	4.88	5.91	79.8	106.6	
May.....	53,894	61,234	(L)7.02	4.89	5.61	82.0	108.8	443.9
June.....	54,182	61,543	6.86	4.77	5.32	83.8	110.9	
July.....	54,335	61,371	6.87	4.71	5.29	82.6	112.0	
August.....	54,333	61,417	6.81	4.77	5.22	86.1	113.4	450.4
September.....	54,304	61,188	6.86	4.60	5.10	84.8	112.0	
October.....	54,385	61,369	6.66	4.19	5.04	95.9	113.5	
November.....	54,525	61,840	6.11	4.23	5.08	99.1	114.8	463.4
December.....	54,492	61,618	6.00	3.90	4.81	96.9	115.6	
1962								
January.....	54,434	61,690	5.82	3.80	4.71	102.3	114.3	
February.....	54,773	62,206	5.58	3.40	4.52	105.9	116.0	467.4
March.....	54,901	62,280	5.45	3.47	4.41	(H)106.3	117.0	
April.....	55,260	62,236	5.54	3.72	3.93	106.1	117.7	
May.....	55,403	62,775	5.43	(H)3.37	(H)3.82	106.0	118.4	470.8
June.....	55,535	62,747	5.46	3.64	3.96	98.5	118.6	
July.....	55,617	62,809	(H)5.35	3.52	4.25	97.9	119.3	
August.....	55,536	(H)63,172	5.83	3.71	4.41	97.0	119.7	(H)471.6
September.....	55,583	62,914	5.78	3.46	4.38	92.8	(H)r119.8	
October.....	(H)r55,647	62,915	5.53	3.41	4.55	96.8	r119.3	
November.....	r55,577	62,784	5.79	3.68	4.84	95.9	119.5	(NA)
December.....	p55,594	63,054	5.55	3.55	4.79	p95.2	p119.6	
1963								
January.....					<sup>2</sup> 4.83			
February.....								
March.....								
April.....								
May.....								
June.....								

<sup>1</sup>Beginning with April 1962, the 1960 Census is used as the benchmark for computing this series. Prior to April 1962, the 1950 Census is used as the benchmark.

<sup>2</sup>Week ended January 5, 1963.

Table 1.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by ⊕ and current highs are indicated by ⊞; the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Roughly Coincident Indicators--Continued						
	49. Gross national product in current dollars	57. Final sales (series 49 minus 21)	51. Bank debits outside NYC, 343 centers	52. Personal income	53. Labor income in mining, manufacturing, and construction	54. Sales of retail stores	55. Index of wholesale prices except farm products and foods
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Mil. dol.)	(1957-59=100)
1960							
January.....			1,692.2	395.7	108.7	18,100	101.5
February.....	501.7	490.8	1,765.4	395.2	108.5	18,161	101.4
March.....			1,715.2	395.3	107.9	18,219	101.4
April.....			1,731.2	400.2	108.3	18,860	101.4
May.....	504.8	500.4	1,731.2	401.6	108.8	18,428	101.2
June.....			1,739.0	402.5	108.4	18,466	101.3
July.....			1,714.0	402.4	108.3	18,118	101.3
August.....	503.7	501.5	1,771.8	403.2	107.6	18,201	101.3
September.....			1,766.5	403.8	107.0	18,104	101.1
October.....			1,738.0	404.7	106.9	18,543	101.2
November.....	503.3	504.4	1,758.9	403.8	105.5	18,398	101.1
December.....			⊕1,742.3	⊕402.6	103.7	17,887	101.0
1961							
January.....			1,786.2	403.4	104.0	⊕17,773	101.0
February.....	⊕500.8	⊕504.4	1,755.0	404.2	⊕103.3	17,786	101.0
March.....			1,785.1	<sup>1</sup> 406.7	104.2	18,117	101.0
April.....			1,781.8	406.6	106.0	17,851	100.9
May.....	513.1	511.0	1,829.3	413.3	107.1	17,985	100.8
June.....			1,824.0	416.4	108.5	18,189	100.7
July.....			1,839.9	<sup>1</sup> 417.5	108.9	18,017	100.7
August.....	522.3	518.3	1,832.7	418.3	108.5	18,172	100.7
September.....			1,848.2	419.7	108.3	18,131	100.8
October.....			1,904.6	423.6	110.1	18,577	100.6
November.....	538.6	532.6	1,903.8	427.8	111.7	19,098	100.8
December.....			1,916.9	430.5	111.8	18,827	100.9
1962							
January.....			2,010.0	428.8	110.8	18,835	100.8
February.....	545.0	538.3	1,916.7	431.9	112.1	18,965	100.6
March.....			1,985.5	435.2	113.0	19,266	⊕100.6
April.....			2,044.5	438.3	115.0	19,596	100.7
May.....	552.0	547.9	2,015.3	439.7	115.1	19,432	100.9
June.....			2,000.3	440.7	114.9	19,089	100.8
July.....			2,055.1	441.9	⊞115.2	19,682	100.9
August.....	⊞555.3	⊞554.2	2,017.1	443.0	115.0	19,569	100.7
September.....			1,988.6	443.5	114.8	19,618	⊞100.9
October.....			r2,081.0	445.6	r114.8	r19,744	100.8
November.....	(NA)	(NA)	⊞2,090.6	r448.2	r114.8	r20,189	100.8
December.....			p2,067.2	⊞p450.4	p114.8	⊞p20,238	100.7
1963							
January.....							<sup>2</sup> 100.5
February.....							
March.....							
April.....							
May.....							
June.....							

<sup>1</sup>Excludes stepped-up rate of payments and special payments of government life insurance dividends to veterans in March 1961 (\$1.8 billion) and July 1961 (\$2.6 billion), respectively.

<sup>2</sup>Week ended January 15, 1963.

Table 1.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	NBER Lagging Indicators						
	61. Business expenditures on new plant and equipment, total	62. Index of wage and salary cost per unit of output, total manufacturing	63. Index of labor cost per unit of output, total GNP	64. Book value of manufacturers' inventories, all manufacturing industries	65. Book value of mfrs.' inventories of finished goods, all manufacturing ind.	66. Consumer installment debt	67. Bank rates on short-term business loans, 19 cities*
	(Ann. rate, bil. dol.)	(1957-59=100)	(1957-59=100)	(Bil. dol.)	(Bil. dol.)	(Mil. dol.) Revised <sup>1</sup>	(Percent)
1960							
January.....		96.7		53.3	20.4	38,771	
February.....	35.15	98.1	103.2	53.9	20.6	39,252	5.34
March.....		98.5		54.3	20.8	39,678	
April.....		99.1		54.7	21.0	40,177	
May.....	36.30	99.6	104.3	55.0	21.2	40,472	5.35
June.....		100.1		55.1	21.3	40,813	
July.....		99.8		54.9	21.4	41,099	
August.....	35.90	100.5	105.4	55.0	21.6	41,308	4.97
September.....		100.4		54.7	21.9	41,562	
October.....		100.2		54.4	21.9	41,690	
November.....	35.50	100.4	105.0	54.0	21.9	41,832	4.99
December.....		101.0		53.7	21.8	41,943	
1961							
January.....		100.9		53.7	21.8	41,918	
February.....	33.85	101.1	106.1	53.6	21.8	41,832	4.97
March.....		101.2		(L)53.3	21.7	41,786	
April.....		100.0		53.4	21.7	41,665	
May.....	(L)33.50	99.6	105.8	53.4	21.5	(L)41,656	4.97
June.....		98.8		53.4	(L)21.5	41,700	
July.....		98.3		53.5	21.5	41,704	
August.....	34.70	97.4	105.8	54.0	21.7	41,759	4.99
September.....		(L)97.3		54.4	21.8	41,808	
October.....		97.5		54.8	21.9	41,970	
November.....	35.40	98.0	(L)104.7	55.0	21.9	42,239	(L)4.96
December.....		97.5		55.2	22.0	42,587	
1962							
January.....		98.0		55.7	22.1	42,866	
February.....	35.70	98.2	105.5	56.2	22.1	43,138	4.98
March.....		97.7		56.6	22.2	43,516	
April.....		98.7		56.7	22.2	44,009	
May.....	36.95	98.7	106.9	56.8	22.3	44,448	5.01
June.....		98.6		56.9	22.4	44,869	
July.....		97.6		57.0	22.5	45,255	
August.....	(H)38.35	(H)98.9	(H)107.6	57.0	22.6	45,613	4.99
September.....		96.4		57.2	22.7	45,815	
October.....		r97.7		(H)r57.3	22.7	46,199	
November.....	<sup>2</sup> 38.35	r97.0	(NA)	p57.1	(H)p22.7	(H)46,780	(H)5.02
December.....		p96.6		(NA)	(NA)	(NA)	
1963							
January.....							
February.....	<sup>2</sup> 37.70						
March.....							
April.....							
May.....							
June.....							

<sup>1</sup>See "Important Features and Changes For This Issue," page ii.

<sup>2</sup>Anticipated.

Table 1.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	Other U.S. series with business cycle significance								
	86. Exports, excluding military aid shipments, total	87. General imports, total	88. Merchandise trade balance (series 86 minus 87)	89. Excess receipts(+) or payments (-) in U.S. balance of payments	82. Federal cash payments to the public	83. Federal cash receipts from the public	84. Federal surplus (+) or deficit (-)	95. Surplus (+) or deficit (-), Federal income and product acct.	90. Defense Department obligations, procurement
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Mil. dol.)
1960									
January.....	1,561.3	1,246.3	+315.0		89.9	89.9	0.0		937
February.....	1,565.7	1,348.0	+217.7	-680	97.8	96.6	-1.2	+8.1	1,104
March.....	1,518.1	1,289.8	+228.3		91.9	94.2	+2.3		1,020
April.....	1,622.2	1,348.6	+273.6		94.9	99.8	+4.9		983
May.....	1,659.3	1,269.0	+390.3	-775	94.4	102.9	+8.5	+5.5	1,373
June.....	1,633.8	1,276.5	+357.3		91.9	94.8	+2.9		1,269
July.....	1,706.5	1,270.7	+435.8		91.5	93.6	+2.1		2,866
August.....	1,624.8	1,255.8	+369.0	-1,157	97.4	104.0	+6.6	+1.5	1,230
September.....	1,647.2	1,220.6	+426.6		95.0	100.5	+5.5		1,206
October.....	1,667.6	1,206.0	+461.6		92.7	91.7	-1.0		998
November.....	1,680.6	1,161.7	+518.9	<sup>1</sup> -1,313	102.3	103.3	+1.0	-0.4	1,559
December.....	1,645.3	1,124.8	+520.5		96.0	100.4	+4.4		1,239
1961									
January.....	1,646.1	1,150.9	+495.2		96.8	93.1	-3.7		1,306
February.....	1,736.4	1,146.1	+590.3	-319	95.4	93.2	-2.2	-6.3	1,476
March.....	1,711.1	1,158.4	+552.7		107.2	89.1	-18.1		1,163
April.....	1,658.3	1,159.0	+499.3		100.7	98.0	-2.7		1,089
May.....	1,577.0	1,155.2	+421.8	<sup>2</sup> +176	110.9	102.2	-8.7	-4.2	1,117
June.....	1,594.9	1,177.2	+417.7		105.4	95.3	-10.1		1,238
July.....	1,668.0	1,366.4	+301.6		97.5	90.3	-7.2		1,671
August.....	1,659.7	1,261.3	+398.4	-910	114.0	104.0	-10.0	-3.3	2,237
September.....	1,667.8	1,280.3	+387.5		101.8	100.8	-1.0		1,864
October.....	1,772.9	1,322.4	+450.5		111.1	99.1	-12.0		1,436
November.....	1,716.3	1,310.7	+405.6	-1,408	107.3	103.9	-3.4	-1.3	1,372
December.....	1,719.2	1,296.5	+422.7		103.8	102.8	-1.0		1,891
1962									
January.....	1,660.0	1,320.1	+339.9		116.1	100.0	-16.1		1,912
February.....	1,852.1	1,314.1	+538.0	-492	108.7	99.9	-8.8	-2.4	1,147
March.....	1,632.1	1,336.1	+296.0		107.3	93.8	-13.5		1,150
April.....	1,794.6	1,374.2	+420.4		110.2	109.5	-0.7		1,904
May.....	1,774.7	1,385.0	+389.7	-226	107.0	113.2	+6.2	-0.7	1,075
June.....	1,858.9	1,345.8	+513.1		r107.4	r101.4	r-6.0		1,164
July.....	1,718.1	1,353.4	+364.7		115.3	109.2	-6.1		2,845
August.....	1,651.6	1,377.0	+274.6	-719	113.6	114.0	+0.4	-0.9	1,365
September.....	1,935.9	1,498.6	+437.3		106.7	109.3	+2.6		1,000
October.....	1,503.2	1,339.4	+163.8		120.5	107.1	-13.4		1,917
November.....	1,705.2	1,420.3	+284.9	(NA)	115.8	112.1	r-3.7	(NA)	1,872
December.....	(NA)	(NA)	(NA)		114.6	110.2	-4.4		(NA)
1963									
January.....									
February.....									
March.....									
April.....									
May.....									
June.....									

<sup>1</sup>Includes single direct investment transactions of \$370 million.

<sup>2</sup>Includes \$650 million in special debt payments to the United States.

Table 1.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (L) and current highs are indicated by (H); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	Other U.S. series with business cycle significance--Continued								
	91. Defense Department obligations, total	92. Military prime contract awards to U.S. business firms	85. Percent change in total U.S. money supply	98. Percent change in money supply and time deposits	93. Free reserves*	81. Index of consumer prices	94. Index of construction contracts, total value	96. Mfrs.' unfilled orders, durable goods industries	97. Backlog of capital appropriations, manufacturing
	(Mil. dol.)	(Mil. dol.)	(Percent)	(Percent)	(Mil.dol.)	(1957-59=100)	(1957-59=100)	(Bil.dol.)	(Bil.dol.)
1960									
January.....	3,234	1,770	-0.14	-0.14	-375	102.3	93	47.56	
February.....	3,439	1,740	-0.28	-0.38	-365	102.5	93	46.77	
March.....	3,368	1,738	-0.28	-0.10	-219	102.6	100	46.00	8.05
April.....	3,362	1,368	-0.14	0.00	-194	102.9	105	45.32	
May.....	3,677	1,811	-0.28	-0.05	-33	103.0	97	45.13	
June.....	3,771	1,687	-0.28	-0.05	+37	103.1	108	44.91	7.74
July.....	5,305	2,231	+0.21	+0.53	+120	103.1	113	44.67	
August.....	3,824	2,302	+0.36	+0.67	+247	103.3	109	44.50	
September.....	3,926	2,361	+0.07	+0.38	+414	103.2	107	44.37	7.15
October.....	3,299	1,477	+0.07	+0.47	+480	103.5	117	43.60	
November.....	4,109	2,127	-0.14	+0.28	+614	103.6	111	43.10	
December.....	3,671	1,797	+0.28	+0.52	+669	103.8	120	42.68	7.07
1961									
January.....	3,621	1,944	+0.14	+0.56	+696	103.9	108	42.69	
February.....	3,976	2,153	+0.28	+0.74	+517	104.0	95	42.66	
March.....	3,552	1,774	+0.28	+0.51	+486	104.1	104	42.55	6.72
April.....	3,449	1,882	+0.21	+0.46	+551	103.9	103	42.97	
May.....	3,600	1,501	+0.21	+0.64	+453	104.0	102	43.20	
June.....	3,723	1,888	0.00	+0.36	+549	104.0	111	43.27	6.58
July.....	4,314	2,066	+0.07	+0.45	+530	104.3	110	43.75	
August.....	5,344	2,389	0.00	+0.32	+537	104.4	116	43.97	
September.....	4,785	2,127	+0.42	+0.58	+547	104.5	103	43.95	6.68
October.....	4,191	2,847	+0.49	+0.67	+442	104.4	114	44.28	
November.....	4,121	2,500	+0.49	+0.62	+517	104.4	116	44.53	
December.....	4,681	2,153	+0.55	+0.57	+419	104.4	119	44.81	6.83
1962									
January.....	4,449	3,429	+0.14	+0.79	+546	104.6	115	46.02	
February.....	3,899	2,121	-0.27	+0.57	+434	104.9	119	46.24	
March.....	3,914	2,230	+0.14	+0.82	+379	105.2	131	45.91	7.15
April.....	4,491	1,855	+0.27	+0.69	+441	105.2	121	45.48	
May.....	3,967	1,774	-0.27	+0.21	+434	105.4	117	45.17	
June.....	3,821	1,715	-0.07	+0.42	+371	105.3	120	44.81	7.06
July.....	5,821	2,047	+0.07	+0.51	+443	105.4	117	45.08	
August.....	4,618	2,660	-0.41	+0.04	+436	105.6	118	44.37	
September.....	3,892	2,218	+0.14	+0.46	+378	106.0	113	43.56	7.12
October.....	4,760	3,354	+0.55	+0.84	r+419	105.8	117	r43.46	
November.....	4,925	(NA)	+0.55	+0.91	r+470	105.8	123	r43.20	
December.....	(NA)		p+0.68	p+1.03	p+265	(NA)	(NA)	p42.48	(NA)
1963									
January.....									
February.....									
March.....									
April.....									
May.....									
June.....									

Table 1.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1960 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (\*). Low values preceding current highs are indicated by (⊖) and current highs are indicated by (⊕); the reverse is true for inverted series (series 3, 4, 5, 14, 15, 40, 43, 45). Series numbers are for identification purposes only and do not reflect series relationships or order. Sources are shown in "Complete Titles and Sources of Principal Business Cycle Series and Diffusion Indexes" on the back cover. "r" indicates revised; "p", preliminary.

Year and month	International comparisons of industrial production							
	121. OECD, <sup>1</sup> European countries, index of industrial production	122. United Kingdom, index of industrial production	123. Canada, index of industrial production	47. United States, index of industrial production	125. West Germany, index of industrial production	126. France, index of industrial production	127. Italy, index of industrial production	128. Japan, index of industrial production
1960	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)
January.....	111	109	109	112	113	112	118	132
February.....	112	109	107	111	113	109	122	136
March.....	114	110	108	110	115	110	123	137
April.....	113	112	105	110	115	112	123	140
May.....	114	112	105	110	116	111	124	140
June.....	116	111	105	110	118	115	126	143
July.....	118	111	104	109	118	115	125	145
August.....	116	112	104	109	115	117	127	148
September.....	116	112	105	108	118	119	127	151
October.....	117	112	105	107	120	119	126	151
November.....	118	110	105	105	120	121	129	157
December.....	118	112	105	104	122	119	129	158
1961								
January.....	117	109	104	103	124	117	129	162
February.....	119	110	105	103	125	119	133	160
March.....	119	110	105	104	126	121	132	166
April.....	120	111	107	107	126	119	133	166
May.....	119	110	107	109	124	119	135	172
June.....	120	113	109	111	121	121	135	175
July.....	120	113	109	112	122	121	137	179
August.....	119	111	111	113	121	121	130	182
September.....	120	110	112	112	124	121	139	183
October.....	121	109	112	114	123	125	143	187
November.....	122	109	114	115	124	126	147	190
December.....	123	109	114	116	128	127	147	191
1962								
January.....	123	108	113	114	126	126	148	190
February.....	124	110	115	116	129	127	149	188
March.....	124	111	116	117	125	127	147	193
April.....	125	110	116	118	131	128	149	192
May.....	125	113	117	118	130	129	151	195
June.....	125	114	118	119	129	129	145	194
July.....	125	113	118	119	128	130	149	191
August.....	r126	114	119	120	128	130	148	193
September.....	127	115	119	120	130	132	148	194
October.....	126	112	119	r119	130	133	(NA)	p191
November.....	(NA)	(NA)	(NA)	120	132	135		p192
December.....				p120	(NA)	(NA)		(NA)
1963								
January.....								
February.....								
March.....								
April.....								
May.....								
June.....								

<sup>1</sup>Organization for Economic Cooperation and Development.

Table 2.--RECENT CHANGES FOR BUSINESS CYCLE SERIES

To facilitate interpretations of cyclical movements, those series that usually fall when general business activity rises and rise when business falls are inverted so that rises are shown as declines and declines as rises (see series 3, 4, 5, 14, 15, 40, 43, and 45). The month-to-month percent changes are calculated in the usual way but the signs are reversed; for example, if the rate decreased by 0.6 percent, the sign of this drop is reversed and shown as +0.6.

Series	Measure of change	Avg. change, 1948-1961 <sup>1</sup>	1962								1963
			Apr. to May	May to June	June to July	July to Aug.	Aug. to Sept.	Sept. to Oct.	Oct. to Nov.	Nov. to Dec.	Dec. to Jan. <sup>2</sup>
NBER LEADING INDICATORS											
1. Average workweek of production workers, manufacturing.....	Percent..	0.5	-0.5	-0.2	0.0	-0.7	+0.7	-1.0	+0.7	-0.2	
2. Accession rate, manufacturing.....	..do.....	6.0	-2.3	-9.3	+5.1	-2.4	-5.0	+5.3	-12.5	NA	
30. Nonagri. placements, all industries...	..do.....	3.4	+4.5	-10.6	+2.8	+0.4	-3.8	+8.4	-1.0	-9.8	
3. Layoff rate, manufacturing (inverted).	..do.....	11.9	-12.5	-11.1	-20.0	-8.3	+23.1	+10.0	0.0	NA	
4. Number of persons on temporary lay-off, all industries (inverted).....	..do.....	19.4	-10.3	+5.1	-12.5	-6.3	+13.4	-7.8	-4.8	+16.0	
5. Avg. weekly initial claims for unemployment insurance, State (inverted).	..do.....	7.0	-11.1	-1.7	-2.6	+3.8	0.0	-0.3	+0.3	-8.6	-8.6
6. Value of manufacturers' new orders, durable goods industries.....	..do.....	5.6	+1.5	-3.3	+5.4	-2.2	-0.1	+4.3	0.0	-3.4	
24. Value of manufacturers' new orders, machinery and equipment industries...	..do.....	6.1	+2.4	+0.4	+1.6	-1.9	+1.6	-1.2	+5.5	-2.4	
9. Construction contracts awarded for commercial and industrial buildings..	..do.....	12.4	+16.3	-4.5	-12.9	+12.1	-9.0	+3.1	+4.9	NA	
10. Contracts and orders for plant and equipment.....	..do.....	6.4	+3.1	+0.5	+0.8	-1.3	-1.6	+0.3	+6.1	NA	
11. Newly approved capital appropriations, 602 manufacturing corporations <sup>3</sup> .....	..do.....	11.2	-13.8	...	...	+16.0	...	...	NA		
27. Buying policy, capital expend., percent reporting commitments 6 mo. or more..	..do.....	7.6	-15.2	+5.1	-7.3	+21.1	+4.3	-2.1	0.0	-8.5	
7. New private nonfarm dwelling units started.....	..do.....	4.1	+3.0	-10.7	+3.4	+3.7	-15.9	+19.3	+4.8	-6.2	
29. Index of new private housing units authorized by local bldg. permits,...	..do.....	3.9	-8.2	+0.8	+2.0	-3.2	+4.6	+0.1	+2.6	+12.9	
12. Net change in business population, operating businesses <sup>3</sup> <sup>4</sup> .....	Thous....	3	0	...	...	-1	...	...	NA		
13. Number of new business incorporations.	Percent..	3.0	-0.9	-2.3	+2.3	-0.9	+1.0	+0.8	-3.4	NA	
14. Current liabilities of business failures (inverted).....	..do.....	16.3	+14.4	+3.9	-16.7	-32.4	+28.1	-22.8	+26.1	+7.4	
15. No. of business failures with liabilities of \$100,000 and over (inv.)	..do.....	17.3	+2.6	-13.5	+11.9	-16.2	+4.7	-17.1	+12.5	+11.9	
16. Corporate profits after taxes <sup>3</sup> .....	..do.....	7.7	+2.0	...	...	0.0	...	...	NA		
17. Price per unit of labor cost index.....	..do.....	0.7	+0.3	+0.1	+1.1	-1.3	+2.8	-1.5	+0.8	-0.2	
18. Profits (before taxes) per dollar of sales, all mfg. corporations <sup>3</sup> .....	..do.....	7.7	+1.2	...	...	-1.2	...	...	NA		
22. Ratio, profits to income originating, corporate, all industries <sup>3</sup> .....	..do.....	5.8	+1.1	...	...	0.0	...	...	NA		
19. Index of stock prices, 500 stocks.....	..do.....	2.6	-7.4	-11.7	+2.4	+2.7	-0.9	-3.2	+6.9	+4.3	+4.0
21. Change in bus. inventories, farm and nonfarm, after val. adjustment <sup>3</sup> <sup>4</sup> ....	Ann.rate, bil.dol.	3.1	-2.7	...	...	-3.0	...	...	NA		
31. Change in book value of mfg. and trade inventories, total <sup>4</sup> .....	..do.....	4.0	+0.6	+1.2	-1.0	-6.3	+8.7	-1.9	-6.9	NA	
20. Change in book value of mfrs.' inventories, purchased materials <sup>4</sup> .....	..do.....	1.7	-0.8	-1.2	-0.5	-0.2	+1.6	-0.7	-0.2	NA	
26. Buying policy, prod. mtl., percent report. commitments 60 days or more..	Percent..	6.2	-10.9	+6.1	+11.5	-10.3	0.0	+5.8	-5.5	-1.9	
32. Vendor performance, percent reporting slower deliveries.....	..do.....	11.3	-4.2	-8.7	+4.8	0.0	+9.1	0.0	0.0	0.0	
25. Change in mfrs.' unfilled orders, durable goods industries <sup>4</sup> .....	Bil. dol.	0.46	+0.12	-0.05	+0.65	-1.00	-0.10	+0.72	-0.17	-0.46	
23. Index of industrial materials prices..	Percent..	2.2	-0.5	-2.5	-1.3	+0.3	-0.5	+1.0	+1.6	-0.6	-0.1
NBER ROUGHLY COINCIDENT INDICATORS											
41. Number of employees in nonagricultural establishments.....	..do.....	0.4	+0.3	+0.2	+0.1	-0.1	+0.1	+0.1	-0.1	0.0	
42. Total nonagricultural employment, labor force survey.....	..do.....	0.4	+0.9	0.0	+0.1	+0.6	-0.4	0.0	-0.2	+0.4	
43. Unemployment rate, total (inverted)...	..do.....	4.7	+2.0	-0.6	+2.0	-9.0	+0.9	+4.3	-4.7	+4.1	
40. Unemploy. rate, married males (inv.)..	..do.....	5.8	+9.4	-8.0	+3.3	-5.4	+6.7	+1.4	-7.9	+3.5	
45. Avg. weekly insured unemployment rate, State programs (inverted).....	..do.....	5.6	+2.8	-3.7	-7.3	-3.8	+0.7	-3.9	-6.4	+1.0	-0.8

See footnotes at end of table.

Table 2.--RECENT CHANGES FOR BUSINESS CYCLE SERIES--Continued

To facilitate interpretations of cyclical movements, those series that usually fall when general business activity rises and rise when business falls are inverted so that rises are shown as declines and declines as rises (see series 3, 4, 5, 14, 15, 40, 43, and 45). The month-to-month percent changes are calculated in the usual way but the signs are reversed; for example, if the rate decreased by 0.6 percent, the sign of this drop is reversed and shown as +0.6.

Series	Measure of change	Avg. change, 1948-1961 <sup>1</sup>	1962								1963
			Apr. to May	May to June	June to July	July to Aug.	Aug. to Sept.	Sept. to Oct.	Oct. to Nov.	Nov. to Dec.	Dec. to Jan. <sup>2</sup>
<b>NBER ROUGHLY COINCIDENT INDICATORS--Con.</b>											
46. Index of help-wanted advertising in newspapers.....	Percent..	3.3	-0.1	-7.1	-0.6	-0.9	-4.3	+4.3	-0.9	-0.7	
47. Index of industrial production.....	..do....	1.2	+0.6	+0.2	+0.6	+0.3	+0.1	-0.4	+0.2	+0.1	
50. Gross national product in 1954 dol. <sup>3</sup> ..	..do....	1.4	+0.7	..	..	+0.2	..	..	NA	NA	
49. Gross national product in cur. dol. <sup>3</sup> ..	..do....	1.9	+1.3	..	..	+0.6	..	..	NA	NA	
57. Final sales (series 49 minus 21) <sup>3</sup> .....	..do....	1.6	+1.8	..	..	+1.1	..	..	NA	NA	
51. Bank debits outside NYC, 343 centers..	..do....	1.6	-1.4	-0.7	+2.7	-1.8	-1.4	+4.6	+0.5	-1.1	
52. Personal income.....	..do....	0.7	+0.3	+0.2	+0.3	+0.2	+0.1	+0.5	+0.6	+0.5	
53. Labor income in mining, manufacturing, and construction.....	..do....	1.1	+0.1	-0.2	+0.3	-0.2	-0.2	0.0	0.0	0.0	
54. Sales of retail stores.....	..do....	1.6	-0.8	-1.8	+3.1	-0.6	+0.3	+0.6	+2.3	+0.2	
55. Index of wholesale prices except farm products and foods.....	..do....	0.3	+0.2	-0.1	+0.1	-0.2	+0.2	-0.1	0.0	-0.1	-0.2
<b>NBER LAGGING INDICATORS</b>											
61. Business expenditures on new plant and equipment, total <sup>3</sup> .....	..do....	3.6	+3.5	..	..	+3.8	..	..	<sup>5</sup> 0.0		
62. Index of wage and salary cost per unit of output, total manufacturing..	..do....	0.7	0.0	-0.1	-1.0	+1.3	-2.5	+1.3	-0.7	-0.4	
63. Index of labor cost per unit of output, total GNP <sup>3</sup> .....	..do....	1.0	+1.3	..	..	+0.7	..	..	NA		
64. Book value of mfrs.' inventories, all manufacturing industries.....	..do....	0.9	+0.2	+0.2	+0.2	0.0	+0.4	+0.2	-0.3	NA	
65. Book value of mfrs.' inventories of finished goods, all mfg. industries..	..do....	1.0	+0.5	+0.4	+0.4	+0.4	+0.4	0.0	0.0	NA	
66. Consumer installment debt.....	..do....	1.2	+1.0	+0.9	+0.9	+0.8	+0.4	+0.8	+1.3	NA	
67. Bank rates on short-term business loans, 19 cities <sup>3</sup> .....	..do....	3.0	+0.6	..	..	-0.4	..	..	+0.6	NA	
<b>OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE</b>											
86. Exports, excluding military aid shipments, total.....	..do....	3.7	-1.1	+4.7	-7.6	-3.9	+17.2	-22.4	+13.4	NA	
87. General imports, total.....	..do....	3.5	+0.8	-2.8	+0.6	+1.7	+8.8	-10.6	+6.0	NA	
88. Merchandise trade balance <sup>4</sup> .....	Mil. dol.	58.6	-30.7	+123.4	-148.4	-90.1	+162.7	-273.5	+121.1	NA	
89. Excess of receipts or payments in U.S. balance of payments <sup>3 4</sup> .....	..do....	332	+266	..	..	-493	..	..	NA		
82. Federal cash payments to the public..	Percent..	7.2	-2.9	+0.4	+7.4	-1.5	-6.1	+12.9	-3.9	-1.0	
83. Federal cash receipts from the public.	..do....	7.5	+3.4	-10.4	+7.7	+4.4	-4.1	-2.0	+4.7	-1.7	
84. Federal cash surplus or deficit <sup>4</sup> .....	Ann. rate, bil. dol.	5.7	+6.9	-12.2	-0.1	+6.5	+2.2	-16.0	+9.7	-0.7	
95. Surplus or deficit, Federal income and product account <sup>3 4</sup> .....	..do....	3.2	+1.7	..	..	-0.2	..	..	NA		
90. Defense Dept. obligations, procurement.	Percent..	25.4	-43.5	+8.3	+144.4	-52.0	-26.7	+91.7	-2.3	NA	
91. Defense Dept. obligations, total.....	..do....	15.6	-11.7	-3.7	+52.3	-20.7	-15.7	+22.3	+3.5	NA	
92. Military prime contract awards to U.S. business firms.....	..do....	29.2	-4.4	-3.3	+19.4	+29.9	-16.6	+51.2	NA		
85. Change in money supply excluding time deposits <sup>4</sup> .....	..do....	0.22	-0.54	+0.20	+0.14	-0.48	+0.55	+0.41	0.00	+0.13	
93. Free reserves <sup>4</sup> .....	Mil. dol.	138	-7	-63	+72	-7	-58	+41	+51	-205	
81. Index of consumer prices.....	Percent..	0.3	+0.2	-0.1	+0.1	+0.2	+0.4	-0.2	0.0	NA	
94. Index of construc. contracts, total..	..do....	8.3	-3.3	+2.6	-2.5	+0.9	-4.2	+3.5	+5.1	NA	
96. Mfrs.' unfilled orders, dur. goods....	..do....	2.1	-0.7	-0.8	+0.6	-1.6	-1.8	-0.2	-0.6	-1.7	
97. Backlog of cap. appropriations, mfg....	..do....	6.3	-1.3	..	..	+0.8	..	..	NA		
98. Change in money supply including time deposits <sup>4</sup> .....	..do....	0.19	-0.48	+0.21	+0.09	-0.47	+0.42	+0.38	+0.07	+0.12	

<sup>1</sup>This average is based on month-to-month (or quarter-to-quarter) changes without regard to sign. The period varies among the series, beginning with the earliest date shown in chart 1 and ending on the date a revision or new seasonal adjustment made new computations feasible. <sup>2</sup>Percentage changes cover part of this period only. <sup>3</sup>Quarterly series; figures show change from previous quarter and are placed in middle month of quarter. Thus the figure for GNP (series 49) shown in the Apr.-May column refers to the change from the 1st quarter of 1962 to the 2nd quarter of 1962. <sup>4</sup>Figures are the month-to-month (quarter-to-quarter) differences in the figures shown in table 1. <sup>5</sup>Anticipated. The percent change from 4th quarter 1962 to 1st quarter 1963, based on anticipated data is -1.7.

Table 3.--DISTRIBUTION OF HIGHS IN BUSINESS CYCLE INDICATORS DURING RECENT MONTHS COMPARED WITH PERIODS AROUND PREVIOUS BUSINESS CYCLE PEAKS

Number of months before benchmark date that high was reached	Number of series that reached a high before benchmark dates--							
	Business cycle peak				3d month before business cycle peak			
	Nov. 1948	July 1953	July 1957	May 1960	Aug. 1948	Apr. 1953	Apr. 1957	Feb. 1960
	NBER LEADING INDICATORS							
8 months or more.....	12	7	22	14	11	3	20	12
7 months.....	1	1	...	2	1	4	...	1
6 months.....	...	3	1	1	...	...	1	...
5 months.....	4	1	...	3	...	2	1	1
4 months.....	1	...	...	2	1	2	...	2
3 months.....	...	2	...	1	...	3	1	1
2 months.....	...	2	...	...	4	1	...	3
1 month.....	...	...	...	...	1	...	...	2
Benchmark month.....	...	3	...	...	...	4	...	1
Number of series used.....	<sup>1</sup> 18	<sup>2</sup> 19	23	23	<sup>1</sup> 18	<sup>2</sup> 19	23	23
Percent of series high on benchmark date.	0	16	0	0	0	21	0	4
	NBER ROUGHLY COINCIDENT INDICATORS							
8 months or more.....	3	1	2	1	1	...	1	1
7 months.....	...	...	...	...	2	...	...	...
6 months.....	...	...	...	...	...	...	1	...
5 months.....	...	1	1	...	...	2	...	...
4 months.....	4	1	3	2	...	...	1	1
3 months.....	1	...	...	3	...	...	...	...
2 months.....	2	2	...	...	...	1	2	...
1 month.....	...	3	...	2	4	4	3	3
Benchmark month.....	1	3	5	3	4	4	3	6
Number of series used.....	11	11	11	11	11	11	11	11
Percent of series high on benchmark date.	9	27	45	27	36	36	27	55
Number of months before benchmark date that high was reached	6th month before business cycle peak				Current expansion			
	May 1948	Jan. 1953	Jan. 1957	Nov. 1959	Sept. 1962	Oct. 1962	Nov. 1962	Dec. 1962
	NBER LEADING INDICATORS							
8 months or more.....	6	2	17	4	10	14	12	9
7 months.....	1	1	1	4	5	...	3	1
6 months.....	...	2	1	4	...	3	2	...
5 months.....	4	1	1	2	3	3	...	...
4 months.....	2	4	...	4	3	...	...	...
3 months.....	...	1	1	...	...	...	...	2
2 months.....	2	2	1	1	...	...	2	...
1 month.....	2	3	...	2	...	2	...	3
Benchmark month.....	1	3	1	2	2	1	4	1
Number of series used.....	<sup>1</sup> 18	<sup>2</sup> 19	23	23	23	23	23	16
Percent of series high on benchmark date.	6	16	4	9	9	4	17	6
	NBER ROUGHLY COINCIDENT INDICATORS							
8 months or more.....	1	...	1	...	...	...	1	1
7 months.....	...	...	...	...	...	1	...	1
6 months.....	...	...	...	...	1	...	1	...
5 months.....	...	...	...	4	...	1	...	2
4 months.....	4	...	...	2	1	...	2	1
3 months.....	...	...	2	...	...	2	1	2
2 months.....	...	2	...	...	5	1	2	1
1 month.....	1	3	5	2	1	2	1	1
Benchmark month.....	5	6	3	3	3	4	3	2
Number of series used.....	11	11	11	11	11	11	11	11
Percent of series high on benchmark date.	45	55	27	27	27	36	27	18

All quarterly series, 1 leading monthly series (series 15), and 1 roughly coincident series (series 40) are omitted from the distribution.

<sup>1</sup>5 series were not available.

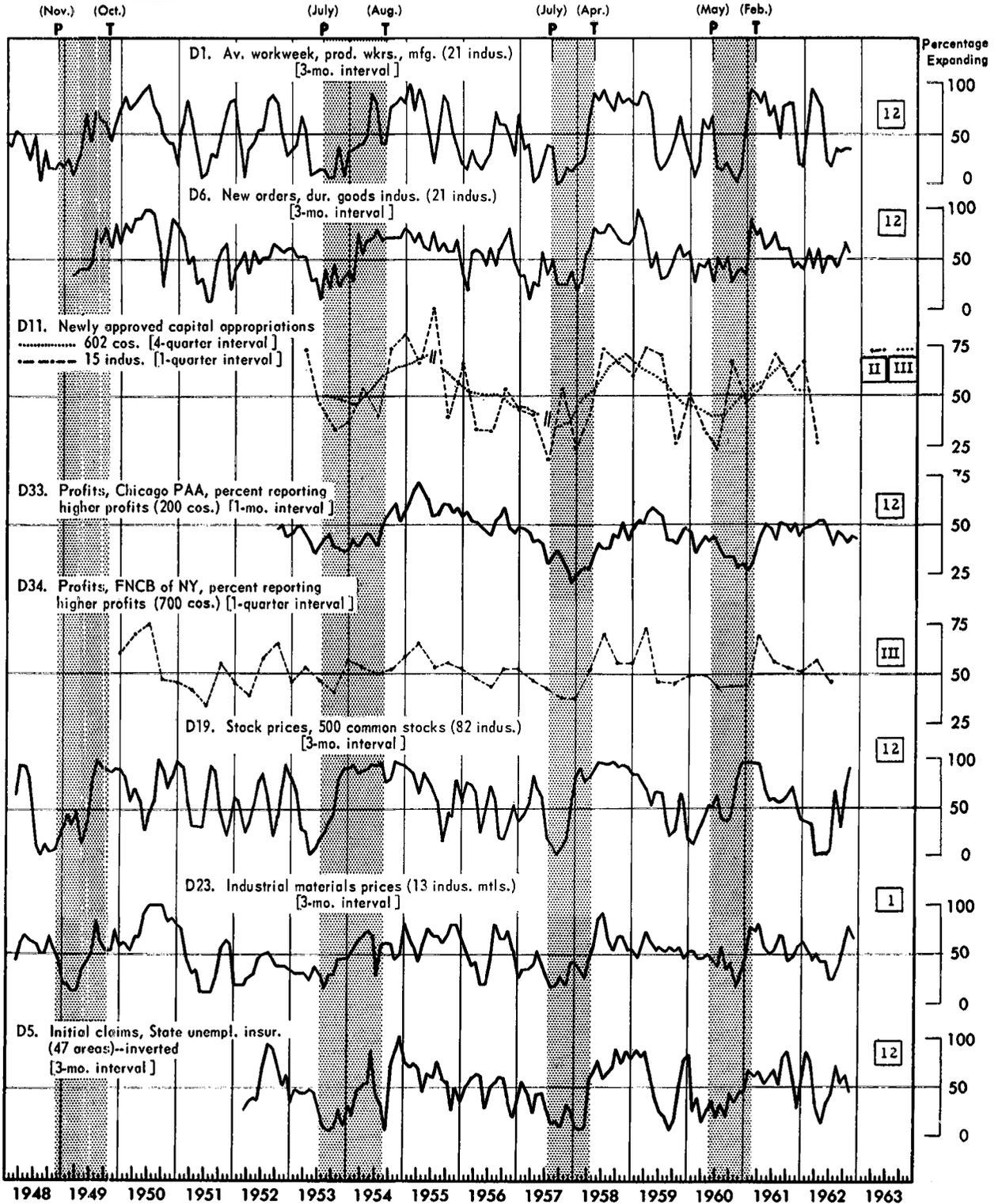
<sup>2</sup>2 series were not available and 2 series were omitted because their peaks were reached during the Korean War and such peaks were disregarded in this distribution.

**CHART 2**

**DIFFUSION INDEXES: 1948 TO PRESENT**

**A**

**NBER Leading Indicators**



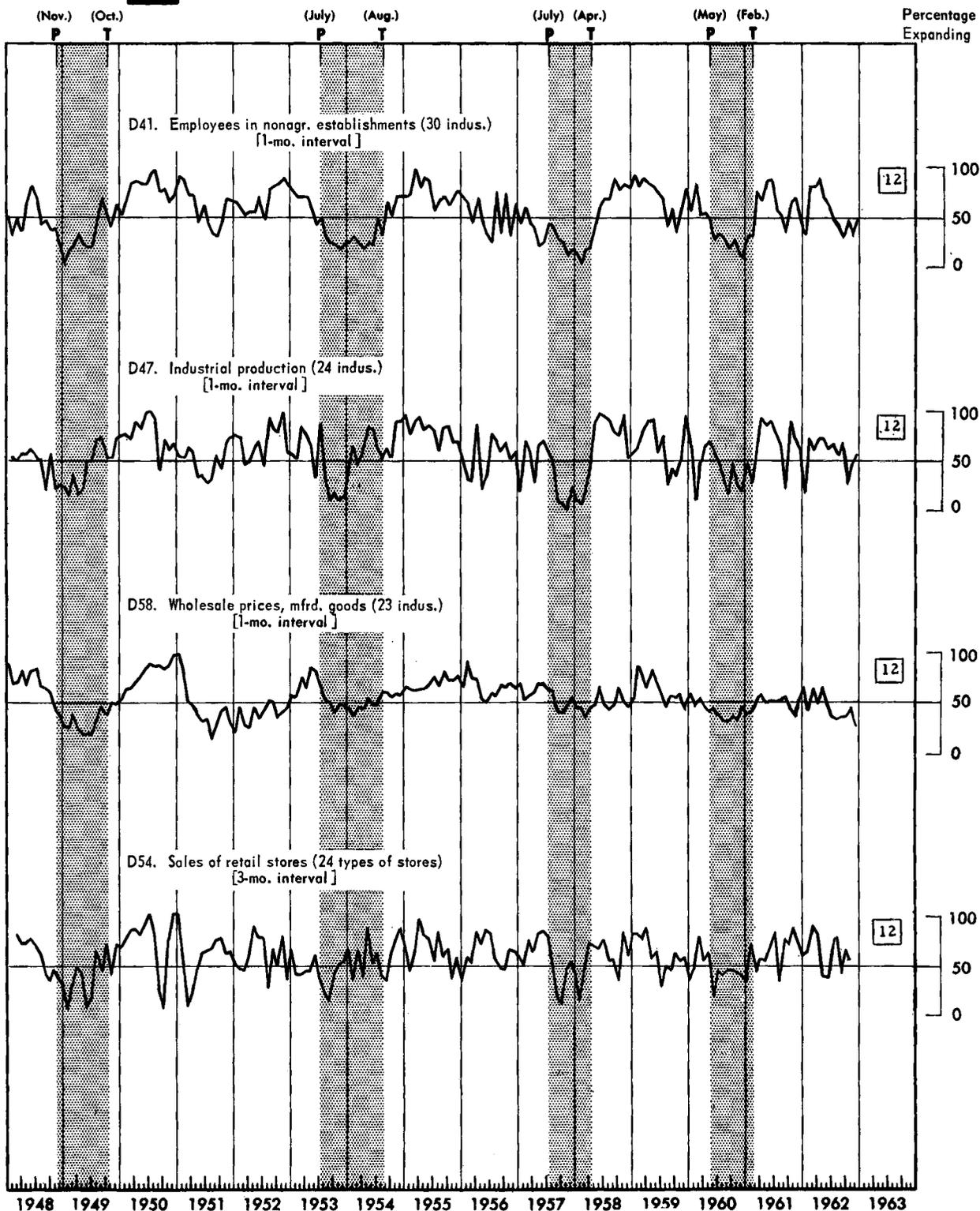
See "How to Read the Time Series Charts," page 4.

CHART 2

DIFFUSION INDEXES: 1948 TO PRESENT—Con.

B

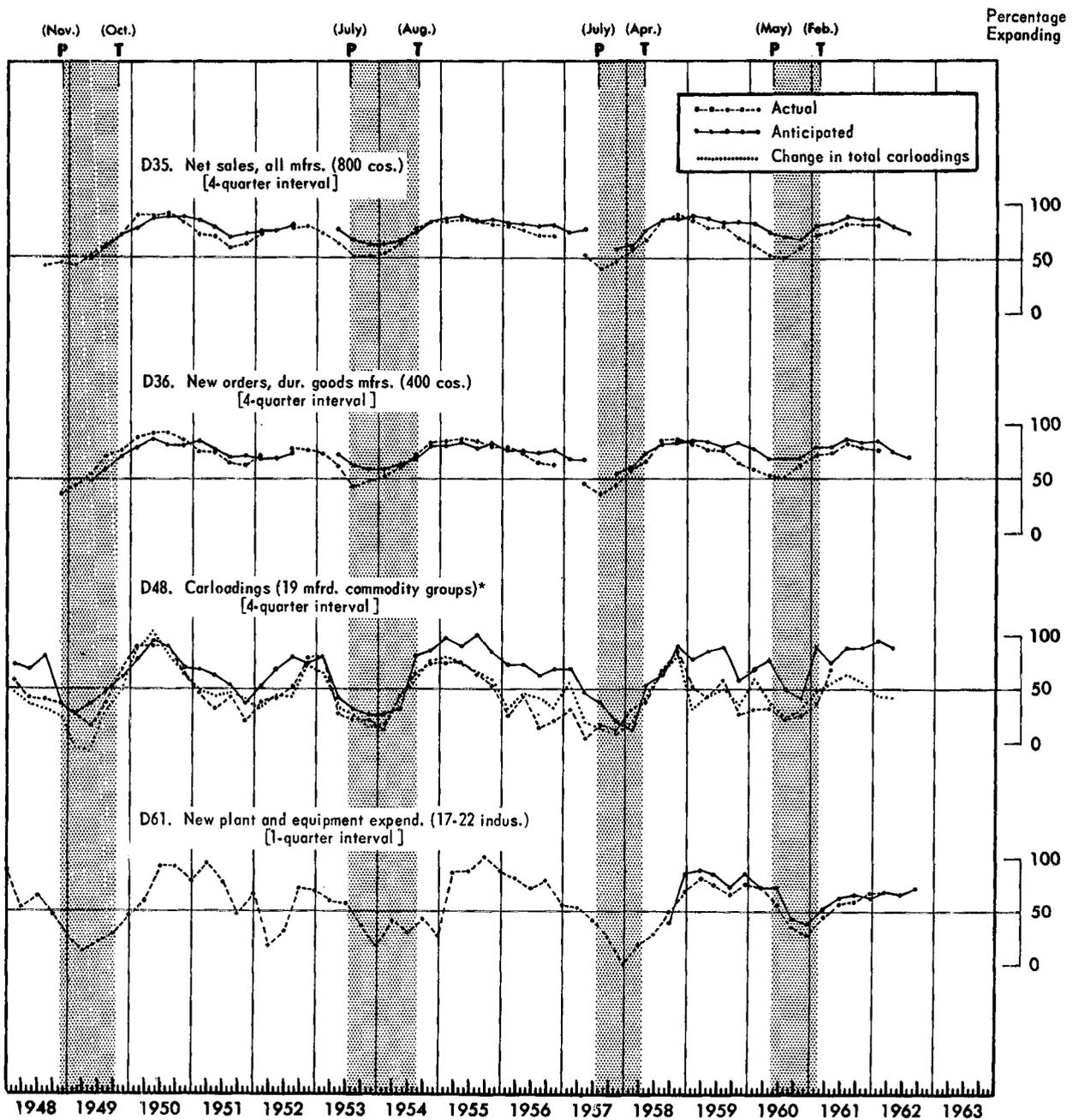
NBER Roughly Coincident Indicators



See "How to Read the Time Series Charts," page 4.

**CHART 3**

**DIFFUSION INDEXES, ACTUAL AND ANTICIPATED: 1948 TO PRESENT**



Data are centered within intervals. Latest data are as follows:

Series number and date of survey	Latest interval shown	
	Actual	Anticipated
D35, D36 (October 1962)...	3rd Q 1961 - 3rd Q 1962	1st Q 1962 - 1st Q 1963
D48 (September 1962) .....	4th Q 1960 - 4th Q 1961	4th Q 1961 - 4th Q 1962
D61 (August 1962).....	1st Q 1962 - 2nd Q 1962	3rd Q 1962 - 4th Q 1962

\*Increase of 500,000 carloadings plotted at 100; no change at 50; decrease of 500,000 carloadings at 0.

Table 4.--DIFFUSION INDEXES (PERCENT RISING) FOR 12 MAJOR ECONOMIC ACTIVITIES: JANUARY 1960 TO PRESENT

Numbers are centered within intervals: 1-month figures are placed on latest month; 3-month figures are centered on the middle month; 4-quarter figures are centered in the middle quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D11a, D19, D23, and D33, which require no adjustment, and D34 and D58, which are adjusted only for the index. Table 6 identifies the components for most of the indexes shown. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading indexes						
	D1. Average workweek, manufacturing (21 industries)		D6. Value of manufacturers' new orders, durable goods industries (21 industries)		D11. Newly approved capital appropriations		D33. Profits, Chicago PAA (200 companies)
	1-month interval	3-month interval	1-month interval	3-month interval	a. 602 companies	b. 15 industries	
					4-quarter interval	1-quarter interval	1-month interval
1960							
January.....	21.4	31.0	28.6	57.1		50.0	46
February.....	19.0	7.1	61.9	28.6	44		36
March.....	35.7	21.4	14.3	47.6			40
April.....	38.1	66.7	57.1	42.9		33.3	44
May.....	78.6	54.8	54.8	50.0	40		42
June.....	19.0	69.0	28.6	28.6			44
July.....	40.5	16.7	38.1	52.4		23.3	39
August.....	26.2	14.3	71.4	38.1	40		34
September.....	19.0	23.8	33.3	52.4			34
October.....	78.6	9.5	28.6	26.2		66.7	34
November.....	16.7	2.4	61.9	35.7	48		28
December.....	7.1	14.3	28.6	42.9			30
1961							
January.....	85.7	54.8	52.4	33.3		46.7	27
February.....	78.6	95.2	47.6	90.5	54		31
March.....	69.0	90.5	78.6	76.2			37
April.....	83.3	81.0	52.4	81.0		53.3	46
May.....	50.0	92.9	59.5	61.9	58		50
June.....	90.5	69.0	57.1	66.7			48
July.....	40.5	78.6	59.5	76.2		70.0	42
August.....	42.9	45.2	73.8	61.9	65		51
September.....	38.1	78.6	57.1	61.9			50
October.....	69.0	81.0	57.1	61.9		56.7	47
November.....	78.6	81.0	57.1	42.9	52		50
December.....	38.1	21.4	28.6	47.6			44
1962							
January.....	11.9	19.0	71.4	42.9		66.7	48
February.....	78.6	61.9	57.1	61.9	52		49
March.....	76.2	95.2	45.2	42.9			50
April.....	92.9	85.7	50.0	61.9		26.7	52
May.....	26.2	76.2	42.9	38.1	(NA)		52
June.....	38.1	23.8	38.1	52.4			48
July.....	28.6	19.0	81.0	52.4		(NA)	40
August.....	33.3	35.7	33.3	42.9			46
September.....	71.4	r33.3	33.3	r52.4			45
October.....	r7.1	r35.7	r71.4	66.7			42
November.....	r73.8	p35.7	r47.6	p57.1			44
December.....	p47.6		p33.3				43
1963							
January.....							
February.....							
March.....							
April.....							
May.....							
June.....							

Table 4.—DIFFUSION INDEXES (PERCENT RISING) FOR 12 MAJOR ECONOMIC ACTIVITIES: JANUARY 1960 TO PRESENT--Continued

Numbers are centered within intervals: 1-month figures are placed on latest month; 3-month figures are centered on the middle month; 4-quarter figures are centered in the middle quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D11a, D19, D23, and D33, which require no adjustment, and D34 and D58, which are adjusted only for the index. Table 6 identifies the components for most of the indexes shown. "r" indicates revised; "p", preliminary.

Year and month	NBER Leading indexes--Continued						
	D34. Profits, mfg., FNCB (around 700 corporations)	D19. Index of stock prices, 500 common stocks (82 industries) <sup>1</sup>			D23. Index of industrial materials prices (13 industrial materials)		D5. Average weekly initial claims for unemployment insurance, State programs (47 areas)
	1-quarter interval	1-month interval	3-month interval	1-month interval	3-month interval	1-month interval	3-month interval
1960							
January.....	49	28.5	27.1	69.2	53.8	34.0	83.3
February.....		11.2	11.8	42.3	53.8	54.8	26.2
March.....		33.5	27.6	46.2	46.2	10.6	40.5
April.....	49	52.4	41.2	53.8	46.2	47.9	14.9
May.....		36.5	52.4	50.0	50.0	38.3	29.8
June.....		75.9	50.6	57.7	46.2	37.2	38.3
July.....	43	32.9	63.5	46.2	38.5	55.3	19.1
August.....		76.5	38.8	46.2	57.7	17.0	34.0
September.....		15.3	36.5	42.3	34.6	68.1	21.3
October.....	44	23.5	42.4	23.1	42.3	42.6	45.7
November.....		89.4	76.5	46.2	15.4	36.2	36.2
December.....		80.7	93.8	26.9	30.8	53.2	46.8
1961							
January.....	44	87.0	96.3	38.5	46.2	59.6	46.8
February.....		96.3	96.3	69.2	76.9	31.9	68.1
March.....		86.0	95.1	80.8	73.1	80.9	61.7
April.....	69	72.6	93.9	65.4	80.8	40.4	66.0
May.....		81.1	70.7	53.8	57.7	48.9	53.2
June.....		40.2	57.3	46.2	50.0	58.5	61.7
July.....	56	42.1	57.9	50.0	53.8	51.1	68.1
August.....		81.1	54.9	76.9	69.2	61.7	61.7
September.....		39.6	55.5	53.8	69.2	46.8	80.9
October.....	53	45.7	62.2	38.5	42.3	78.7	87.2
November.....		87.8	72.6	30.8	46.2	74.5	66.0
December.....		56.1	52.4	65.4	57.7	19.1	38.3
1962							
January.....	51	26.2	39.6	73.1	61.5	57.4	68.1
February.....		74.4	37.8	34.6	53.8	93.6	87.2
March.....		48.2	32.9	46.2	42.3	38.3	78.7
April.....	56	9.1	0.0	38.5	50.0	51.1	29.8
May.....		1.2	1.2	53.8	42.3	36.2	12.8
June.....		1.2	1.2	23.1	42.3	16.0	36.2
July.....	46	67.7	8.5	30.8	23.1	70.2	44.7
August.....		78.0	67.1	42.3	23.1	55.3	72.3
September.....		34.8	31.1	50.0	42.3	44.7	53.2
October.....	(NA)	6.7	72.6	57.7	65.4	44.7	61.7
November.....		98.8	90.2	69.2	79.2	78.7	44.7
December.....		84.8		37.5	<sup>2</sup> 66.7	23.4	
1963							
January.....				<sup>2</sup> 58.3			
February.....							
March.....							
April.....							
May.....							
June.....							

<sup>1</sup>The diffusion index is based on 86 components through January 1960; on 85 components, February 1960 to November 1960, and on 82 components thereafter. 19 components and 5 composites, representing an additional 22 components, are shown in the direction-of-change table (table 6C).

<sup>2</sup>January 16, 1963.

Table 4.--DIFFUSION INDEXES (PERCENT RISING) FOR 12 MAJOR ECONOMIC ACTIVITIES: JANUARY 1960 TO PRESENT--Continued

Numbers are centered within intervals: 1-month figures are placed on latest month; 3-month figures are centered on the middle month; 4-quarter figures are centered in the middle quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D11a, D19, D23, and D33, which require no adjustment, and D34 and D58, which are adjusted only for the index. Table 6 identifies the components for most of the indexes shown. "r" indicates revised; "p", preliminary.

Year and month	NBER Roughly Coincident indexes						
	D41. Number of employees in nonagricultural establishments (30 industries)		D47. Index of industrial production (24 industries)		D54. Sales of retail stores (24 types of stores)		D58. Index of wholesale prices (23 mfg. indus.)
	1-month interval	3-month interval	1-month interval	3-month interval	1-month interval	3-month interval	1-month interval
1960							
January.....	56.7	80.0	64.6	64.6	68.8	37.5	60.3
February.....	83.3	81.7	12.5	35.4	50.0	47.9	45.6
March.....	53.3	66.7	50.0	43.8	45.8	79.2	56.8
April.....	55.0	58.3	64.6	77.1	79.2	54.2	46.7
May.....	50.0	40.0	68.8	79.2	14.6	62.5	40.4
June.....	30.0	38.3	60.4	66.7	60.4	20.8	45.4
July.....	35.0	25.0	50.0	35.4	50.0	45.8	39.6
August.....	30.0	25.0	31.2	10.4	41.7	41.7	32.5
September.....	21.7	30.0	18.8	20.8	50.0	45.8	32.0
October.....	30.0	23.3	47.9	12.5	62.5	45.8	36.9
November.....	20.0	15.0	27.1	20.8	37.5	43.8	32.5
December.....	11.7	16.7	20.8	12.5	31.2	41.7	46.7
1961							
January.....	33.3	11.7	47.9	29.2	58.3	35.4	38.6
February.....	33.3	41.7	29.2	54.2	43.8	72.9	41.3
March.....	75.0	60.0	58.3	79.2	79.2	43.8	54.6
April.....	66.7	83.3	89.6	91.7	27.1	58.3	59.7
May.....	85.0	90.0	83.3	93.8	43.8	54.2	49.1
June.....	86.7	83.3	87.5	83.3	79.2	70.8	51.9
July.....	58.3	83.3	75.0	100.0	41.7	83.3	50.4
August.....	53.3	46.7	64.6	60.4	68.8	35.4	52.1
September.....	36.7	50.0	22.9	70.8	33.3	75.0	58.1
October.....	65.0	63.3	87.5	75.0	79.2	70.8	41.2
November.....	70.0	68.3	70.8	83.3	66.7	89.6	36.9
December.....	53.3	53.3	62.5	52.1	45.8	70.8	53.3
1962							
January.....	33.3	60.0	18.8	33.3	62.5	60.4	66.8
February.....	81.7	75.0	70.8	43.8	62.5	64.6	41.3
March.....	81.7	91.7	60.4	83.3	62.5	91.7	63.3
April.....	90.0	88.3	70.8	81.2	60.4	81.2	48.8
May.....	70.0	80.0	70.8	75.0	39.6	39.6	66.4
June.....	63.3	68.3	62.5	79.2	22.9	37.5	47.6
July.....	48.3	55.0	66.7	62.5	83.3	62.5	33.0
August.....	40.0	25.0	54.2	r72.9	56.2	81.2	32.5
September.....	30.0	25.0	r66.7	r37.5	50.0	r41.7	34.2
October.....	r48.3	r16.7	r29.2	r37.5	r29.2	r66.7	34.7
November.....	r31.7	p35.0	r47.9	p35.4	r87.5	p56.2	r45.6
December.....	p50.0		p56.2		p41.7		p27.2
1963							
January.....							
February.....							
March.....							
April.....							
May.....							
June.....							

## Analytical Measures

Table 5.—DIFFUSION INDEXES, ACTUAL AND ANTICIPATED, FOR 4 MANUFACTURING ACTIVITIES: JANUARY 1960 TO PRESENT

Numbers are centered within intervals: 4-quarter figures are centered in the middle quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. "r" indicates revised; "p", preliminary.

Year and month	D35. Net sales, manufactures (800 companies) 4-quarter interval		D36. New orders, durable manufactures (400 companies) 4-quarter interval		D48. Freight carloadings (19 manufactured commodity groups) 4-quarter interval			D61. New plant and equipment expenditures (16 industries) 1-quarter interval	
	Actual	Anticipated	Actual	Anticipated	Actual	Anticipated	Change in total (000)	Actual	Anticipated
1960									
January.....								75.0	84.4
February.....	61	82	58	76	31.6	68.4	+96		
March.....								71.9	71.9
April.....									
May.....	53	74	51	68	31.6	78.9	-103		
June.....								56.2	71.9
July.....									
August.....	50	70	50	68	21.1	50.0	-279		
September.....								34.4	43.8
October.....									
November.....	60	68	62	68	26.3	42.1	-212		
December.....									
1961									
January.....								28.1	37.5
February.....	72	82	72	78	36.8	89.5	-28		
March.....								46.9	53.1
April.....									
May.....	74	83	73	78	68.4	73.7	r+79		
June.....								56.2	62.5
July.....									
August.....	82	88	82	86	(NA)	89.5	+125		
September.....								59.4	65.6
October.....									
November.....	81	86	78	82		89.5	+62		
December.....									
1962									
January.....								65.6	62.5
February.....	80	88	76	84		94.7	-67		
March.....								68.8	68.8
April.....									
May.....	(NA)	80	(NA)	74		89.5	r-96		
June.....									
July.....									
August.....		74		70				(NA)	65.6
September.....									
October.....									
November.....									71.9
December.....									
1963									
January.....									
February.....									
March.....									
April.....									
May.....									
June.....									

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT

A.--(D1) Average Workweek of Production Workers, Manufacturing

21 industry components	3-month spans																																									
	1960						1961						1962						1963																							
	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun						
Percent rising.....	69	17	14	24	10	2	14	55	95	90	81	93	69	79	45	79	81	81	21	19	62	95	86	76	24	19	36	33	36	36												
All manufacturing industries.....	+	-	-	-	-	-	-	o	+	+	+	+	+	+	-	+	+	+	-	-	+	+	+	o	-	-	o	-	+	-												
DURABLE GOODS INDUSTRIES																																										
Ordinance and accessories.....	+	o	+	-	-	-	-	+	+	+	o	o	-	+	+	+	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+							
Lumber and wood products.....	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Furniture and fixtures.....	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Stone, clay, and glass products.....	+	o	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Primary metal products.....	+	o	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Fabricated metal products.....	+	o	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Machinery, except electrical.....	+	o	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Electrical machinery.....	+	o	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Transportation equipment.....	+	-	-	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Instruments and related products.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Miscellaneous manufacturing industries.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
NONDURABLE GOODS INDUSTRIES																																										
Food and kindred products.....	+	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Tobacco manufactures.....	-	-	o	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Textile mill products.....	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Apparel and allied products.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Paper and allied products.....	o	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Printing and publishing.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Chemicals and allied products.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Petroleum and coal products.....	+	o	o	+	-	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Rubber products.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Leather and leather products.....	+	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							

+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted by issuing agency before the direction of change is determined.



Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT--Continued

C.--(D19) Index of Stock Prices, 500 Common Stocks

24 industry components <sup>1</sup>	3-month spans																																			
	1960						1961						1962						1963																	
	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun
Percent rising <sup>2</sup> .....	51	64	39	36	42	76	94	96	96	95	94	71	57	58	55	56	62	73	52	40	38	33	0	1	1	8	67	31	73	90						
500 stock prices.....	+	+	-	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	+	-	+	+						
Mining and smelting.....	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Coal, bituminous.....	+	+	+	-	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Food composite.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Tobacco (cigarette manufacturing).....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Textile weavers.....	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Paper.....	+	+	-	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+						
Publishing.....	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Chemicals.....	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Drugs.....	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Oil composite.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Building materials composite.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Steel.....	o	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Metal fabricating.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Machinery composite.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Office and business equipment.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Electric household appliances.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Electronics.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Automobiles.....	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Radio and television broadcasters.....	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Telephone companies.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Electric companies.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Natural gas distributors.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Retail stores composite.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Life insurance.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						

+ = rising; o = unchanged; - = falling. Series components are not seasonally adjusted.

<sup>1</sup>The 24 components shown here include 19 of the more important industries and 5 composites representing an additional 22 of the industries used in computing the diffusion index.

<sup>2</sup>Based on 85 industries, July 1960 to November 1960, and on 82 industries thereafter.

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT--Continued

D.--(D23) Index of Industrial Materials Prices

13 industrial materials components	3-month spans																																						
	1960						1961						1962						1963																				
	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun			
Percent rising.....	46	38	58	35	42	15	31	46	77	73	81	58	50	54	69	69	42	46	58	62	54	42	50	42	42	23	23	42	65	79	67								
All industrial materials.....	-	-	-	-	-	-	-	+	+	+	+	-	-	-	+	+	-	-	+	+	-	-	-	-	-	-	+	+	+	+	+	+	+						
Copper scrap (lb.).....	+	+	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Lead scrap (lb.).....	o	o	+	-	-	-	+	+	+	+	+	o	o	o	o	o	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Steel scrap (ton).....	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Tin (lb.).....	+	+	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Zinc (lb.).....	o	o	o	o	o	-	-	-	-	-	o	o	o	o	o	o	o	+	+	+	o	+	+	+	o	o	o	o	o	o	o	o	o						
Burlap (yd.).....	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Cotton (lb.), 14 market average.....	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Print cloth (yd.), average.....	+	-	-	-	-	-	-	-	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Wool tops (lb.).....	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Hides (lb.).....	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Rosin (100 lb.).....	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Rubber (lb.).....	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Tallow (lb.).....	-	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						

+ = rising; o = unchanged; - = falling. Series components are not seasonally adjusted.  
<sup>1</sup>Da<sup>1</sup> for January 16.

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT--Continued

E.--(D5) Average Weekly Initial Claims for Unemployment Insurance, State Programs

Labor market size rank	26 area components	3-month spans																													
		1960						1961						1962						1963											
		Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec	Oct-Jan	Nov-Feb	Dec-Mar	Jan-Apr	Feb-May	Mar-Jun	Apr-Jul	May-Aug	Jun-Sep	Jul-Oct	Aug-Nov	Sep-Dec
	Percent rising .....	38	19	34	21	46	36	47	47	68	62	66	53	62	68	62	81	87	66	38	68	87	79	30	13	36	45	72	53	62	45
	47 labor market areas <sup>1</sup> .....	+	-	-	-	+	-	-	-	+	+	+	+	-	+	-	+	+	+	-	+	+	+	-	-	-	+	+	-	+	-
	NORTHEAST REGION																														
7	Boston.....	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Buffalo*.....	-	-	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	Newark.....	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
1	New York.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Paterson.....	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
4	Philadelphia*.....	-	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8	Pittsburgh**.....	-	+	-	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
23	Providence**.....	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NORTH CENTRAL REGION																														
3	Chicago.....	-	-	-	-	o	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+
18	Cincinnati.....	-	-	-	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
10	Cleveland.....	-	-	-	-	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
26	Columbus.....	-	+	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
5	Detroit**.....	+	-	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
25	Indianapolis.....	+	-	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
22	Kansas City.....	-	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	Milwaukee.....	+	-	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	Minneapolis.....	-	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9	St. Louis.....	+	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	SOUTH REGION																														
20	Atlanta.....	-	-	+	-	+	-	-	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+
12	Baltimore.....	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	Dallas.....	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
14	Houston.....	-	-	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	WEST REGION																														
2	Los Angeles.....	-	-	-	-	+	+	-	-	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
24	Portland.....	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
6	San Francisco.....	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	Seattle.....	-	-	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

- = rising; o = unchanged; + = falling. Because this series usually rises when general business activity falls and falls when business rises, it is inverted to show a comparable activity pattern. Series components are seasonally adjusted by the Bureau of the Census before the direction of change is determined. NA = not available.

\*Denotes areas of substantial unemployment (6 percent or more) in December 1962 as designated by BES.

\*\*Denotes areas of substantial (6 percent or more) and persistent unemployment in December 1962 as designated by BES.

<sup>1</sup>The percent rising is based on 47 labor market areas. Directions of change are shown separately for only the largest 26.

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT..Continued

F.--(D41) Number of Employees in Nonagricultural Establishments

30 industry components	1-month spans																																																
	1960						1961						1962						1963																														
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun													
Percent rising.....	35	30	22	30	20	12	33	33	75	67	85	87	58	53	37	65	70	53	33	82	82	90	70	63	48	40	30	48	32	50																			
All nonagricultural establishments.....	o	-	-	-	-	-	-	-	+	+	+	+	+	o	-	+	+	-	-	+	+	+	+	+	+	-	+	+	-	o																			
Ordnance and accessories.....	+	+	o	o	+	o	o	o	+	+	+	+	+	o	+	+	+	-	-	+	o	o	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									
Lumber and wood products.....	-	-	-	-	-	-	+	+	+	+	+	+	+	o	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Furniture and fixtures.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Stone, clay, and glass products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Primary metal products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Fabricated metal products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Machinery, except electrical.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Electrical machinery.....	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Transportation equipment.....	-	-	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Instruments and related products.....	-	-	-	-	-	-	-	-	o	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Miscellaneous manufacturing industries.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Food and kindred products.....	+	-	+	+	-	-	-	-	+	-	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Tobacco manufactures.....	+	-	+	+	-	-	-	-	o	+	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Textile mill products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Apparel and related products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Paper and allied products.....	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Printing and publishing.....	+	o	-	+	+	-	o	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Chemicals and allied products.....	o	o	-	o	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Petroleum and coal products.....	o	o	-	o	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Rubber products.....	-	+	-	o	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Leather and leather products.....	-	+	-	o	-	-	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Mining.....	-	+	-	-	-	-	-	-	+	-	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Contract construction.....	+	-	-	-	-	-	+	-	+	-	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Transportation and public utilities.....	-	-	-	-	-	-	-	-	+	-	-	-	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Wholesale trade.....	+	+	-	-	-	-	+	-	+	-	-	-	-	-	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Retail trade.....	+	-	+	-	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Finance, insurance, real estate.....	+	+	+	+	+	+	+	+	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Service.....	-	+	o	+	+	+	+	+	o	o	+	+	+	+	+	+	+	+	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
Federal government.....	+	+	o	o	-	-	+	+	+	+	+	+	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								
State and local government.....	o	+	+	+	+	+	+	+	+	+	+	+	o	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								

+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted by issuing agency before the direction of change is determined.

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS OVER SPECIFIED TIME SPANS AND PERCENT OF SERIES RISING: JULY 1960 TO PRESENT..Continued

G.--(D47) Index of Industrial Production

24 industry components	1-month spans																																				
	1960						1961						1962						1963																		
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	
Percent rising <sup>1</sup> .....	50	31	19	48	27	21	48	29	58	90	83	88	75	65	23	88	71	62	19	71	60	71	71	62	67	54	67	29	48	56							
All industrial production.....	o	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	o	-	+	o						
DURABLE GOODS																																					
Primary and fabricated metals.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Primary metal products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fabricated metal products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Machinery and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Machinery, except electrical.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Electrical machinery.....	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transportation equipment.....	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Instruments and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Clay, glass, and lumber.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Clay, glass, and stone.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lumber and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Furniture and miscellaneous.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Furniture and fixtures.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Miscellaneous.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
NONDURABLE GOODS																																					
Textile, apparel, and leather.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Textile mill products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Apparel products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leather and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Paper and printing.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Paper and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Printing and publishing.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Chemicals, petroleum, and rubber.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Chemicals and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rubber and plastics products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foods, beverages, and tobacco.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Food and beverages.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tobacco products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
MINERALS																																					
Coal.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Crude oil and natural gas.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metal mining.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stone and earth minerals.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted by issuing agency before the direction of change is determined. NA = Not available.

<sup>1</sup>The direction of change is shown for industry groups where actual data for separate industries are not available; however, estimates for each industry are used to compute the percent rising. The percent rising is based on 24 industry components.

Analytical Measures



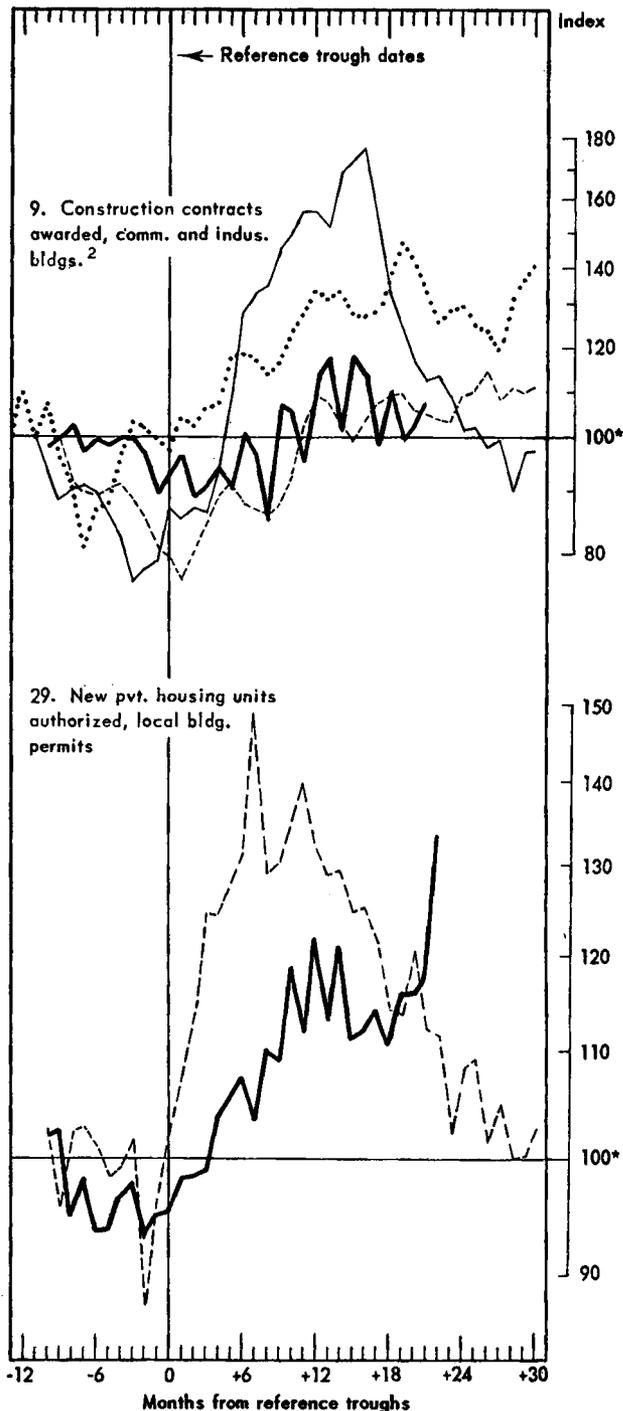
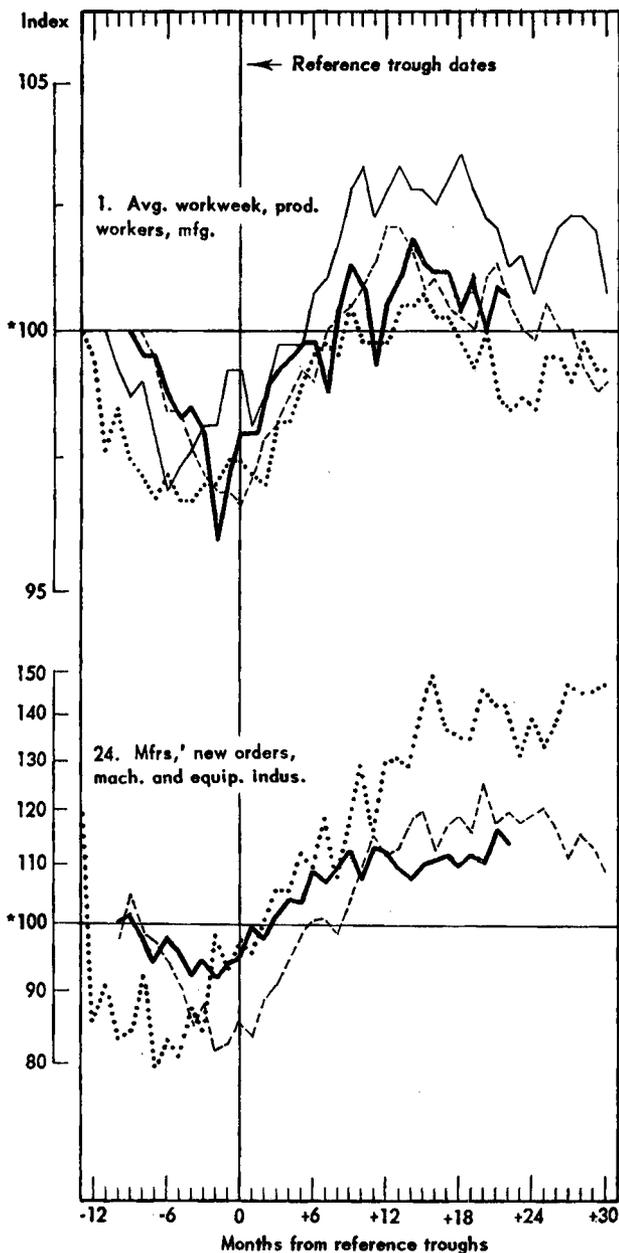
**CHART 4**

**COMPARISONS OF REFERENCE CYCLE PATTERNS**

Percent of reference peak levels measured from the reference peak date preceding the trough of each of 4 recent business cycles to 30 months after the trough of each cycle.

PERIOD COVERED

- Nov. 1948 - Apr. 1952 (Reference trough: Oct. 1949)
- ..... July 1953 - Feb. 1957 (Reference trough: Aug. 1954)
- - - July 1957 - Oct. 1960 (Reference trough: Apr. 1958)
- May 1960 - present<sup>1</sup> (Reference trough: Feb. 1961)



\*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months of previous expansions are shown in table 7.

<sup>2</sup>For the 1949, 1954, and 1958 cycles a 3-term moving average is shown.

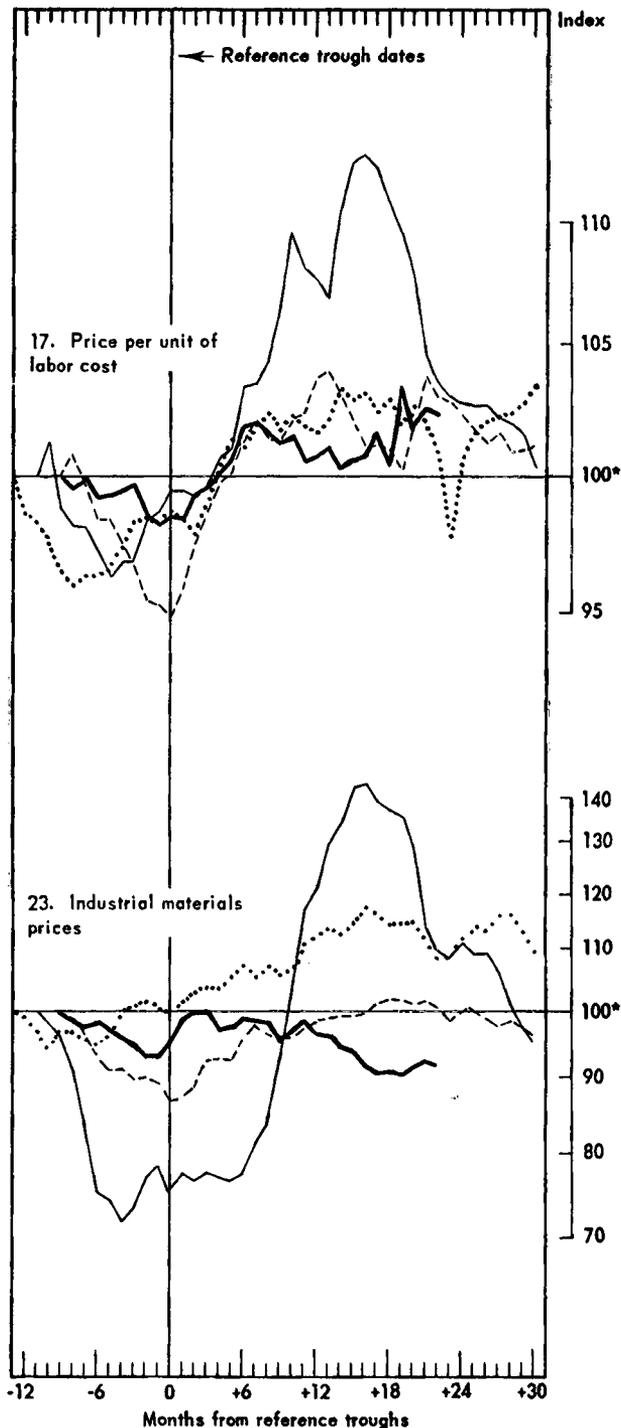
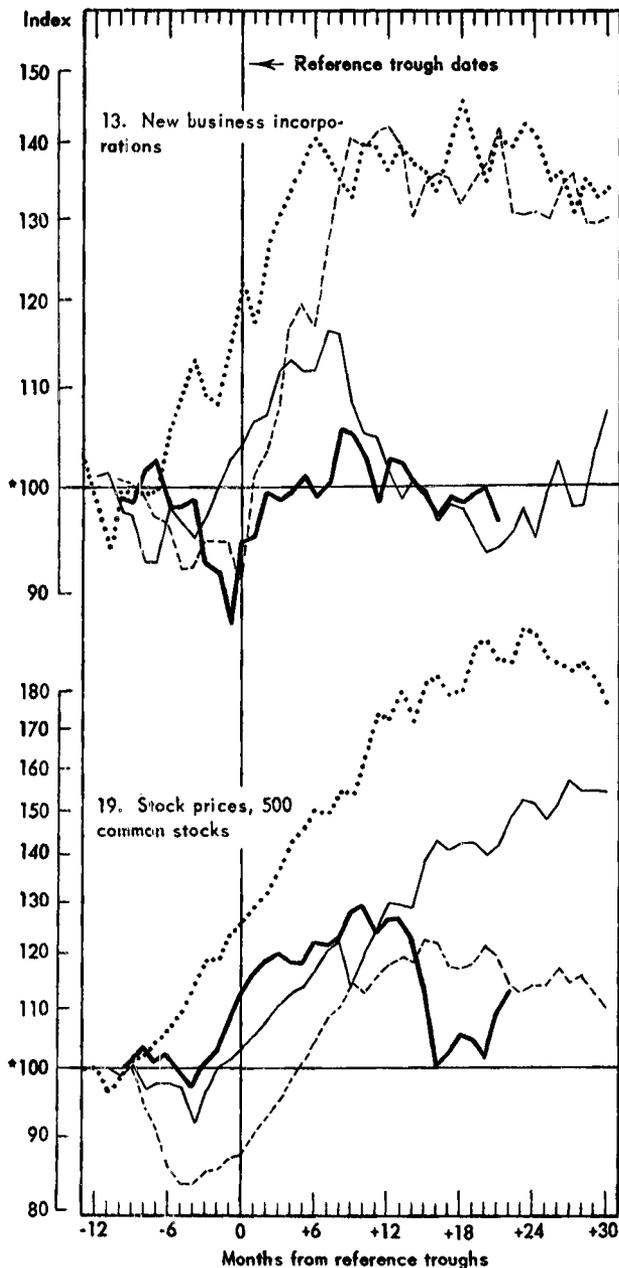
**CHART 4**

**COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.**

Percent of reference peak levels measured from the reference peak date preceding the trough of each of 4 recent business cycles to 30 months after the trough of each cycle.

**PERIOD COVERED**

- Nov. 1948 - Apr. 1952 (Reference trough: Oct. 1949)
- ..... July 1953 - Feb. 1957 (Reference trough: Aug. 1954)
- - - July 1957 - Oct. 1960 (Reference trough: Apr. 1958)
- May 1960 - present<sup>1</sup> (Reference trough: Feb. 1961)



\*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD numbers are shown in appendix C.

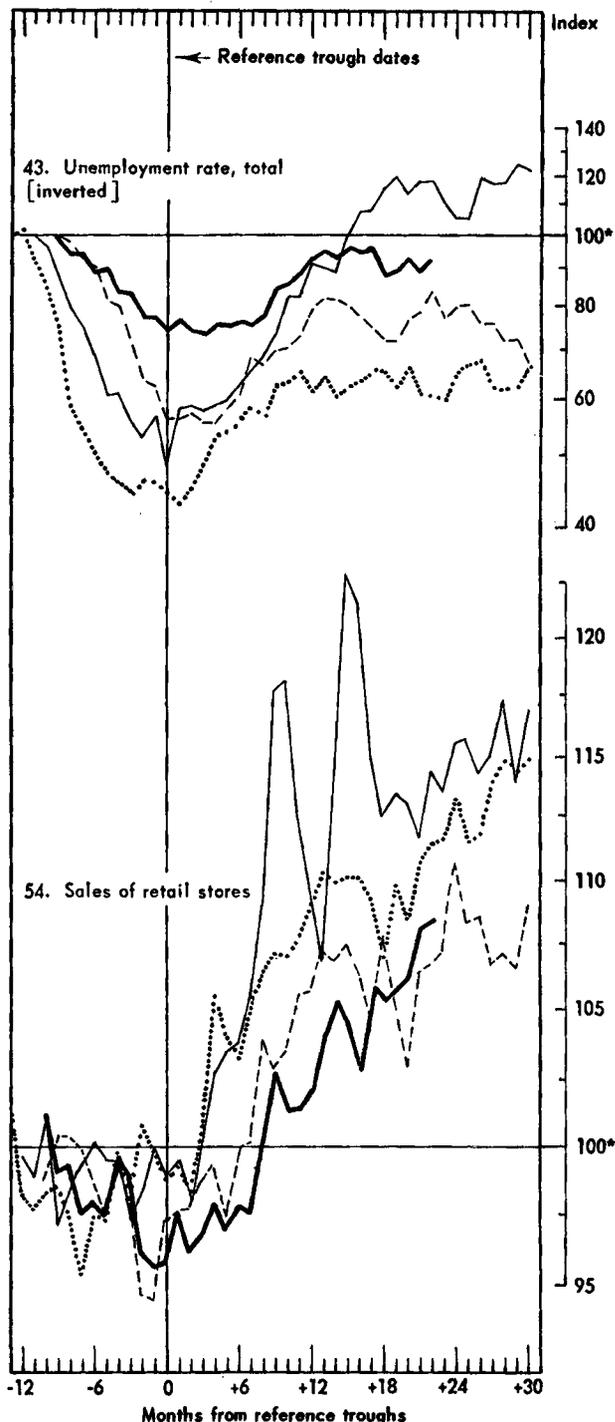
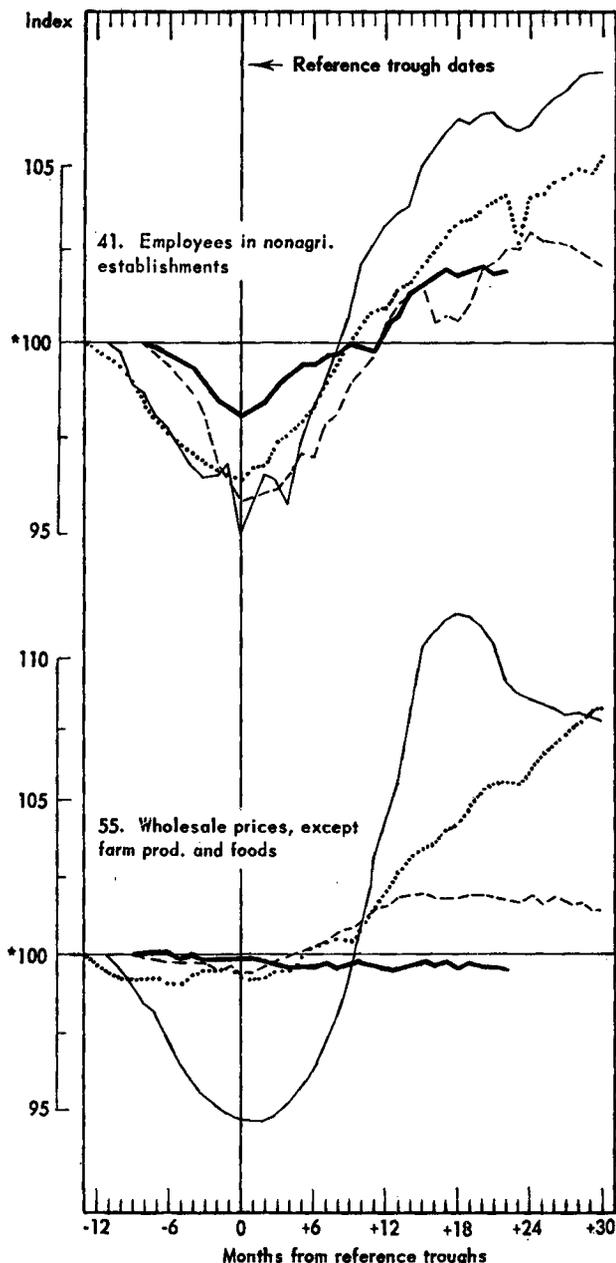
<sup>1</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months of previous expansions are shown in table 7.

**CHART 4** COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.

Percent of reference peak levels measured from the reference peak date preceding the trough of each of 4 recent business cycles to 30 months after the trough of each cycle.

PERIOD COVERED

- Nov. 1948 - Apr. 1952 (Reference trough: Oct. 1949)
- ..... July 1953 - Feb. 1957 (Reference trough: Aug. 1954)
- - - July 1957 - Oct. 1960 (Reference trough: Apr. 1958)
- May 1960 - present<sup>1</sup> (Reference trough: Feb. 1961)



\*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months of previous expansions are shown in table 7.

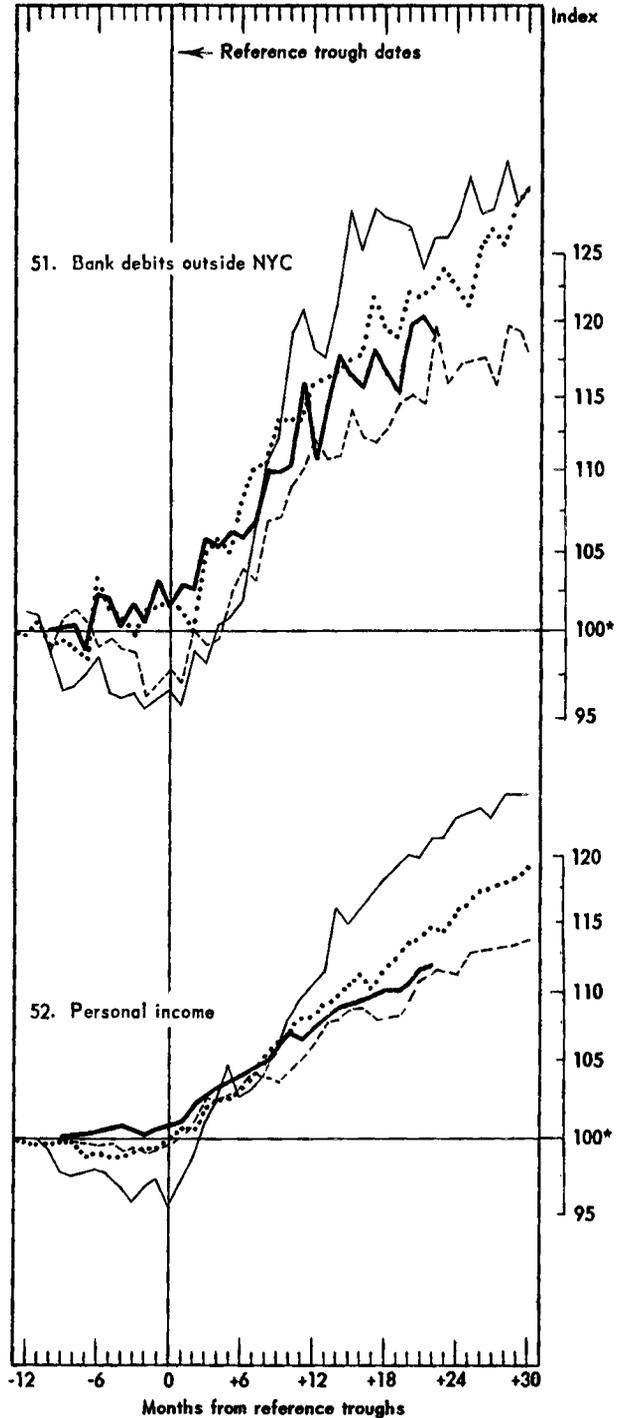
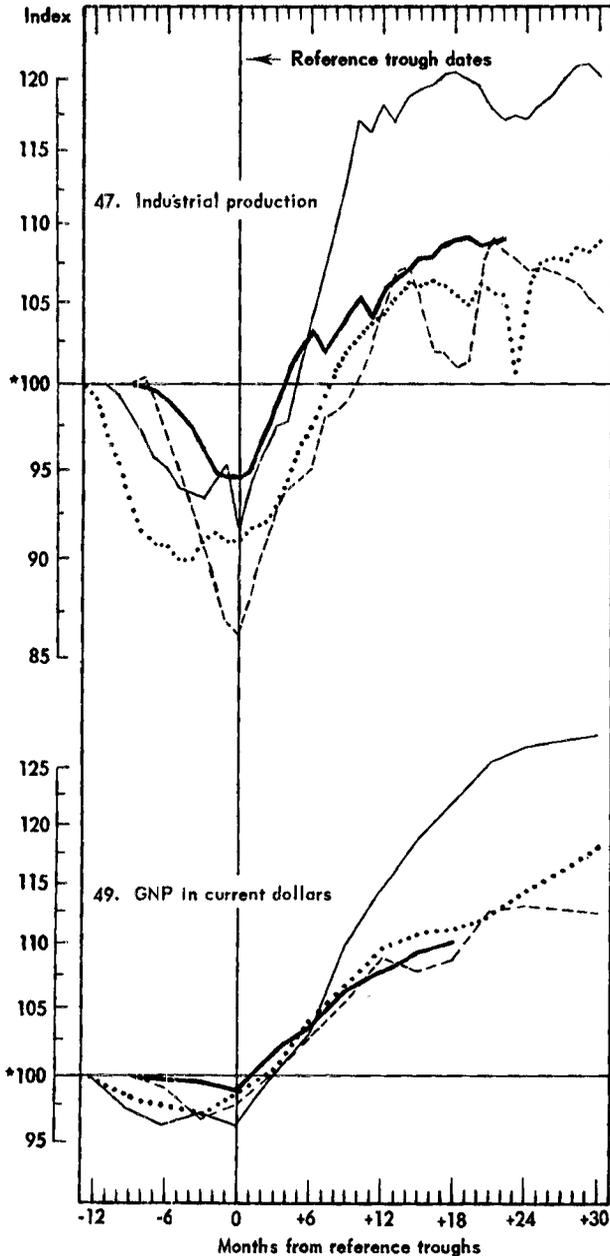
**CHART 4**

**COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.**

Percent of reference peak levels measured from the reference peak date preceding the trough of each of 4 recent business cycles to 30 months after the trough of each cycle.

PERIOD COVERED

- Nov. 1948 - Apr. 1952 (Reference trough: Oct. 1949)
- ..... July 1953 - Feb. 1957 (Reference trough: Aug. 1954)
- - - July 1957 - Oct. 1960 (Reference trough: Apr. 1958)
- May 1960 - present<sup>1</sup> (Reference trough: Feb. 1961)



\*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months of previous expansions are shown in table 7.

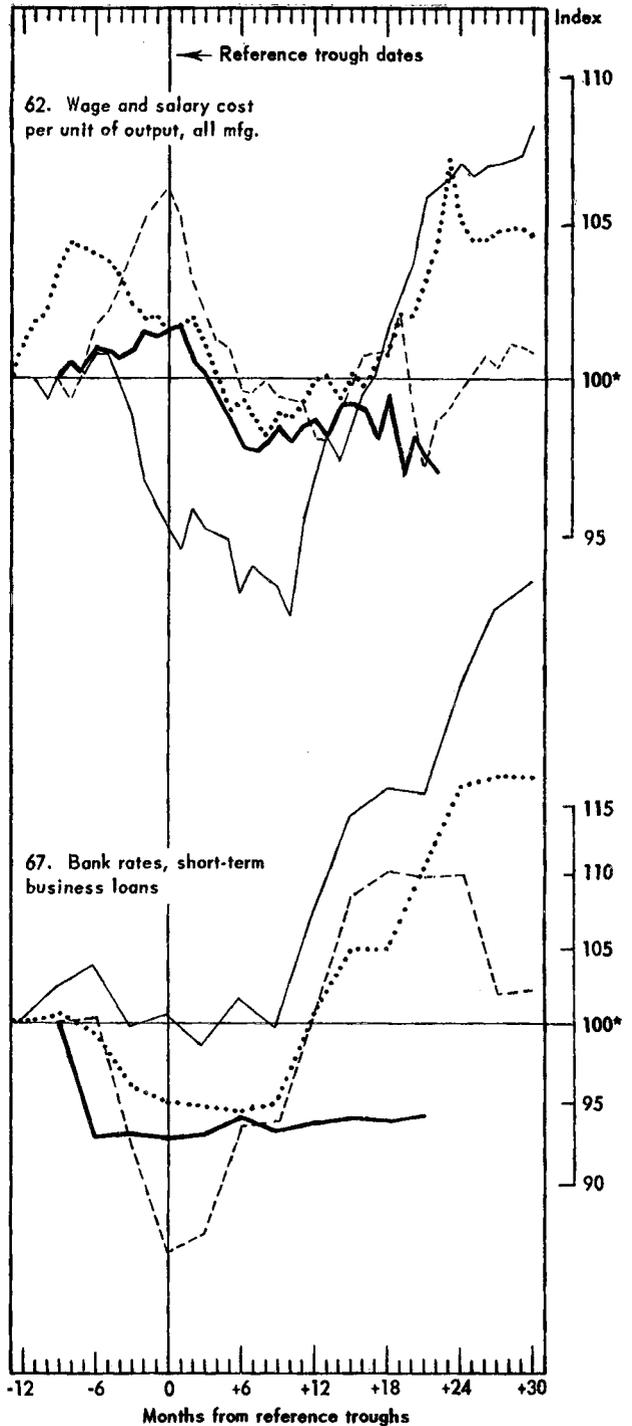
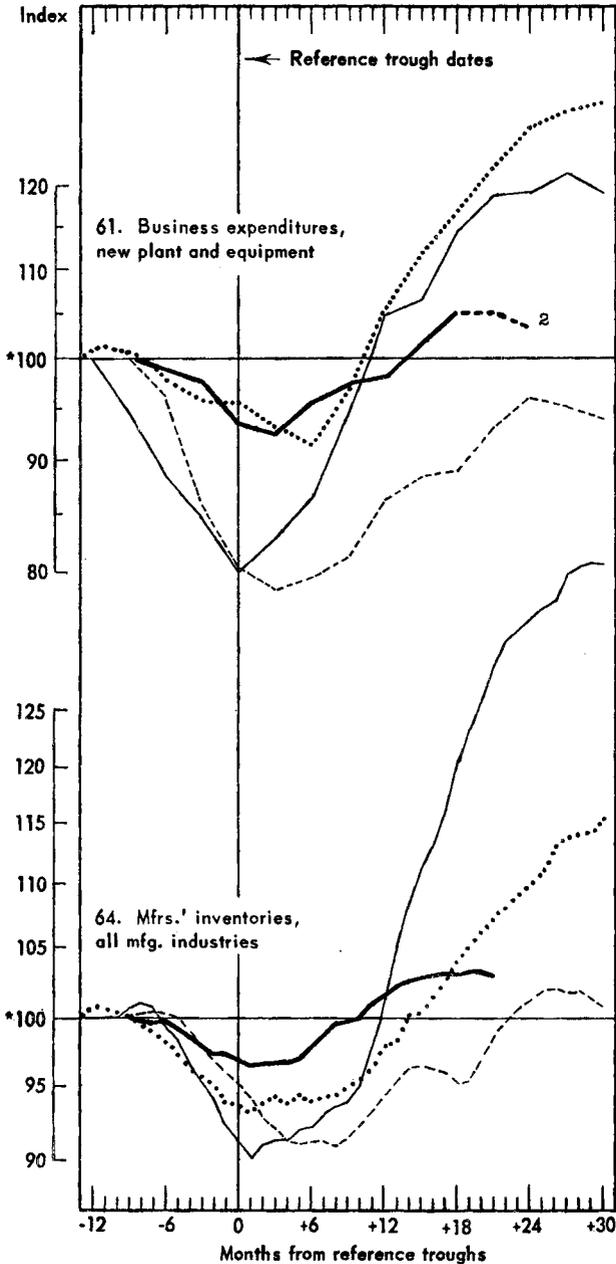
**CHART 4**

**COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.**

Percent of reference peak levels measured from the reference peak date preceding the trough of each of 4 recent business cycles to 30 months after the trough of each cycle.

PERIOD COVERED

- Nov. 1948 - Apr. 1952 (Reference trough: Oct. 1949)
- ..... July 1953 - Feb. 1957 (Reference trough: Aug. 1954)
- - - - July 1957 - Oct. 1960 (Reference trough: Apr. 1958)
- May 1960 - present<sup>1</sup> (Reference trough: Feb. 1961)



\*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup> See table 1 for latest month in current period. Percent changes for this month and the comparable months of previous expansions are shown in table 7.

<sup>2</sup> Last two quarters anticipated.

**CHART 5**

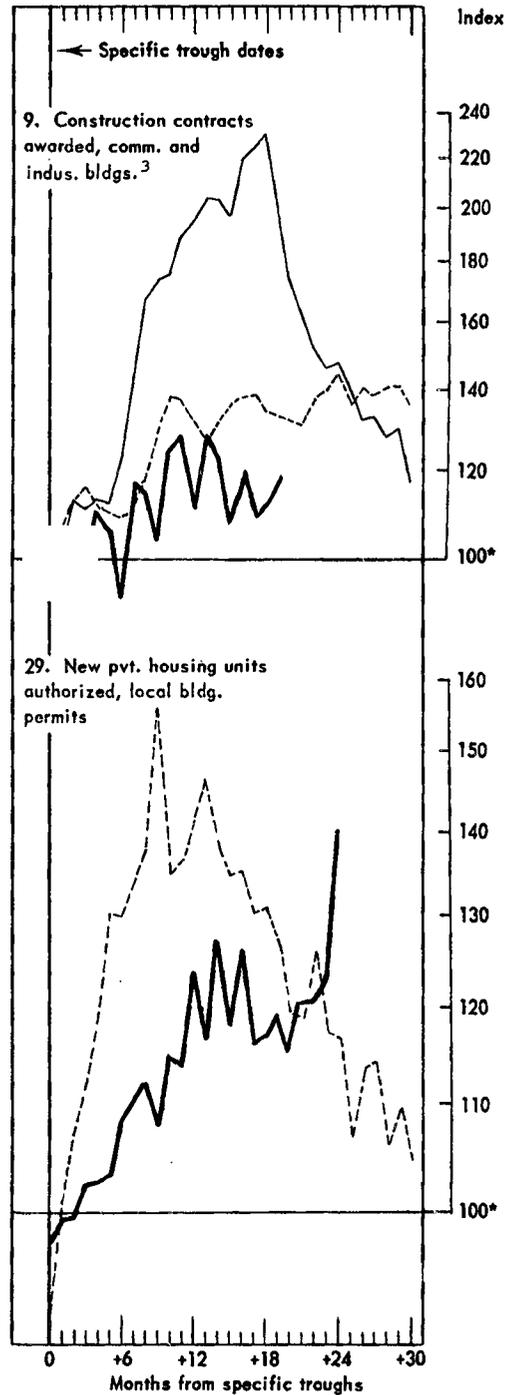
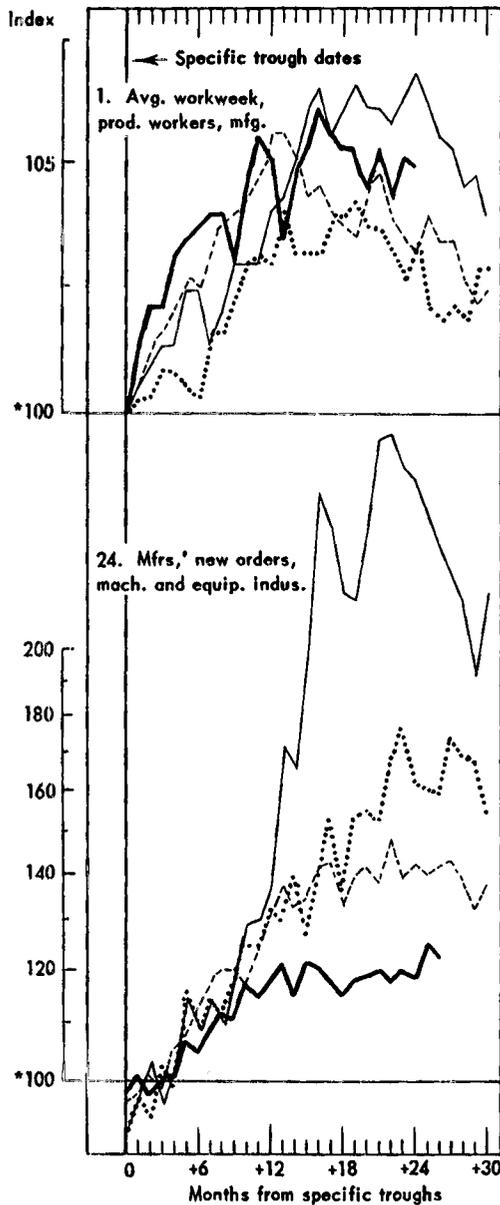
**COMPARISONS OF SPECIFIC CYCLE PATTERNS**

Percent of specific trough levels measured from the specific trough date of each series in 4 recent expansions to 30 months after each specific trough.

**PERIOD COVERED**

From specific trough dates<sup>1</sup> to 30 months later.<sup>2</sup> Specific trough dates are the dates each series actually begins the expansion identified with the reference trough of--

1949 ——— 1958 - - - - -  
1954 ······ 1961 ———



\*Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific trough quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See appendix B for specific dates.

<sup>2</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months after the specific troughs of previous expansions are shown in table 9.

<sup>3</sup>For the 1949 and 1958 cycles, a 3-term moving average is shown. For the current cycle, changes are based on the low (L) shown in table 1.

**CHART 5**

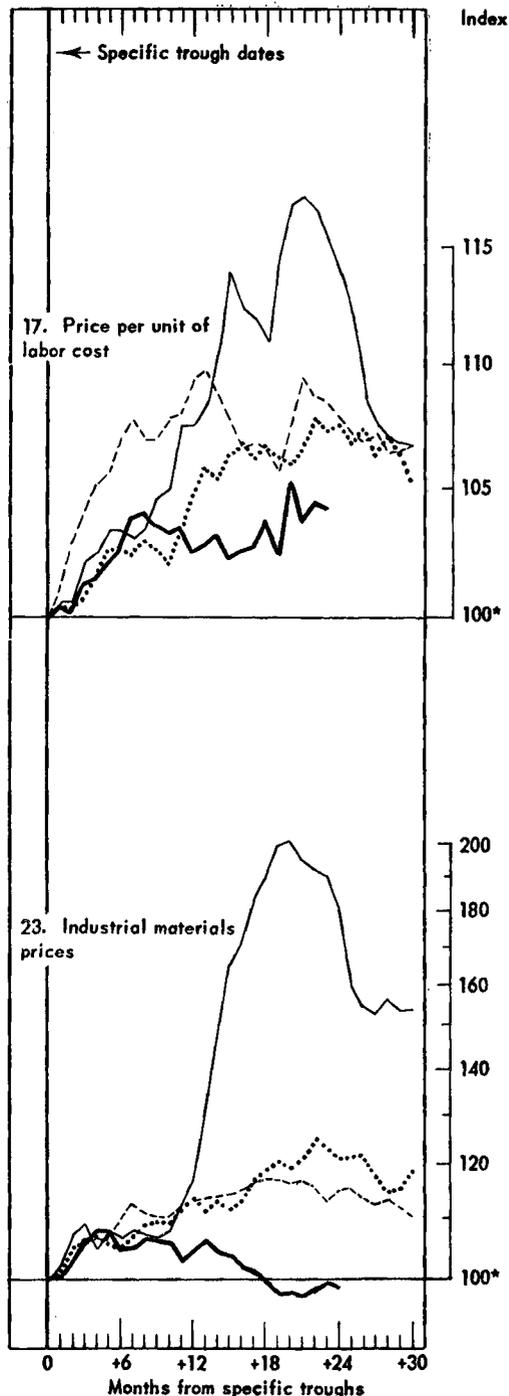
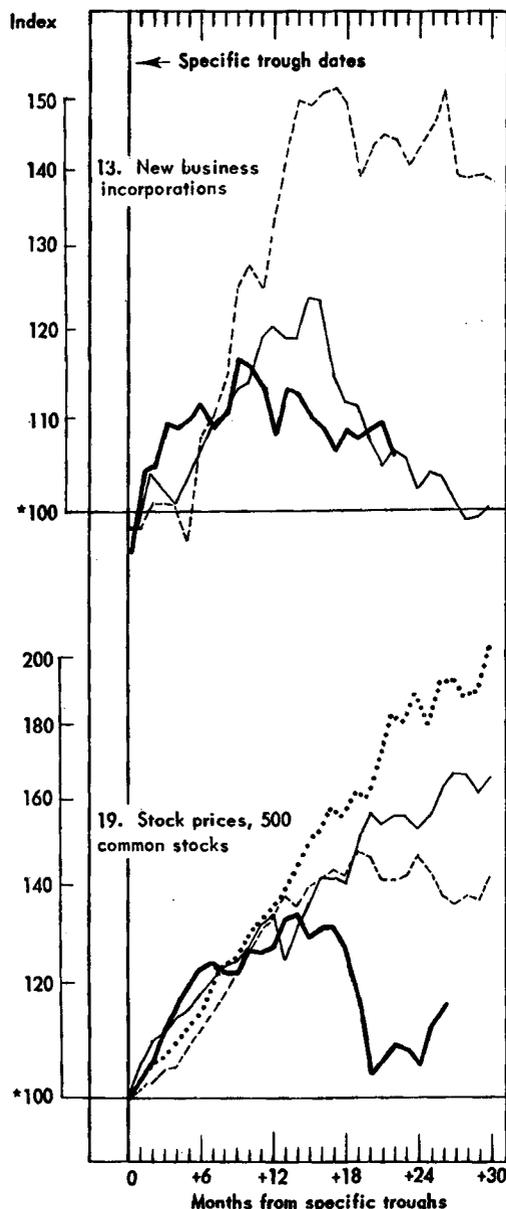
**COMPARISONS OF SPECIFIC CYCLE PATTERNS--Con.**

Percent of specific trough levels measured from the specific trough date of each series in 4 recent expansions to 30 months after each specific trough.

**PERIOD COVERED**

From specific trough dates<sup>1</sup> to 30 months later.<sup>2</sup> Specific trough dates are the dates each series actually begins the expansion identified with the reference trough of--

1949 ——— 1958 - - - -  
1954 ······ 1961 ———



\*Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific trough quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See appendix B for specific dates.

<sup>2</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months after the specific troughs of previous expansions are shown in table 9.

Percent changes for this month and the comparable months after the specific

**CHART 5**

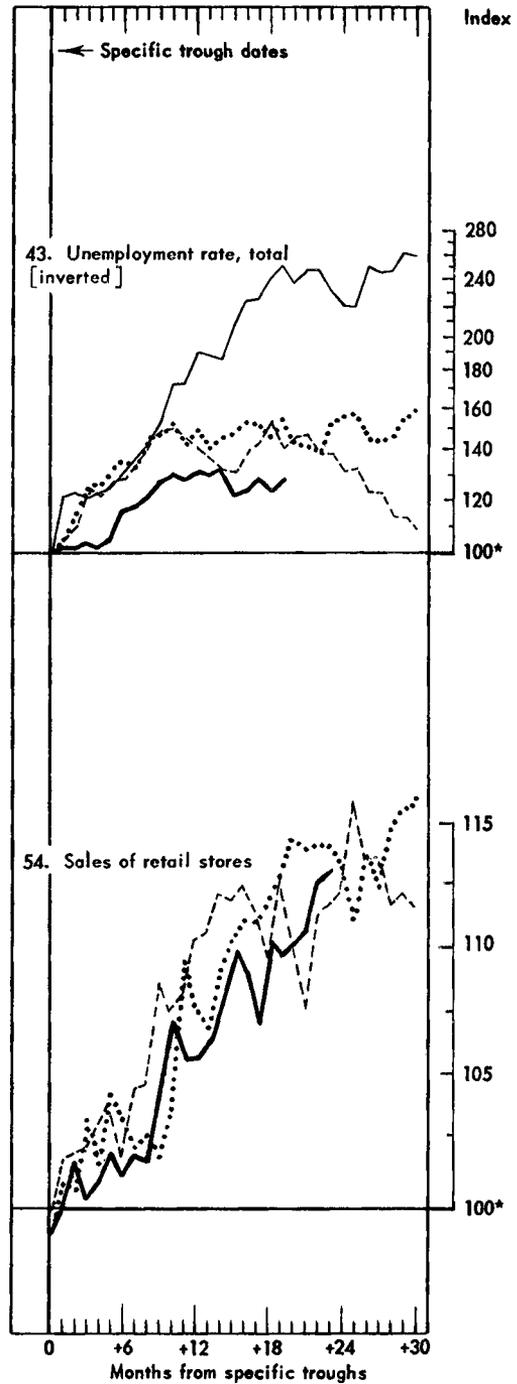
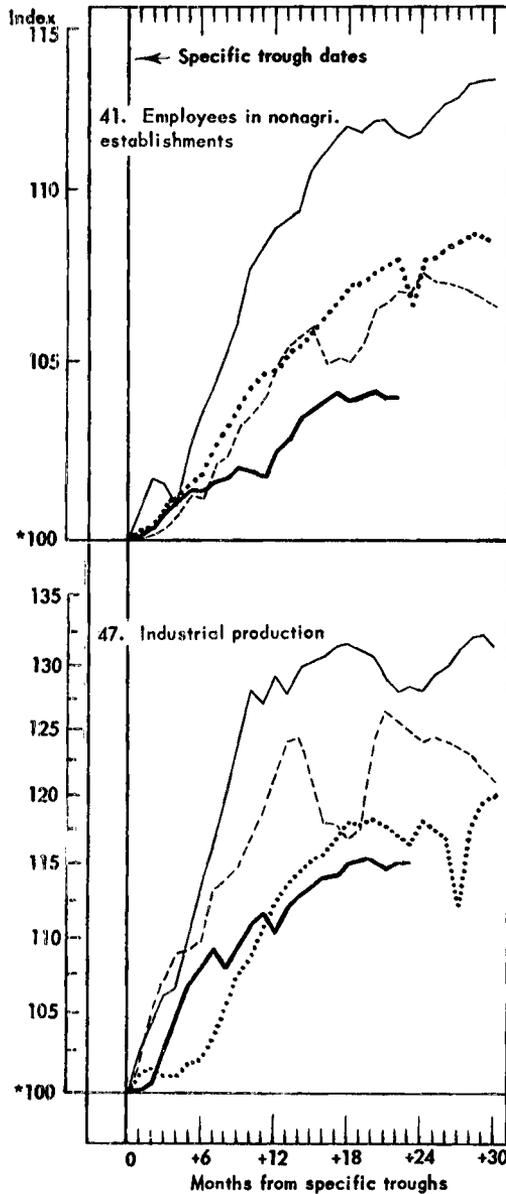
**COMPARISONS OF SPECIFIC CYCLE PATTERNS--Con.**

Percent of specific trough levels measured from the specific trough date of each series in 4 recent expansions to 30 months after each specific trough.

**PERIOD COVERED**

From specific trough dates<sup>1</sup> to 30 months later.<sup>2</sup> Specific trough dates are the dates each series actually begins the expansion identified with the reference trough of--

1949 ——— 1958 - - - - -  
 1954 ······ 1961 ———



\*Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific trough quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See appendix B for specific dates.

<sup>2</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months after the specific troughs of previous expansions are shown in table 9.

**CHART 5**

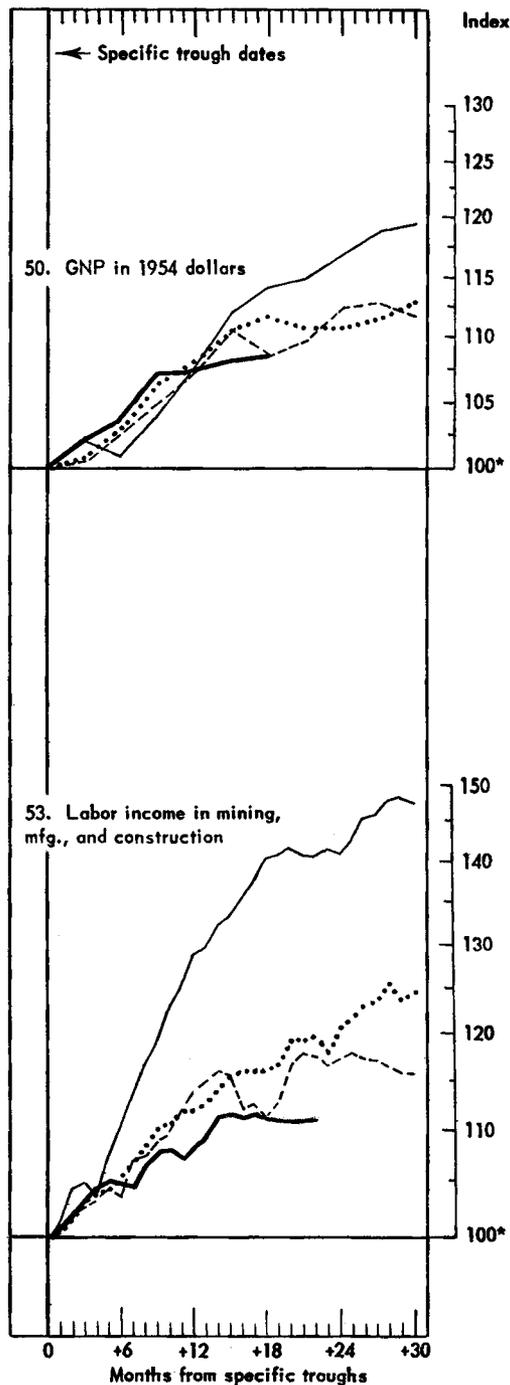
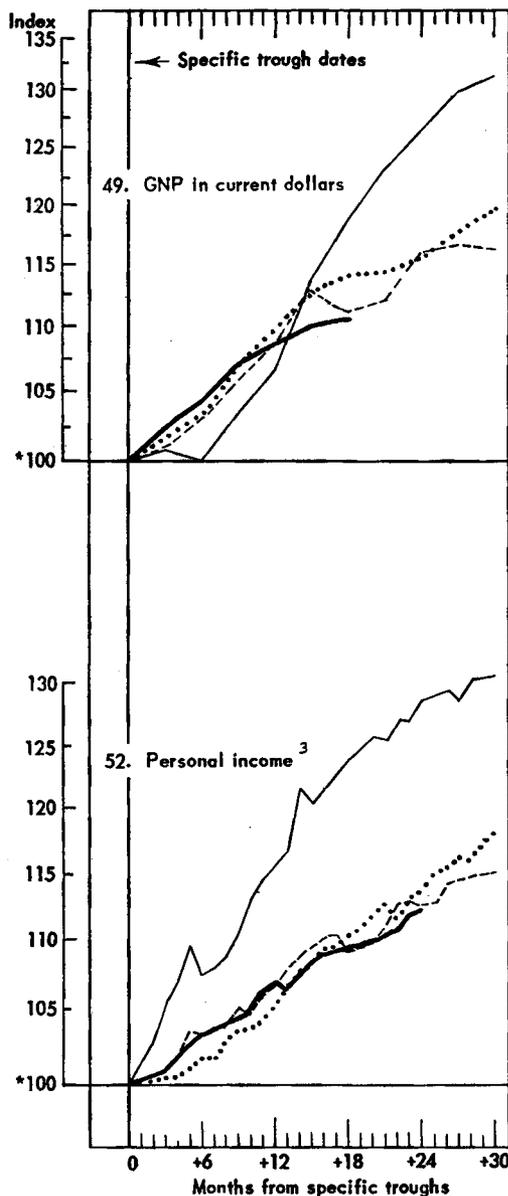
**COMPARISONS OF SPECIFIC CYCLE PATTERNS--Con.**

Percent of specific trough levels measured from the specific trough date of each series in 4 recent expansions to 30 months after each specific trough.

**PERIOD COVERED**

From specific trough dates<sup>1</sup> to 30 months later.<sup>2</sup> Specific trough dates are the dates each series actually begins the expansion identified with the reference trough of--

1949 ——— 1958 - - - - -  
1954 ..... 1961 ———



\*Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific trough quarter is set at "100". MCD numbers are shown in appendix C.

<sup>1</sup>See appendix B for specific dates.

<sup>2</sup>See table 1 for latest month in current period. Percent changes for this month and the comparable months after the specific troughs of previous expansions are shown in table 9.

<sup>3</sup>For the current cycle, changes are based on the low (L) shown in table 1.

Table 7.--PERCENT OF REFERENCE PEAK LEVELS AS MEASURED AT DESIGNATED MONTHS AFTER THE REFERENCE TROUGH DATES IN THE 9 MOST RECENT EXPANSIONS

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 1, 19, 23, 41, 43, 47, 52, 55, 62, 64 and 66), the figure for the reference peak month is used as the base. For series with an MCD of "3" or more (series 2, 3, 6, 7, 9, 13, 14, 17, 24, 29, 51, and 54), the average of the 3 months centered on the reference peak month is used as the base. The base for quarterly series (series 16, 49, 50, 61, 67) is the reference peak quarter. See also MCD footnote to appendix C.

Selected series	Months after reference trough <sup>1</sup>	Percent of reference peak prior to reference expansion beginning in--								
		July 1921	July 1924	Nov. 1927	Mar. 1933	June 1938	Oct. 1949	Aug. 1954	Apr. 1958	Feb. 1961
<b>NBER LEADING INDICATORS</b>										
1. Average workweek of production workers, manufacturing.....	22	NA	96.0	100.4	73.8	94.0	101.3	98.5	100.5	100.5
2. Accession rate, manufacturing.....	21	94.0	37.7	90.2	84.1	76.0	104.9	86.3	117.3	92.9
3. Layoff rate, manufacturing (inverted).....	21	38.9	45.9	104.9	56.5	63.5	101.9	70.0	118.8	129.6
6. Value of manufacturers' new orders, durable goods industries.....	22	147.4	110.8	86.2	47.7	96.7	156.2	126.7	112.7	110.3
7. New private nonfarm dwelling units started..	22	161.1	129.0	59.8	24.4	155.7	119.1	105.2	120.0	115.3
9. Construction contracts awarded for commercial and industrial bldgs., floor space <sup>2</sup> ...	21	45.0	112.5	113.5	19.4	85.0	111.5	132.6	105.7	108.0
13. Number of new business incorporations.....	21	85.6	96.3	112.0	61.2	81.6	94.2	140.9	141.9	96.7
14. Current liabilities of bus. failures (inv.)..	22	17.7	120.3	82.2	326.6	89.6	100.0	81.8	84.5	105.6
16. Corporate profits after taxes (Q).....	18	96.0	90.4	120.8	4.4	117.0	97.5	122.4	103.1	111.1
17. Price per unit of labor cost index.....	22	NA	NA	NA	NA	NA	103.7	101.0	103.1	102.5
19. Index of stock prices, 500 common stocks....	22	98.2	133.3	240.4	30.8	75.5	149.7	190.5	115.0	113.4
23. Index of industrial materials prices.....	22	67.4	88.4	97.7	178.2	89.4	110.4	109.0	100.5	92.0
24. Value of manufacturers' new orders, machinery and equipment industries.....	22	NA	NA	NA	NA	NA	NA	142.9	119.7	113.5
29. Index of new private housing units authorized by local building permits.....	22	NA	NA	NA	NA	NA	NA	NA	111.4	134.2
<b>NBER ROUGHLY COINCIDENT INDICATORS</b>										
41. Number of employees in nonagricultural establishments.....	22	90.7	95.8	105.2	81.9	98.7	106.0	104.1	102.6	101.9
43. Unemployment rate, total (inverted).....	22	NA	NA	NA	0.2	70.2	118.9	60.6	84.9	92.6
47. Index of industrial production.....	22	111.4	102.0	113.2	73.8	93.8	117.0	105.8	108.6	108.8
49. Gross national product in current dollars(Q)	18	NA	115.7	110.3	63.7	102.4	122.8	111.3	109.0	110.0
50. Gross national product in 1954 dollars (Q)..	18	NA	113.2	112.5	79.8	106.5	114.4	106.9	104.9	106.6
51. Bank debits outside NYC, 343 centers.....	22	97.2	111.9	127.7	50.5	98.0	126.0	122.0	119.6	119.2
52. Personal income.....	22	NA	113.6	113.9	63.6	100.4	121.2	114.8	111.2	112.2
54. Sales of retail stores.....	22	109.7	107.8	105.4	70.4	103.7	114.8	111.8	107.1	108.9
55. Index of wholesale prices, all commodities other than farm products and foods.....	22	68.8	94.2	91.6	84.8	95.8	109.5	105.9	101.8	99.5
<b>NBER LAGGING INDICATORS</b>										
61. Business expenditures on new plant and equipment, total (Q).....	18	56.8	104.5	124.0	34.3	84.1	114.4	116.8	89.0	105.6
62. Wage and salary cost per unit of output, total manufacturing.....	22	78.9	93.0	92.4	85.0	98.1	106.4	104.3	98.7	97.0
64. Manufacturers' inventories, book value.....	21	NA	NA	NA	72.3	100.6	128.7	108.4	98.5	103.8
66. Consumer installment debt.....	21	NA	NA	NA	59.6	119.2	165.6	136.9	119.6	115.2
67. Bank rates on short-term business loans, 19 cities (Q).....	21	89.9	91.7	121.8	66.0	92.1	115.9	111.0	110.6	93.8

NA Not available.

<sup>1</sup>Based on period from February 1961 (current trough) to latest month for which data are available.

<sup>2</sup>Except for 1961, changes are computed in a 3-term moving average of the seasonally adjusted series.

Table 8.--PERCENT CHANGE FROM REFERENCE TROUGH LEVELS AS MEASURED AT DESIGNATED MONTHS AFTER THE REFERENCE TROUGH DATES IN THE 9 MOST RECENT EXPANSIONS

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 1, 19, 23, 41, 43, 47, 52, 55, 62, 64 and 66), the figure for the reference trough month is used as the base. For series with an MCD of "3" or more (series 2, 3, 6, 7, 9, 13, 14, 17, 24, 29, 51, and 54), the average of the 3 months centered on the reference trough month is used as the base. The base for quarterly series (series 16, 49, 50, 61, 67) is the reference trough quarter. See also MCD footnote to appendix C.

Selected series	Months after reference trough <sup>1</sup>	Percent change from reference trough of expansion beginning in--								
		July 1921	July 1924	Nov. 1927	Mar. 1933	June 1938	Oct. 1949	Aug. 1954	Apr. 1958	Feb. 1961
NBER LEADING INDICATORS										
1. Average workweek of production workers, manufacturing.....	22	NA	+5.0	+2.3	-0.6	+7.8	+2.0	+1.0	+3.9	+2.5
2. Accession rate, manufacturing.....	21	NA	+75.7	+23.4	+107.0	-15.6	+18.1	+18.9	+26.5	-15.3
3. Layoff rate, manufacturing (inverted).....	21	NA	+48.1	+47.9	+78.3	+28.1	+51.9	+8.3	+95.8	+50.0
6. Value of manufacturers' new orders, durable goods industries.....	22	+108.9	-1.1	-13.7	+148.3	+60.9	+68.9	+36.3	+31.6	+19.9
7. New private nonfarm dwelling units started..	22	+64.6	+39.1	-42.5	+62.0	+65.8	-17.3	-12.0	+25.2	+28.5
9. Construction contracts awarded for commercial and industrial bldgs., floor space <sup>2</sup> ...	21	+65.2	+62.0	+30.8	+61.7	+72.2	+29.2	+36.9	+34.4	+15.9
13. Number of new business incorporations.....	21	+18.3	+30.0	+7.9	-22.8	-5.2	-9.9	+19.3	+48.6	+4.2
14. Current liabilities of bus. failures (inv.)	22	+4.9	+33.4	-10.8	+295.7	+21.7	-14.8	-14.2	+12.3	+7.3
16. Corporate profits after taxes (Q).....	18	NA	+67.9	+64.1	NA	+287.5	+24.7	+43.7	+36.3	+28.6
17. Price per unit of labor cost index.....	22	NA	NA	NA	NA	NA	+4.1	+2.2	+8.7	+4.1
19. Index of stock prices, 500 common stocks....	22	+32.8	+28.0	+83.5	+48.6	+20.2	+44.1	+50.6	+31.7	+0.8
23. Index of industrial materials prices.....	22	+61.1	+5.3	+0.2	+66.7	+33.5	+47.1	+8.8	+15.6	-3.5
24. Value of manufacturers' new orders, machinery and equipment industries.....	22	NA	NA	NA	NA	NA	NA	+49.7	+42.8	+18.2
29. Index of new private housing units authorized by local building permits.....	22	NA	NA	NA	NA	NA	NA	NA	+9.5	+38.4
NBER ROUGHLY COINCIDENT INDICATORS										
41. Number of employees in nonagricultural establishments.....	22	+31.5	+10.4	+9.6	+19.8	+10.1	+11.7	+7.8	+7.0	+3.9
43. Unemployment rate, total (inverted).....	22	NA	NA	NA	+41.8	+25.0	+147.3	+37.1	+50.3	+24.5
47. Index of industrial production.....	22	+63.3	+25.0	+22.4	+55.2	+38.6	+27.8	+16.3	+26.4	+15.7
49. Gross national product in current dollars(Q)	18	NA	+18.4	+9.9	+26.3	+16.3	+27.0	+13.4	+11.7	+10.9
50. Gross national product in 1954 dollars (Q)..	18	+17.1	+13.6	+10.0	+10.8	+16.9	+16.0	+10.1	+9.1	+8.7
51. Bank debits outside NYC, 343 centers.....	22	+25.4	+15.5	+17.5	+32.4	+17.3	+31.2	+20.0	+23.4	+16.4
52. Personal income.....	22	+29.6	+14.1	+11.3	+29.3	+12.7	+26.7	+15.0	+11.6	+11.4
54. Sales of retail stores.....	22	+14.6	+9.9	+5.4	+24.6	+25.3	+15.2	+12.6	+10.9	+13.1
55. Index of wholesale prices, all commodities other than farm products and foods.....	22	+9.2	+3.1	-1.5	+16.5	+1.2	+15.3	+6.8	+2.3	-0.3
NBER LAGGING INDICATORS										
61. Business expenditures on new plant and equipment, total (Q).....	18	+65.6	+49.7	+41.2	+100.0	+40.9	+43.0	+22.3	+10.8	+13.3
62. Wage and salary cost per unit of output, total manufacturing.....	22	-12.3	-9.6	-6.2	+15.9	-5.5	+11.5	+2.9	-7.1	-4.5
64. Manufacturers' inventories, book value.....	21	NA	NA	NA	+21.9	+6.3	+40.7	+14.9	+3.5	+6.5
66. Consumer installment debt.....	21	NA	NA	NA	+24.8	+27.8	+33.4	+32.4	+18.5	+11.4
67. Bank rates on short-term business loans, 19 cities (Q).....	21	-16.6	+4.5	+26.6	-15.3	-5.6	+15.5	+16.3	+28.1	+1.0

NA Not available.

<sup>1</sup>Based on period from February 1961 (current trough) to latest month for which data are available.

<sup>2</sup>Except for 1961, changes are computed in a 3-term moving average of the seasonally adjusted series.

Table 9.--PERCENT OF SPECIFIC PEAK LEVELS AND PERCENT CHANGE FROM SPECIFIC TROUGH LEVELS AS MEASURED AT DESIGNATED MONTHS AFTER THE SPECIFIC TROUGH DATES IN THE 9 MOST RECENT EXPANSIONS

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 1, 19, 23, 41, 43, 47, 52, and 53), the figure for the specific peak (trough) month is used as the base. For series with an MCD of "3" or more (series 9, 13, 17, 24, 29, and 54), the average of the 3 months centered on the specific peak (trough) month is used as the base. The base for quarterly series (series 49 and 50) is the specific peak (trough) quarter. See also MCD footnote to appendix C.

Selected series	Months after specific trough <sup>1</sup>	July	July	Nov.	Mar.	June	Oct.	Aug.	Apr.	Feb.	
		1921	1924	1927	1933	1938	1949	1954	1958	1961	
<b>NBER LEADING INDICATORS</b>		Percent of specific peak prior to reference expansion beginning in year shown									
1. Average workweek of production workers, manufacturing.....	24	NA	95.6	92.5	68.7	93.2	NSC	99.0	97.1	99.0	
9. Construction contracts awarded for commercial and industrial bldgs., floor space <sup>2</sup> ...	19	38.9	104.5	95.0	15.4	81.4	61.5	NSC	92.2	<sup>3</sup> 110.5	
13. Number of new business incorporations.....	22	80.2	94.7	107.1	65.4	75.8	62.8	NSC	130.8	90.1	
17. Price per unit of labor cost index.....	23	NA	NA	NA	NA	NA	107.5	91.0	100.9	100.1	
19. Index of stock prices, 500 common stocks....	26	84.4	132.1	NSC	29.1	53.4	136.1	171.7	114.4	104.9	
23. Index of industrial materials prices.....	24	58.2	79.4	54.0	66.2	83.0	121.5	63.3	91.1	90.5	
24. Value of manufacturers' new orders, machinery and equipment industries.....	26	NA	NA	NA	NA	NA	NA	94.6	105.1	112.9	
29. Index of new private housing units authorized by local building permits.....	24	NA	NA	NA	NA	NA	NA	NA	72.3	104.5	
<b>NBER ROUGHLY COINCIDENT INDICATORS</b>											
41. Number of employees in nonagricultural establishments.....	22	90.7	95.7	101.7	81.9	98.2	105.9	104.1	102.5	101.6	
43. Unemployment rate, total (inverted).....	19	NA	NA	NA	NA	70.6	115.2	65.0	72.1	88.5	
47. Index of industrial production.....	23	109.1	104.1	111.3	68.9	93.8	115.5	105.2	107.8	107.1	
49. Gross national product in current dollars(Q)	18	NA	NA	NA	63.7	97.5	114.4	110.9	107.7	110.0	
50. Gross national product in 1954 dollars (Q)..	18	NA	NA	NA	75.5	100.0	111.5	107.5	104.0	106.6	
52. Personal income.....	24	NA	111.1	106.2	66.0	100.1	121.9	112.1	110.9	<sup>3</sup> 111.3	
53. Labor income in mining, mfg., and construc..	22	NA	NA	NA	57.7	93.0	123.0	110.9	108.0	105.5	
54. Sales of retail stores.....	23	105.0	NSC	NSC	73.0	103.0	NSC	110.4	107.1	109.4	
<b>NBER LEADING INDICATORS</b>		Percent change from specific trough related to reference expansion beginning in year shown									
1. Average workweek of production workers, manufacturing.....	24	+12.6	+5.5	-3.4	-7.9	+11.4	+6.7	+3.3	+3.1	+4.7	
9. Construction contracts awarded for commercial and industrial bldgs., floor space <sup>2</sup> ...	19	+88.1	+66.5	+22.9	+59.1	+79.2	+97.4	NSC	+34.8	<sup>3</sup> +17.1	
13. Number of new business incorporations.....	22	+14.9	+26.7	+16.8	+4.8	-5.0	+6.1	NSC	+43.7	+5.4	
17. Price per unit of labor cost index.....	23	NA	NA	NA	NA	NA	+15.1	+7.2	+8.4	+4.4	
19. Index of stock prices, 500 common stocks....	26	+24.5	+55.2	NSC	+90.8	-2.2	+63.9	+93.2	+38.3	+16.6	
23. Index of industrial materials prices.....	24	+22.8	+7.6	-24.4	+78.0	+34.1	+80.1	+21.2	+15.1	-1.0	
24. Value of manufacturers' new orders, machinery and equipment industries.....	26	NA	NA	NA	NA	NA	+132.7	+58.5	+41.7	+21.1	
29. Index of new private housing units authorized by local building permits.....	24	NA	NA	NA	NA	NA	NA	NA	+17.1	+40.0	
<b>NBER ROUGHLY COINCIDENT INDICATORS</b>											
41. Number of employees in nonagricultural establishments.....	22	+31.5	+10.4	+7.3	+19.8	+10.1	+11.7	+7.8	+7.0	+3.9	
43. Unemployment rate, total (inverted).....	19	NA	NA	NA	+25.2	+28.8	+50.5	+54.0	+39.2	+26.5	
47. Index of industrial production.....	23	+60.0	+27.5	+20.4	+50.0	+41.9	+28.3	+16.9	+25.9	+15.8	
49. Gross national product in current dollars(Q)	18	NA	NA	NA	+26.3	+16.3	+18.7	+13.9	+11.5	+10.9	
50. Gross national product in 1954 dollars (Q)..	18	NA	NA	NA	+12.1	+15.3	+14.2	+11.6	+8.8	+8.7	
52. Personal income.....	24	+29.9	+15.3	+8.9	+34.2	+14.6	+28.5	+13.5	+12.2	<sup>3</sup> +11.9	
53. Labor income in mining, mfg., and construc..	22	NA	NA	NA	+62.2	+27.2	+40.7	+20.0	+17.3	+11.1	
54. Sales of retail stores.....	23	+19.3	NSC	NSC	+29.3	+25.4	NSC	+14.2	+12.0	+13.6	

NA Not available. NSC No specific cycle related to reference dates.

<sup>1</sup>Based on period from most recent specific trough of each series to the latest month for which data are available. The number is the same for each expansion. Specific trough and peak dates are shown in appendix B.

<sup>2</sup>Except for 1961, changes are computed in a 3-term moving average of the seasonally adjusted series.

<sup>3</sup>Since no specific trough has been designated, figures are based on the low (L) and high (H) shown in table 1.

## APPENDIXES

Appendix materials retain their original alphabetical designation. Therefore, when appendixes are dropped from an issue, the continuity is interrupted. However, appendixes that are dropped will be listed with the latest date of publication.

"Appendix E.—Summary Description of X-9 and X-10 Versions of the Census Method II Seasonal Adjustment Program", not included in this issue, was included in March 1962.

## Appendixes

Appendix A.--BUSINESS CYCLE REFERENCE DATES AND DURATION OF EXPANSIONS AND CONTRACTIONS  
IN THE UNITED STATES: 1854 TO 1961

Business cycle reference dates		Duration in months			
		Contraction (trough from pre- vious peak)	Expansion (trough to peak)	Cycle	
				Trough from previous trough	Peak from previous peak
Trough	Peak				
December 1854	June 1857.....	xxx	30	xxx	xxx
December 1858	October 1860.....	18	22	48	40
June 1861	April 1865.....	8	46	30	54
December 1867	June 1869.....	<u>32</u>	18	78	50
December 1870	October 1873.....	18	34	36	52
March 1879	March 1882.....	65	36	99	101
May 1885	March 1887.....	38	22	74	60
April 1888	July 1890.....	13	27	35	40
May 1891	January 1893.....	10	20	37	30
June 1894	December 1895.....	17	18	37	35
June 1897	June 1899.....	18	24	36	42
December 1900	September 1902.....	18	21	42	39
August 1904	May 1907.....	23	33	44	56
June 1908	January 1910.....	13	19	46	32
January 1912	January 1913.....	24	12	43	36
December 1914	August 1918.....	23	44	35	67
March 1919	January 1920.....	7	10	51	17
July 1921	May 1923.....	18	22	28	40
July 1924	October 1926.....	14	27	36	41
November 1927	August 1929.....	13	21	40	34
March 1933	May 1937.....	43	50	64	93
June 1938	February 1945.....	13	<u>80</u>	63	<u>93</u>
October 1945	November 1948.....	8	37	88	45
October 1949	July 1953.....	11	<u>45</u>	48	<u>56</u>
August 1954	July 1957.....	<u>13</u>	35	<u>58</u>	48
April 1958	May 1960.....	9	25	44	34
February 1961		9		34	
Average, all cycles:					
26 cycles, 1854-1961.....		19	30	49	<sup>1</sup> 49
10 cycles, 1919-1961.....		15	35	50	<sup>2</sup> 54
4 cycles, 1945-1961.....		10	36	46	<sup>3</sup> 46
Average, peacetime cycles:					
22 cycles, 1854-1961.....		20	26	45	<sup>4</sup> 46
8 cycles, 1919-1961.....		16	28	45	<sup>5</sup> 48
3 cycles, 1945-1961.....		10	32	42	<sup>6</sup> 41

NOTE: Underscored figures are the wartime expansions (Civil War, World Wars I and II, and Korean War), the postwar contractions, and the full cycles that include the wartime expansions.

<sup>1</sup>25 cycles, 1857-1960.

<sup>2</sup>9 cycles, 1920-1960.

<sup>3</sup>3 cycles, 1948-1960

<sup>4</sup>21 cycles, 1857-1960.

<sup>5</sup>7 cycles, 1920-1960.

<sup>6</sup>2 cycles, 1948-1960.

Source: National Bureau of Economic Research.

Appendix B.--SPECIFIC TROUGH AND PEAK DATES FOR SELECTED BUSINESS INDICATORS

Specific trough and peak dates are the actual dates that each series reaches its trough and peak. Reference dates are those dates designated as the trough or peak of business activity as a whole. This table shows, for selected leading and coincident series, the specific dates related to reference dates in 9 recent business cycles.

Selected series	Specific trough dates for reference expansions beginning in--								
	Feb. 1961	Apr. 1958	Aug. 1954	Oct. 1949	June 1938	Mar. 1933	Nov. 1927	July 1924	July 1921
<b>NBER LEADING INDICATORS</b>									
1. Average workweek of production workers, manufacturing.....	Dec.'60	Apr.'58	Apr.'54	Apr.'49	Jan.'38	Jul.'32	Apr.'28	Jul.'24	Feb.'21
9. Construction contracts awarded for commercial and industrial bldgs...	NSC	Jun.'58	NSC	Aug.'49	Sep.'38	Oct.'32	Sep.'27	Jul.'24	Mar.'21
13. Number of new business incorporations.....	Jan.'61	Nov.'57	NSC	Feb.'49	Sep.'39	Dec.'34	Dec.'26	Jun.'24	Jan.'21
17. Price per unit of labor cost index.	Jan.'61	Apr.'58	Dec.'53	May '49	NA	NA	NA	NA	NA
19. Index of stock prices, 500 stocks..	Oct.'60	Dec.'57	Sep.'53	Jun.'49	Apr.'38	Jun.'32	NSC	Oct.'23	Aug.'21
23. Index of industrial mat. prices....	Dec.'60	Apr.'58	Feb.'54	Jun.'49	Jun.'38	Jul.'32	Aug.'28	Jun.'24	Jul.'21
24. Value of mfrs.' new orders, machinery and equipment industries..	Oct.'60	Feb.'58	Jan.'54	Apr.'49	NA	NA	NA	NA	NA
29. Index of new private housing units authorized by local bldg. permits.	Dec.'60	Feb.'58	NA						
<b>NBER ROUGHLY COINCIDENT INDICATORS</b>									
41. Number of employees in nonagricultural establishments.....	Feb.'61	Apr.'58	Aug.'54	Oct.'49	Jun.'38	Mar.'33	Jan.'28	Jul.'24	Jul.'21
43. Unemployment rate, total (inverted)	May '61	Aug.'58	Sep.'54	Oct.'49	Jun.'38	May '33	NA	NA	NA
47. Index of industrial production....	Jan.'61	Apr.'58	Apr.'54	Oct.'49	May '38	Jul.'32	Nov.'27	Jul.'24	Apr.'21
49. GNP in current dollars (Q).....	1stQ'61	1stQ'58	2ndQ'54	2ndQ'49	2ndQ'38	1stQ'33	NSC	NSC	4thQ'21
50. GNP in 1954 dollars (Q).....	1stQ'61	1stQ'58	2ndQ'54	2ndQ'49	NA	NA	NA	NA	NA
52. Personal income.....	NSC	Feb.'58	Mar.'54	Oct.'49	May '38	Mar.'33	4thQ'26	2ndQ'24	2ndQ'21
53. Labor income in mining, manufacturing and construction.....	Feb.'61	Apr.'58	Aug.'54	Oct.'49	Jun.'38	Mar.'33	NA	NA	NA
54. Sales of retail stores.....	Jan.'61	Mar.'58	Jan.'54	NSC	May '38	Mar.'33	NSC	NSC	Mar.'22

Selected series	Specific peak dates for reference contractions beginning in--								
	May 1960	July 1957	July 1953	Nov. 1948	May 1937	Aug. 1929	Oct. 1926	May 1923	Jan. 1920
<b>NBER LEADING INDICATORS</b>									
1. Average workweek of production workers, manufacturing.....	May '59	Nov.'55	Apr.'53	NSC	Dec.'36	Oct.'29	Nov.'25	Nov.'22	NA
9. Construction contracts awarded for commercial and industrial bldgs...	NSC	Mar.'56	NSC	Mar.'46	Jul.'37	Jan.'29	Sep.'25	Aug.'22	Dec.'19
13. Number of new business incorporations.....	Apr.'59	Feb.'56	NSC	Jul.'46	Dec.'36	Jan.'29	Oct.'25	Apr.'23	Dec.'19
17. Price per unit of labor cost index.	May '59	Mar.'57	Feb.'51	Jan.'48	NA	NA	NA	NA	NA
19. Index of stock prices, 500 stocks..	Jul.'59	Jul.'56	Jan.'53	Jun.'48	Feb.'37	Sep.'29	NSC	Mar.'23	Jul.'19
23. Index of industrial mat. prices....	Nov.'59	Dec.'55	Feb.'51	Jan.'48	Mar.'37	Mar.'29	Nov.'25	Mar.'23	Apr.'20
24. Value of mfrs.' new orders, machinery and equipment industries..	Dec.'59	Nov.'56	Feb.'51	NA	NA	NA	NA	NA	NA
29. Index of new private housing units authorized by local bldg. permits.	Nov.'58	Feb.'55	NA	NA	NA	NA	NA	NA	NA
<b>NBER ROUGHLY COINCIDENT INDICATORS</b>									
41. Number of employees in nonagricultural establishments.....	Apr.'60	Mar.'57	May '53	Jul.'48	Jul.'37	Aug.'29	Jan.'26	Jul.'23	Jan.'20
43. Unemployment rate, total (inverted)	Feb.'60	Mar.'57	Jun.'53	Jan.'48	Jul.'37	NA	NA	NA	NA
47. Index of industrial production....	Jan.'60	Feb.'57	Jul.'53	Jul.'48	May '37	Jul.'29	Mar.'27	May '23	Feb.'20
49. GNP in current dollars (Q).....	2ndQ'60	3rdQ'57	2ndQ'53	4thQ'48	3rdQ'37	3rdQ'29	NSC	NSC	NA
50. GNP in 1954 dollars (Q).....	2ndQ'60	3rdQ'57	2ndQ'53	4thQ'48	NA	NA	NA	NA	NA
52. Personal income.....	NSC	Aug.'57	Oct.'53	Oct.'48	Jun.'37	Aug.'29	2ndQ'26	1stQ'24	NA
53. Labor income in mining, manufacturing and construction.....	May '60	Jul.'57	Jul.'53	Sep.'48	May '37	Sep.'29	NA	NA	NA
54. Sales of retail stores.....	Apr.'60	Jul.'57	Jul.'53	NSC	Sep.'37	Sep.'29	NSC	NSC	Jul.'20

NA not available. NSC No specific cycle related to reference dates.

Appendix C.--AVERAGE PERCENTAGE CHANGES AND RELATED MEASURES FOR MONTHLY AND QUARTERLY BUSINESS CYCLE SERIES

Monthly series	$\bar{C}_I$	$\bar{I}$	$\bar{C}$	$\bar{I}/\bar{C}$	MCD	$\bar{I}/\bar{C}$ for MCD span	Average duration of run			
							CI	I	C	MCD
NBER LEADING INDICATORS										
1. Average workweek of production workers, manufacturing.....	.47	.40	.24	1.67	2	.95	2.57	1.84	9.82	4.26
2. Accession rate, manufacturing.....	6.03	5.31	2.08	2.55	3	.92	2.53	1.82	8.35	4.58
30. Nonagricultural placements, all industries....	3.41	3.14	1.35	2.33	3	.55	1.86	1.49	8.67	4.53
3. Layoff rate, manufacturing.....	11.94	10.46	5.45	1.92	3	.76	2.49	1.80	7.59	5.16
4. Number of persons on temporary layoff, all industries.....	19.43	17.91	4.88	3.67	5	.81	1.66	1.49	7.10	3.37
5. Average weekly initial claims for unemployment insurance, State programs.....	6.98	6.12	3.16	1.94	2	.97	1.86	1.53	9.28	3.61
6. Value of manufacturers' new orders, durable goods industries.....	5.58	5.00	2.00	2.50	3	.75	1.94	1.48	10.64	3.34
24. Value of manufacturers' new orders, machinery and equipment industries.....	6.07	5.55	2.19	2.53	3	.73	1.68	1.47	12.82	3.56
9. Construction contracts awarded for commercial and industrial buildings.....	12.37	11.94	2.75	4.34	5	.80	1.62	1.49	8.28	3.45
10. Contracts and orders for plant and equipment..	6.37	5.94	2.19	2.71	3	.79	1.59	1.37	8.56	3.55
27. Buying policy--production materials, percent reporting commitments 6 months or longer.....	7.56	7.12	2.36	3.02	4	.71	1.82	1.69	10.14	5.23
7. New private nonfarm dwelling units started....	4.09	3.39	2.01	1.69	3	.67	2.29	1.67	11.46	4.46
29. Index of new private housing units authorized by local building permits.....	3.90	3.44	1.67	2.06	3	.60	1.93	1.53	12.43	3.70
13. Number of new business incorporations.....	3.04	2.57	1.30	1.98	3	.65	2.19	1.69	9.31	3.50
14. Current liabilities of business failures.....	16.32	16.05	2.81	5.71	6	( <sup>1</sup> )	1.57	1.42	5.32	2.22
15. Number of business failures with liabilities of \$100,000 and over.....	17.30	17.36	3.26	5.33	6	( <sup>1</sup> )	1.54	1.39	6.21	2.82
17. Price per unit of labor cost index.....	.72	.56	.41	1.37	2	.80	2.70	1.80	11.53	4.10
19. Index of stock prices, 500 common stocks.....	2.58	1.90	1.49	1.28	2	.79	2.40	1.73	13.55	3.36
26. Buying policy--production materials, percent reporting commitments 60 days or longer.....	6.17	5.53	2.76	2.00	3	.66	1.90	1.61	11.55	4.63
32. Vendor performance, percent reporting slower deliveries.....	11.30	8.12	7.20	1.13	2	.77	3.18	2.01	9.94	3.59
23. Index of industrial materials prices.....	2.15	1.39	1.52	.91	1	.91	2.61	1.84	11.46	2.61
NBER ROUGHLY COINCIDENT INDICATORS										
41. Number of employees in nonagricultural establishments.....	.39	.22	.29	.76	1	.76	3.41	2.04	10.44	3.41
42. Total nonagricultural employment, labor force survey.....	.41	.32	.22	1.45	2	.72	1.94	1.62	15.73	3.44
43. Unemployment rate, total.....	4.73	3.46	2.91	1.19	2	.64	2.44	1.68	7.67	3.48
40. Unemployment rate, married males.....	5.80	4.62	3.26	1.42	2	.67	2.05	1.38	10.50	4.37
45. Average weekly insured unemployment rate, State programs.....	5.63	2.80	4.12	.68	1	.68	3.47	2.44	8.28	3.47
46. Index of help-wanted advertising in newspapers.....	3.28	2.10	2.26	.93	1	.93	2.30	1.40	8.13	2.30
47. Index of industrial production.....	1.16	.66	.81	.81	1	.81	4.25	1.87	11.00	4.25
51. Bank debits outside NYC, 343 centers.....	1.56	1.42	.70	2.03	3	.58	1.82	1.55	10.64	4.32
52. Personal income.....	.69	.43	.54	.80	1	.80	3.39	1.69	21.29	3.39
53. Labor income in mining, manufacturing, and construction.....	1.12	.69	.84	.82	1	.82	3.63	1.80	13.55	3.63
54. Sales of retail stores.....	1.58	1.43	.56	2.55	4	.70	1.84	1.67	8.77	3.56
55. Index of wholesale prices, all commodities other than farm products and foods.....	.30	.11	.27	.41	1	.41	5.22	2.53	12.85	5.22
NBER LAGGING INDICATORS										
62. Index of wage and salary cost per unit of output, total manufacturing.....	.66	.46	.40	1.15	2	.66	2.70	1.77	11.53	4.65
64. Book value of manufacturers' inventories, all manufacturing industries.....	.88	.27	.40	.34	1	.34	7.84	2.16	13.55	7.84
65. Book value of manufacturers' inventories of finished goods, all manufacturing industries..	.99	.49	.84	.58	1	.58	6.48	2.61	13.55	6.48
66. Consumer installment debt.....	1.19	.28	1.12	.25	1	.25	8.79	2.29	18.56	8.79

See footnotes at end of table.

Appendix C.-- AVERAGE PERCENTAGE CHANGES AND RELATED MEASURES FOR MONTHLY AND QUARTERLY BUSINESS CYCLE SERIES--Continued

Monthly series	$\bar{C}I$	$\bar{I}$	$\bar{C}$	$\bar{I}/\bar{C}$	MCD	$\bar{I}/\bar{C}$ for MCD span	Average duration of run			
							CI	I	C	MCD
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE										
81. Index of consumer prices.....	.28	.17	.23	.74	1	.74	4.48	2.18	19.89	4.48
82. Federal cash payments to the public.....	7.17	6.91	1.31	5.27	5	.92	1.47	1.39	7.59	2.30
83. Federal cash receipts from the public.....	7.49	7.23	1.46	4.95	5	.96	1.70	1.52	5.96	2.55
86. Exports, excluding military aid shipments, total.....	3.72	3.39	1.52	2.23	3	.69	1.89	1.51	7.84	4.08
87. General imports, total.....	3.52	3.02	1.32	2.29	3	.79	1.71	1.57	6.21	3.06
94. Index of construction contracts, total value..	8.29	8.06	2.22	3.63	4	.96	1.67	1.47	7.26	2.93
90. Defense Department obligations, procurement...	25.35	24.41	4.97	4.91	6	<sup>(1)</sup>	1.58	1.51	6.46	2.44
91. Defense Department obligations, total.....	15.57	15.00	2.88	5.21	5	.99	1.49	1.41	6.67	2.40
92. Military prime contract awards to U.S. busi- ness firms.....	29.19	29.33	6.21	4.72	6	<sup>(1)</sup>	1.61	1.50	5.38	2.76
96. Manufacturers' unfilled orders, durable goods industries.....	2.08	.64	1.97	.32	1	.32	5.96	2.14	16.70	5.96
INTERNATIONAL COMPARISONS OF INDUSTRIAL PRODUCTION										
121. OECD European countries, index of indus. prod...	1.32	1.03	.68	1.51	2	.82	2.91	1.95	17.11	5.28
122. United Kingdom, index of industrial prod.....	1.29	1.29	.49	2.63	3	.87	2.41	1.93	15.40	6.91
123. Canada, index of industrial production.....	.98	.88	.52	1.69	2	.98	3.44	2.27	15.50	6.13
47. United States, index of industrial production..	1.32	.82	.88	.93	1	.93	3.92	2.92	9.31	3.92
125. West Germany, index of industrial production..	1.61	1.15	.98	1.17	2	.64	2.46	1.62	17.78	4.08
126. France, index of industrial production.....	1.79	1.63	.65	2.51	3	.80	2.20	1.70	17.00	5.09
127. Italy, index of industrial production.....	1.70	1.61	.81	1.99	3	.63	2.27	1.67	22.00	9.50
128. Japan, index of industrial production.....	2.09	1.15	1.60	.72	1	.72	3.37	1.77	23.57	3.37
Quarterly series	$\bar{C}I$	$\bar{I}$	$\bar{C}$	$\bar{I}/\bar{C}$	QCD	$\bar{I}/\bar{C}$ for QCD span	Average duration of run			
							CI	I	C	QCD
NBER LEADING INDICATORS										
11. Newly approved capital appropriations, 602 manufacturing corporations.....	11.15	7.00	7.59	.92	1	.92	2.82	1.48	5.17	2.82
16. Corporate profits after taxes.....	7.66	4.54	5.35	.85	1	.85	2.83	1.65	3.64	2.83
18. Profits (before taxes) per dollar of sales, all manufacturing corporations.....	7.73	5.06	5.01	1.01	2	.51	2.83	1.42	5.67	3.85
22. Ratio, profits to income originating, corpo- rate, all industries.....	5.78	3.73	4.17	.89	1	.89	2.89	1.49	5.50	2.89
NBER ROUGHLY COINCIDENT INDICATORS										
50. Gross national product in 1954 dollars.....	1.44	.65	1.13	.58	1	.58	3.19	1.50	5.10	3.19
49. Gross national product in current dollars.....	1.88	.69	1.59	.43	1	.43	4.25	1.42	6.38	4.25
57. Final sales (series 49 minus 21).....	1.60	.82	1.45	.57	1	.57	4.64	1.46	7.29	4.64
NBER LAGGING INDICATORS										
61. Business expenditures on new plant and equip- ment, total.....	3.61	1.49	2.94	.51	1	.51	4.64	1.55	5.67	4.64
63. Index of labor cost per unit of output, total gross national product.....	1.02	.60	.84	.71	1	.71	2.68	1.31	7.29	2.68
67. Bank rates on short-term business loans, 19 cities.....	2.96	1.94	2.37	.82	1	.82	2.68	1.55	6.38	2.68
97. Backlog of capital appropriations, manufac- turing.....	6.27	1.26	5.79	.22	1	.22	4.38	1.94	5.83	4.38

See footnotes on following page.

## NOTES FOR APPENDIX C

<sup>1</sup>Not computed for series when MCD is "6" or more.

The following are brief definitions of the measures shown in this table. More complete explanations appear in Business Cycle Indicators, Geoffrey H. Moore, editor; National Bureau of Economic Research, Inc., vol. 1, ch. 17, "Electronic Computers and Business Indicators" by Julius Shiskin (Princeton University Press: 1961).

" $\bar{C}I$ " is the average month-to-month (for quarterly series, quarter-to-quarter) percentage change, without regard to sign, in the seasonally adjusted series. " $\bar{I}$ " is the same for the irregular component, which is obtained by dividing the cyclical component into the seasonally adjusted series. " $\bar{C}$ " is the same for the cyclical component which is a smooth, flexible moving average.

"MCD" represents months for cyclical dominance. The average (without regard to sign) percentage changes in the irregular component and cyclical component are computed for 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 5-month spans. MCD is the shortest span for which the average change (without regard to sign) in the cyclical component is larger than the average change (without regard to sign) in the irregular component. Since changes are not computed for spans greater than 5 months, all series with an MCD greater than "5" are shown as "6". MCD is small for smooth series and large for erratic series. "QCD" represents quarters for cyclical dominance. It is the shortest span (in quarters) for which the average change (without regard to sign) in cyclical component is larger than the irregular average (without regard to sign) in component.

" $\bar{I}/\bar{C}$ " is a measure of the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. For monthly series, it is shown for 1-month spans and for spans of the period of MCD. When MCD is "6", no  $\bar{I}/\bar{C}$  ratio is shown for the MCD period. For quarterly series,  $\bar{I}/\bar{C}$  is shown for 1-quarter spans and QCD spans.

"Average duration of run" is a measure of smoothness, and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between 2 months, it is assumed that the "no change" is a change in the same direction as the preceding change. The average duration of run is shown for the seasonally adjusted series CI, irregular component I, cyclical component C, and the MCD moving average. The MCD moving average is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. For quarterly series, average duration of run is the average number of consecutive quarterly changes in the same direction.

Appendix D.--CURRENT SEASONAL ADJUSTMENT FACTORS FOR BUSINESS CYCLE SERIES ADJUSTED BY BUREAU OF THE CENSUS ORNBER  
(NOVEMBER 1961 TO DECEMBER 1962)

Series	1961		1962											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
4. Number of persons on temporary layoff, all industries.....	89.0	106.1	105.2	118.2	98.1	86.8	90.5	85.9	101.8	136.6	92.3	91.1	88.8	106.6
5. Av. weekly initial claims for unemploy. insurance, State.....	103.5	128.9	136.9	111.4	99.8	98.2	82.7	83.9	101.0	86.0	77.3	90.1	103.8	128.6
9. Constr. contracts awarded for commercial and indus. bldgs.....	95.4	84.4	83.5	71.6	100.9	108.4	110.8	98.3	113.7	117.1	106.6	110.3	95.6	84.6
13. No. of new business incorp.....	84.6	100.3	118.1	93.1	110.1	103.7	104.7	104.3	100.1	95.3	90.1	95.9	84.6	100.3
14. Cur. liabilities of bus.failures.	106.1	95.0	101.8	103.6	113.6	109.1	95.7	96.3	85.4	103.4	94.2	95.0	106.7	94.8
15. No. of bus. failures with liabilities of \$100,000 and over...	95.4	90.1	111.4	113.1	113.4	109.6	96.9	103.2	92.3	100.5	87.6	86.3	95.3	90.1
17. Price per unit of labor cost index.....	100.5	98.1	99.0	100.7	101.0	100.6	100.1	101.1	94.9	99.5	101.4	103.3	100.5	98.2
18. Profits (before taxes) per dol. of sales, all mfg. corp. <sup>1</sup> .....	97.5	...	...	98.6	...	...	105.5	...	...	97.9	...	...	97.5	...
25. Change in mfrs.' unfilled orders, dur. goods industries <sup>2</sup> ....	100.3	100.7	99.8	100.3	100.3	99.7	98.7	98.8	99.8	100.3	100.9	100.4	100.3	100.9
30. Nonagri. placements, all indus...	90.3	85.2	81.8	77.6	88.8	100.2	108.9	112.5	104.8	115.7	122.0	111.1	93.0	83.9
55. Index of wholesale prices, exc. farm products and foods.....	99.9	100.0	100.2	100.2	100.2	100.2	100.0	99.9	99.9	99.9	99.9	99.9	99.9	100.0
62. Index of wage and salary cost per unit of output, total mfg...	99.1	102.0	101.8	99.6	99.3	99.5	99.7	98.7	105.2	100.2	98.4	96.5	99.2	102.0
81. Index of consumer prices.....	100.2	100.1	99.9	99.9	99.8	100.0	99.8	100.0	100.1	99.9	100.1	100.2	100.2	100.1
82. Federal cash payments to public..	103.1	99.1	90.2	99.0	92.4	98.8	102.7	107.5	96.9	111.7	97.2	101.1	103.8	98.8
83. Federal cash receipts from pub...	98.8	103.5	71.6	114.9	136.7	77.4	115.0	154.8	50.2	108.7	122.3	46.5	99.4	104.0
90. Defense Department obligations-- procurement.....	90.1	98.9	75.2	95.9	146.8	78.0	76.2	220.8	51.6	79.2	100.7	84.0	90.0	98.9
91. Defense Dept. oblig., total.....	90.8	100.3	91.4	91.9	117.8	94.5	88.2	156.3	82.8	86.8	99.1	98.8	90.8	100.3
92. Military prime contract awards to U.S. business firms.....	68.6	115.3	80.5	80.0	125.6	94.7	94.5	229.2	68.6	67.7	93.2	82.7	68.6	115.3
96. Manufacturers' unfilled orders, durable goods industries.....	100.3	100.7	99.8	100.3	100.3	99.7	98.7	98.8	99.8	100.3	100.9	100.4	100.3	100.9
128. Japan, index of industrial production.....	98.7	102.9	93.9	101.5	108.7	99.9	99.9	100.4	99.3	96.6	98.6	100.1	98.7	102.9
Value of commercial and indus. constr. contracts (component of series 10).....	94.9	83.8	86.7	75.3	98.7	108.3	106.7	99.7	111.1	113.6	109.6	112.9	95.0	83.9
Value of privately owned public works and utilities contracts (component of series 10).....	60.3	47.8	79.9	78.1	101.9	112.3	130.2	122.6	117.0	111.5	129.1	108.9	60.3	46.9

These data are not published by the source agency in seasonally adjusted form. Seasonal adjustments were made by the Bureau of the Census or the National Bureau of Economic Research, Inc. Seasonally adjusted data prepared by the source agency will be substituted whenever they are published. Some of the series above are also adjusted for trading days. For this reason, the original observations divided by the seasonal factors given above will not yield the seasonally adjusted figures shown in table 1.

<sup>1</sup>Quarterly series; figures are placed in middle month of quarter.

<sup>2</sup>The seasonal factors are applied to the unfilled orders series; then the change in unfilled orders is computed.

Appendix F.--PERCENT CHANGE FOR SELECTED SERIES OVER CONTRACTION AND EXPANSION PERIODS OF BUSINESS CYCLES:  
1920 TO 1961

Contractions: Reference peak to reference trough	Percent change: Reference peak to reference trough							43. Unemployment rate		
	41. Em- ployees in non- agri. es- tablish- ments	47. Index of indus- trial produc- tion	50. GNP in 1954 dollars (Q) <sup>1</sup>	49. GNP in cur- rent dollars (Q) <sup>1</sup>	51. Bank debits outside NYC	52. Per- sonal income	54. Re- tail sales	Change in rate, peak to trough	Rate at peak	Rate at trough
Jan. 1920-July 1921.....	NA	-31.6	NA	-19.7	-22.5	-21.9	-4.3	<sup>2</sup> +7.9	<sup>2</sup> 4.0	<sup>2</sup> 11.9
May 1923-July 1924.....	NA	-18.0	-0.3	-2.3	-3.1	0.0	-1.9	<sup>2</sup> +2.3	<sup>2</sup> 3.2	<sup>2</sup> 5.5
Oct. 1926-Nov. 1927.....	NA	-5.9	+2.3	+0.4	+8.7	+0.9	0.0	<sup>2</sup> +2.2	<sup>2</sup> 1.9	<sup>2</sup> 4.1
Aug. 1929-Mar. 1933.....	-31.6	-51.8	-28.0	-49.6	-61.9	-50.8	-43.5	+25.4	<sup>3</sup> 0.0	25.4
May 1937-June 1938.....	-10.4	-31.7	-8.9	-11.9	-16.5	-10.9	-14.1	+8.8	11.2	20.0
Feb. 1945-Oct. 1945 <sup>4</sup> .....	-7.8	-31.4	NA	-10.9	-1.0	-4.0	+8.7	+2.2	1.1	3.3
Nov 1948-Oct. 1949.....	-5.1	-8.5	-1.4	-3.3	-4.0	-4.3	-0.3	+3.8	<sup>3</sup> 4.0	7.8
July 1953-Aug 1954 <sup>5</sup> .....	-3.4	-9.1	-3.0	-1.8	+1.6	-0.2	-0.8	+3.4	2.6	6.0
July 1957-Apr. 1958.....	-4.1	-14.1	-3.8	-2.5	-3.1	-0.3	-3.4	+3.2	4.2	7.4
May 1960-Feb. 1961.....	-2.0	-5.9	-1.9	-0.8	+2.4	+0.6	-3.5	+1.8	5.1	6.9
Median: <sup>6</sup>										
All contractions.....	-5.7	-16.0	-2.4	-2.9	-3.1	-2.2	-2.6	+3.3	3.6	7.2
Excluding postwar con- tractions.....	-6.5	-16.0	-2.6	-2.9	-3.6	-2.3	-3.4	+3.5	4.0	7.6
4 contractions since 1948.....	-3.8	-8.8	-2.4	-2.2	-0.8	-0.2	-2.1	+3.3	4.1	7.2
Expansions: Reference trough to reference peak	Percent change: Reference trough to reference peak							43. Unemployment rate		
	41 Em- ployees in non- agri. es- tablish- ments	47. Index of indus- trial produc- tion	50. GNP in 1954 dollars (Q) <sup>1</sup>	49. GNP in cur- rent dollars (Q) <sup>1</sup>	51. Bank debits outside NYC	52. Per- sonal income	54. Re- tail sales	Change in rate, trough to peak	Rate at trough	Rate at peak
July 1921-May 1923.....	NA	+64.2	NA	+25.1	+23.5	+29.6	+15.7	<sup>2</sup> -8.7	<sup>2</sup> 11.9	<sup>2</sup> 3.2
July 1924-Oct. 1926.....	NA	+30.4	+12.4	+14.7	+18.9	+13.2	+9.9	<sup>2</sup> -3.6	<sup>2</sup> 5.5	<sup>2</sup> 1.9
Nov. 1927-Aug. 1929.....	NA	+24.1	+12.6	+13.3	+20.4	+12.2	+3.6	<sup>2</sup> -0.9	<sup>2</sup> 4.1	<sup>2</sup> 3.2
Mar. 1933-May 1937.....	+40.2	+119.9	+42.1	+73.9	+78.4	+76.3	+63.1	-14.2	25.4	11.2
June 1938-Feb. 1945 <sup>4</sup> .....	+45.9	+183.3	NA	+169.6	+131.7	+157.3	+103.3	-18.9	20.0	1.1
Oct. 1945-Nov. 1948.....	+17.2	+21.9	+3.3	+34.9	+51.5	+28.5	+62.0	+0.3	3.3	<sup>3</sup> 3.6
Oct. 1949-July 1953 <sup>5</sup> .....	+17.7	+50.0	+27.4	+43.5	+49.3	+41.5	+26.3	-5.2	7.8	2.6
Aug. 1954-July 1957.....	+8.9	+19.7	+13.5	+23.8	+28.6	+22.8	+20.4	-1.8	6.0	4.2
Apr. 1958-May 1960.....	+7.2	+25.2	+11.9	+15.5	+21.2	+13.4	+13.5	-2.3	7.4	5.1
Median: <sup>6</sup>										
All expansions.....	+17.4	+35.2	+12.8	+27.9	+33.8	+27.0	+20.8	-3.7	7.1	3.3
Excluding wartime ex- pansions.....	+13.0	+26.6	+12.5	+21.5	+24.4	+21.6	+16.5	-2.6	6.3	3.7
4 expansions since 1945.....	+13.0	+23.5	+12.7	+29.4	+39.0	+25.6	+23.4	-2.0	6.7	3.9

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 41, 43, 47, and 52), the figure for the reference peak (trough) month is used as the base. For series with an MCD of "3" or more (series 51 and 54), the average of the 3 months centered on the reference peak (trough) month is used as the base. The base for quarterly series (series 49 and 50) is the reference peak (trough) quarter. See also MCD footnote to appendix C.

<sup>1</sup>The most recent quarterly reference dates are as follows: 2d quarter 1958 (trough); 2d quarter 1960 (peak); and 1st quarter 1961 (trough). For earlier dates, see Business Cycle Indicators (NBER), vol. 1, p. 670.

<sup>2</sup>Based on average for the calendar year.

<sup>3</sup>Differs from figure for same date in expansion (contraction) part of table because of change in series used.

<sup>4</sup>World War II contraction or expansion period.

<sup>5</sup>Korean War contraction or expansion period.

<sup>6</sup>The median is an average of the middle 2 or 3 items.

Source: National Bureau of Economic Research, Inc.

## COMPLETE TITLES AND SOURCES OF PRINCIPAL BUSINESS CYCLE SERIES AND DIFFUSION INDEXES

The numbers assigned to the series are for identification purposes only and do not necessarily reflect series relationships or order. "M" indicates monthly series and "Q" indicates quarterly series. Data apply to the whole period except for series designated by "FOM" or "EOQ". "EOM" indicates that data are for the end of the month and "EOQ" indicates that data are for the end of the quarter. The general classification of series follows the approach of the National Bureau of Economic Research. The series preceded by an asterisk (\*) were included in the 1960 NBER list of 26 indicators.

### 30 NBER LEADING INDICATORS

- \*1. Average workweek of production workers, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
- \*2. Accession rate, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
- \*3. Layoff rate, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
4. Number of persons on temporary layoff, all industries (M).--Department of Labor, Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census
5. Average weekly initial claims for unemployment insurance, State programs (M).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
- \*6. Value of manufacturers' new orders, durable goods industries (M).--Department of Commerce, Bureau of the Census and Office of Business Economics
- \*7. New private nonfarm dwelling units started (M).--Department of Commerce, Bureau of the Census
- \*9. Construction contracts awarded for commercial and industrial buildings, floor space (M).--F. W. Dodge Corporation; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
10. Contracts and orders for plant and equipment (M).--Department of Commerce, Office of Business Economics, and F. W. Dodge Corporation; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
11. Newly approved capital appropriations, 602 manufacturing corporations (Q).--National Industrial Conference Board; component industries are seasonally adjusted by National Bureau of Economic Research, Inc., and added to obtain seasonally adjusted total.
- \*12. Net change in the business population, operating businesses (EOQ).--Department of Commerce, Office of Business Economics
13. Number of new business incorporations (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
- \*14. Current liabilities of business failures (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
15. Number of business failures with liabilities of \$100,000 and over (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
- \*16. Corporate profits after taxes (Q).--Department of Commerce, Office of Business Economics
17. Price per unit of labor cost index (ratio of wholesale prices of manufactured goods index to wage and salary cost per unit of output index) (M).--Department of Commerce, Office of Business Economics; Department of Labor, Bureau of Labor Statistics; and Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census
18. Profits (before taxes) per dollar of sales, all manufacturing corporations (Q).--Federal Trade Commission and Securities and Exchange Commission; seasonal adjustment by Bureau of the Census
- \*19. Index of stock prices, 500 common stocks (M).--Standard and Poor's Corporation; no seasonal adjustment
20. Change in book value of manufacturers' inventories, purchased material (EOM).--Department of Commerce, Office of Business Economics
- \*21. Change in business inventories, farm and nonfarm, after valuation adjustment (GNP component) (Q).--Department of Commerce, Office of Business Economics
22. Ratio of profits to income originating, corporate, all industries (Q).--Department of Commerce, Office of Business Economics
- \*23. Index of industrial materials prices (M).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
24. Value of manufacturers' new orders, machinery and equipment industries (M).--Department of Commerce, Bureau of the Census, from special tabulations of the Office of Business Economics
25. Change in manufacturers' unfilled orders, durable goods industries (EOM).--Department of Commerce, Office of Business Economics; seasonal adjustment by Bureau of the Census
26. Buying policy--production materials, percent reporting commitments 60 days or longer (M).--National Association of Purchasing Agents; no seasonal adjustment
27. Buying policy--capital expenditures, percent reporting commitments 6 months or longer (M).--National Association of Purchasing Agents; no seasonal adjustment

29. Index of new private housing units authorized by local building permits (M).--Department of Commerce, Bureau of the Census
30. Nonagricultural placements, all industries (M).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
31. Change in book value of manufacturing and trade inventories, total (EOM).--Department of Commerce, Office of Business Economics
32. Vendor performance, percent reporting slower deliveries (M).--Chicago Purchasing Agents Association; no seasonal adjustment

### 15 NBER ROUGHLY COINCIDENT INDICATORS

40. Unemployment rate, married males, spouse present (M).--Department of Labor, Bureau of Labor Statistics
- \*41. Number of employees in nonagricultural establishments (M).--Department of Labor, Bureau of Labor Statistics
42. Total nonagricultural employment, labor force survey (M).--Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Bureau of the Census
- \*43. Unemployment rate, total (M).--Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Bureau of the Census
45. Average weekly insured unemployment rate, State programs (M).--Department of Labor, Bureau of Employment Security
46. Index of help-wanted advertising in newspapers (M).--National Industrial Conference Board and B. K. Davis and Bro. Advertising Service
- \*47. Index of industrial production (M).--Board of Governors of the Federal Reserve System
- \*49. Gross national product in current dollars (Q).--Department of Commerce, Office of Business Economics
- \*50. Gross national product in 1954 dollars (Q).--Department of Commerce, Office of Business Economics
- \*51. Bank debits outside New York City, 343 centers (M).--Board of Governors of the Federal Reserve System
- \*52. Personal income (M).--Department of Commerce, Office of Business Economics
53. Labor income in mining, manufacturing, and construction (M).--Department of Commerce, Office of Business Economics
- \*54. Sales of retail stores (M).--Department of Commerce, Bureau of the Census and Office of Business Economics
- \*55. Index of wholesale prices, all commodities, other than farm products and foods (M).--Department of Labor, Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census
57. Final sales (series 49 minus series 21) (Q).--Department of Commerce, Office of Business Economics

### 7 NBER LAGGING INDICATORS

- \*61. Business expenditures on new plant and equipment, total (Q).--Department of Commerce, Office of Business Economics; and the Securities and Exchange Commission
- \*62. Index of wage and salary cost per unit of output, total manufacturing (ratio of index of wage and salary disbursements in manufacturing to index of industrial production, manufacturing) (M).--Department of Commerce, Office of Business Economics, and the Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census
63. Index of labor cost per unit of output, total gross national product (ratio of compensation of employees to GNP in 1954 dollars) (Q).--Department of Commerce, Office of Business Economics
- \*64. Book value of manufacturers' inventories, all manufacturing industries (EOM).--Department of Commerce, Office of Business Economics
65. Book value of manufacturers' inventories of finished goods, all manufacturing industries (EOM).--Department of Commerce, Office of Business Economics
- \*66. Consumer installment debt, (EOM).--Board of Governors of the Federal Reserve System. FRS seasonally adjusted net change added to seasonally adjusted figure for previous month to obtain current figure (NBER seasonally adjusted data through January 1955 used as base)
- \*67. Bank rates on short-term business loans, 19 cities (Q).--Board of Governors of the Federal Reserve System; no seasonal adjustment

Continued on reverse

OFFICIAL BUSINESS

COMPLETE TITLES AND SOURCES OF PRINCIPAL BUSINESS CYCLE SERIES AND DIFFUSION INDEXES--Con.

18 OTHER U.S. SERIES WITH BUSINESS  
CYCLE SIGNIFICANCE

81. Index of consumer prices (M).--Department of Labor, Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census
82. Federal cash payments to the public (M).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget. Monthly seasonal adjustments by the Bureau of the Census do not equal quarterly totals of the official seasonally adjusted series because of differences in the method of seasonal adjustment
83. Federal cash receipts from the public (M).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget. Monthly seasonal adjustments by the Bureau of the Census do not equal quarterly totals of the official seasonally adjusted series because of differences in the method of seasonal adjustment
84. Federal cash surplus or deficit (M).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget. Monthly seasonal adjustments by the Bureau of the Census do not equal quarterly totals of the official seasonally adjusted series because of differences in the method of seasonal adjustment
85. Percent change in total U.S. money supply (demand deposits plus currency) (M).--Board of Governors of the Federal Reserve System
86. Exports, excluding military aid shipments, total (M).--Department of Commerce, Bureau of the Census
87. General imports, total (M).--Department of Commerce, Bureau of the Census
88. Merchandise trade balance (series 86 minus series 87) (M).--Department of Commerce, Bureau of the Census
89. Excess of receipts or payments in U.S. balance of payments (Q).--Department of Commerce, Office of Business Economics
90. Defense Department obligations, procurement (M).--Department of Defense, Fiscal Analysis Division; seasonal adjustment by Bureau of the Census
91. Defense Department obligations, total (M).--Department of Defense, Fiscal Analysis Division; seasonal adjustment by Bureau of the Census
92. Military prime contract awards, U.S. business firms (M).--Department of Defense, Directorate for Statistical Services; seasonal adjustment by Bureau of the Census
93. Free reserves (member bank excess reserves minus borrowings) (M).--Board of Governors of the Federal Reserve System; no seasonal adjustment
94. Index of construction contracts, total value (M).--F. W. Dodge Corporation
95. Surplus or deficit, Federal income and product account (Q).--Department of Commerce, Office of Business Economics
96. Manufacturers' unfilled orders, durable goods industries (EOM).--Department of Commerce, Office of Business Economics; seasonal adjustment by Bureau of the Census
97. Backlog of capital appropriations, manufacturing (Q).--National Industrial Conference Board; component industries are seasonally adjusted by National Bureau of Economic Research, Inc., and added to obtain seasonally adjusted total.
98. Percent change in total U.S. money supply (demand deposits and currency) and commercial bank time deposits (M).--Board of Governors of the Federal Reserve System

7 INTERNATIONAL COMPARISONS OF  
INDUSTRIAL PRODUCTION

121. Organization for Economic Cooperation and Development, European Countries, index of industrial production (M).--Organization for Economic Cooperation and Development
122. United Kingdom, index of industrial production (M).--Organization for Economic Cooperation and Development
123. Canada, index of industrial production (M).--Dominion Bureau of Statistics, Ottawa
125. West Germany, index of industrial production (M).--Organization for Economic Cooperation and Development
126. France, index of industrial production (M).--Organization for Economic Cooperation and Development
127. Italy, index of industrial production (M).--Organization for Economic Cooperation and Development
128. Japan, index of industrial production (M).--The Bank of Japan, Statistics Department; seasonal adjustment by Bureau of the Census
- ... United States, index of industrial production (M).--See series 47.

DIFFUSION INDEXES

The "D" preceding a number indicates a diffusion index. Diffusion indexes and corresponding business cycle series bear the same number and are obtained from the same sources. See sources above for D1, D5, D6, D11, D19, D23, D41, D47, D54, and D61. Sources for other diffusion indexes are as follows:

- D33. Profits, Chicago PAA (M).--Purchasing Agents Association of Chicago; no seasonal adjustment
- D34. Profits, Manufacturing, FNCB (Q).--First National City Bank of New York; no seasonal adjustment of series components. Diffusion indexes are seasonally adjusted by National Bureau of Economic Research, Inc.
- D35. Net sales, total manufactures (Q).--Dun and Bradstreet, Inc., no seasonal adjustment
- D36. New orders, durable manufactures (Q).--Dun and Bradstreet, Inc.; no seasonal adjustment
- D48. Freight carloadings (Q).--Association of American Railroads; no seasonal adjustment
- D58. Wholesale prices, manufacturing (M).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment of series components. Diffusion indexes are seasonally adjusted by National Bureau of Economic Research, Inc.