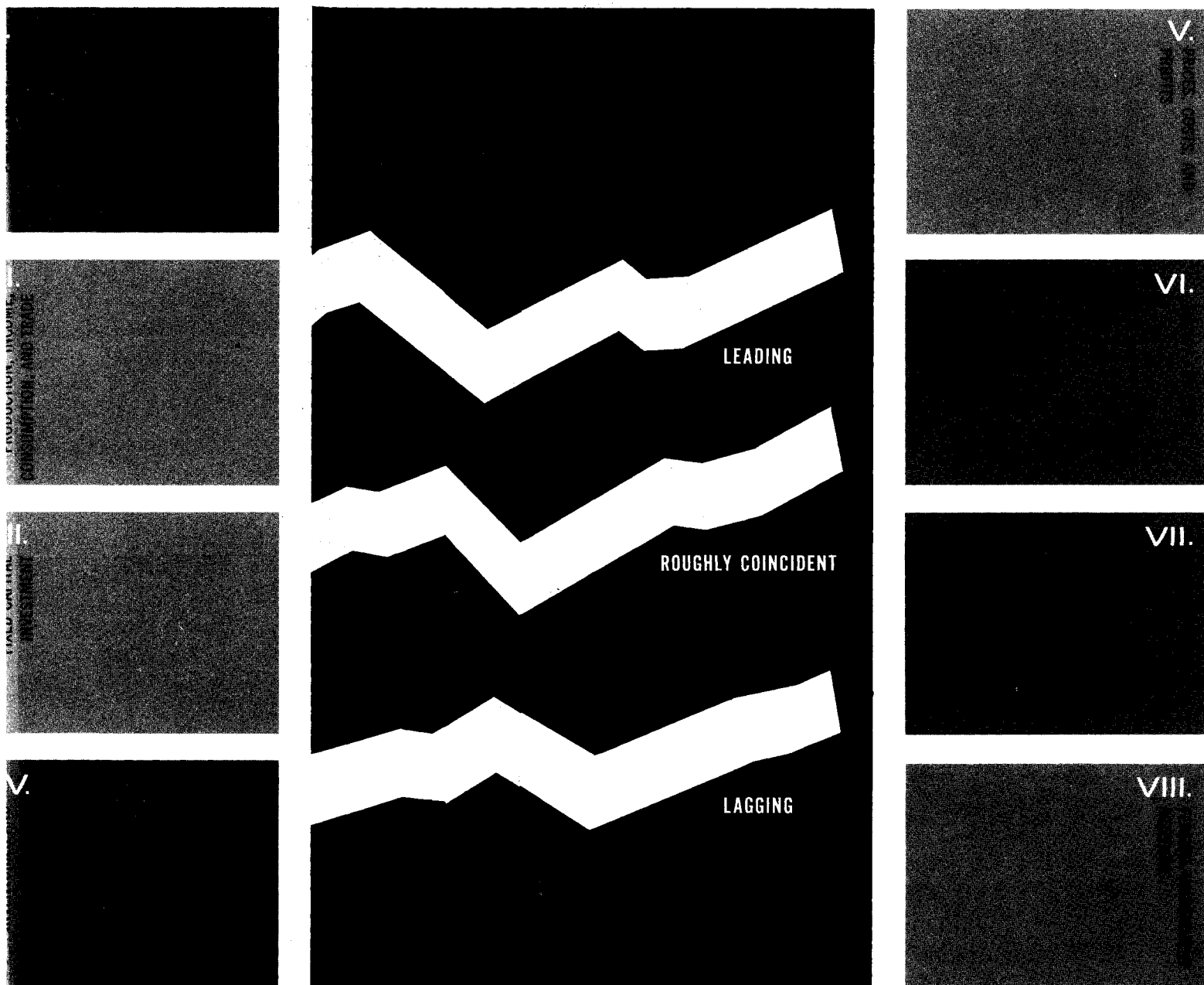


# bcd

## BUSINESS CYCLE DEVELOPMENTS

*September 1967*

DATA THROUGH AUGUST



This report was prepared in the Economic Research and Analysis Division under the direction of Julius Shiskin, Chief. Technical staff and their responsibilities for the publication are—

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Barry A. Beckman—Specifications for computer processing,  
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The cooperation of various government and private agencies which provide data is gratefully acknowledged. The agencies furnishing data are indicated in the list of series and sources on the back cover of this report.

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**ABOUT THE COVER**—Series in this publication are grouped according to their usual timing and shown against the background of contractions and expansions in general business activity. The center panel illustrates this concept. The vertical bar represents a contraction; the top curve, the Leading Series which usually fall before a contraction has begun and rise before it has ended; the middle curve, the Coincident Series which usually fall with the contraction period; the bottom curve, the Lagging Series which fall after a contraction has begun and rise after it ends. Series are also classified by economic process within each timing group. Processes are indicated in the squares bordering the panel.



## U.S. DEPARTMENT OF COMMERCE

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**PREFACE** This report brings together many of the available economic indicators in convenient form for analysis and interpretation. The presentation and classification of series follow the business indicators approach. The list of indicators and their classification into "leading," "roughly coincident," and "lagging" groups are those designated by the National Bureau of Economic Research (NBER), a private, nonprofit research organization which has been preparing lists of business cycle indicators for more than 40 years. The business cycle turning dates are also those designated by NBER. In addition, all series within each timing group are classified under eight economic processes (e.g., employment and unemployment; production, income, consumption, and trade; fixed capital investment; etc.). Some special series included in the list (such as labor costs in manufacturing and the total of machinery and equipment sales and business construction) have been constructed by the NBER for purposes of business cycle analysis.

The utilization of the National Bureau list of indicators and their cyclical turning dates is not to be taken as implying acceptance or endorsement by the Bureau of the Census or any other government agency of any approach to business cycle analysis, nor of the special series compiled by the National Bureau to facilitate cyclical studies. This report is intended only to supplement other Department of Commerce reports that provide information so arranged as to facilitate the analysis of current business conditions.

The unique features of BCD are the arrangement of data according to their usual timing relations during the course of the business cycle, the cross-classification by timing and economic process, and the inclusion of special analytical measures and historical cyclical comparisons that help in evaluating the current state of the business cycle. In addition, 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.

About 90 principal series and over 300 components are used in preparing BCD. Almost all of the basic data have been published by the source agency. A complete list of series titles and the sources of data is shown on the back cover of this report.

# BUSINESS CYCLE DEVELOPMENTS

September 1967  
DATA THROUGH AUGUST  
Series ES1 No. 67-9

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# Cross-Classification of Business Indicators by Economic Process and Cyclical Timing

(Minor economic processes and the number of series in each process are shown for each classification. See the index and back cover for series titles)

Economic Process / Cyclical Timing	LEADING INDICATORS (36 series)	ROUGHLY COINCIDENT INDICATORS (25 series)	LAGGING INDICATORS (11 series)	OTHER SELECTED U.S. SERIES (16 series)
<b>I. EMPLOYMENT AND UNEMPLOYMENT</b> (14 series)	Marginal employment adjustments (5 series)	Job vacancies (2 series) Comprehensive employment (3 series) Comprehensive unemployment (3 series)	Long-duration unemployment (1 series)	
<b>II. PRODUCTION, INCOME, CONSUMPTION, AND TRADE</b> (8 series)		Comprehensive production (3 series) Comprehensive income (2 series) Comprehensive consumption and trade (3 series)		
<b>III. FIXED CAPITAL INVESTMENT</b> (14 series)	Formation of business enterprises (2 series) New investment commitments (8 series)	Backlog of investment commitments (2 series)	Investment expenditures (2 series)	
<b>IV. INVENTORIES AND INVENTORY INVESTMENT</b> (9 series)	Inventory investment and purchasing (7 series)		Inventories (2 series)	
<b>V. PRICES, COSTS, AND PROFITS</b> (11 series)	Sensitive commodity prices (1 series) Stock prices (1 series) Profits and profit margins (4 series)	Comprehensive wholesale prices (2 series)	Unit labor costs (2 series)	Comprehensive retail prices (1 series)
<b>VI. MONEY AND CREDIT</b> (17 series)	Flows of money and credit (6 series) Credit difficulties (2 series)	Bank reserves (1 series) Money market interest rates (4 series)	Outstanding debt (2 series) Interest rates on business loans and mortgages (2 series)	
<b>VII. FOREIGN TRADE AND PAYMENTS</b> (6 series)				Foreign trade and payments (6 series)
<b>VIII. FEDERAL GOVERNMENT ACTIVITIES</b> (9 series)				Federal Government activities (9 series)

# BACKGROUND MATERIALS

A revised list of indicators was introduced in the April issue of *BUSINESS CYCLE DEVELOPMENTS*. Research work for the revised list was carried out by the National Bureau of Economic Research, Inc. (NBER), a private, nonprofit research organization which has been preparing lists of economic indicators and research reports in the field of business cycle analysis for more than 40 years. This revised list was published by the National Bureau in March 1967, and is the result of a periodic review made by that agency of its previous list of indicators of aggregate economic activity. This is the third revision of the list originally published by the National Bureau in 1938.

The method of preparing the new list, the reasons for adding certain series and dropping others, and an explanation of the classification system used are described in a new report, *INDICATORS OF BUSINESS EXPANSIONS AND CONTRACTIONS*, published by the National Bureau of Economic Research, Inc., 261 Madison Avenue, New York, N.Y., 10016. Other reports on the historical studies and methods of making current interpretations of the indicators are listed in this book.

The revised list includes some new series, discontinues some of those on the previous list, and has assigned timing classifications to some series previously unclassified by timing. The chief features of the new list follow:

1. The major principle of classification is a four-fold grouping by cyclical timing: Leading, roughly coincident, and lagging indicators, and other selected series. The first three categories take into account timing at both peaks and troughs; the fourth group includes economic activities that have an important role in business cycles but have displayed a less regular relation to them. The new list of indicators includes 36 leading series, 25 roughly coincident series, 11 lagging series, and 16 series unclassified by timing—88 series in all; 69 are monthly and 19 are quarterly. This list includes 13 series not on the previous NBER list and omits 5 series. In addition, 14 series previously unclassified by timing are assigned a timing classification.

2. The type of economic process represented by the series is used as a secondary principle of classification, with emphasis on the processes that are important for business cycle analysis. The 88 U.S. series are classified into eight major groups: (I) Employment and Unemployment, 14 series; (II) Production, Income, Consumption, and Trade, 8 series; (III) Fixed Capital Investment, 14 series; (IV) Inventories and Inventory Investment, 9 series; (V) Prices, Costs, and Profits, 11 series; (VI) Money and Credit, 17 series; (VII) Foreign Trade and Payments, 6 series; and (VIII) Federal Government Activities, 9 series. Each of these major categories is subdivided into economic processes that exhibit rather distinct differences in cyclical timing. For example, under Fixed Capital Investment, new investment commitments are distinguished from investment expenditures.

3. A short list of 25 indicators, drawn from the full list, is identified throughout BCD. This more selective list includes 12 leading, 7 roughly coincident, and 6 lagging series; 21 are monthly and 4 are quarterly. The short list involves little of the duplication

in economic coverage that is provided, for various reasons, in the full list. The series on the short list are identified by asterisks.

4. Two other groups of series are shown in BCD in addition to the 88 NBER indicators. They are "U.S. Series Under Consideration"—a group of eight series not yet classified by cyclical timing and economic process, but under consideration for the list of indicators—and "International Comparisons"—a group of seven series showing industrial production for several countries which have important trade relations with the United States.

Changes in the 1966 list of indicators are as follows (series identification number and title):

#### *13 series new to the 1966 list:*

33. Net change in mortgage debt held by financial institutions and life insurance companies

39. Delinquency rate, 30 days and over, total installment loans

58. Index of wholesale prices, manufactured goods  
\*71. Manufacturing and trade inventories, book value

\*72. Commercial and industrial loans outstanding, weekly reporting large commercial banks

101. National defense purchases

301. Nonagricultural job openings unfilled

\*502. Unemployment rate, persons unemployed 15 weeks and over

505. Machinery and equipment sales and business construction expenditures

511. Man-hours in nonagricultural establishments

\*816. Manufacturing and trade sales

861. Manufacturers' new orders for export, durable goods except motor vehicle and parts

862. Index of export orders, nonelectrical machinery

#### *5 series on the previous list but omitted from the 1966 list:*

4. Number of persons on temporary layoff, all industries

15. Number of business failures with liabilities of \$100,000 and over

\*51. Bank debits, all standard metropolitan statistical areas except New York

\*64. Manufacturers' inventories, book value

111. Corporate gross savings

#### *10 series specially constructed for business cycle studies at the suggestion of the NBER:*

\*10. Contracts and orders for plant and equipment

\*17. Ratio, price to unit labor cost, manufacturing

22. Ratio of profits to income originating, corporate, all industries

33. Net change in mortgage debt held by financial institutions and life insurance companies

\*38. Index of net business formation

53. Wages and salaries in mining, manufacturing, and construction

\*62. Index of labor cost per unit of output, manufacturing

68. Index of labor cost per dollar of real corporate GNP

505. Machinery and equipment sales and business construction expenditures

511. Man-hours in nonagricultural establishments

\*Denotes series included on "short list."

■ *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.*

Changes in this issue are as follows:

1.--Five of the series based wholly or in part on factory employment data (series 1, 2, 3, 41, and 856) have been revised throughout the report for the period beginning January 1965 to reflect the source agency's adoption of a new benchmark (March 1966). Additional revisions, due to a new seasonal adjustment by the source agency, are shown for the series on factory labor turnover (series 2 and 3) for the period prior to 1965. Revisions based on new seasonal adjustment for this earlier period are not yet available for series 1, 41, and 856.

Diffusion indexes D1 and D41 have been revised in this issue for the period beginning August 1966 only. Revisions for the earlier period will be shown in a subsequent issue.

Series 511 on man-hours in nonagricultural establishments, also based on factory employment data, will also be adjusted to the new benchmark. These revisions will be shown in BUSINESS CYCLE DEVELOPMENTS as soon as they are available.

Additional information concerning these revisions may be obtained from the U.S. Department of Labor, Bureau of Labor Statistics, Division of Industry Employment Statistics.

2.--Series 85 and 98 on money supply have been revised to reflect the source agency's adjustments to a new benchmark (1966) for the period beginning January 1965. In addition, revisions affecting data back to 1960 have been made by the source agency on the basis of a new seasonal adjustment. Further information concerning this revision may be obtained from the Board of Governors of the Federal Reserve System, Banking Section.

3.--Appendix F includes historical data for series 2, 3, 85, and 98.

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The October issue of BUSINESS CYCLE DEVELOPMENTS is scheduled for release on October 27.

### **3 CENSUS PROJECTS on economic fluctuations**

**CENSUS METHOD II ADJUSTMENT PROGRAM.** *A time series computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations and the relations among them. This program is particularly useful in analyzing economic fluctuations which take place within a year.*

The latest variant, X-11, has greater generality and scope than any of the earlier programs. It can adjust quarterly as well as monthly series and series with negative and positive numbers as well as those with positive numbers alone. The X-11 version measures and adjusts not only for seasonal variations, but also for trading-day variations. Further, it computes many summary and analytical measures of the behavior of each series. The program includes various techniques, such as F tests and variance analysis, for use in extending the scope of time series studies and is written in a simplified computer language—Fortran IV. The program deck can be purchased from the Census Bureau at cost.

**BUSINESS CYCLE DEVELOPMENTS.** *A monthly report for analyzing economic fluctuations over a short span of years.*

This report brings together several hundred monthly and quarterly “economic indicator” series for the analysis of short-term economic trends and prospects. These series have been selected, tested, and evaluated, after half a century of continuing research, as the most useful and reliable for this purpose. The publication provides not only the basic data, but also various charts and analytical tables to facilitate such studies. In addition, a time series punch-card file, a diffusion index program, and a separate summary-measures computer program are available for those who wish to carry on further research in business cycle analysis.

**LONG TERM ECONOMIC GROWTH** *An annual report for the study of economic fluctuations over a long span of years.*

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It has been planned, prepared, and published as a basic research document for economists, historians, investors, teachers, and students. It brings together for the first time under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. It is a unique presentation of the full range of factors required for an understanding of our country's economic development. Some of the statistical series go back to 1860. A punchcard file of the time series included in the report is available for purchase.

# DESCRIPTIONS AND PROCEDURES

## INTRODUCTION

The business cycle is generally described as consisting of alternating periods of expansion and contraction in aggregate economic activity—that is, the complex of activities represented by such concepts as total production, employment, income, consumption, trade, and the flow of funds. Although a recurrent pattern has been characteristic of American economic history, many economists do not consider it inevitable.

The causal relations among various economic processes are primarily responsible for the cumulative nature of cyclical forces and explain why expansions have eventually turned into recessions and recessions into expansions. Cyclical fluctuations in production and employment are preceded by fluctuations in measures which relate to future rather than current production—measures such as new orders for durable goods, formation of new business enterprises, and accretions to payrolls. They are followed by fluctuations in various economic costs, such as labor costs, interest rates, fulfillment of long-term commitments, and holdings of inventories and debts.

## TIMING CLASSIFICATION

On the basis of many years of research, the National Bureau of Economic Research (NBER) has compiled a list of indicators of aggregate economic activity and has classified these indicators according to whether they usually lead, roughly coincide with, or lag behind the cyclical movements in aggregate activity. The 1966 list, as issued by the NBER, is the basis for the presentation of U.S. series in *BUSINESS CYCLE DEVELOPMENTS*. Prior to April 1967, their 1960 list was used. The series have been grouped and classified by the NBER as “leading,” “roughly coincident,” or “lag-

ging” indicators. These indicators are described as follows:

**Leading Indicators.**—Series that usually reach peaks or troughs before those in aggregate economic activity as measured by the roughly coincident series (see below). One group of these series pertains to orders and contracts, another to inventory investment, and so on.

**Roughly Coincident Indicators.**—Series that are direct measures of aggregate economic activity or move roughly together with it; for example, nonagricultural employment, industrial production, and retail sales.

**Lagging Indicators.**—Series, such as new plant and equipment expenditures and manufacturers’ inventories, that usually reach turning points after they are reached in aggregate economic activity.

Also included in BCD are (a) “Other Selected U.S. Series,” economic activities which are important in analyzing business cycles but have a less consistent relation to them; (b) “U.S. Series Under Consideration,” indicators that measure important economic relationships but have not been classified by economic process and timing and, therefore, not yet incorporated into the list of 88 indicators; and (c) industrial production indexes for several countries which have important trade relations with the United States.

The business cycle turning dates used in this report are those designated by the NBER. They mark the approximate dates when aggregate economic activity reached its cyclical high (peak) or low (trough) levels. As a matter of general practice, a business cycle turning date will not be designated until at least 6 months after it has occurred. (See appendix A for peak and trough dates.)

## ECONOMIC PROCESS CLASSIFICATION

A secondary principle of classification, economic process, supplements the timing classification. All series are cross-classified according to these two principles. The major economic process categories are employment and unemployment; production, income, consumption, and trade; fixed capital investment; inventories and inventory investment; prices, costs, and profits; money and credit; foreign trade and payments; and Federal Government activity.

## "SHORT LIST" OF INDICATORS

A short, substantially unduplicated list of principal indicators provides a convenient way of summarizing the current situation and outlook. The NBER has identified, for this purpose, a short list of 25. This list includes 12 leading, 7 roughly coincident, and 6 lagging indicators; 21 are monthly and 4 are quarterly. These series are identified throughout BCD.

## METHOD OF PRESENTATION

This report consists of three major sections as follows:

**Basic Data** (chart 1, tables 1 and 2).—Data for all series are shown for the current and prior periods in both graphic and tabular form. Thus, a broad view of past and current business cycle fluctuations is provided.

**Analytical Measures** (chart 2, tables 3 to 5).—Measures are presented which help to determine the magnitude and scope of current changes in different processes, industries, and areas, and aid in evaluating the prospects of a turning point in the business cycle.

**Cyclical Patterns** (chart 3).—Comparisons are made between current cyclical levels and previous business cycles.

A list of titles and sources for all series is shown on the back cover of this report. The series numbers are for identification only and do not reflect series relationships or order.

## CONCEPTS AND PROCEDURES

Several other concepts and procedures used in this report are summarized below:

Adjustments for average seasonal fluctuations are often necessary to bring out the underlying cyclical trends of a series. In most cases, the seasonally ad-

justed data used for a series are the official figures released by the source agency. In addition, 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. The *seasonal adjustment* process usually accounts for variations due to holidays; however, there are some cases in which a separate *holiday adjustment* is needed for holidays with variable dates.

Months for cyclical dominance (*MCD*) is an estimate of the appropriate span over which to observe the cyclical movements in a monthly series. *MCD moving averages* are shown in chart 1 for series with an *MCD* of "5" or more; however, to provide an indication of the variation about these moving averages, monthly data are also plotted.

*Diffusion indexes* are simple summary measures which express what percentage of the components of an aggregate series has risen over given time spans. Their turning points tend to lead those of the aggregate. Series numbers preceded by "D" designate diffusion indexes. Many of the component series used to make up the diffusion indexes are shown in table 5.

During the current expansion, *high values* for the indicators are identified in table 2. These values are not necessarily cyclical peak values, but are simply the highest values reached to date.

Certain *appendix materials* are presented regularly in this report. These materials include historical data, adjustment factors, peak and trough dates, and other information helpful in interpreting trends in the indicators.

## REFERENCES

Fuller explanations of the use of indicators of aggregate economic activity in analyzing current business conditions and prospects may be found in the following references:

- (1) Alexander, Sidney S. "Rate of Change Approaches to Forecasting—Diffusion Indexes and First Differences," *The Economic Journal*, June 1958, pp. 288-301.
- (2) Broida, Arthur L. "Diffusion Indexes," *American Statistician* vol. IX, No. 2 (June 1955), pp. 7-16.
- (3) Burns, Arthur F. and Mitchell, Wesley C. *Measuring Business Cycles*. New York: National Bureau of Economic Research, Inc., 1946.

- (4) Daly, D. J. and White, D. A. "Economic Indicators in the 1960's," *Proceedings of the Business and Economics Statistics Section, American Statistical Association*, August 1966, pt. V, pp. 64-75.
- (5) Gordon, R. A. "Alternative Approaches to Forecasting: The Recent Work of the National Bureau," *The Review of Economics and Statistics* vol. XLIV, No. 3 (August 1962), pp. 284-291.
- (6) Lempert, Leonard H. "Leading Indicators," *How Business Economists Forecast* (William F. Butler and Robert A. Kavesh, Ed.) pt. I, ch. 2, pp. 31-47. Englewood Cliffs, N.J.: Prentice-Hall, 1966.
- (7) Moore, Geoffrey H., Editor, *Business Cycle Indicators*. New York: National Bureau of Economic Research, Inc., 1961.
- (8) Moore, Geoffrey H. and Shiskin, Julius. *Indicators of Business Expansions and Contractions*, Occasional Paper 103. New York: National Bureau of Economic Research, Inc., 1967.
- (9) Morris, Frank E. "The Predictive Value of the National Bureau's Leading Indicators," *Business Cycle Indicators* vol. I, ch. 4, pp. 110-119. New York: National Bureau of Economic Research, Inc., 1961.
- (10) Okun, Arthur M. "On the Appraisal of Cyclical Turning Point Predictors," *Journal of Business*, April 1960, pp. 101-120.
- (11) Shiskin, Julius. *Business Cycle Indicators: The Known and the Unknown*. Paper presented at the 34th session of the International Statistical Institute, Ottawa, Canada, August 24, 1963. Washington: Bureau of the Census, 1963.
- (12) Shiskin, Julius. *Signals of Recession and Recovery*, Occasional Paper 77. New York: National Bureau of Economic Research, Inc., 1961.



# HOW TO READ CHARTS 1 AND 2

**Peak (P)** of cycle indicates end of expansion and beginning of Recession (shaded areas) as designated by NBER.

**Series numbers** are for identification only and do not reflect series relationships or order. Series are arranged in charts and tables according to their classification by timing and economic process.

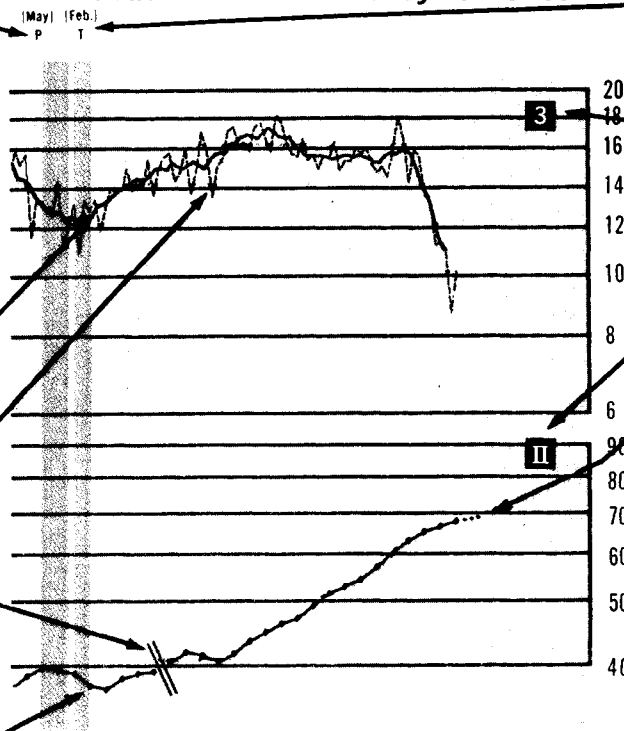
**Solid line** indicates monthly data. (Data may be actual monthly figures or MCD moving averages.\*)

**Broken line** indicates actual monthly data for series where an MCD moving average\* is plotted.

**Parallel lines** indicate a break in continuity (data not available, changes in series definitions, extreme values, etc.).

**Solid line with plotting points** indicates quarterly data.

**CHART 1 – Business Cycle Series**



**Trough (T)** of cycle indicates end of recession and beginning of Expansion as designated by NBER.

**Arabic number** indicates latest month for which data are plotted. ("3" = March)

**Roman number** indicates latest quarter for which data are plotted. ("II" = second quarter)

**Dotted line** indicates anticipated data.

**Various scales** are used to highlight the patterns of the individual series. "Scale A" is an arithmetic scale, "scale L-1" is a logarithmic scale with 1 cycle in a given distance, "scale L-2" is a logarithmic scale with 2 cycles in that distance, etc. The scales should be carefully noted because they show whether or not the plotted lines for various series are directly comparable.

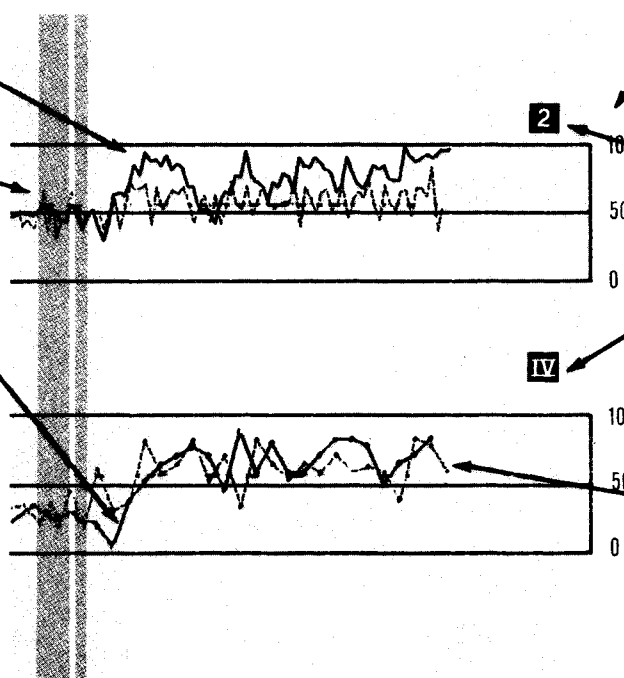
**CHART 2 – Diffusion Indexes**

**Solid line** indicates monthly data over 6- or 9-month spans.

**Broken line** indicates monthly data over 1-month spans.

**Solid line with plotting points** indicates quarterly data over various spans.

\* Many of the more irregular series are shown in terms of their MCD moving averages as well as their actual monthly data. In such cases, the 4-, 5-, or 6-term moving averages are plotted 1½, 2, or 2½ months, respectively, behind the actual data. See appendix C for a description of MCD moving averages.



**Scale shows percent of components rising.**

**Arabic number** indicates latest month for which data are used in computing the indexes. ("2" = February)

**Roman number** indicates latest quarter for which data are used in computing the indexes. ("IV" = fourth quarter)

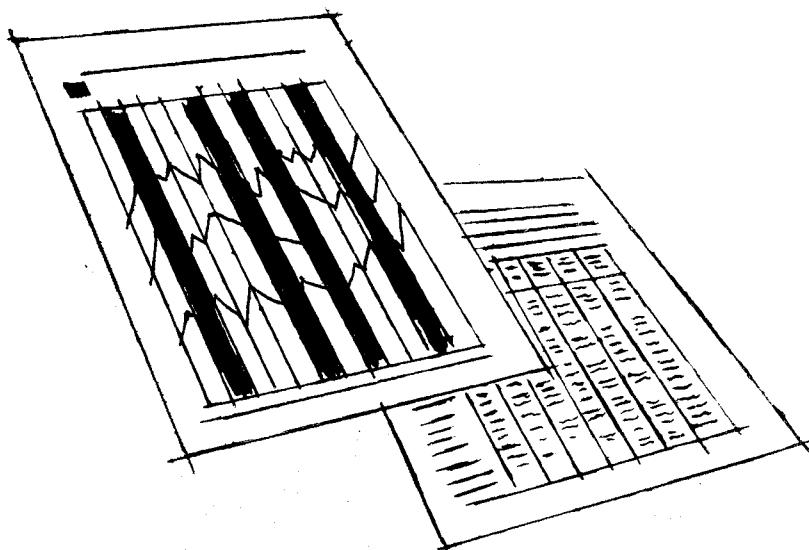
**Broken line with plotting points** indicates quarterly data over various intervals. This line is also used to indicate anticipated quarterly data.

## HOW TO LOCATE A SERIES

To locate a series in **BCD**, consult the **Index—Series Finding Guide** in the back of the book where series are arranged into eight groups by economic process and cross referenced by timing classification in the first column. The back cover, which lists series titles (followed by a Roman numeral denoting economic process group) and sources in numerical order within each timing group, may also be helpful to some readers.



## Section ONE



# BASIC DATA

## charts and tables

### LEADING INDICATORS

*Employment and unemployment*  
*Fixed capital investment*  
*Inventories and inventory investment*  
*Prices, costs, and profits*  
*Money and credit*

### ROUGHLY COINCIDENT INDICATORS

*Employment and unemployment*  
*Production, income, consumption, and trade*  
*Fixed capital investment*  
*Prices, costs, and profits*  
*Money and credit*

### LAGGING INDICATORS

*Employment and unemployment*  
*Fixed capital investment*  
*Inventories and inventory investment*  
*Prices, costs, and profits*  
*Money and credit*

### OTHER U.S. SERIES

*Prices, costs, and profits*  
  
*Foreign trade and payments*  
  
*Federal Government activities*

**Also U.S. SERIES UNDER CONSIDERATION (unclassified series) and INTERNATIONAL COMPARISONS (industrial production indexes for selected foreign countries)**



## BASIC DATA

CHANGES OVER 4 LATEST MONTHS

SEPTEMBER 1967

bcd

Series (See complete titles and sources on back cover)	Basic data <sup>1</sup>					Average percent change <sup>2 3</sup>			Current percent change <sup>3</sup>		
	Unit of measure	May 1967	June 1967	July 1967	Aug. 1967	Aug. '66 to date (with sign) <sup>4</sup>	Aug. '66 to date (without sign) <sup>5</sup>	1953 to 1965 (without sign) <sup>5 6</sup>	May to June 1967	June to July 1967	July to Aug. 1967
LEADING INDICATORS											
I. EMPLOYMENT AND UNEMPLOYMENT											
Marginal Employment Adjustments:											
*1. Avg. workweek, prod. workers, mfg. ....	Hours .....	r40.3	r40.3	r40.5	p40.6	-0.2	0.4	0.5	0.0	+0.5	+0.2
*30. Nonagri. placements, all industries ....	Thousands.....	448	487	484	p487	(NA)	(NA)	1.8	+8.7	-0.6	+0.6
2. Accession rate, manufacturing .....	Per 100 employ..	4.6	r4.6	p4.1	(NA)	-1.8	4.7	4.6	0.0	-10.9	(NA)
5. Avg. weekly initial claims, State unemployment insurance (inverted <sup>3</sup> ) .	Thousands.....	234	225	265	211	-1.2	8.9	5.0	+3.8	-17.8	+20.4
*3. Layoff rate, manufacturing (inverted <sup>3</sup> ) .	Per 100 employ..	1.4	1.4	p1.6	(NA)	-3.8	7.1	9.2	0.0	-14.3	(NA)
III. FIXED CAPITAL INVESTMENT											
Formation of Business Enterprises:											
*38. Index of net business formation .....	1957-59=100...	105.7	109.0	108.4	(NA)	+0.4	1.2	0.8	+3.1	-0.6	(NA)
13. New business incorporations .....	Number .....	17,627	17,799	16,072	(NA)	-0.1	3.2	2.5	+1.0	-9.7	(NA)
New Investment Commitments:											
*6. New orders, durable goods industries. .	Bil. dollars....	23.86	r24.26	r23.38	p22.85	-0.1	3.9	3.8	+1.7	-3.6	-2.3
94. Construction contracts, value .....	1957-59=100...	154	164	149	155	+1.2	6.7	6.6	+6.5	-9.1	+4.0
*10. Contracts and orders, plant and equip. .	Bil. dollars....	5.55	5.82	r5.54	p5.98	+0.3	4.1	4.7	+4.9	-4.8	+7.9
11. New capital appropriations, mfg. <sup>7</sup> .....	do .....	p5.45				-3.0	3.0	9.7			
24. New orders, mach. and equip. indus. ....	do .....	4.61	4.79	r4.68	p4.88	+0.2	2.9	4.2	+3.9	-2.3	+4.3
9. Construction contracts, commercial and industrial buildings	Mil. sq. ft. floor space ...	53.16	64.03	55.29	63.00	+0.8	11.9	9.3	+20.4	-13.6	+13.9
7. Private nonfarm housing starts. ....	Ann. rate, thous.	1,254	r1,214	r1,349	p1,355	+2.4	8.9	7.3	-3.2	+11.1	+0.4
*29. New bldg. permits, private housing ....	1957-59=100 ..	91.1	97.9	r96.4	p97.1	+2.6	6.3	3.7	+7.5	-1.5	+0.7
IV. INVENTORIES AND INVENTORY INVESTMENT											
Inventory Investment and Purchasing:											
21. Change in business inventories, all industries <sup>7 8</sup> .....	Ann. rate, bil.dol.	+0.5				-3.6	8.4	2.3			
*31. Change in book value, manufacturing and trade inventories <sup>8</sup> .....	do .....	+0.9	r-3.3	p-0.4	(NA)	-1.5	4.4	3.7	-4.2	+2.9	(NA)
37. Purchased materials, percent reporting higher inventories .....	Percent .....	39	42	40	43	-2.0	7.9	6.5	+7.7	-4.8	+7.5
20. Change in book value, mfrs.' inven- tories of materials and supplies <sup>8</sup> .....	Ann. rate, bil.dol.	-1.1	r-1.0	p-1.8	(NA)	-0.6	1.2	1.5	+0.1	-0.8	(NA)
26. Buying policy, prod. mtl's., commit- ments 60 days or longer <sup>11</sup> .....	Percent .....	66	68	61	66	-0.7	4.0	5.3	+3.0	-10.3	+8.2
32. Vendor performance, percent reporting slower deliveries <sup>11</sup> .....	do .....	36	38	41	43	-3.8	8.3	7.5	+5.6	+7.9	+4.9
25. Change in unfilled orders, durable goods industries <sup>8</sup> .....	Bil. dollars ...	+0.96	r+1.21	r+0.26	p-0.36	-0.08	0.93	0.48	+0.25	-0.95	-0.62
V. PRICES, COSTS, AND PROFITS											
Sensitive Commodity Prices:											
*23. Industrial materials prices <sup>11</sup> .....	1957-59=100... .	99.6	99.8	98.3	98.1	-1.1	1.3	1.3	+0.2	-1.5	-0.2
Stock Prices:											
*19. Stock prices, 500 common stocks <sup>11</sup> ...	1941-43=100 ...	92.59	91.43	93.01	94.49	+1.4	2.3	2.5	-1.3	+1.7	+1.6
Profits and Profit Margins:											
*16. Corporate profits after taxes <sup>7</sup> .....	Ann. rate, bil.dol.	r46.5				-2.0	2.0	5.6			
22. Ratio, profits to income originating, corporate, all industries <sup>7</sup> .....	Percent .....	r11.9				-2.9	2.9	4.2			
18. Profits per dollar of sales, mfg. <sup>7</sup> .....	Cents .....	8.2				-3.8	3.8	5.7			
*17. Ratio, price to unit labor cost, mfg. ....	1957-59=100 ..	100.3	r99.8	r100.8	p100.1	-0.4	0.6	0.6	-0.5	+1.0	-0.7
VI. MONEY AND CREDIT											
Flows of Money and Credit:											
98. Change in money supply and time deposits <sup>8</sup> .....	Ann.rate,percent	r+13.08	r+14.28	r+13.44	p+13.32	+0.68	3.38	2.49	+1.20	-0.84	-0.12
85. Change in total U.S. money supply <sup>8</sup> ....	do .....	r+12.48	r+11.64	r+11.52	p+8.76	+0.61	4.97	2.88	-0.84	-0.12	-2.76
33. Change in mortgage debt <sup>8</sup> .....	Ann. rate, bil.dol.	+15.80	r+19.34	p+12.95	(NA)	+0.04	2.63	1.31	+3.54	-6.39	(NA)
*113. Change in consumer installment debt <sup>8</sup> ..	do .....	+2.32	+3.50	+2.70	(NA)	-0.41	0.87	0.87	+1.18	-0.80	(NA)
112. Change in business loans <sup>8</sup> .....	do .....	+1.63	+8.16	+16.46	p-9.44	-1.03	6.75	2.22	+6.53	+8.30	-25.90
110. Total private borrowing <sup>7</sup> .....	Ann. rate, mil.dol	p65,400				+5.8	12.7	11.0			
Credit Difficulties:											
14. Liabilities of business failures (inv. <sup>3</sup> )	Mil. dollars ...	93.00	87.20	64.15	98.29	+0.3	20.5	18.7	+6.2	+26.4	-53.2
39. Delinquency rate, installment loans, 30 days and over (inverted <sup>3</sup> ) .....	Percent .....		1.72		(NA)	+0.3	4.4	2.6	+9.5		(NA)



Series (See complete titles and sources on back cover)	Basic data <sup>1</sup>					Average percent change <sup>2 3</sup>			Current percent change <sup>3</sup>		
	Unit of measure	May 1967	June 1967	July 1967	Aug. 1967	Aug. '66 to date (with sign) <sup>4</sup>	Aug. '66 to date (without sign) <sup>5</sup>	1953 to 1965 (without sign) <sup>5 6</sup>	May to June 1967	June to July 1967	July to Aug. 1967
<b>ROUGHLY COINCIDENT INDICATORS</b>											
<b>I. EMPLOYMENT AND UNEMPLOYMENT</b>											
Job Vacancies:											
301. Nonagri. job openings unfilled .....	Thousands....	350	347	337	p352	-1.5	2.8	3.1	-0.9	-2.9	+4.5
46. Help-wanted advertising .....	1957-59 = 100 ..	174	171	169	p180	-0.4	2.0	3.0	-1.7	-1.2	+6.5
Comprehensive Employment:											
511. Man-hours in nonagri. establishments...	Ann. rate, bil. man-hours ...	132.69	133.34	134.24	p135.43	+0.2	0.4	0.4	+0.5	+0.7	+0.9
*41. Employees in nonagri. establishments ..	Thousands....	r65,639	r65,903	r65,947	p66,250	+0.2	0.3	0.3	+0.4	+0.1	+0.5
42. Total nonagricultural employment .....	..... do.....	69,637	70,420	70,633	70,726	+0.2	0.4	0.4	+1.1	+0.3	+0.1
Comprehensive Unemployment:											
*43. Unemployment rate, total (inverted <sup>3</sup> )...	Percent.....	3.8	4.0	3.9	3.8	-0.1	3.1	3.9	-5.3	+2.5	+2.6
45. Avg. weekly insured unemploy. rate, State (inverted <sup>3</sup> ) .....	..... do.....	2.7	2.6	2.8	2.6	-0.9	5.6	4.2	+3.7	-7.7	+7.1
40. Unemployment rate, married males (inv <sup>2</sup> )	..... do.....	1.9	2.0	1.8	2.0	-0.2	5.5	5.1	-5.3	+10.0	-11.1
<b>II. PRODUCTION, INCOME, CONSUMPTION, AND TRADE</b>											
Comprehensive Production:											
49. GNP in current dollars <sup>7</sup> .....	Ann. rate, bil. dol.	775.1				+1.2	1.2	1.5			
*50. GNP in 1958 dollars <sup>7</sup> .....	..... do.....	664.7				+0.5	0.5	1.3			
*47. Industrial production .....	1957-59 = 100 ..	r155.6	r155.5	r156.7	p158.0	0.0	0.4	1.0	-0.1	+0.8	+0.8
Comprehensive Income:											
*52. Personal income .....	Ann. rate, bil. dol.	618.2	622.6	r626.7	p631.2	+0.6	0.6	0.5	+0.7	+0.7	+0.7
53. Wages, salaries in mining, mfg., constr.	..... do.....	161.5	162.4	r163.1	p164.7	+0.3	0.5	0.8	+0.6	+0.4	+1.0
Comprehensive Consumption and Trade:											
*816. Manufacturing and trade sales .....	Mil. dollars...	87,611	r88,549	p89,048	(NA)	+0.2	0.8	1.0	+1.1	+0.6	(NA)
57. Final sales <sup>7</sup> .....	Ann. rate, bil. dol.	774.6				+1.7	1.7	1.4			
*54. Sales of retail stores .....	Mil. dollars...	25,897	r26,544	r26,644	p27,016	+0.5	0.9	1.0	+2.5	+0.4	+1.4
<b>III. FIXED CAPITAL INVESTMENT</b>											
Backlog of Investment Commitments:											
96. Unfilled orders, durable goods indus. ...	Bil. dollars...	74.97	r76.18	r76.45	p76.09	+0.3	1.0	1.4	+1.6	+0.4	-0.5
97. Backlog of capital appropriations, mfg. <sup>9</sup>	..... do.....	...	p19.82			-1.5	1.5	5.6	-2.8		
<b>V. PRICES, COSTS, AND PROFITS</b>											
Comprehensive Wholesale Prices:											
55. Wholesale prices, indus. commod. <sup>10</sup> ...	1957-59 = 100 ..	106.0	106.0	106.0	106.3	+0.1	0.1	0.2	0.0	0.0	+0.3
58. Wholesale prices, manufactured goods <sup>10</sup>	..... do.....	106.3	106.6	106.8	106.8	0.0	0.1	0.2	+0.3	+0.2	0.0
<b>VI. MONEY AND CREDIT</b>											
Bank Reserves:											
93. Free reserves <sup>8</sup> (inverted <sup>3</sup> ) <sup>11</sup> .....	Mil. dollars...	+269	+297	+272	p+282	-56	81	98	-28	+25	-10
Money Market Interest Rates:											
114. Treasury bill rate <sup>12</sup> .....	Per cent .....	3.64	3.48	4.31	4.28	-0.8	6.3	6.7	-4.4	+23.9	-0.7
116. Corporate bond yields <sup>12</sup> .....	..... do.....	5.90	6.06	6.06	6.30	+0.4	2.8	1.6	+2.7	0.0	+4.0
115. Treasury bond yields <sup>12</sup> .....	..... do.....	4.76	4.86	4.86	4.95	+0.3	1.9	1.6	+2.1	0.0	+1.9
117. Municipal bond yields <sup>12</sup> .....	..... do.....	3.89	3.96	4.02	3.99	-0.2	2.5	2.5	+1.8	+1.5	-0.7
<b>LAGGING INDICATORS</b>											
<b>I. EMPLOYMENT AND UNEMPLOYMENT</b>											
Long-Duration Unemployment:											
*502. Unemployment rate, persons unemployed 15 weeks and over (inverted <sup>3</sup> ) .....	Percent .....	0.5	0.6	0.6	0.6	-0.5	5.6	6.5	-20.0	0.0	0.0
<b>III. FIXED CAPITAL INVESTMENT</b>											
Investment Expenditures:											
*61. Bus. expenditures, new plant and equip. <sup>7</sup>	Ann. rate, bil. dol.	61.50	...	...	ra62.50	+0.5	1.6	3.2	...	...	+1.6
505. Machinery and equipment sales and business construction expenditures ..	..... do.....	67.59	r68.30	p68.69	(NA)	-0.6	1.6	1.6	+1.1	+0.6	(NA)
<b>IV. INVENTORIES AND INVENTORY INVESTMENT</b>											
Inventories:											
*71. Book value, mfg. and trade inventories ..	Bil. dollars...	137.43	r137.15	p137.12	(NA)	+0.5	0.5	0.5	-0.2	0.0	(NA)
65. Book value, mfrs.' inventories of finished goods .....	..... do.....	27.28	r27.00	p27.18	(NA)	+0.9	1.1	0.6	-1.0	-0.7	(NA)

Table 1



# BASIC DATA

CHANGES OVER 4 LATEST MONTHS—Continued

SEPTEMBER 1967

bcd

Series (See complete titles and sources on back cover)	Basic data <sup>1</sup>					Average percent change <sup>2 3</sup>			Current percent change <sup>3</sup>		
	Unit of measure	May 1967	June 1967	July 1967	Aug. 1967	Aug. '66 to date (with sign) <sup>4</sup>	Aug. '66 to date (without sign) <sup>5</sup>	1953 to 1965 (without sign) <sup>5 6</sup>	May to June 1967	June to July 1967	July to Aug. 1967
<b>LAGGING INDICATORS—Continued</b>											
<b>V. PRICES, COSTS, AND PROFITS</b>											
Unit Labor Costs:											
68. Labor cost (cur. dol.) per unit of gross product (1958 dol.), nonfin. corp. <sup>7</sup> ....	Dollars .....	r0.713				+1.3	1.3	0.8			
*62. Labor cost per unit of output, mfg .....	1957-59=100 ...	106.0	r106.8	r106.0	p106.7	+0.4	0.6	0.5	+0.8	-0.7	+0.7
<b>VI. MONEY AND CREDIT</b>											
Outstanding Debt:											
66. Consumer installment debt .....	Mil. dollars ....	74,632	74,924	75,149	(NA)	+0.4	0.4	0.8	+0.4	+0.3	(NA)
*72. Commercial and industrial loans outstanding .....	.....do .....	61,898	63,341	64,352	p62,944	+0.6	1.2	1.0	+2.3	+1.6	-2.2
Interest Rates on Business Loans and Mortgages:											
*67. Bank rates on short-term bus. loans <sup>7</sup> @.	Percent .....	5.95	...	...	5.94	-1.4	1.5	2.0	...	...	-0.2
118. Mortgage yields, residential @ .....	.....do .....	6.44	6.51	6.53	6.60	0.0	1.4	0.1	+1.1	+0.3	+1.1
<b>OTHER SELECTED U.S. SERIES</b>											
<b>V. PRICES, COSTS, AND PROFITS</b>											
Comprehensive Retail Prices:											
81. Consumer prices @ .....	1957-59=100 ...	115.6	116.0	116.5	116.9	+0.2	0.2	0.2	+0.3	+0.4	+0.3
<b>VII. FOREIGN TRADE AND PAYMENTS</b>											
89. U.S. balance of payments <sup>7 8</sup>											
a. Liquidity balance basis .....	Mil. dollars ....	p-513				-116	131	341			
b. Official settlements basis .....	.....do .....	p-830				-564	1,227	492			
88. Merchandise trade balance <sup>8</sup> (inverted <sup>3</sup> )	.....do .....	+426.2	+355.3	+355.2	+445.9	-8.9	64.3	58.4	+70.9	+0.1	-90.7
86. Exports, excluding military aid .....	.....do .....	2,544.8	2,583.5	2,590.6	2,560.7	+0.4	2.7	3.8	+1.5	+0.3	-1.2
861. Export orders, durables exc. mot. veh. @	.....do .....	1,029	r1,043	p910	(NA)	+3.4	19.2	12.4	+1.4	-12.8	(NA)
862. Export orders, nonelectrical machinery	1957-59=100 ...	220	r218	p236	(NA)	+2.3	9.3	6.3	-0.9	+8.3	(NA)
87. General imports .....	Mil. dollars ....	2,118.6	2,228.2	2,235.4	2,114.8	+0.1	3.4	3.0	+5.2	+0.3	-5.4
<b>VIII. FEDERAL GOVERNMENT ACTIVITIES</b>											
95. Federal surplus (+) or deficit (-), nat'l. income and prod. acct. <sup>7 8</sup> .....	Ann. rate, bil. dol.	r-14.7				-4.7	4.7	2.5			
84. Federal cash surplus (+) or deficit (-) <sup>7 8</sup>	.....do .....	+12.5				+9.1	9.1	4.8			
83. Federal cash receipts from public <sup>7</sup> .....	.....do .....	165.8				+4.5	4.5	3.4			
82. Federal cash payments to public <sup>7</sup> .....	.....do .....	153.3				-1.4	3.7	3.8			
101. National defense purchases, current dollars <sup>7</sup> .....	.....do .....	72.5				+4.8	4.8	2.3			
91. Defense Dept. obligations, total .....	Mil. dollars ....	7,896	p6,791	(NA)		-0.1	7.5	13.9	-14.0	(NA)	
90. Defense Dept. oblig., procurement .....	.....do .....	2,608	p2,174	(NA)		+1.4	15.9	27.4	-16.6	(NA)	
99. New orders, defense products indus. ....	Bil. dollars ....	3.86	r4.20	r3.56	p2.63	+0.8	18.4	22.5	+8.8	-15.2	-26.1
92. Military contract awards in U.S. ....	Mil. dollars ....	4,121	3,626	p3,561	(NA)	+2.2	11.5	18.1	-12.0	-1.8	(NA)
<b>U.S. SERIES UNDER CONSIDERATION</b>											
850. Ratio, output to capacity, mfg. <sup>7</sup> .....	Percent .....	p84.7				-2.2	2.2	2.2			
851. Ratio, inventories to sales, mfg., trade.	Ratio .....	1.57	1.55	p1.54	(NA)	+0.3	0.9	1.0	-1.3	-0.6	(NA)
852. Ratio, unfilled orders to shipments, manufacturers' durable goods .....	.....do .....	3.69	3.74	r3.70	p3.67	+0.3	1.5	2.0	+1.4	-1.1	-0.8
853. Ratio, production of business equipment to consumer goods .....	1957-59=100 ...	124.9	r123.6	r123.2	p122.6	-0.2	0.8	1.0	-1.0	-0.3	-0.5
854. Ratio, personal saving to disposable personal income <sup>7</sup> .....	Ratio .....	0.067				+6.1	11.5	8.5			
855. Ratio, nonagri. job openings unfilled to persons unemployed .....	.....do .....	0.121	0.112	0.112	p0.118	-1.6	4.1	5.8	-7.4	0.0	+5.4
856. Ratio, avg. earnings to consumer prices	1957-59=100 ...	114.9	r115.2	r115.2	p115.6	+0.1	0.2	0.4	+0.3	0.0	+0.3
857. Vacancy rate, total rental housing <sup>7</sup> ...	Percent .....	6.4				-2.0	2.9	3.6			

\*Series included in the 1966 NBER "short list" of indicators. @Not seasonally adjusted. NA=not available; r=revised; p=preliminary; e=estimated; a=anticipated.

<sup>1</sup>Series are seasonally adjusted except for those series, indicated by @, that appear to contain no seasonal movement. See additional basic data and notes in table 2. <sup>2</sup>Average percent changes are based on month-to-month (or quarter-to-quarter) percent changes for the specified periods. <sup>3</sup>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, 5, 14, 39, 40, 43, 45, 88, 93, and 502). Percent changes are computed in the usual way but the signs are reversed. See footnote 8 for other "change" qualifications. <sup>4</sup>Average computed with regard to sign. <sup>5</sup>Average computed without regard to sign. <sup>6</sup>The period varies among the series; however, for most series, the period covered is 1953-65. <sup>7</sup>Quarterly series; figures are placed in the middle month of quarter. <sup>8</sup>Since basic data for this series are expressed in plus or minus amounts, the changes are month-to-month (or quarter-to-quarter) differences expressed in the same unit of measure as the basic data, rather than in percentages. <sup>9</sup>Figures are placed in the last month of quarter.



# BASIC DATA

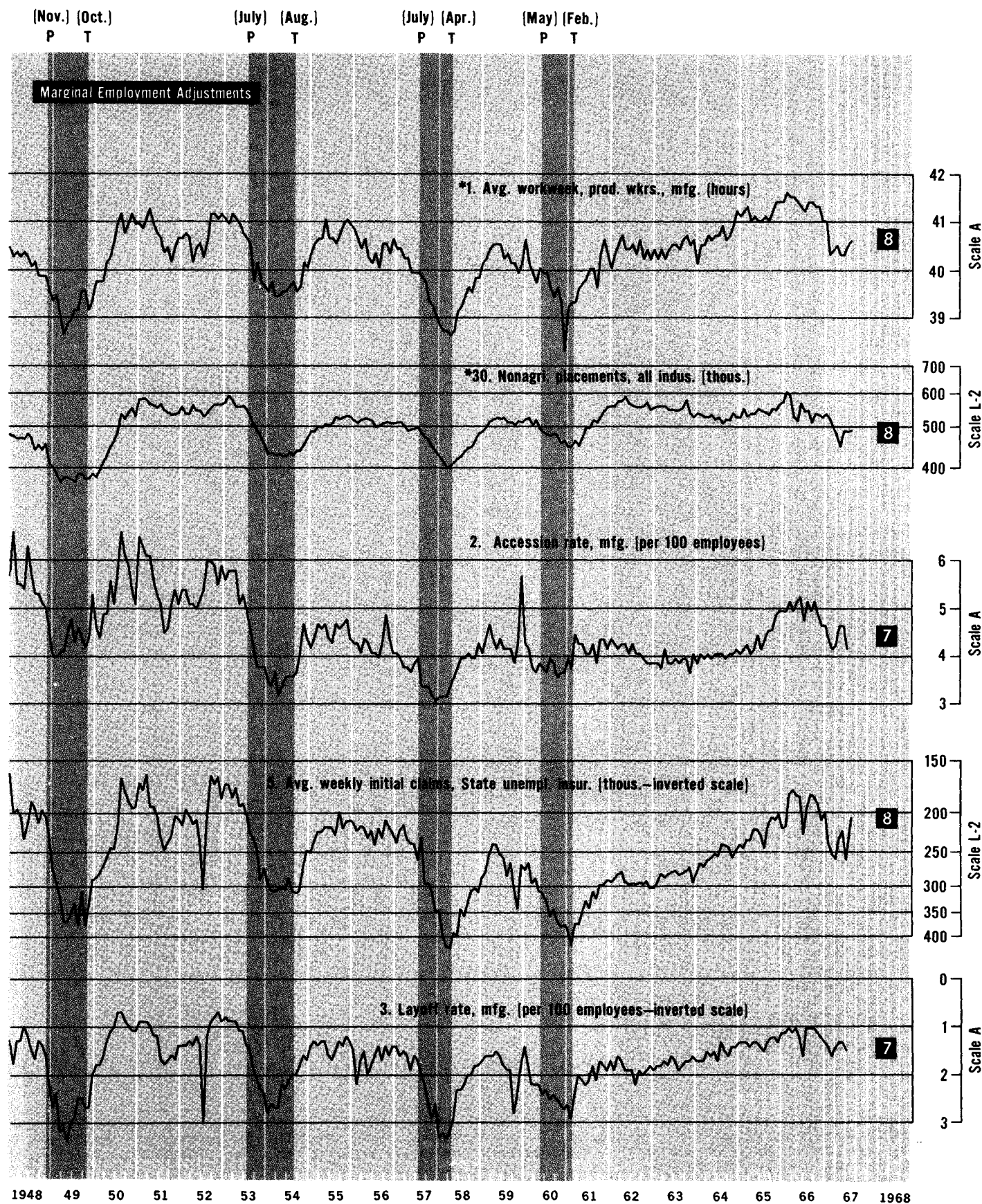
## BUSINESS CYCLE SERIES FROM 1948 to PRESENT

### Leading Indicators

Chart 1A



## I. EMPLOYMENT AND UNEMPLOYMENT



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 31.



# BASIC DATA

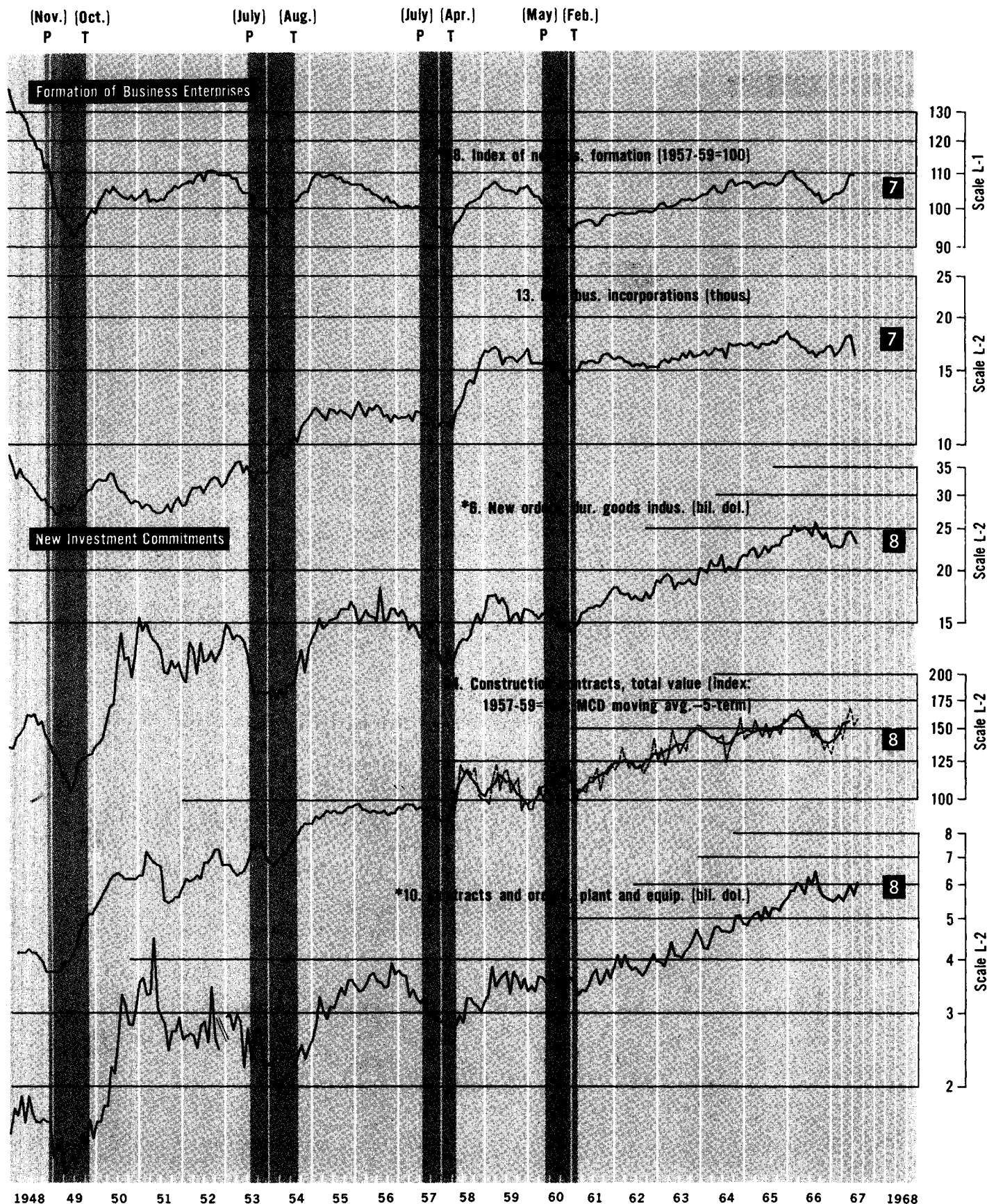
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Leading Indicators—Continued

SEPTEMBER 1967

**bcd**

## III. FIXED CAPITAL INVESTMENT



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on pages 31 and 32.

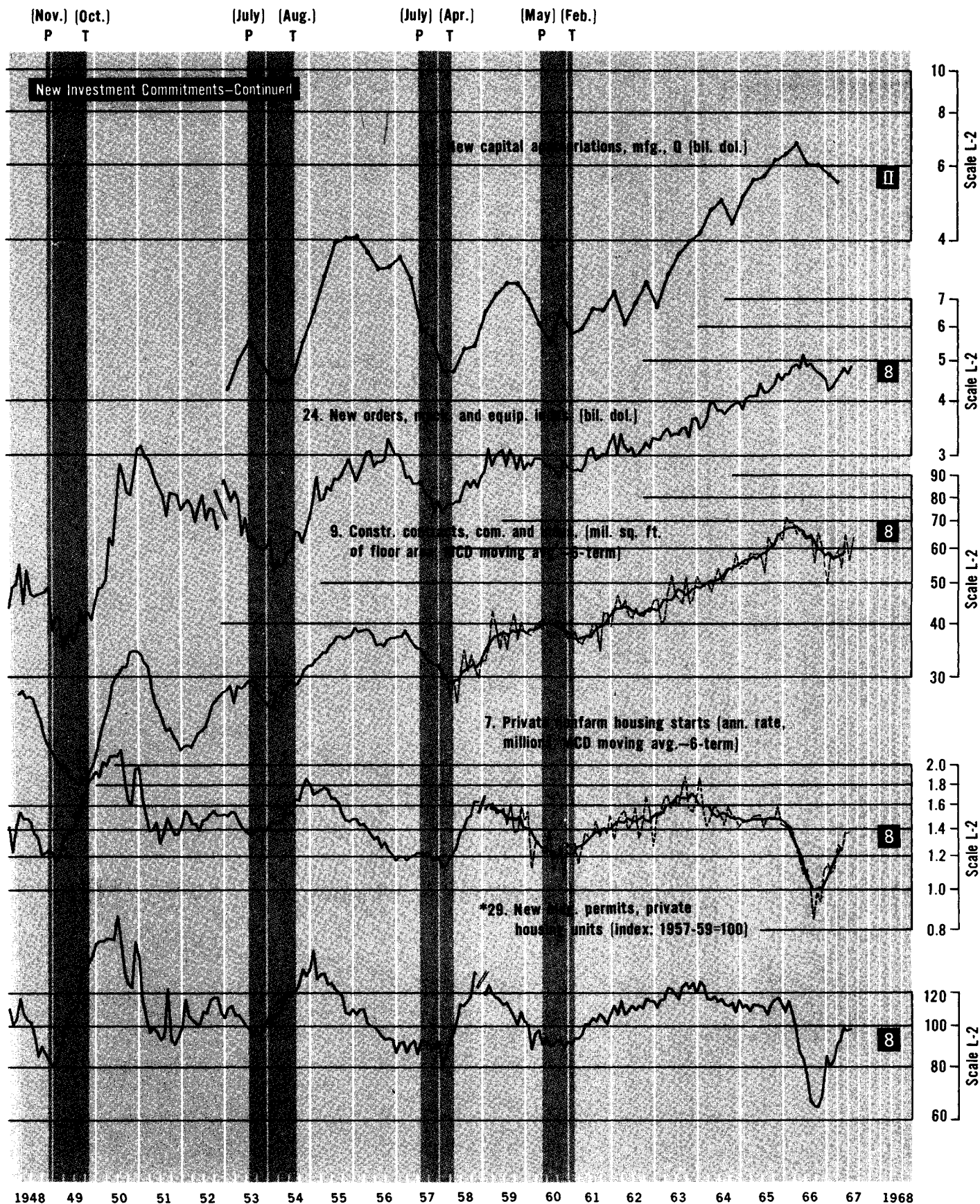


## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

## Leading Indicators —Continued



## III. FIXED CAPITAL INVESTMENT—Continued



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 32.



# BASIC DATA

SEPTEMBER 1967

bcd

## BUSINESS CYCLE SERIES FROM 1948 to PRESENT -Continued

### Leading Indicators-Continued

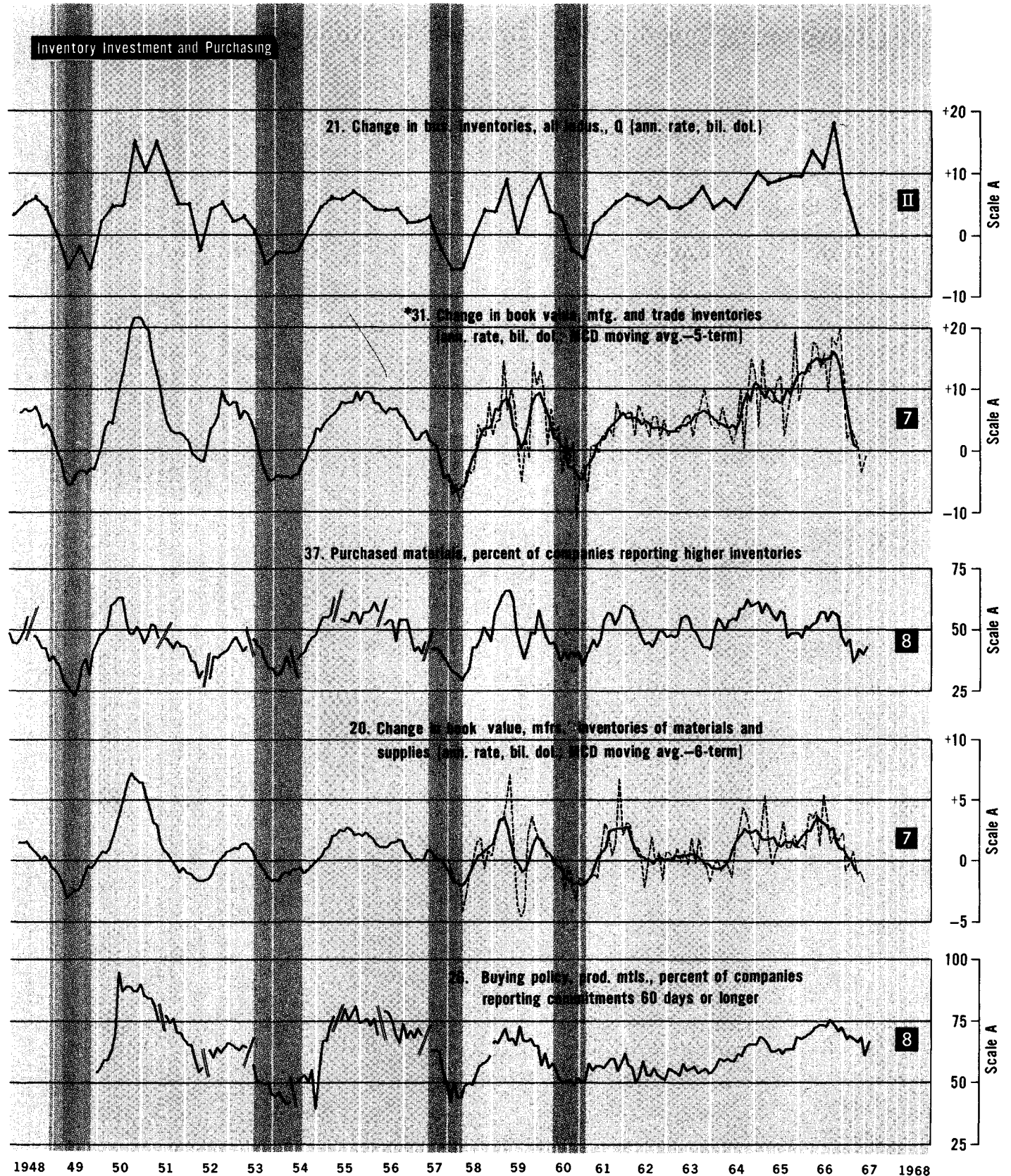
#### IV. INVENTORIES AND INVENTORY INVESTMENT

(Nov.) (Oct.)  
P T

(July) (Aug.)  
P T

(July) (Apr.)  
P T

(May) (Feb.)  
P T



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 33.

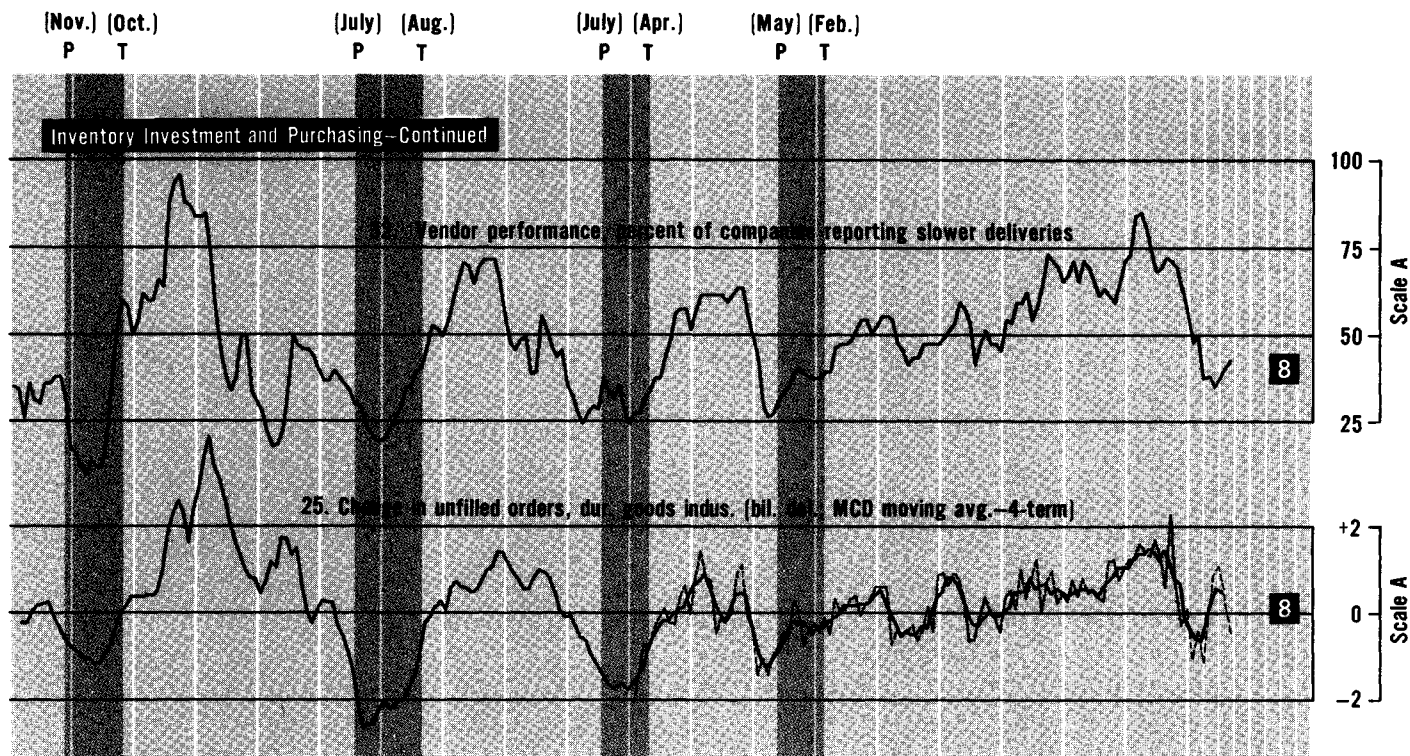


## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

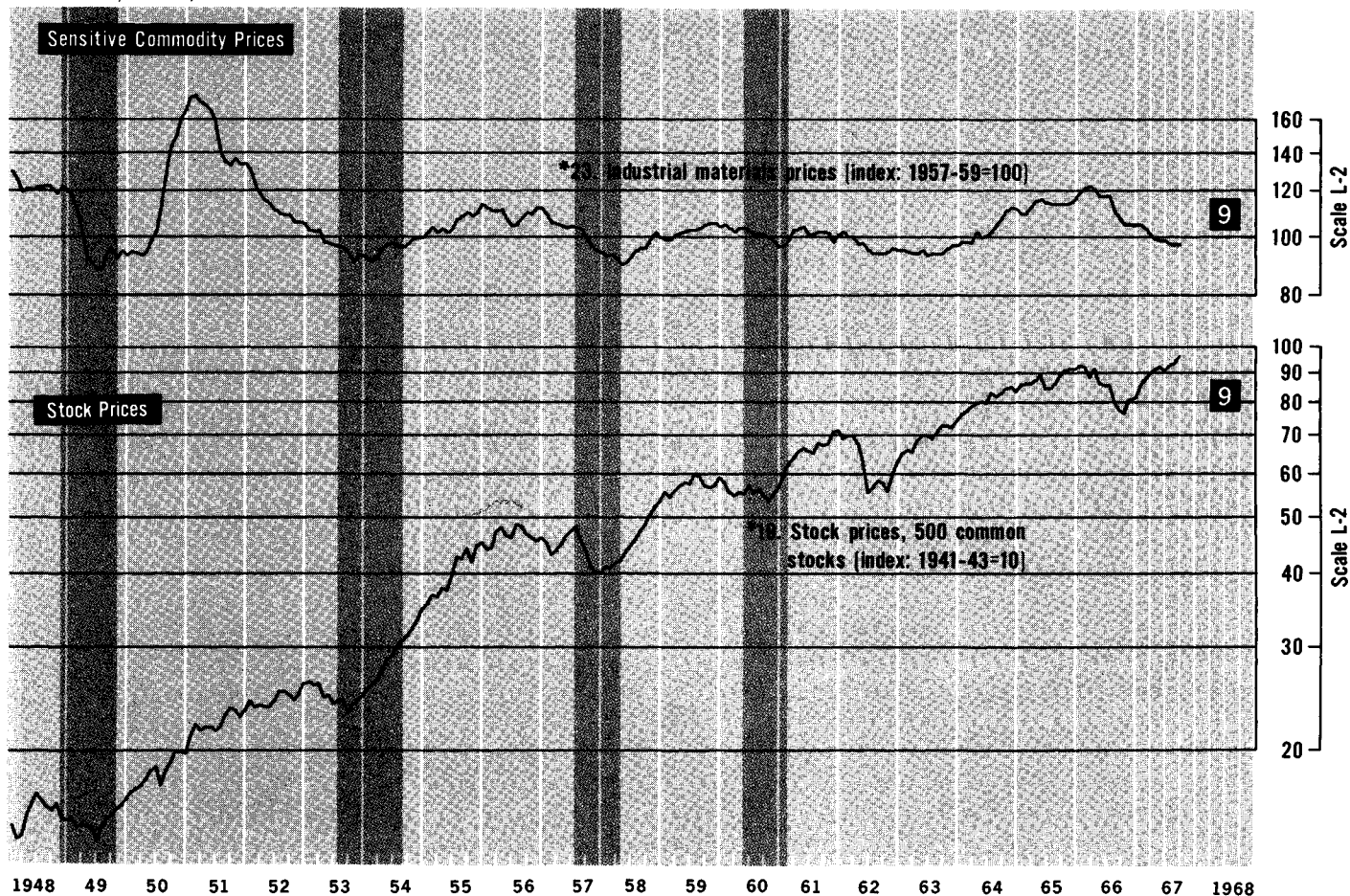
## Leading Indicators—Continued



## IV. INVENTORIES AND INVENTORY INVESTMENT—Continued



## V. PRICES, COSTS, AND PROFITS



1948 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 1968

See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on pages 33 and 34.



# BASIC DATA

BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Leading Indicators—Continued

SEPTEMBER 1967

**bcd**

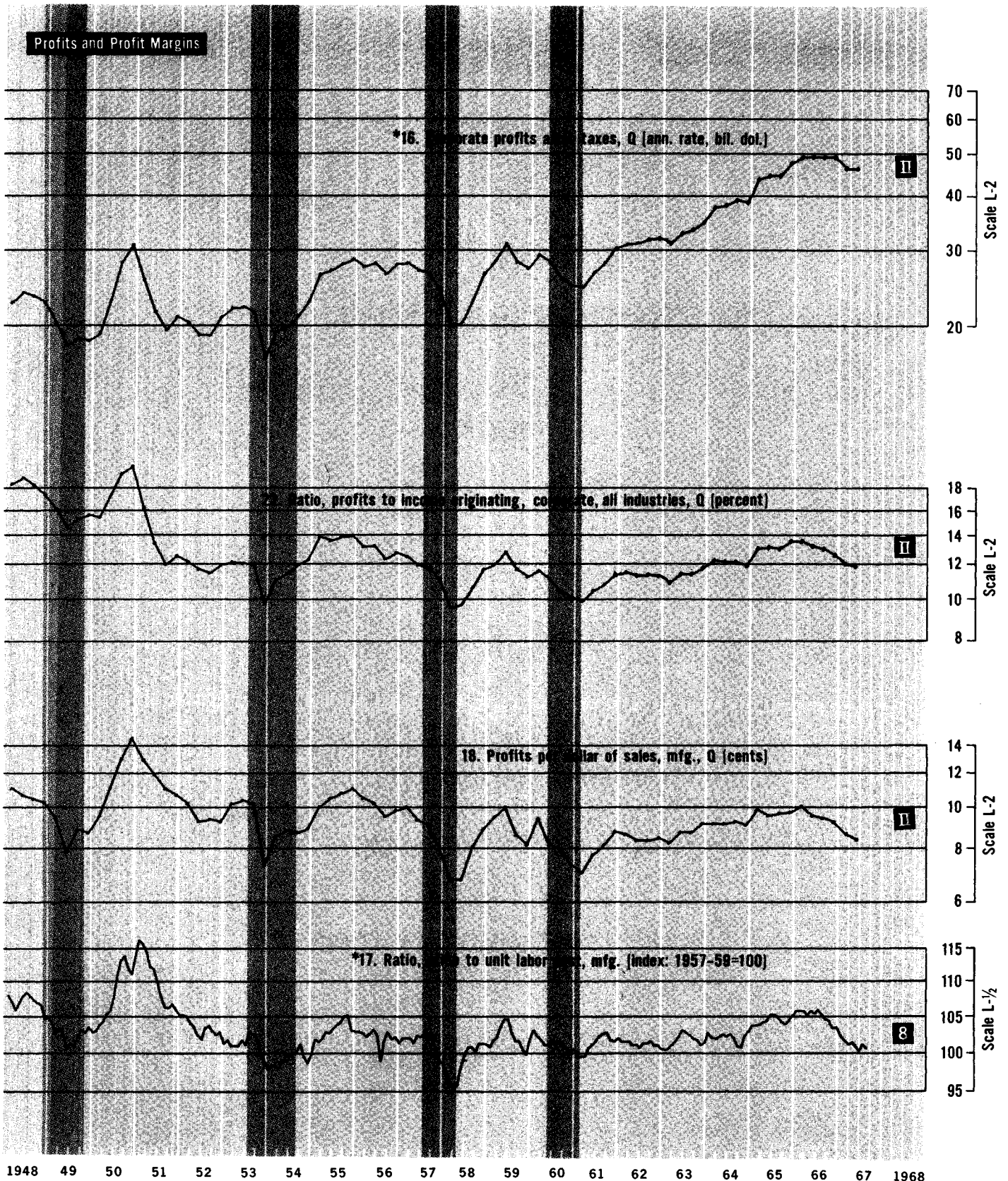
## V. PRICES, COSTS, AND PROFITS—Continued

(Nov.) (Oct.)  
P T

(July) (Aug.)  
P T

(July) (Apr.)  
P T

(May) (Feb.)  
P T



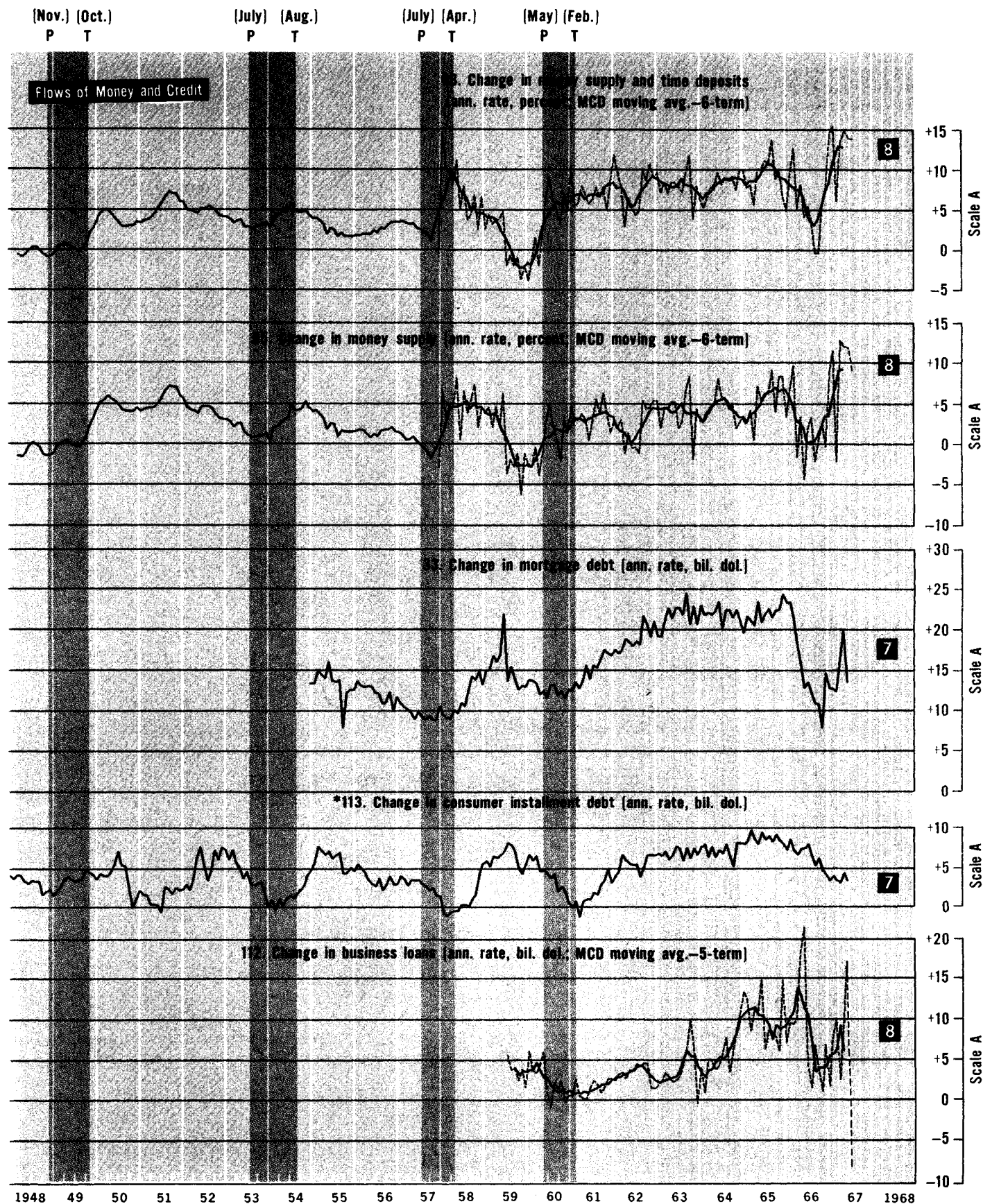
See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 34.



BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued<sup>+</sup>

## Leading Indicators—Continued

## VI. MONEY AND CREDIT



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 35.



# BASIC DATA

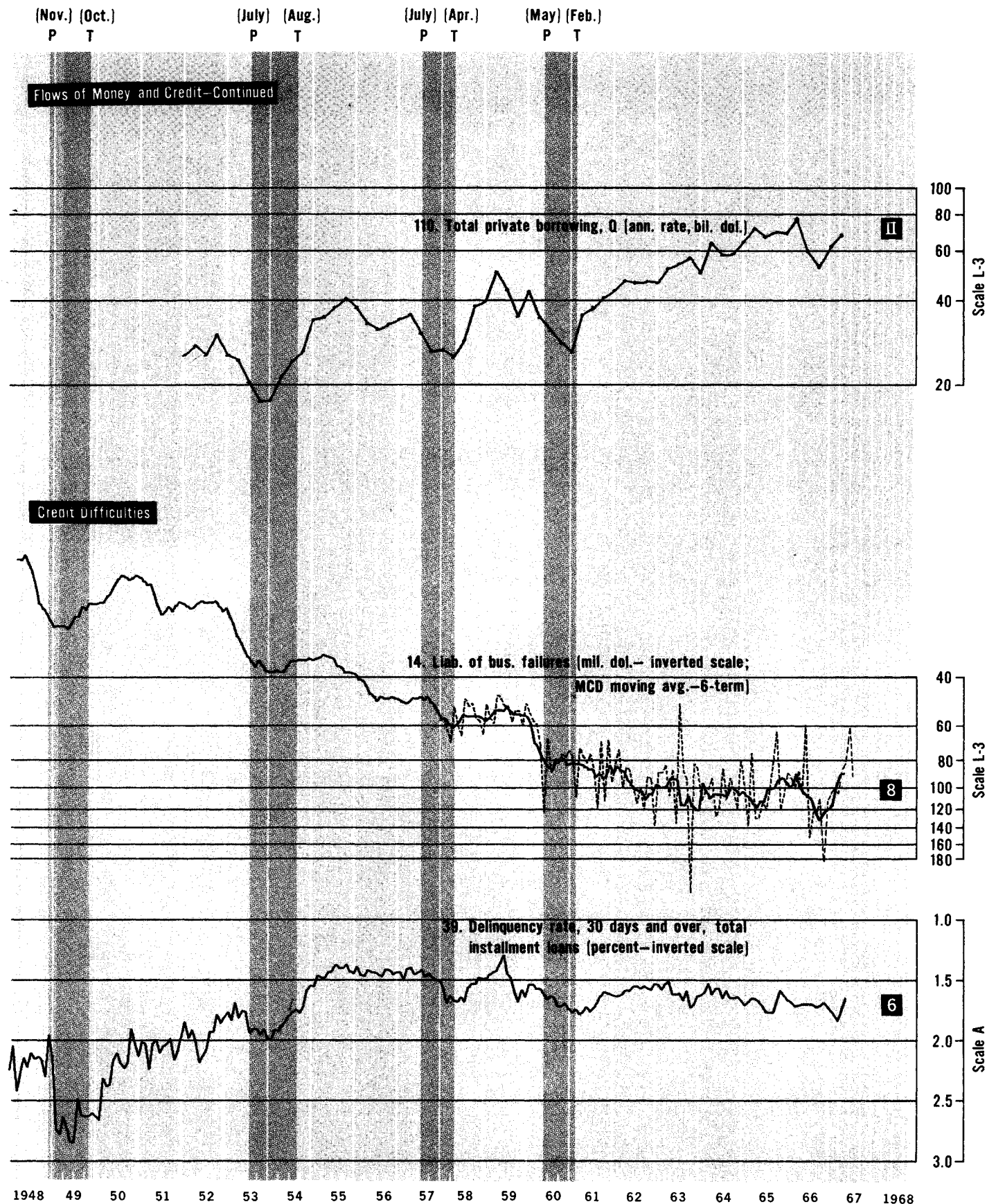
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Leading Indicators—Continued

SEPTEMBER 1967

**bcd**

## VI. MONEY AND CREDIT—Continued



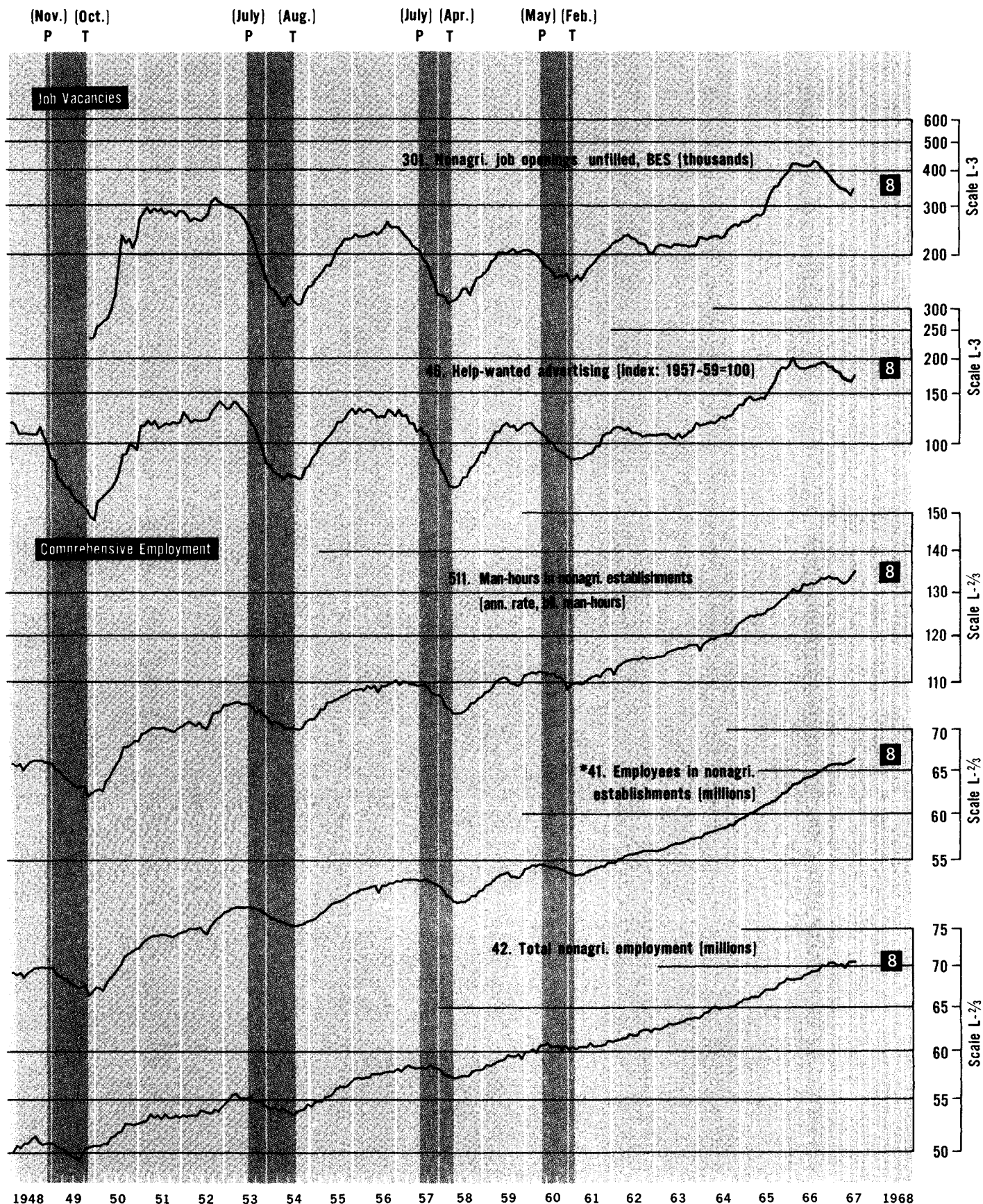
See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 35.





**BUSINESS CYCLE SERIES FROM 1948 to PRESENT -Continued**  
**Roughly Coincident Indicators**

**I. EMPLOYMENT AND UNEMPLOYMENT**



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 36.



# BASIC DATA

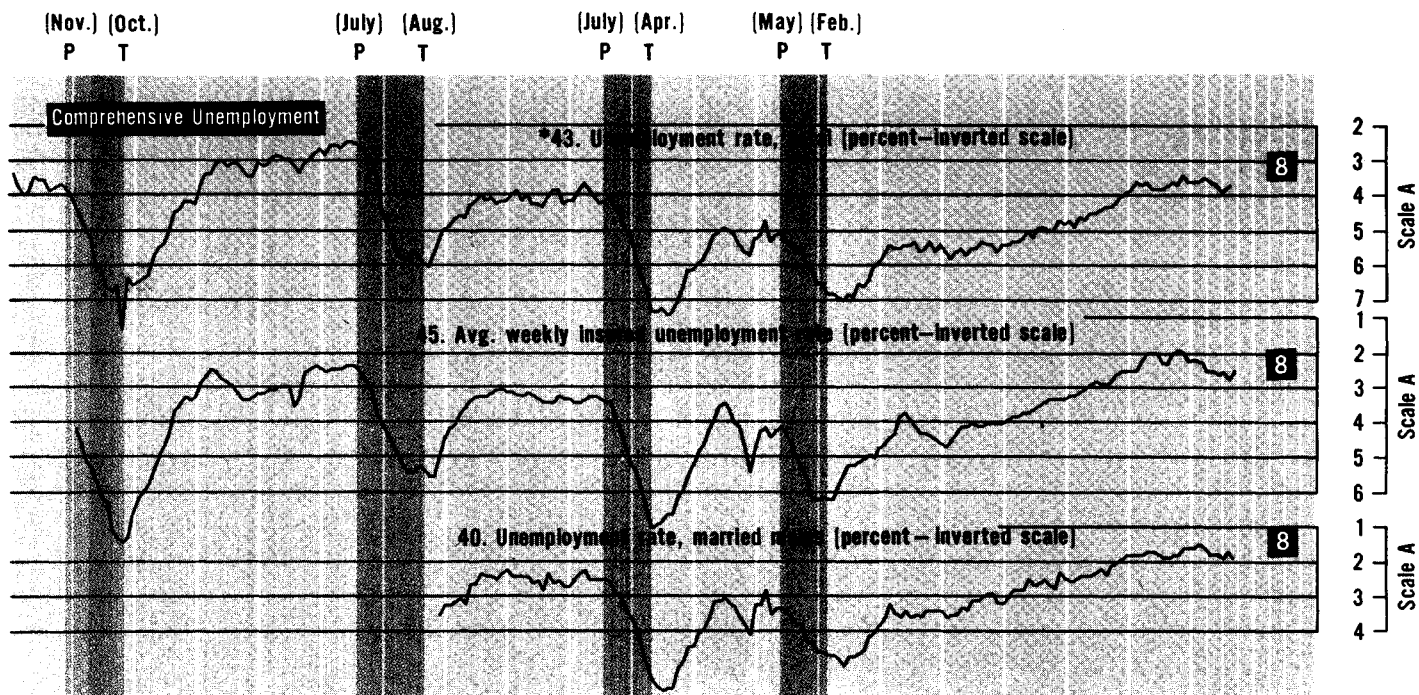
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Roughly Coincident Indicators—Continued

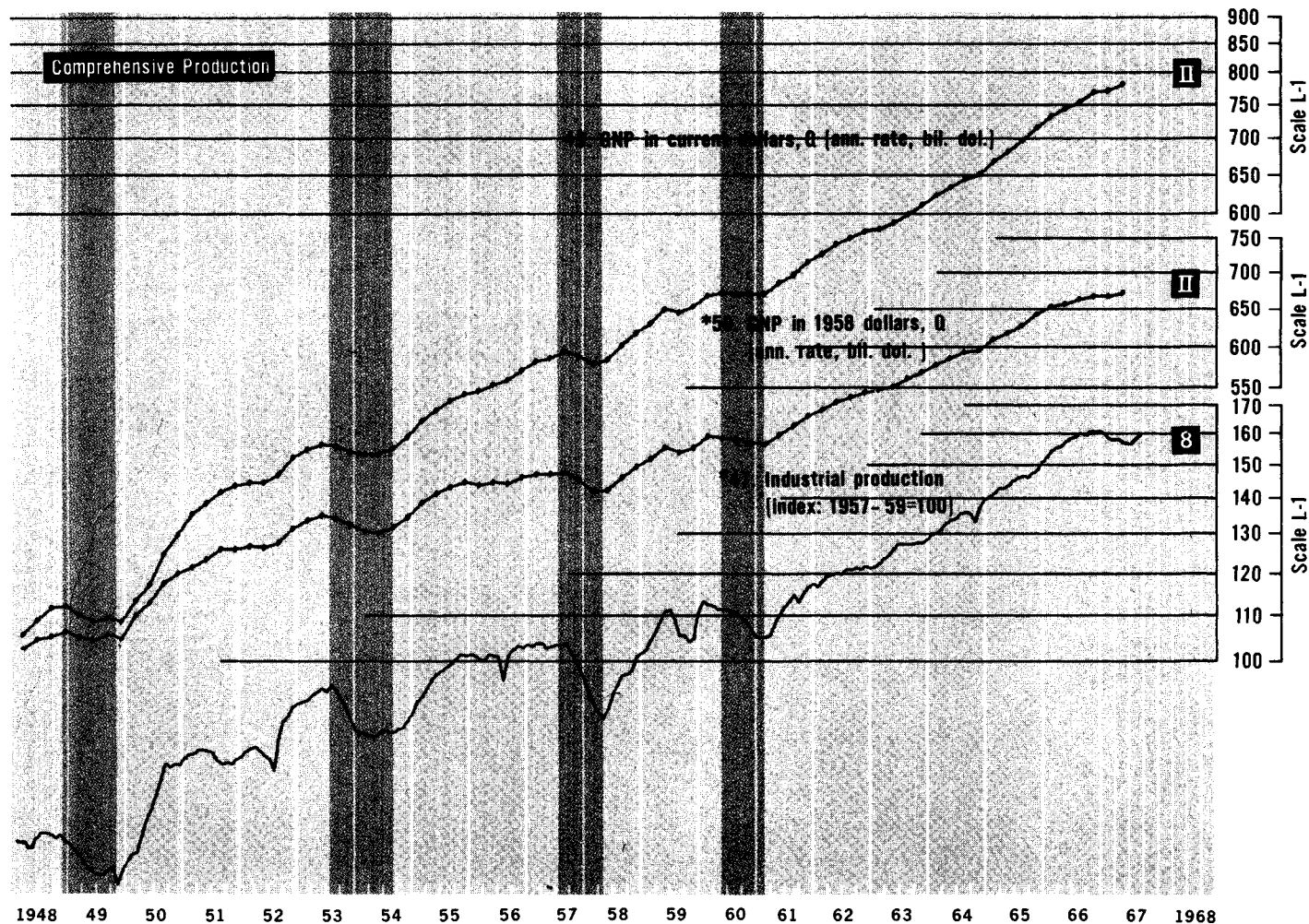
SEPTEMBER 1967

bcd

## I. EMPLOYMENT AND UNEMPLOYMENT—Continued



## II. PRODUCTION, INCOME, CONSUMPTION, AND TRADE



1948 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 1968

See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on pages 36 and 37.

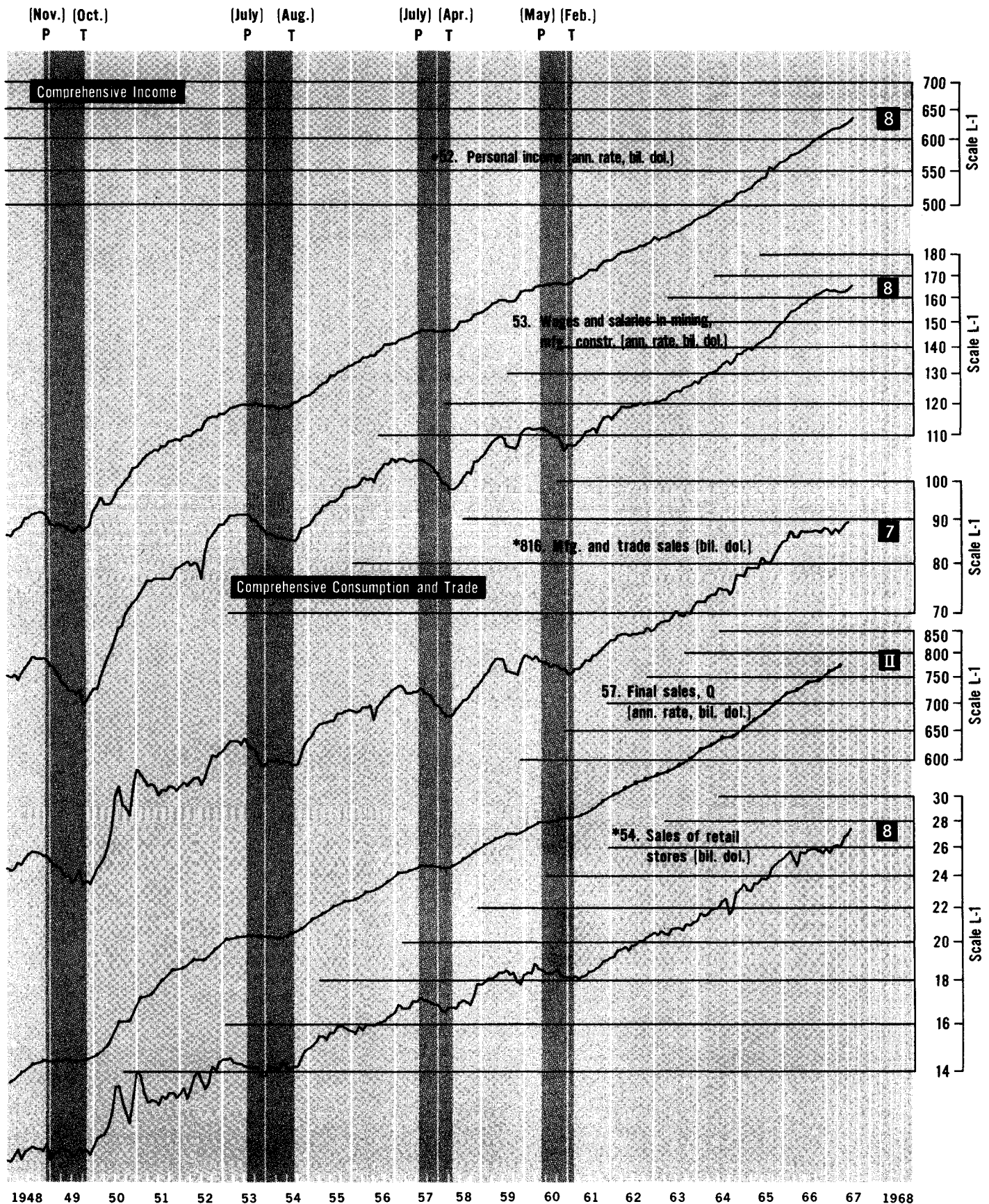




## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Roughly Coincident Indicators—Continued

## II. PRODUCTION, INCOME, CONSUMPTION, AND TRADE—Continued



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 37.

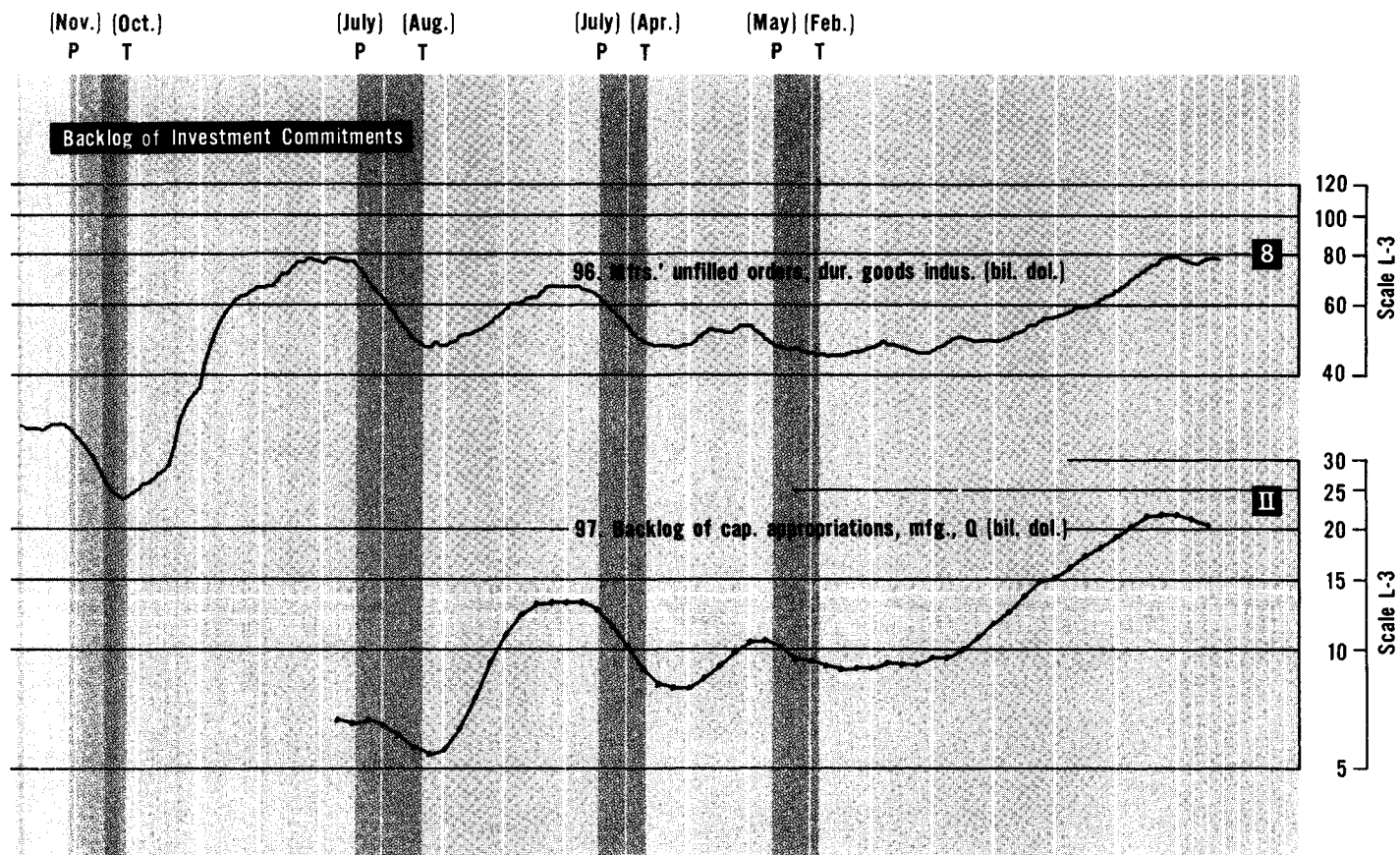


# BASIC DATA

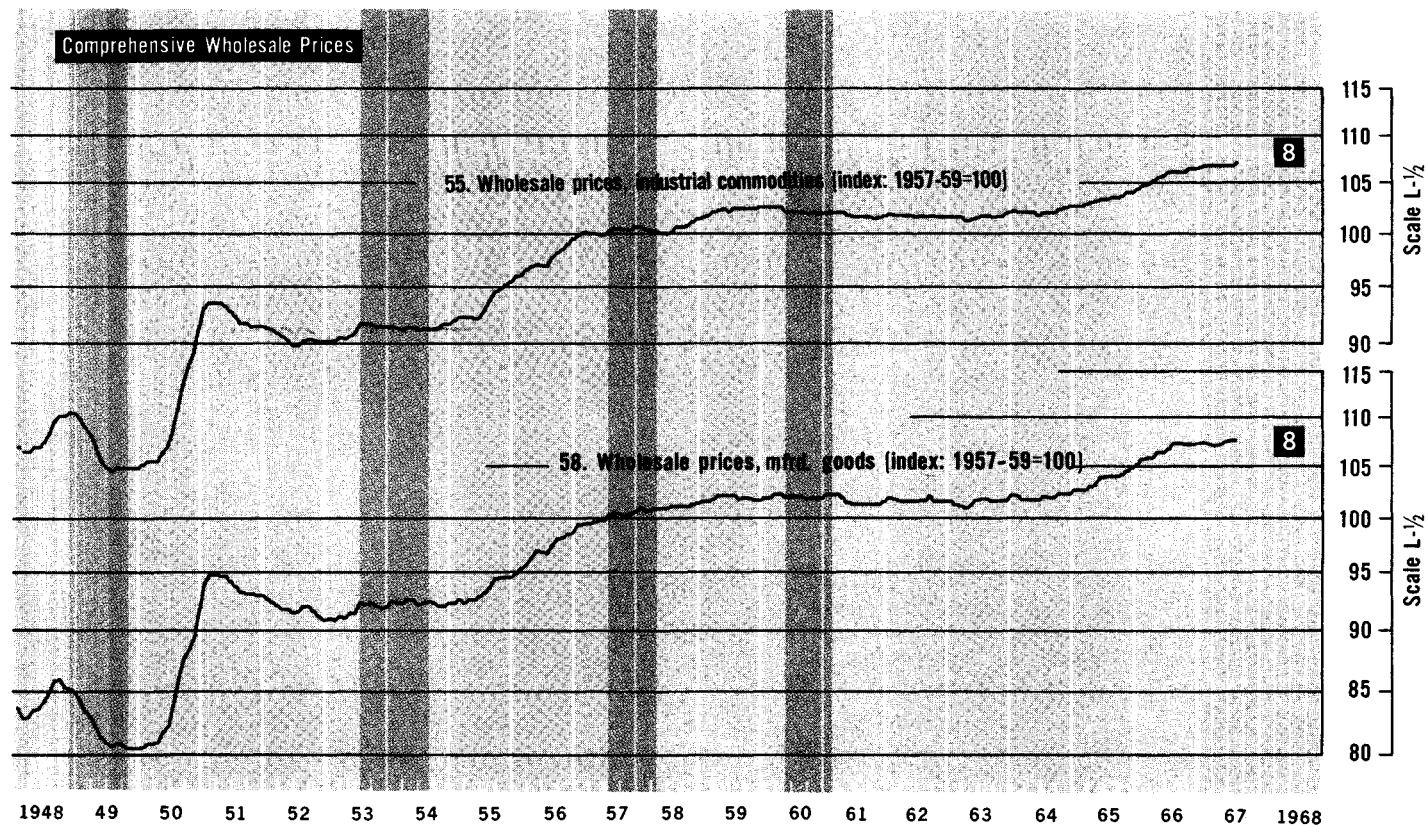
## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

### Roughly Coincident Indicators—Continued

#### III. FIXED CAPITAL INVESTMENT



#### V. PRICES, COSTS, AND PROFITS



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 38.



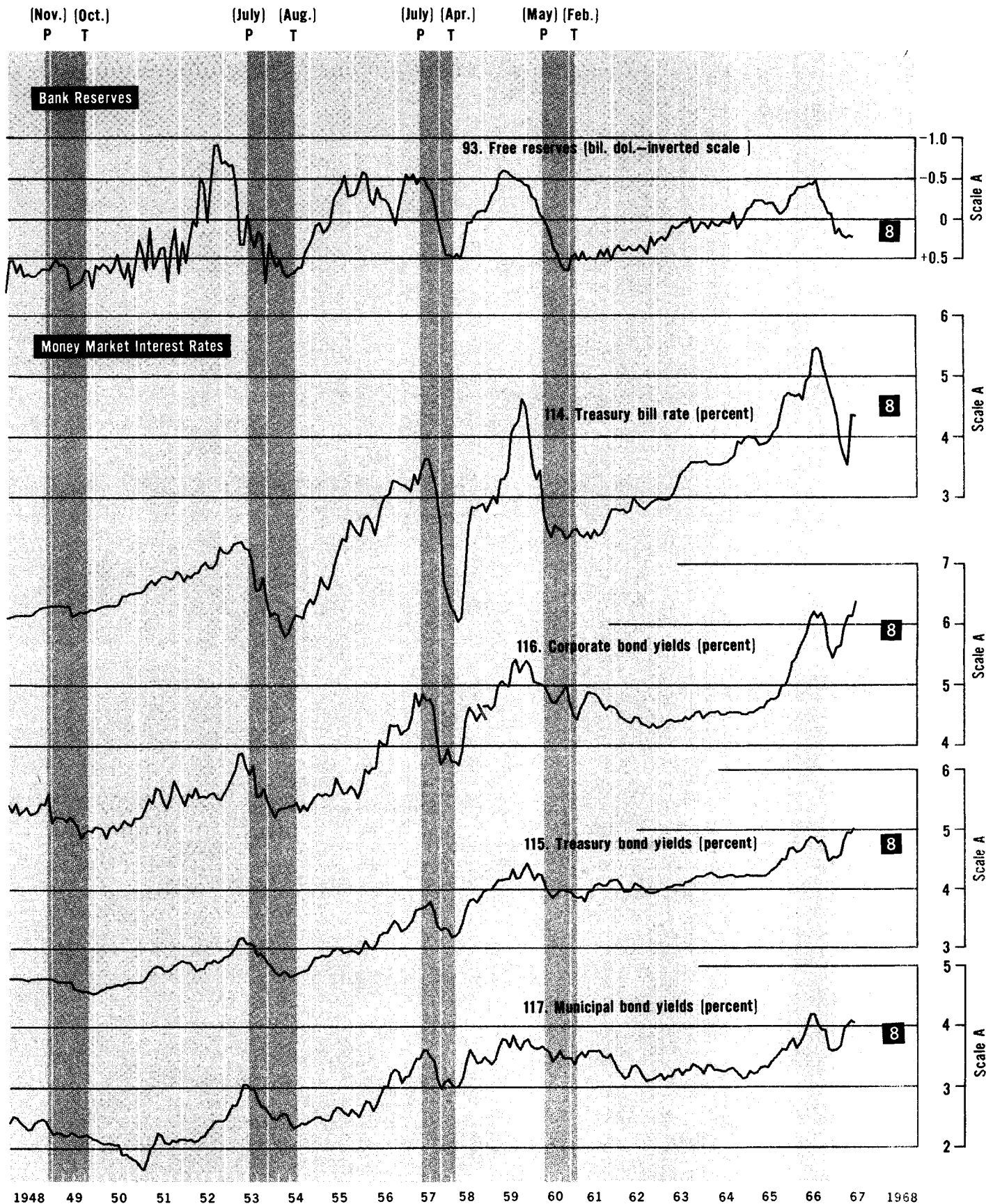
# BASIC DATA

## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

### Roughly Coincident Indicators—Continued



#### VI. MONEY AND CREDIT



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 38.



# BASIC DATA

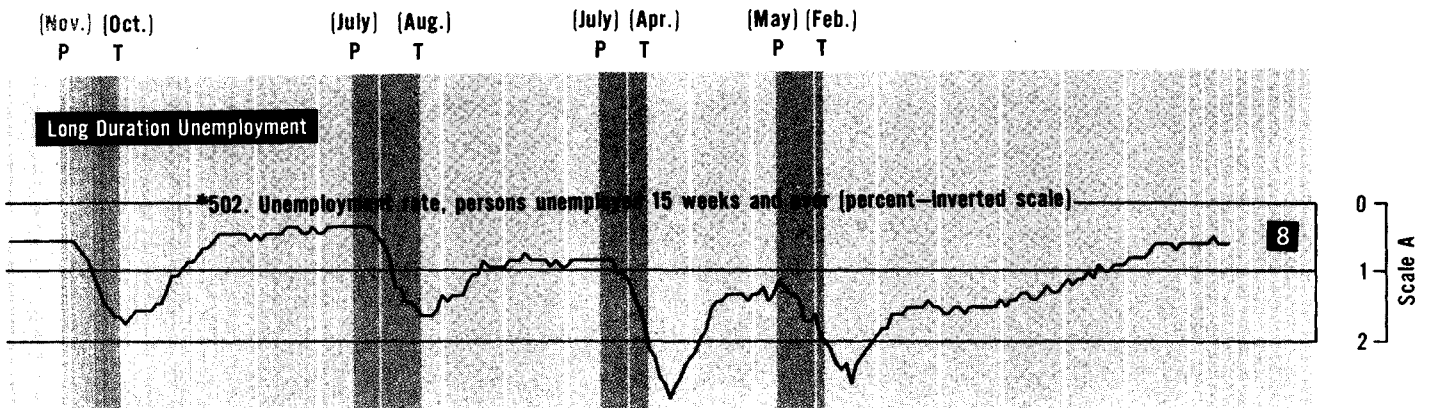
SEPTEMBER 1967

bcd

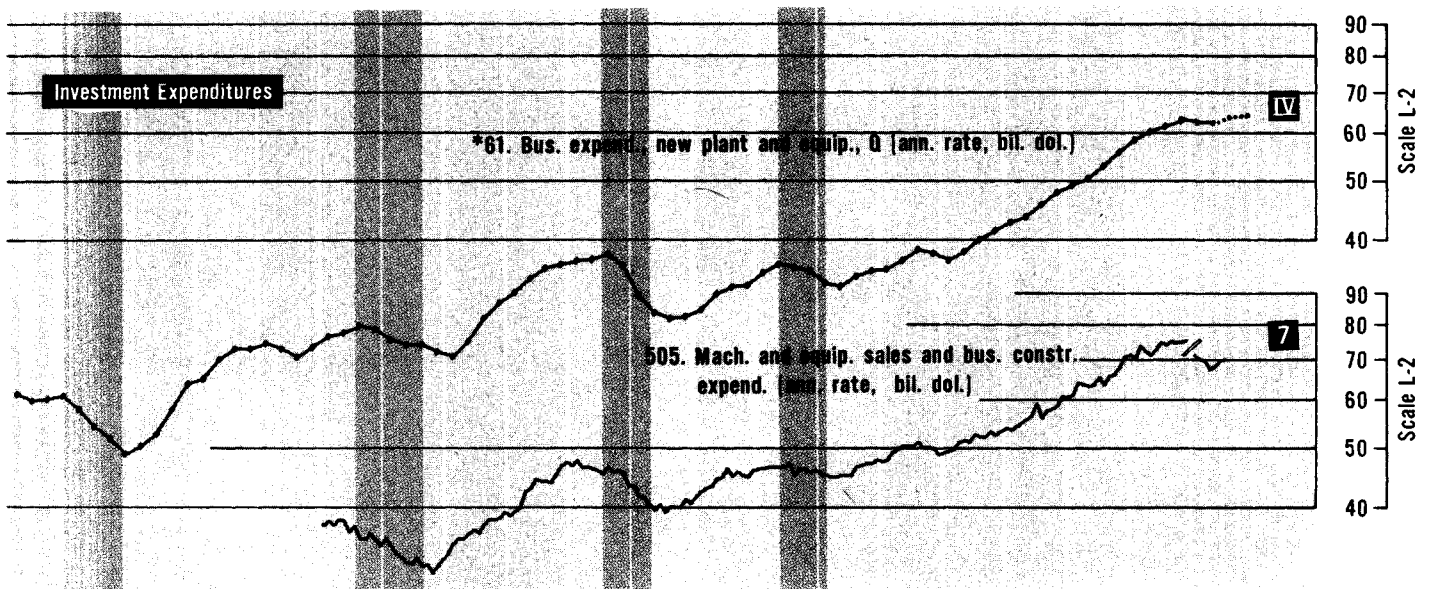
## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

### Lagging Indicators

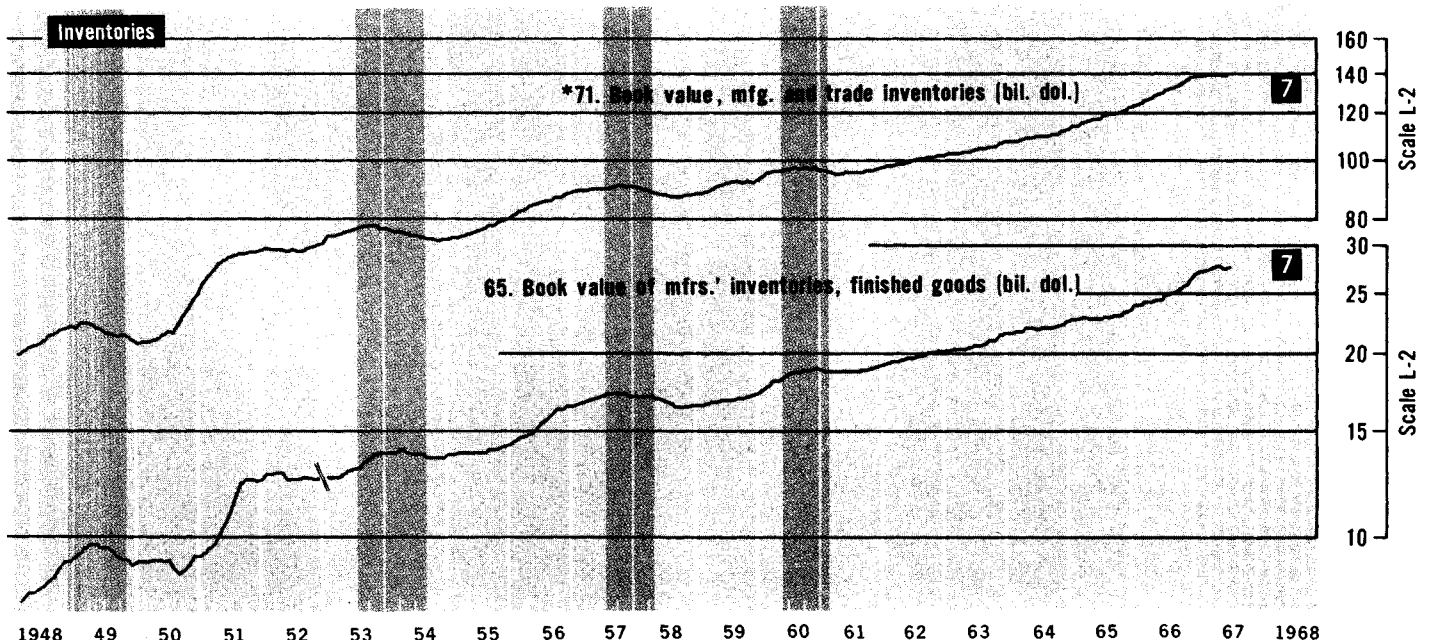
#### I. EMPLOYMENT AND UNEMPLOYMENT



#### III. FIXED CAPITAL INVESTMENT



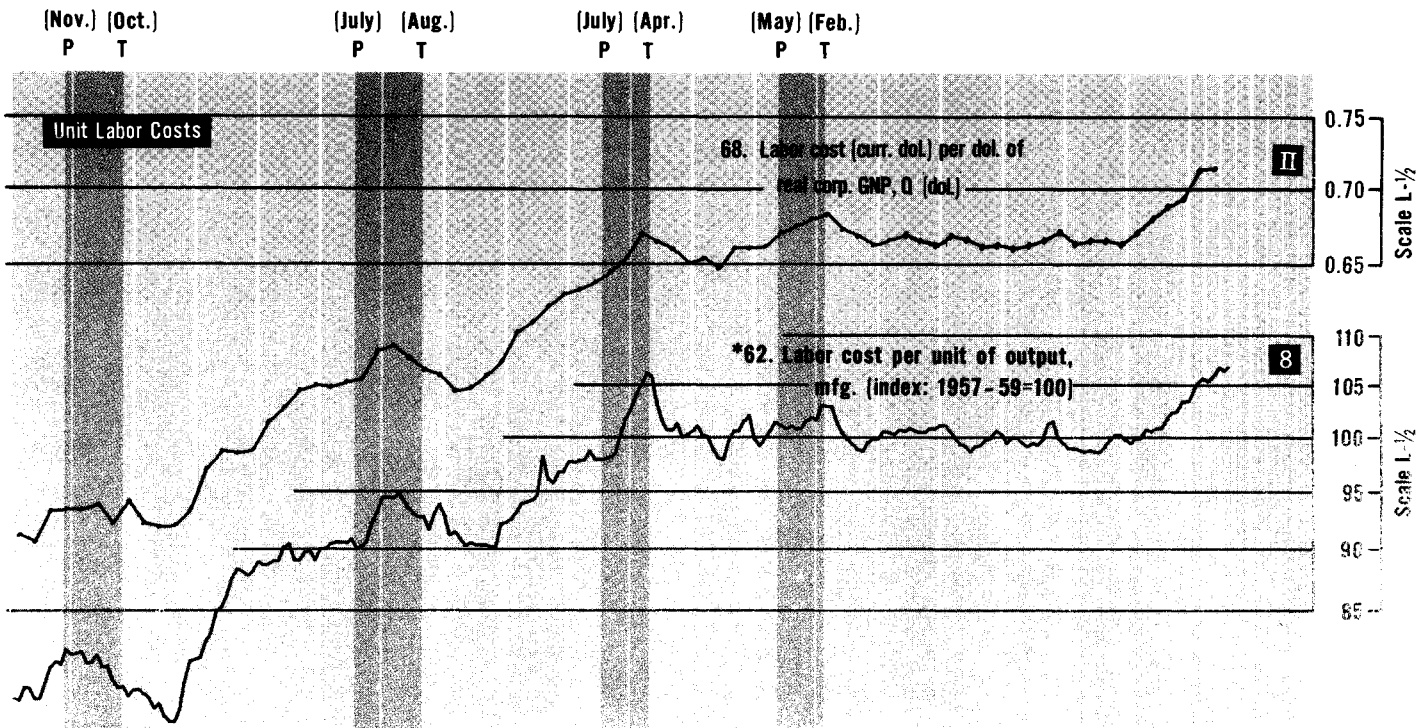
#### IV. INVENTORIES AND INVENTORY INVESTMENT



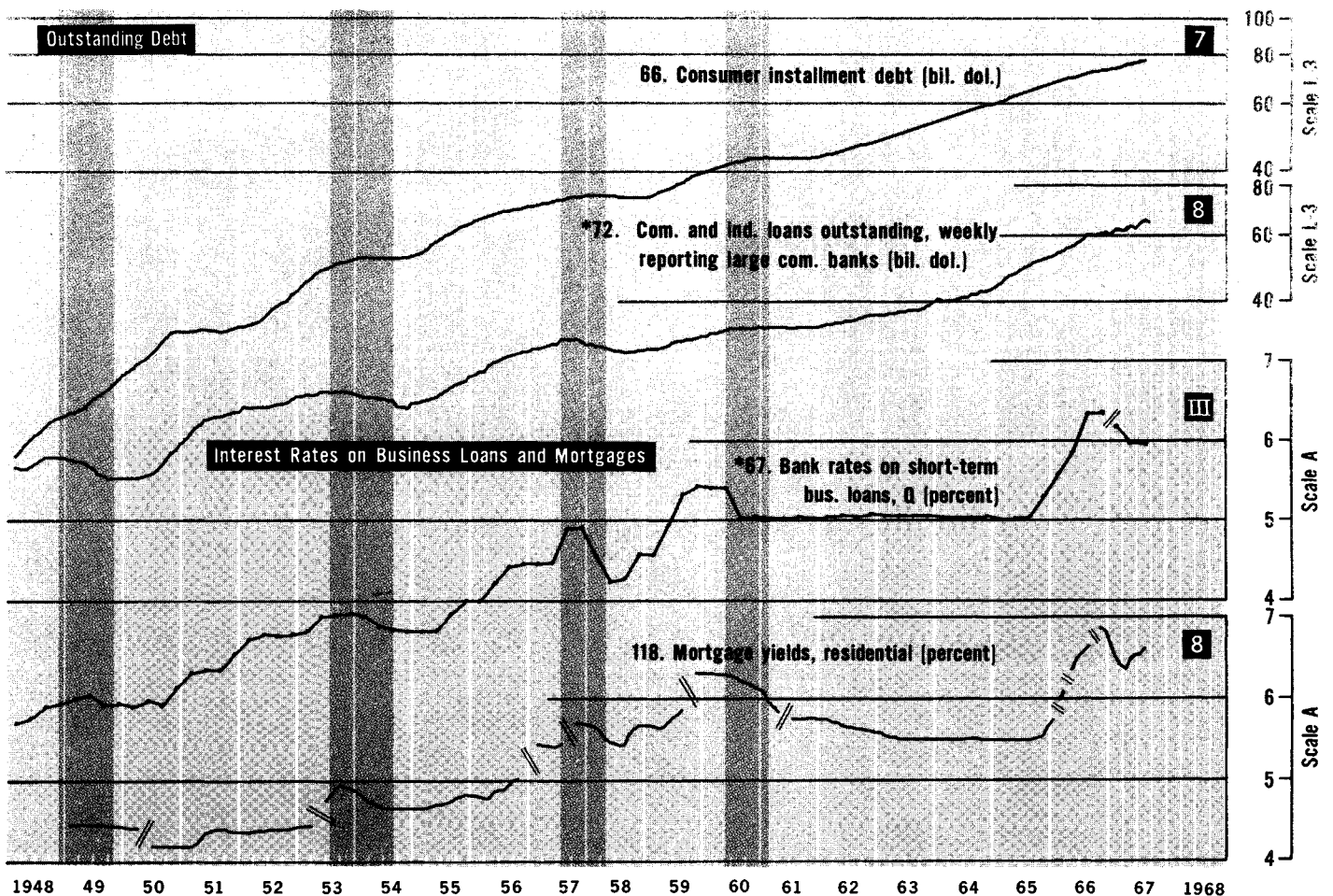
See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 39.



## V. PRICES, COSTS, AND PROFITS



## VI. MONEY AND CREDIT



See 'How to Read Charts 1 and 2,' page 4. Asterisk (\*) identifies series on 'short list'. Current data for these series are shown on page 40.





# BASIC DATA

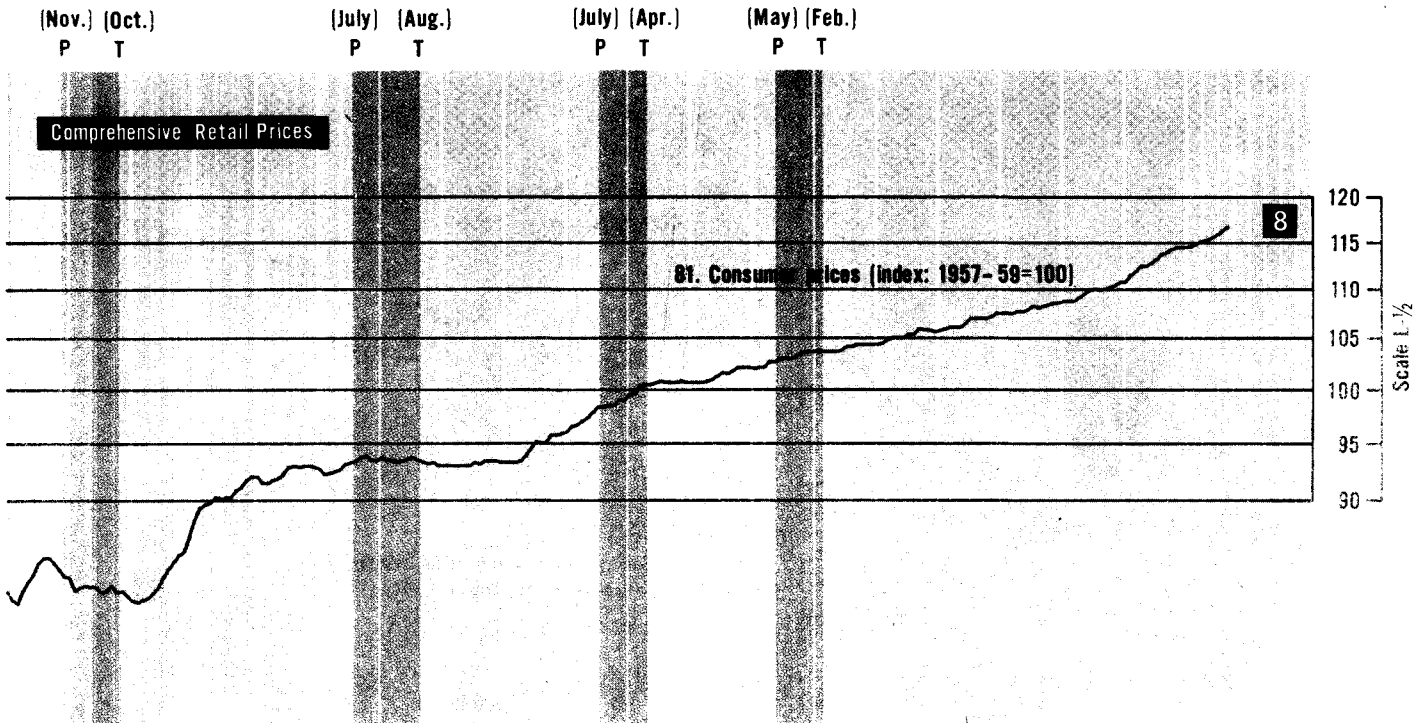
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Other Selected U.S. Series

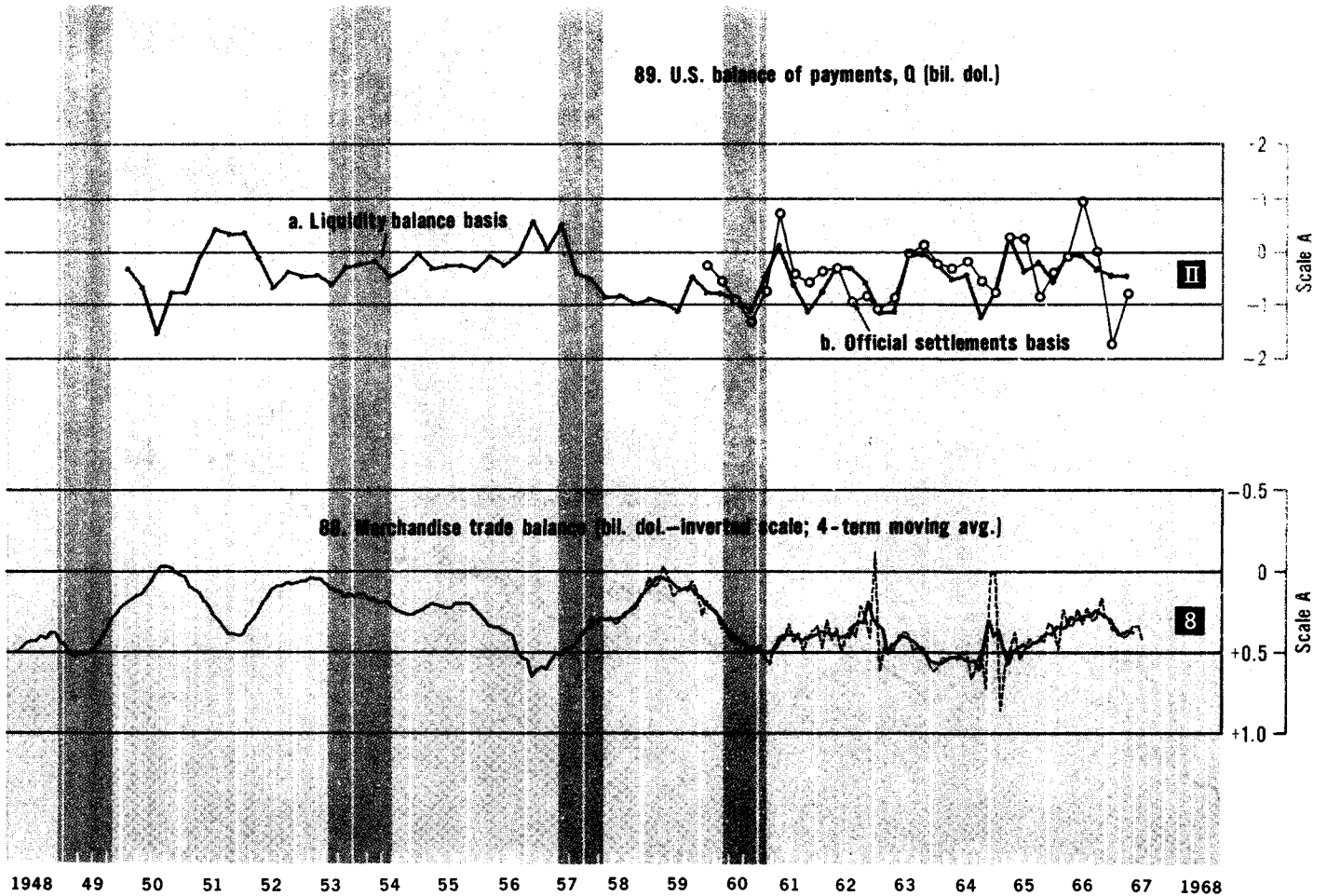
SEPTEMBER 1967

bcd

## V. PRICES, COSTS, AND PROFITS



## VII. FOREIGN TRADE AND PAYMENTS

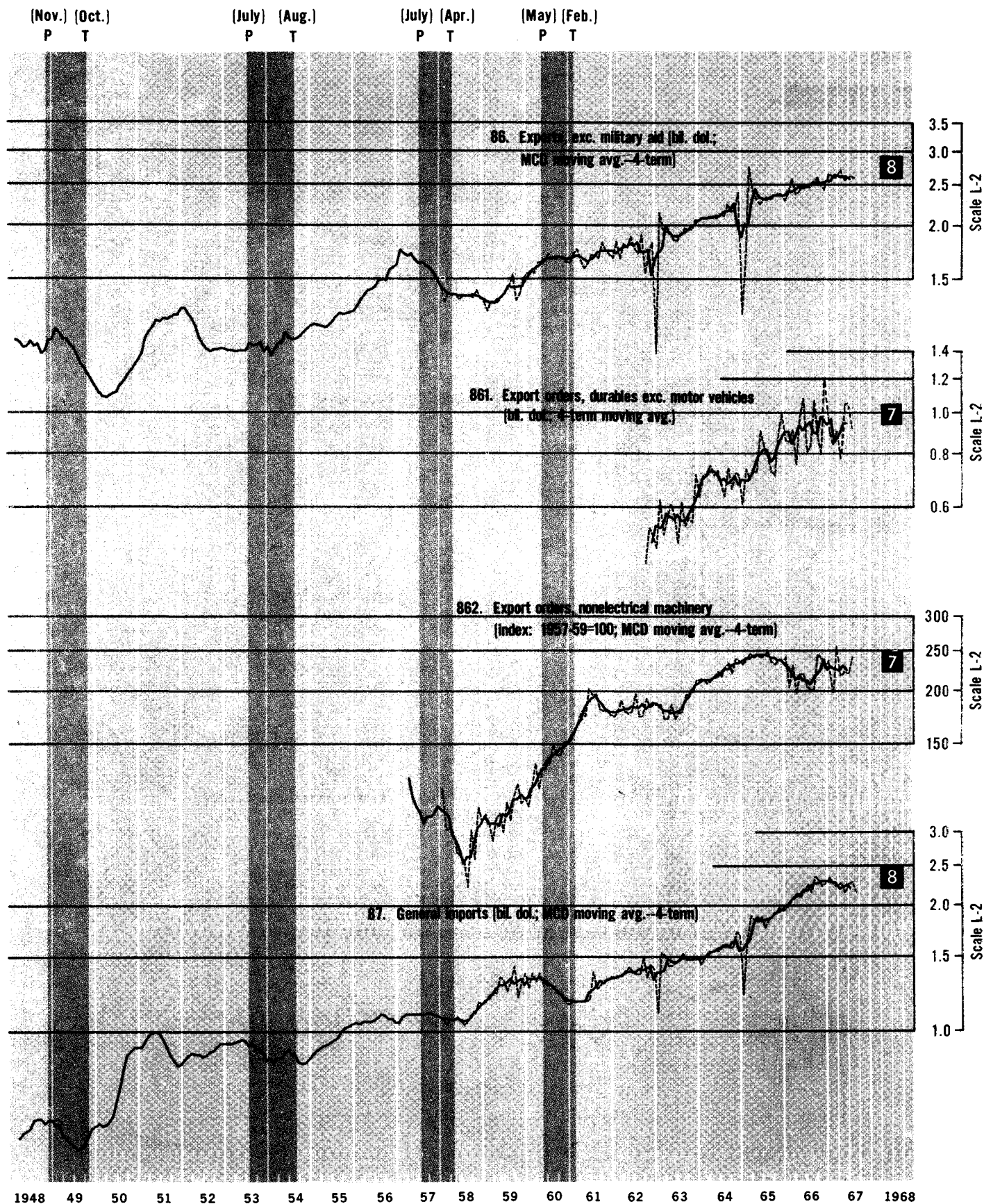


1948 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 1968

See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 41.



## VII. FOREIGN TRADE AND PAYMENTS—Continued



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 41.





# BASIC DATA

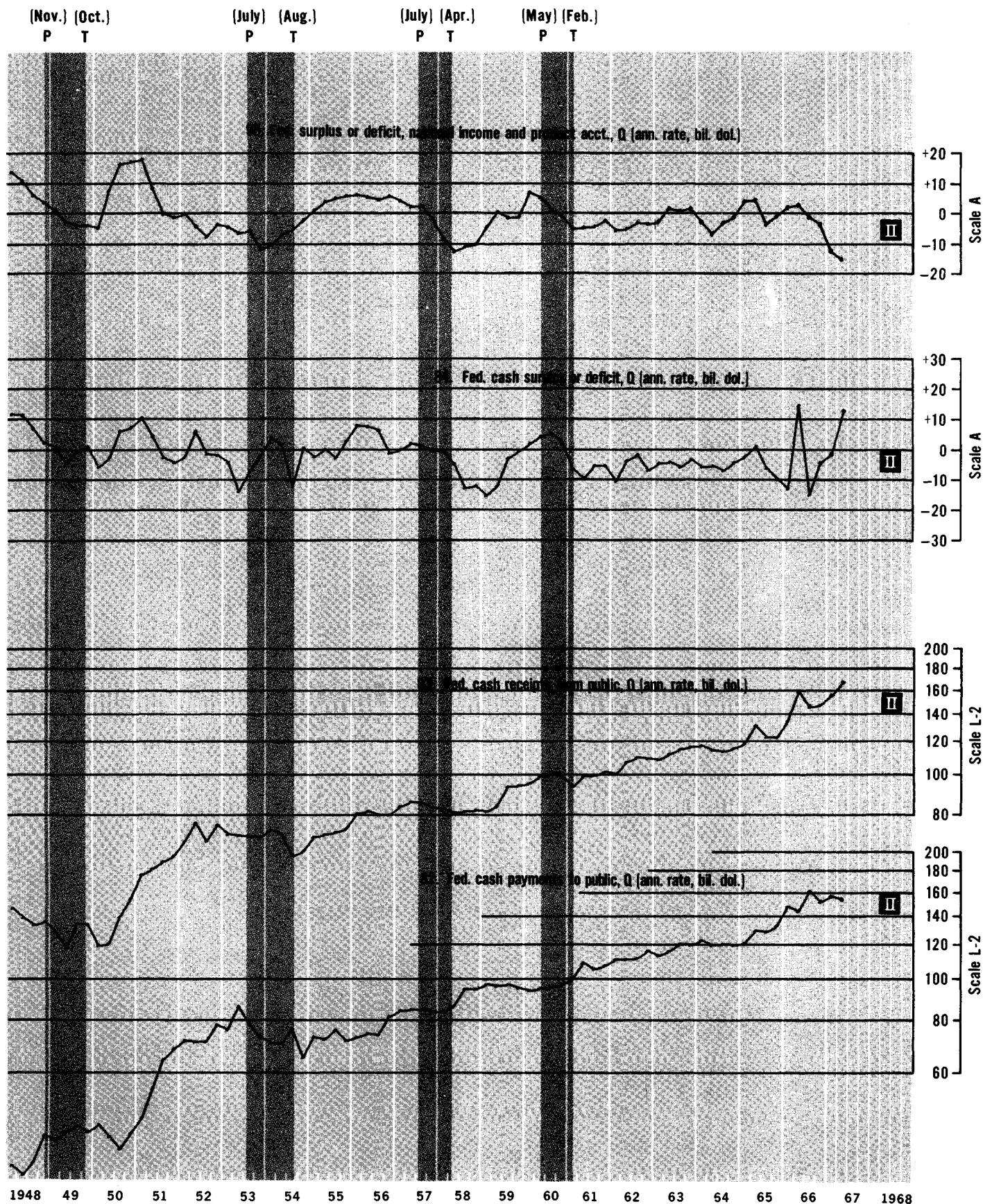
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

SEPTEMBER 1967

**bcd**

Other Selected U.S. Series—Continued

## VIII. FEDERAL GOVERNMENT ACTIVITIES



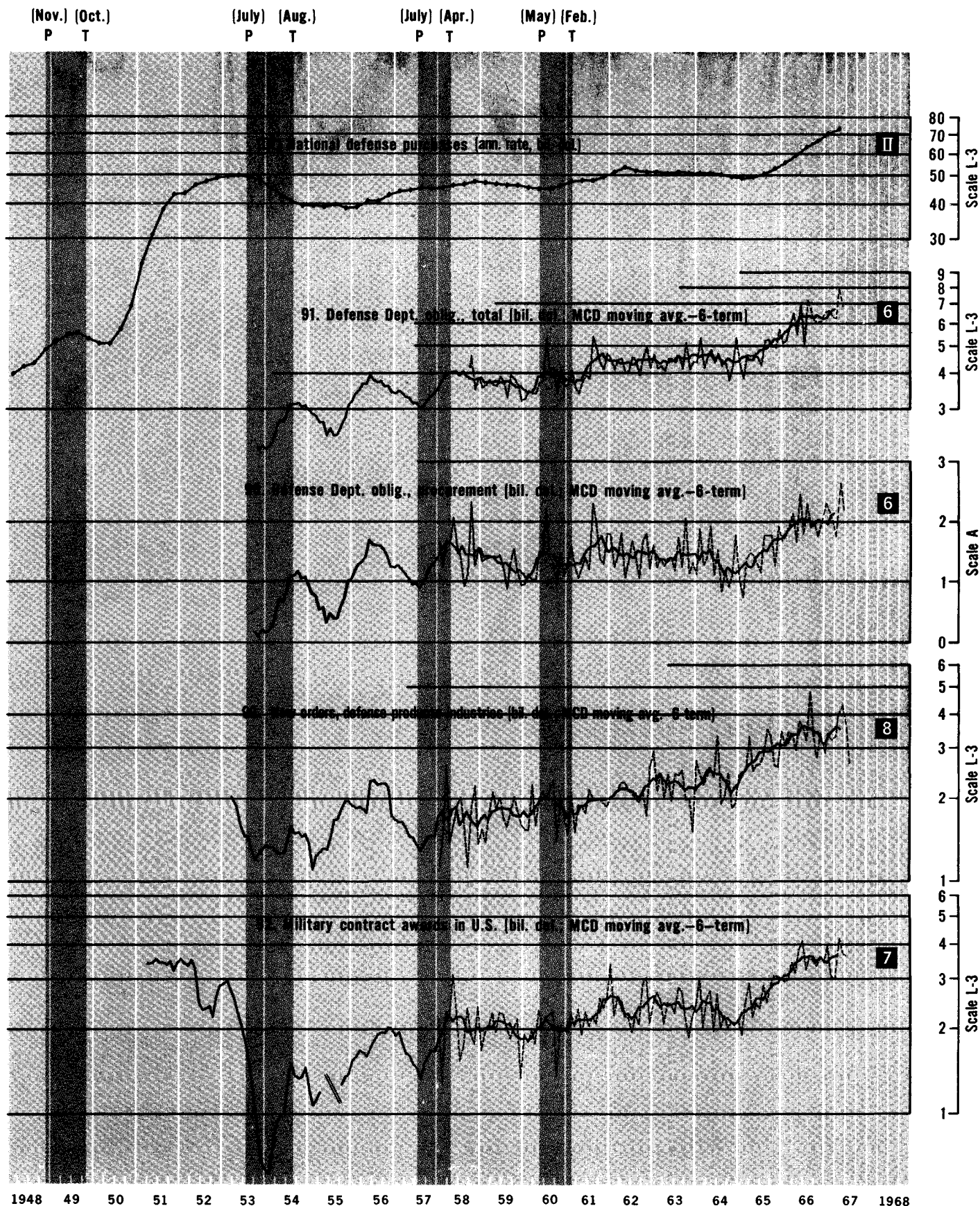
See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 42.



## BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

Other Selected U.S. Series—Continued

## VIII. FEDERAL GOVERNMENT ACTIVITIES—Continued



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 42.





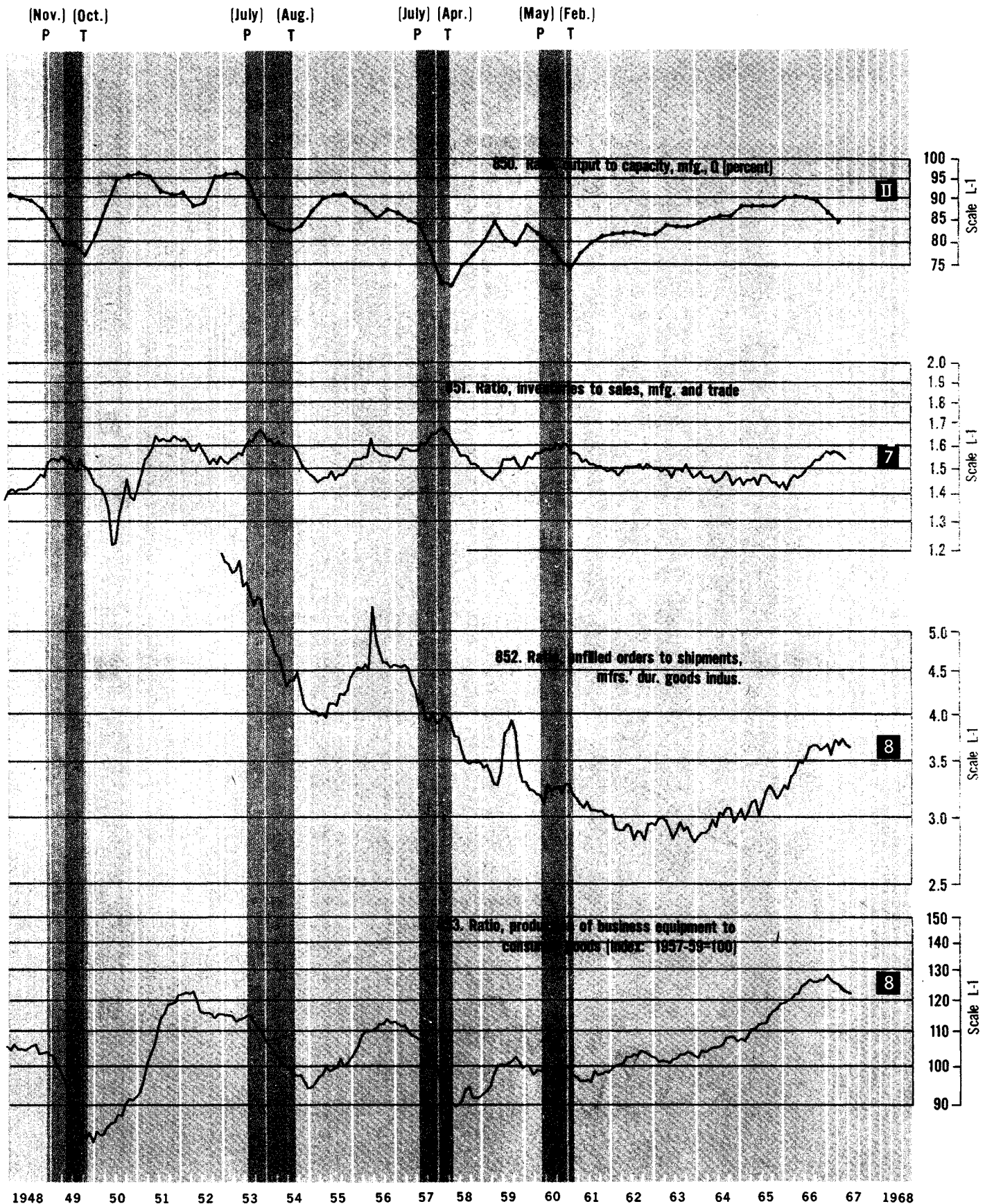
# BASIC DATA

BUSINESS CYCLE SERIES FROM 1948 to PRESENT-Continued

U.S. Series Under Consideration

SEPTEMBER 1967

**bcd**

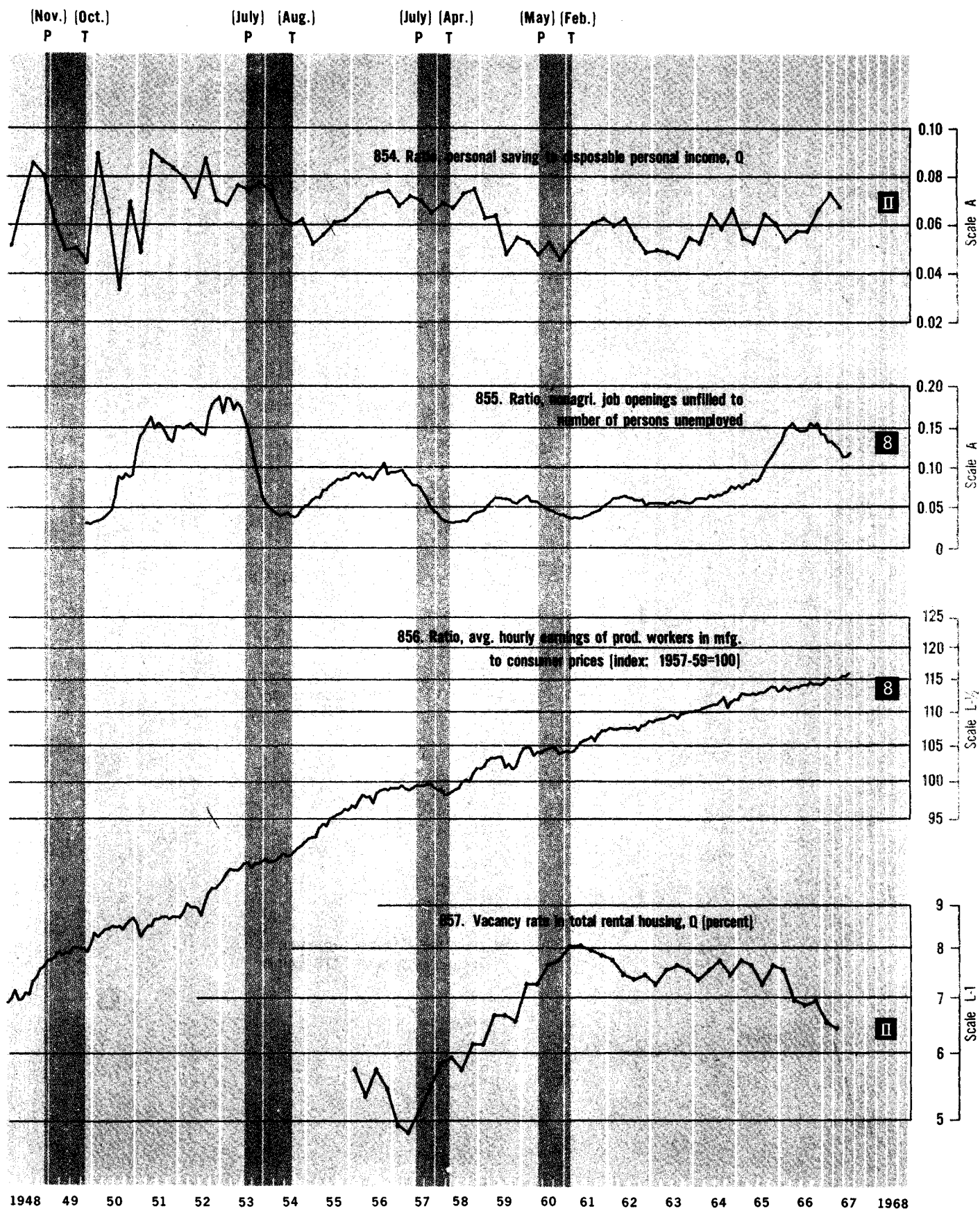


See 'How to Read Charts 1 and 2', page 4. Current data for these series are shown on page 43.





BUSINESS CYCLE SERIES FROM 1948 to PRESENT-Continued  
U.S. Series Under Consideration-Continued



See 'How to Read Charts 1 and 2', page 4. Current data for these series are shown on page 43.



# BASIC DATA

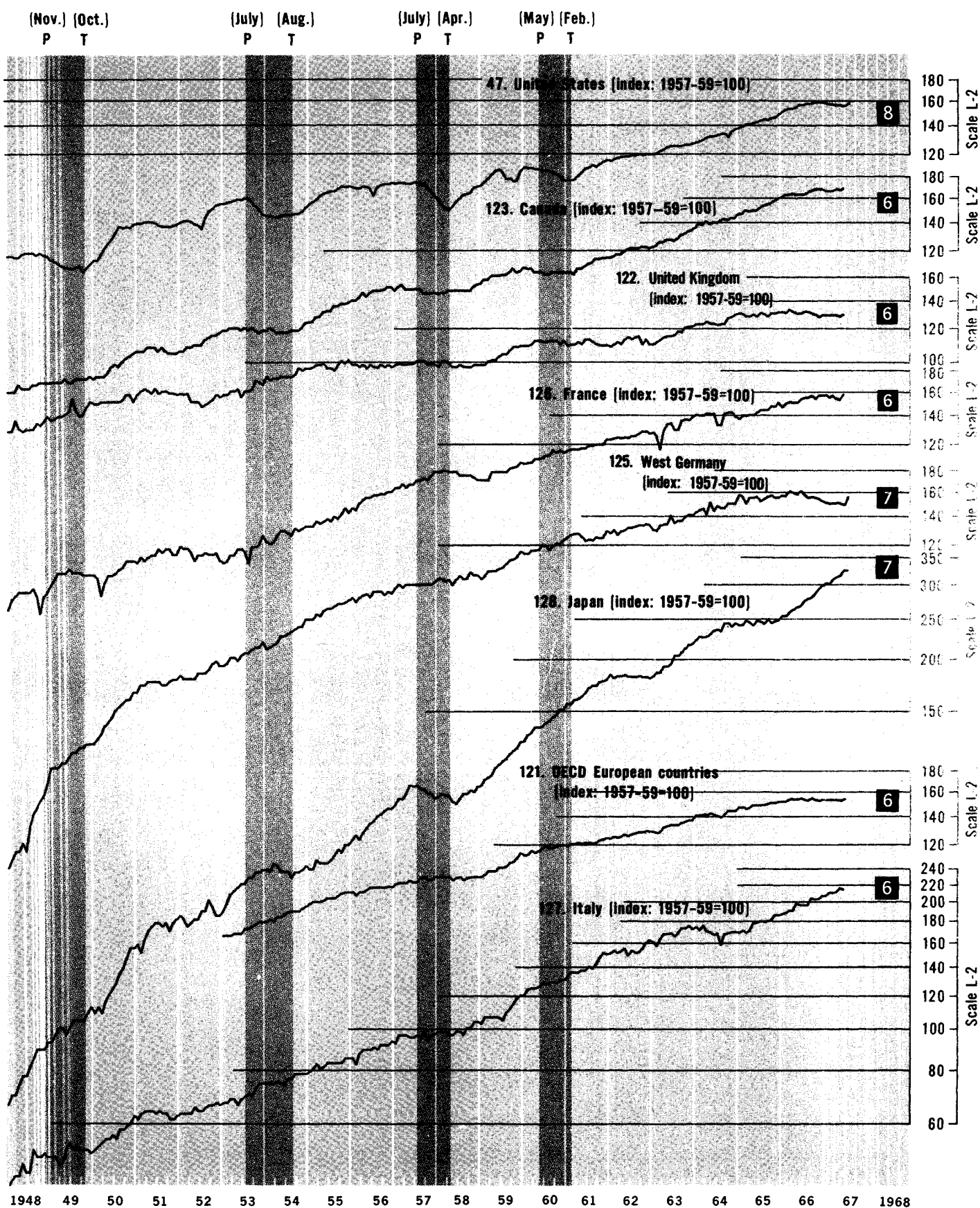
BUSINESS CYCLE SERIES FROM 1948 to PRESENT—Continued

International Comparisons

SEPTEMBER 1967

**bcd**

## INDUSTRIAL PRODUCTION INDEXES



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 44.

# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES

### Leading Indicators

Table 2A



Major Economic Process	EMPLOYMENT AND UNEMPLOYMENT					FIXED CAPITAL INVESTMENT	
Minor Economic Process	Marginal Employment Adjustments					Formation of Business Enterprises	
Year and month	*1. Average workweek of production workers, manufacturing (Hours)	*30. Nonagricultural placements, all industries (Thous.)	2. Accession rate, manufacturing (Per 100 employees)	5. Average weekly initial claims for unemployment insurance, State programs <sup>1</sup> (Thous.)	3. Layoff rate, manufacturing (Per 100 employees)	*38. Index of net business formation (1957-59=100)	13. Number of new business incorporations (Number)
	Revised <sup>2</sup>		Revised <sup>2</sup>		Revised <sup>2</sup>		
<b>1965</b>							
January.....	41.1	522	4.0	243	1.4	106.5	16,784
February.....	41.2	549	4.1	248	1.4	106.6	16,854
March.....	41.3	528	4.2	237	1.4	106.1	17,131
April.....	41.0	535	4.0	237	1.5	104.7	16,664
May.....	41.1	533	4.1	224	1.4	105.4	16,580
June.....	41.0	548	4.4	224	1.4	106.2	17,017
July.....	41.0	541	4.1	231	1.5	106.5	16,844
August.....	41.1	537	4.3	248	1.6	105.7	16,901
September.....	41.0	529	4.5	218	1.4	106.1	17,136
October.....	41.2	547	4.5	209	1.3	105.5	16,994
November.....	41.4	544	4.8	212	1.3	106.1	17,606
December.....	41.4	563	4.9	206	1.4	106.9	17,625
<b>1966</b>							
January.....	41.4	570	4.9	222	1.2	109.1	18,087
February.....	41.6	600	4.9	219	1.2	109.6	17,451
March.....	41.5	589	5.1	182	1.1	109.6	17,266
April.....	41.5	522	4.9	179	1.2	107.6	17,057
May.....	41.4	513	5.1	185	1.1	106.8	16,644
June.....	41.3	567	5.2	186	1.3	106.2	16,577
July.....	41.2	542	4.7	230	1.7	104.8	16,074
August.....	41.4	543	5.1	196	1.1	103.9	16,343
September.....	41.4	509	4.9	183	1.1	102.7	15,764
October.....	41.3	533	5.1	186	1.1	103.3	16,233
November.....	41.3	530	4.8	194	1.2	100.6	16,206
December.....	41.0	524	4.6	212	1.3	101.4	16,583
<b>1967</b>							
January.....	41.0	534	4.6	203	1.4	102.2	16,703
February.....	40.3	519	4.3	242	1.5	103.2	15,987
March.....	40.4	497	4.1	256	1.7	103.3	16,244
April.....	40.5	474	4.2	263	1.5	104.0	16,760
May.....	40.3	448	4.6	234	1.4	105.7	17,627
June.....	40.3	487	4.6	225	1.4	109.0	17,799
July.....	40.5	484	4.1	265	1.6	108.4	16,072
August.....	40.6	487	(NA)	211	(NA)	(NA)	(NA)
September.....							
October.....							
November.....							
December.....							

NOTE: Series are seasonally adjusted except those series that appear to contain no seasonal movement. Unadjusted series are indicated by (U). Current high values are indicated by (H); for series that move counter to movements in general business activity (series 3, 5, 14, 39, 40, 43, 45, 93, and 502), current low values are indicated by (L). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. Series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of indicators. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

<sup>1</sup>Data exclude Puerto Rico which is included in figures published by source agency.

<sup>2</sup>See "New Features and Changes for This Issue," page v.

Table 2A



# BASIC DATA

LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

Leading Indicators—Continued

SEPTEMBER 1967

**bcd**

Major Economic Process	FIXED CAPITAL INVESTMENT—Con.							
Minor Economic Process	New Investment Commitments							
Year and month	*6. Value of manufacturers' new orders, durable goods industries (Bil. dol.)	94. Index of construction contracts, total value (1957-59=100)	*10. Contracts and orders for plant and equipment (Bil. dol.)	11. Newly approved capital appropriations, 1,000 manufacturing corporations (Bil. dol.)	24. Value of manufacturers' new orders, machinery and equipment industries (Bil. dol.)	9. Construction contracts, commercial and industrial buildings (Mil. sq. ft. floor space)	7. New private nonfarm housing units started <sup>1</sup> (Ann. rate, thous.)	*29. Index of new private housing units authorized by local building permits <sup>2</sup> (1957-59=100)
<b>1965</b>								
January .....	21.27	137	4.72	...	3.96	52.94	1,384	112.3
February .....	21.13	140	4.67	5.03	3.80	54.89	1,418	108.2
March .....	21.71	141	4.84	...	4.02	54.41	1,429	109.9
April .....	22.04	152	4.98	...	4.08	57.74	1,432	106.2
May .....	20.99	145	5.02	5.51	4.07	57.52	1,461	109.7
June .....	21.31	139	4.81	...	4.09	57.72	1,476	109.9
July .....	22.20	149	5.16	...	4.35	56.68	1,484	108.9
August .....	21.51	139	4.90	5.62	4.16	52.00	1,382	108.4
September .....	22.16	147	5.15	...	4.15	62.97	1,453	104.1
October .....	22.42	147	5.13	...	4.25	60.55	1,438	109.8
November .....	22.39	141	5.05	6.11	4.32	61.74	1,443	112.9
December .....	23.40	153	5.35	...	4.58	64.13	1,544	114.0
<b>1966</b>								
January .....	23.58	152	5.46	...	4.45	62.29	1,403	110.7
February .....	23.74	157	5.71	6.34	4.58	70.42	1,381	105.6
March .....	24.89	158	5.66	...	4.59	67.99	1,400	111.9
April .....	24.20	161	5.91	...	4.79	68.28	1,356	104.6
May .....	24.28	156	5.77	6.69	4.84	64.00	1,232	96.9
June .....	24.59	147	5.57	...	4.75	65.85	1,161	84.2
July .....	24.37	147	6.10	...	5.09	63.54	1,061	81.3
August .....	23.51	139	5.87	5.97	4.81	63.52	1,088	74.5
September .....	25.27	146	6.28	...	4.91	64.40	1,020	64.7
October .....	24.24	139	5.76	...	4.82	54.76	824	63.0
November .....	23.03	130	5.52	5.96	4.65	64.42	956	63.1
December .....	23.96	133	5.45	...	4.60	60.21	910	67.0
<b>1967</b>								
January .....	22.07	126	5.40	...	4.54	49.09	1,079	83.1
February .....	22.33	143	5.34	5.68	4.24	57.84	1,132	78.9
March .....	22.06	149	5.50	...	4.32	56.14	1,067	81.9
April .....	22.23	138	5.37	...	4.44	59.04	1,099	90.7
May .....	23.86	154	5.55	p5.45	4.61	53.16	1,254	91.1
June .....	r24.26	164	5.82	...	4.79	64.03	r1,214	97.9
July .....	r23.38	149	r5.54	...	r4.68	55.29	r1,349	r96.4
August .....	p22.85	155	p5.98	...	p4.88	63.00	p1,355	p97.1
September .....								
October .....								
November .....								
December .....								

NOTE: Series are seasonally adjusted except those series that appear to contain no seasonal movement. Unadjusted series are indicated by (u). Current high values are indicated by (H); for series that move counter to movements in general business activity (series 3, 5, 14, 39, 40, 43, 45, 93, and 502), current low values are indicated by (L). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. Series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of indicators. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

<sup>1</sup>High value (1,833) was reached in October 1963.

<sup>2</sup>High value (124.6) was reached in February 1964.



Major Economic Process	INVENTORIES AND INVENTORY INVESTMENT						
Minor Economic Process	Inventory Investment and Purchasing						
Year and month	21. Change in business inventories after valuation adjustment, all industries (Ann. rate, bil. dol.)	*31. Change in book value of manufacturing and trade inventories, total (Ann. rate, bil. dol.)	37. Purchased materials, percent of companies reporting higher inventories <sup>1</sup> (Percent reporting)	20. Change in book value of manufacturers' inventories of materials and supplies <sup>2</sup> (Ann. rate, bil. dol.)	26. Production materials, percent of companies reporting commitments 60 days or longer <sup>①</sup> (Percent reporting)	32. Vendor performance, percent of companies reporting slower deliveries <sup>②</sup> (Percent reporting)	25. Change in unfilled orders, durable goods industries (Bil. dol.)
<b>1965</b>							
January .....	...	+12.6	61	+1.0	65	68	+0.32
February .....	+10.6	+3.8	62	+0.4	65	72	+0.81
March .....	...	+14.9	57	+2.5	68	66	+0.44
April .....	...	+8.8	61	+5.3	67	72	+0.84
May .....	+8.8	+8.4	59	+1.5	65	70	+0.50
June .....	...	+7.8	56	-0.5	62	66	+0.58
July .....	...	+11.5	54	+0.7	62	62	+0.38
August .....	+9.4	+12.2	58	+1.4	63	64	+0.32
September .....	...	+2.3	57	+3.1	61	62	+1.24
October .....	...	+6.3	47	+0.9	63	60	+1.28
November .....	+9.9	+10.2	49	+1.0	63	66	+0.78
December .....	...	+19.4	49	+2.0	63	72	+1.09
<b>1966</b>							
January .....	...	+8.1	49	+0.9	68	74	+1.27
February .....	+9.9	+11.7	47	+1.2	67	85	+1.31
March .....	...	+13.1	52	+0.8	68	86	+1.65
April .....	...	+12.8	51	+3.8	69	82	+1.49
May .....	+14.0	+17.7	53	+3.4	70	75	+1.36
June .....	...	+16.9	54	+4.0	72	69	+1.70
July .....	...	+13.6	58	+1.1	73	70	+1.34
August .....	+11.4	+15.9	58	+5.4	73	73	+0.64
September .....	...	+9.6	54	+3.3	72	72	+2.30
October .....	...	+18.6	58	+1.4	75	70	+0.79
November .....	▶ +18.5	+17.6	57	+2.0	73	64	-0.21
December .....	...	▶ +20.3	56	+1.6	70	57	+0.24
<b>1967</b>							
January .....	...	+12.5	47	+2.2	72	48	-0.99
February .....	+7.1	+2.3	43	-1.0	67	51	-0.30
March .....	...	+3.8	46	-0.3	68	38	-1.07
April .....	...	+3.1	37	+0.6	67	39	-0.04
May .....	+0.5	+0.9	39	-1.1	66	36	+0.96
June .....	...	r-3.3	42	r-1.0	68	38	r+1.21
July .....	...	p-0.4	40	p-1.8	61	41	r+0.26
August .....	...	(NA)	43	(NA)	66	43	p-0.36
September .....	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...

NOTE: Series are seasonally adjusted except those series that appear to contain no seasonal movement. Unadjusted series are indicated by ①. Current high values are indicated by ▶; for series that move counter to movements in general business activity (series 3, 5, 14, 39, 40, 43, 45, 93, and 502), current low values are indicated by ◀. Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. Series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of indicators. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

<sup>1</sup>High value (63) was reached in November 1964.

<sup>2</sup>High value (+6.6) was reached in December 1961.





# BASIC DATA

LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

Leading Indicators—Continued

SEPTEMBER 1967

**bcd**

Major Economic Process	PRICES, COSTS, AND PROFITS					
Minor Economic Process	Sensitive Commodity Prices	Stock Prices	Profits and Profit Margins			
Year and month	*23. Index of industrial materials prices <sup>(1)</sup>	*19. Index of stock prices, 500 common stocks <sup>(2)</sup>	*16. Corporate profits after taxes	22. Ratio of profits to income originating, corporate, all industries	18. Profits (before taxes) per dollar of sales, all manufacturing corporations	*17. Ratio, price to unit labor cost index, manufacturing
	(1957-59=100)	(1941-43=10)	(Ann. rate, bil. dol.)	(Percent)	(Cents)	(1957-59=100)
<b>1965</b>						
January .....	110.6	86.12	...	...	...	103.0
February .....	110.7	86.75	43.7	13.0	9.6	103.0
March .....	113.2	86.83	...	...	...	103.1
April .....	116.7	87.97	...	...	...	103.5
May .....	116.9	89.28	44.6	13.1	9.3	103.7
June .....	115.3	85.04	...	...	...	104.5
July .....	114.6	84.91	...	...	...	104.6
August .....	115.2	86.49	44.8	13.0	9.4	104.2
September .....	114.8	89.38	...	...	...	103.5
October .....	115.0	91.39	...	...	...	103.2
November .....	115.5	92.15	47.7	13.5	9.5	103.6
December .....	117.1	91.73	...	...	...	104.4
<b>1966</b>						
January .....	120.5	93.32	...	...	...	105.1
February .....	122.9	92.69	49.2	13.5	9.8	105.1
March .....	123.5	88.88	...	...	...	105.1
April .....	121.5	91.60	...	...	...	104.5
May .....	118.3	86.78	49.2	13.2	9.3	105.0
June .....	118.4	86.06	...	...	...	104.7
July .....	118.8	85.84	...	...	...	105.2
August .....	111.7	80.65	49.4	13.0	9.2	104.6
September .....	108.9	77.81	...	...	...	103.9
October .....	106.3	77.13	...	...	...	103.7
November .....	105.9	80.99	49.3	12.6	9.0	102.7
December .....	105.8	81.33	...	...	...	102.8
<b>1967</b>						
January .....	106.8	84.45	...	...	...	101.5
February .....	105.2	87.36	46.5	12.0	8.5	101.0
March .....	102.5	89.42	...	...	...	100.6
April .....	100.1	90.96	...	...	...	100.8
May .....	99.6	92.59	46.5	11.9	8.2	100.3
June .....	99.8	91.43	...	...	...	99.8
July .....	98.3	93.01	...	...	...	100.8
August .....	98.1	94.49	...	...	...	100.1
September .....	98.1	96.63	...	...	...	...
October .....						
November .....						
December .....						

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<sup>1</sup> Average for September 19, 20, and 21.

<sup>2</sup> Average for September 20, 21, and 22.

# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

### Leading Indicators—Continued



Major Economic Process	MONEY AND CREDIT							
Minor Economic Process	Flows of Money and Credit						Credit Difficulties	
Year and month	98. Change in money supply and time deposits (Ann. rate, percent)	85. Change in total U.S. money supply (Ann. rate, percent)	33. Net change in mortgage debt held by fin. inst. and life insurance companies <sup>1</sup> (Ann. rate, bil. dol.)	*113. Net change in consumer installment debt (Ann. rate, bil. dol.)	112. Change in business loans (Ann. rate, bil. dol.)	110. Total private borrowing (Ann. rate, mil. dol.)	14. Current liabilities of business failures <sup>2</sup> (Mil. dol.)	39. Delinquency rate, 30 days and over, total installment loans <sup>3</sup> (Percent)
<b>1965</b>	Revised*	Revised*						
January.....	+9.60	+2.28	+20.53	+7.38	+9.90	...	84.54	...
February.....	+9.60	+3.00	+18.97	+7.16	+12.67	62,100	107.57	1.77
March.....	+7.44	+2.28	+21.13	+7.70	+11.34	...	146.29	...
April.....	+7.80	+3.72	+20.56	▲ +8.94	+7.68	...	79.51	1.71
May.....	+5.28	0.00	+19.88	+7.87	+10.38	69,232	139.09	...
June.....	+9.72	+6.72	+22.94	+7.14	+10.09	...	135.66	1.74
July.....	+9.72	+5.16	+20.35	+8.69	+14.12	...	120.64	...
August.....	+10.80	+5.88	+21.44	+7.87	+5.39	64,688	128.98	1.83
September.....	+10.32	+5.88	+22.01	+8.23	+7.87	...	108.56	...
October.....	+13.32	+8.76	+20.93	+7.44	+7.45	...	85.67	1.83
November.....	+8.52	+3.60	+21.79	+8.39	+6.96	67,836	66.65	...
December.....	+9.60	+7.92	+21.98	+7.61	+5.30	...	128.06	1.65
<b>1966</b>								
January.....	+6.48	+7.92	+23.81	+7.16	+14.10	...	111.67	...
February.....	+4.56	+2.88	+22.72	+6.46	+6.24	66,924	94.59	1.73
March.....	+9.12	+6.36	+22.82	+7.79	+8.76	...	98.73	...
April.....	+12.36	+9.24	+20.80	+6.37	+8.50	...	106.93	1.78
May.....	+4.80	-2.16	+17.69	+5.92	+9.58	▶ 77,784	92.41	...
June.....	+7.80	+2.88	+15.18	+6.59	+17.70	...	111.23	1.76
July.....	+3.72	-4.92	r+12.38	+6.77	▶ r+21.11	...	62.84	...
August.....	+5.16	+1.44	r+12.56	+7.22	r+2.89	56,320	159.29	1.76
September.....	+3.36	+2.88	+11.45	+5.70	+0.67	...	128.77	...
October.....	-0.72	-2.76	+10.15	+4.56	+5.93	...	128.02	1.79
November.....	-0.72	0.00	+10.07	+5.33	+2.63	50,524	116.90	...
December.....	+5.52	+2.16	+7.14	+3.85	+0.14	...	194.09	1.75
<b>1967</b>								
January.....	+7.68	-0.72	+14.11	+3.36	+6.01	...	118.61	...
February.....	+14.16	+8.40	+12.11	+2.59	+0.86	59,456	111.23	1.82
March.....	▶ +15.00	+11.16	+11.95	+3.17	+6.83	...	108.87	...
April.....	+5.64	-2.76	+11.64	+2.56	+9.25	...	110.80	1.90
May.....	+13.08	▶ +12.48	+15.80	+2.32	+1.63	p65,400	93.00	...
June.....	+14.28	+11.64	r+19.34	+3.50	+8.16	...	87.20	1.72
July.....	+13.44	+11.52	p+12.95	+2.70	+16.46	...	64.15	...
August.....	p+13.32	p+8.76	(NA)	(NA)	p-9.44	...	98.29	(NA)
September.....								
October.....								
November.....								
December.....								

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<sup>1</sup>High value (24.02) was reached in October 1963.

<sup>2</sup>High value (52.86) was reached in August 1963.

<sup>3</sup>High value (1.57) was reached in May 1963.

<sup>4</sup>See "New Features and Changes for This Issue," page v.



# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

### Roughly Coincident Indicators

SEPTEMBER 1967

bcd

Major Economic Process	EMPLOYMENT AND UNEMPLOYMENT							
Minor Economic Process	Job Vacancies		Comprehensive Employment			Comprehensive Unemployment		
Year and month	301. Nonagricultural job openings unfilled (Thous.)	46. Index of help-wanted advertising in newspapers (1957-59=100)	511. Man-hours in nonagricultural establishments (Ann. rate, bil. man-hours)	*41. Number of employees in nonagricultural establishments (Thous.)	42. Total non-agricultural employment, labor force survey (Thous.)	*43. Unemployment rate, total (Percent)	45. Average weekly insured unemployment rate, State programs <sup>1</sup> (Percent)	40. Unemployment rate, married males (Percent)
<b>1965</b>				Revised <sup>2</sup>				
January .....	268	137	123.22	59,484	65,841	4.8	3.3	2.7
February .....	267	145	123.98	59,778	65,863	5.0	3.3	2.6
March .....	270	148	124.44	60,048	66,150	4.7	3.2	2.5
April .....	279	143	124.11	60,186	66,109	4.8	3.1	2.5
May .....	285	145	124.68	60,453	66,169	4.6	3.0	2.5
June .....	280	146	124.75	60,692	66,582	4.6	2.9	2.4
July .....	285	145	124.96	60,928	67,061	4.5	3.0	2.3
August .....	313	152	125.87	61,132	66,961	4.4	3.0	2.5
September .....	338	160	126.14	61,319	67,017	4.4	2.9	2.2
October .....	354	168	126.59	61,553	67,197	4.3	2.7	2.1
November .....	359	181	127.49	61,933	67,681	4.1	2.6	2.0
December .....	378	186	128.30	62,319	67,950	4.0	2.6	1.9
<b>1966</b>								
January .....	392	184	128.70	62,503	68,266	3.9	2.6	1.9
February .....	403	191	129.75	62,889	68,186	3.7	2.6	1.9
March .....	428	201	130.72	63,296	68,153	3.8	2.3	1.9
April .....	430	189	130.07	63,427	68,343	3.7	2.1	1.8
May .....	425	185	130.26	63,616	68,351	3.9	2.1	1.8
June .....	421	184	131.66	64,069	68,749	3.9	2.2	1.9
July .....	420	186	131.44	64,180	68,920	3.9	2.4	2.0
August .....	426	189	132.18	64,345	69,206	3.8	2.4	2.0
September .....	438	189	131.84	64,394	69,309	3.7	2.1	1.9
October .....	433	193	132.26	64,694	69,420	3.8	2.0	1.9
November .....	417	194	133.12	65,014	70,005	3.5	2.1	1.7
December .....	406	193	133.08	65,251	69,882	3.7	2.3	1.7
<b>1967</b>								
January .....	393	189	134.03	65,564	70,240	3.7	2.3	1.7
February .....	374	190	133.52	65,692	70,247	3.7	2.4	1.6
March .....	364	184	133.51	65,749	69,892	3.6	2.6	1.7
April .....	353	181	132.72	65,653	70,020	3.7	2.6	1.9
May .....	350	174	132.69	65,639	69,637	3.8	2.7	1.9
June .....	347	171	133.34	65,903	70,420	4.0	2.6	2.0
July .....	337	169	134.24	65,947	70,633	3.9	2.8	1.8
August .....	p352	p180	p135.43	p66,250	70,726	3.8	2.6	2.0
September .....								
October .....								
November .....								
December .....								

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<sup>1</sup>Data exclude Puerto Rico which is included in figures published by source agency.

<sup>2</sup>See "New Features and Changes for This Issue," page v.



## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

## Roughly Coincident Indicators—Continued

Table 2B



Major Economic Process	PRODUCTION, INCOME, CONSUMPTION, AND TRADE							
Minor Economic Process	Comprehensive Production			Comprehensive Income		Comprehensive Consumption and Trade		
Year and month	49. Gross national product in current dollars (Ann. rate, bil. dol.)	*50. Gross national product in 1958 dollars (Ann. rate, bil. dol.)	*47. Index of industrial production (1957-59=100)	*52. Personal income (Ann. rate, bil. dol.)	53. Wages and salaries in mining, manufacturing, and construction (Ann. rate, bil. dol.)	*816. Manufacturing and trade sales (Mil. dol.)	57. Final sales (series 49 minus series 21) (Ann. rate, bil. dol.)	*54. Sales of retail stores (Mil. dol.)
<b>1965</b>								
January .....	...	...	138.8	519.2	136.7	76,867	...	22,936
February .....	662.7	601.5	139.6	519.3	138.0	76,558	652.0	23,076
March .....	...	...	140.9	522.5	139.2	78,734	...	22,856
April .....	...	...	141.0	524.6	138.2	78,330	...	22,849
May .....	675.4	609.7	141.8	530.6	139.9	78,643	666.5	23,317
June .....	...	...	143.1	535.1	140.9	78,805	...	23,322
July .....	...	...	144.3	538.1	141.7	80,776	...	23,668
August .....	690.0	620.7	144.9	540.3	142.8	79,685	680.6	23,585
September .....	...	...	144.1	555.2	143.2	79,610	...	23,753
October .....	...	...	145.5	550.8	145.2	80,655	...	24,330
November .....	708.4	634.4	146.7	556.0	146.9	82,214	698.5	24,647
December .....	...	...	149.0	561.4	148.7	83,479	...	24,704
<b>1966</b>								
January .....	...	...	150.6	563.7	149.4	84,727	...	25,081
February .....	725.9	645.4	152.4	567.4	151.5	84,530	716.0	25,049
March .....	...	...	153.7	572.3	153.4	86,991	...	25,536
April .....	...	...	153.9	574.7	154.0	85,455	...	24,949
May .....	736.7	649.3	155.3	576.1	155.0	85,426	722.6	24,475
June .....	...	...	156.5	581.1	156.8	86,957	...	25,394
July .....	...	...	157.2	584.7	156.9	86,678	...	25,362
August .....	748.8	654.8	158.0	589.1	158.5	86,995	737.4	25,572
September .....	...	...	157.7	594.1	159.5	86,775	...	25,703
October .....	...	...	158.9	597.5	160.5	87,066	...	25,550
November .....	762.1	661.1	158.6	602.1	161.3	86,699	743.6	25,610
December .....	...	...	159.0	605.0	162.1	87,875	...	25,368
<b>1967</b>								
January .....	...	...	158.1	610.4	163.3	87,386	...	25,687
February .....	766.3	660.7	156.4	612.6	162.4	86,299	759.2	25,470
March .....	...	...	156.4	615.6	162.7	87,458	...	25,739
April .....	...	...	156.3	616.5	162.2	86,833	...	25,918
May .....	775.1	664.7	r155.6	618.2	161.5	87,611	774.6	25,897
June .....	...	...	r155.5	622.6	162.4	r88,549	...	r26,544
July .....	...	...	r156.7	r626.7	r163.1	p89,048	...	r26,644
August .....	...	...	p158.0	p631.2	p164.7	(NA)	...	p27,016
September .....	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...	...

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Table 2B



# BASIC DATA

LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

Roughly Coincident Indicators—Continued

SEPTEMBER 1967

**bcd**

Major Economic Process	FIXED CAPITAL INVESTMENT		PRICES, COSTS, AND PROFITS		MONEY AND CREDIT				
Minor Economic Process	Backlog of Investment Commitments		Comprehensive Wholesale Prices		Bank Reserves	Money Market Interest Rates			
Year and month	96. Manufacturers' unfilled orders, durable goods industries (Bil. dol.)	97. Backlog of capital appropriations, manufacturing (Bil. dol.)	55. Index of wholesale prices, industrial commodities <sup>Ⓢ</sup> (1957-59=100)	58. Index of wholesale prices, manufactured goods <sup>Ⓢ</sup> (1957-59=100)	93. Free reserves <sup>Ⓢ</sup> (Mil. dol.)	114. Treasury bill rate <sup>Ⓢ</sup> (Percent)	116. Corporate bond yields <sup>Ⓢ</sup> (Percent)	115. Treasury bond yields <sup>Ⓢ</sup> (Percent)	117. Municipal bond yields <sup>Ⓢ</sup> (Percent)
<b>1965</b>									
January .....	54.28	...	101.9	101.8	+106	3.83	4.45	4.14	3.06
February .....	55.09	...	101.9	101.8	+36	3.93	4.45	4.16	3.09
March .....	55.53	15.26	102.0	101.8	-75	3.94	4.49	4.15	3.18
April .....	56.37	...	102.1	102.1	-105	3.93	4.48	4.15	3.15
May .....	56.88	...	102.3	102.4	-180	3.90	4.52	4.14	3.17
June .....	57.45	16.35	102.5	103.0	-182	3.81	4.57	4.14	3.24
July .....	57.83	...	102.5	103.1	-174	3.83	4.57	4.15	3.27
August .....	58.15	...	102.7	103.2	-134	3.84	4.66	4.19	3.24
September .....	59.38	17.30	102.7	103.2	-144	3.91	4.71	4.25	3.35
October .....	60.66	...	102.8	103.4	-146	4.03	4.70	4.28	3.40
November .....	61.44	...	103.2	103.7	-83	4.08	4.75	4.34	3.46
December .....	62.53	18.38	103.2	104.1	-2	4.36	4.92	4.43	3.54
<b>1966</b>									
January .....	63.80	...	103.5	104.4	-44	4.60	4.93	4.43	3.52
February .....	65.11	...	103.8	104.9	-107	4.67	5.09	4.61	3.64
March .....	66.76	19.33	104.0	105.0	-246	4.63	5.33	4.63	3.72
April .....	68.25	...	104.3	105.1	-268	4.61	5.38	4.55	3.56
May .....	69.61	...	104.7	105.5	-352	4.64	5.55	4.57	3.65
June .....	71.31	20.56	104.9	105.6	-352	4.54	5.67	4.63	3.77
July .....	72.65	...	105.2	106.0	-362	4.86	5.81	4.75	3.95
August .....	73.29	...	105.2	106.4	-390	4.93	6.04	4.80	4.12
September .....	75.59	▶ 20.77	105.2	106.4	-368	5.36	6.14	4.79	▶ 4.12
October .....	76.38	...	105.3	106.3	▶ -431	▶ 5.39	6.04	4.70	3.94
November .....	76.17	...	105.5	106.2	-222	5.34	6.11	4.74	3.86
December .....	76.42	20.72	105.5	106.2	-165	5.01	5.98	4.65	3.86
<b>1967</b>									
January .....	75.43	...	105.8	106.4	-16	4.76	5.53	4.40	3.54
February .....	75.13	...	106.0	106.4	-4	4.55	5.35	4.47	3.52
March .....	74.06	20.39	106.0	106.3	+236	4.29	5.55	4.45	3.55
April .....	74.02	...	106.0	106.2	+175	3.85	5.59	4.51	3.60
May .....	74.97	...	106.0	106.3	+269	3.64	5.90	4.76	3.89
June .....	r76.18	p19.82	106.0	106.6	+297	3.48	6.06	4.86	3.96
July .....	▶ r76.45	...	▶ 106.0	▶ 106.8	+272	4.31	▶ 6.06	▶ 4.86	4.02
August .....	p76.09	...	▶ 106.3	▶ 106.8	p+282	4.28	▶ 6.30	▶ 4.95	3.99
September .....									
October .....									
November .....									
December .....									

NOTE: Series are seasonally adjusted except those series that appear to contain no seasonal movement. Unadjusted series are indicated by <sup>Ⓢ</sup>. Current high values are indicated by <sup>Ⓢ</sup>; for series that move counter to movements in general business activity (series 3, 5, 14, 39, 40, 43, 45, 93, and 502), current low values are indicated by <sup>Ⓢ</sup>. Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. Series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of indicators. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

### Lagging Indicators



Major Economic Process	EMPLOYMENT AND UNEMPLOYMENT	FIXED CAPITAL INVESTMENT		INVENTORIES AND INVENTORY INVESTMENT	
Minor Economic Process	Long-Duration Unemployment	Investment Expenditures		Inventories	
Year and month	*502. Unemployment rate, persons unemployed 15 weeks and over  (Percent)	*61. Business expenditures on new plant and equipment, total  (Ann. rate, bil. dol.)	505. Machinery and equipment sales and business construction expenditures <sup>1</sup>  (Ann. rate, bil. dol.)	*71. Manufacturing and trade inventories, book value  (Bil. dol.)	65. Manufacturers' inventories of finished goods, book value  (Bil. dol.)
<b>1965</b>					
January .....	1.1	...	60.01	112.10	22.36
February .....	1.2	49.00	60.66	112.42	22.43
March .....	1.1	...	63.24	113.66	22.51
April .....	1.1	...	63.12	114.39	22.29
May .....	1.0	50.35	62.73	115.09	22.36
June .....	1.1	...	62.87	115.74	22.34
July .....	0.9	...	64.81	116.70	22.55
August .....	1.0	52.75	62.89	117.71	22.53
September .....	1.0	...	65.27	117.91	22.61
October .....	0.9	...	65.74	118.43	22.66
November .....	0.9	55.35	67.47	119.28	22.86
December .....	0.9	...	69.94	120.90	23.14
<b>1966</b>					
January .....	0.8	...	70.32	121.57	23.45
February .....	0.8	58.00	69.74	122.54	23.62
March .....	0.8	...	72.67	123.63	23.81
April .....	0.8	...	71.34	124.70	23.84
May .....	0.7	60.10	70.52	126.18	24.07
June .....	0.6	...	72.01	127.58	24.14
July .....	0.6	...	73.57	128.71	24.50
August .....	0.6	61.25	73.39	130.04	24.67
September .....	0.6	...	74.39	130.84	24.88
October .....	0.7	...	74.18	132.39	25.08
November .....	0.6	62.80	73.84	133.86	25.54
December .....	0.6	...	74.72	135.55	26.00
<b>1967</b>					
January .....	0.6	...	70.44	136.59	26.40
February .....	0.6	61.65	69.50	136.78	26.67
March .....	0.6	...	68.85	137.09	26.83
April .....	0.6	...	66.79	137.35	27.13
May .....	0.5	61.50	67.59	137.43	27.28
June .....	0.6	...	68.30	137.15	27.00
July .....	0.6	...	68.69	137.12	27.18
August .....	0.6	62.50	(NA)	(NA)	(NA)
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November .....	...	62.65	...	...	...
December .....	...	...	...	...	...

NOTE: Series are seasonally adjusted except those series that appear to contain no seasonal movement. Unadjusted series are indicated by Ⓐ. Current high values are indicated by Ⓐ; for series that move counter to movements in general business activity (series 3, 5, 14, 39, 40, 43, 45, 93, and 502), current low values are indicated by Ⓐ. Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. Series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of indicators. The "r" indicates revised: "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

<sup>1</sup>Series is discontinuous because of the exclusion of data on expenditures for construction of public utilities beginning with January 1967; therefore, the high value indicated refers only to the later segment.



Table 2C



# BASIC DATA

LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

Lagging Indicators—Continued

SEPTEMBER 1967

bcd

Major Economic Process	PRICES, COSTS, AND PROFITS		MONEY AND CREDIT			
Minor Economic Process	Unit Labor Costs		Outstanding Debt		Interest Rates on Business Loans and Mortgages	
Year and month	68. Labor cost (cur. dol.) per unit of gross product (1958 dol.), nonfinancial corporations (Dollars)	*62. Index of labor cost per unit of output, manufacturing (1957-59=100)	66. Consumer installment debt (Mil. dol.)	*72. Commercial and industrial loans outstanding, weekly reporting large commercial banks (Mil. dol.)	*67. Bank rates on short-term business loans, 35 cities <sup>①</sup> (Percent)	118. Mortgage yields, residential <sup>①</sup> (Percent)
<b>1965</b>						
January .....	...	98.8	60,069	44,175	...	5.45
February .....	0.663	98.8	60,666	45,205	...	5.45
March .....	...	98.7	61,308	46,170	4.97	5.45
April .....	...	98.6	62,053	46,793	...	5.45
May .....	0.665	98.7	62,709	47,497	...	5.45
June .....	...	98.6	63,304	48,764	4.99	5.44
July .....	...	98.6	64,028	49,129	...	5.44
August .....	0.665	99.0	64,684	49,840	...	5.45
September .....	...	99.7	65,370	50,478	5.00	5.46
October .....	...	100.2	65,990	50,946	...	5.49
November .....	0.663	100.1	66,689	51,346	...	5.51
December .....	...	99.7	67,323	52,174	5.27	5.62
<b>1966</b>						
January .....	...	99.3	67,920	53,255	...	5.70
February .....	0.670	99.8	68,458	53,747	...	(NA)
March .....	...	99.9	69,107	54,522	5.55	6.00
April .....	...	100.6	69,638	55,118	...	(NA)
May .....	0.679	100.5	70,131	56,134	...	6.32
June .....	...	100.9	70,680	57,874	5.82	6.45
July .....	...	100.8	71,244	r59,380	...	6.51
August .....	0.687	101.7	71,846	58,982	...	6.58
September .....	...	102.4	72,321	59,349	6.30	6.63
October .....	...	102.5	72,701	59,879	...	(NA)
November .....	0.693	103.4	73,145	60,010	...	6.81
December .....	...	103.3	73,466	59,732	6.31	6.77
<b>1967</b>						
January .....	...	104.8	73,746	60,754	...	6.62
February .....	0.711	105.3	73,962	60,525	6.13	6.46
March .....	...	105.7	74,226	61,167	...	6.35
April .....	...	105.4	74,439	62,407	...	6.29
May .....	6.713	106.0	74,632	61,898	5.95	6.44
June .....	...	r106.8	74,924	63,341	...	6.51
July .....	...	r106.0	75,149	64,352	...	6.53
August .....	...	p106.7	(NA)	p62,944	5.94	6.60
September .....	...	...	...	...	...	...
October .....	...	...	...	...	...	...
November .....	...	...	...	...	...	...
December .....	...	...	...	...	...	...

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<sup>1</sup>Prior to 1967 data are based on 19 cities and refer to the last month of the quarter.



Major Economic Process	PRICES, COSTS, AND PROFITS	FOREIGN TRADE AND PAYMENTS						
Minor Economic Process	Comprehensive Retail Prices	Foreign Trade and Payments						
Year and month	81. Index of consumer prices <sup>Ⓐ</sup>  (1957-59 =100)	89. Excess of receipts (+) or payments (-) in U.S. balance of payments		88. Merchandise trade balance (series 86 minus series 87)  (Mil. dol.)	86. Exports, excluding military aid shipments, total  (Mil. dol.)	861. Manufacturers' new orders for export, durable goods except motor vehicles and parts <sup>Ⓐ</sup>  (Mil. dol.)	862. Index of export orders, nonelectrical machinery  (1957-59=100)	87. General imports, total  (Mil. dol.)
		a. Liquidity balance basis  (Mil. dol.)	b. Official settlements basis  (Mil. dol.)					
1965								
January .....	108.9	...	...	+28.5	1,227.5	603	228	1,199.0
February .....	108.9	-818	-834	+16.7	1,622.7	729	235	1,606.0
March .....	109.0	...	...	+878.0	2,738.9	694	242	1,860.9
April .....	109.3	...	...	+595.0	2,406.3	720	238	1,811.3
May .....	109.6	+199	+239	+502.7	2,299.3	718	241	1,796.6
June .....	110.1	...	...	+386.5	2,234.7	899	238	1,848.2
July .....	110.2	...	...	+557.7	2,299.5	829	241	1,741.8
August .....	110.0	-457	+207	+503.6	2,328.9	785	245	1,825.3
September .....	110.2	...	...	+433.3	2,291.3	722	231	1,858.0
October .....	110.4	...	...	+464.5	2,349.3	705	228	1,884.8
November .....	110.6	-259	-916	+437.5	2,378.1	891	234	1,940.6
December .....	111.0	...	...	+451.1	2,362.2	984	233	1,911.1
1966								
January .....	111.0	...	...	+324.0	2,271.6	852	237	1,947.6
February .....	111.6	-651	-443	+366.1	2,371.2	849	201	2,005.1
March .....	112.0	...	...	+501.2	2,568.9	904	227	2,067.7
April .....	112.5	...	...	+249.9	2,358.8	749	195	2,108.9
May .....	112.6	-122	-175	+348.3	2,410.8	976	217	2,062.5
June .....	112.9	...	...	+354.4	2,489.4	1,078	217	2,135.0
July .....	113.3	...	...	+250.7	2,455.4	805	201	2,204.7
August .....	113.8	-165	+861	+339.0	2,451.6	826	199	2,112.6
September .....	114.1	...	...	+234.4	2,534.2	1,059	200	2,299.8
October .....	114.5	...	...	+319.7	2,580.7	865	240	2,261.0
November .....	114.6	-419	-18	+299.8	2,486.1	785	235	2,186.3
December .....	114.7	...	...	+184.6	2,415.8	1,200	225	2,231.2
1967								
January .....	114.7	...	...	+324.6	2,620.2	891	234	2,295.6
February .....	114.8	-536	-1,825	+397.1	2,601.2	833	196	2,204.1
March .....	115.0	...	...	+384.4	2,569.1	905	252	2,184.7
April .....	115.3	...	...	+435.4	2,659.4	772	215	2,224.0
May .....	115.6	p-513	p-830	+426.2	2,544.8	1,029	220	2,118.6
June .....	116.0			+355.3	2,583.5	r1,043	r218	2,228.2
July .....	116.5			+355.2	2,590.6	p910	p236	2,235.4
August .....	116.9			+445.9	2,560.7	(NA)	(NA)	2,114.8
September .....								
October .....								
November .....								
December .....								

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Table 2D



# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

### Other Selected U.S. Series—Continued

SEPTEMBER 1967

bcd

Major Economic Process	FEDERAL GOVERNMENT ACTIVITIES								
Minor Economic Process	Federal Government Activities								
Year and month	95. Federal surplus (+) or deficit (-), national income and product account (Ann. rate, bil. dol.)	84. Federal cash surplus (+) or deficit (-) <sup>1</sup> (Ann. rate, bil. dol.)	83. Federal cash receipts from the public <sup>1</sup> (Ann. rate, bil. dol.)	82. Federal cash payments to the public (Ann. rate, bil. dol.)	101. National defense purchases, current dollars (Ann. rate, bil. dol.)	91. Defense Department obligations, total (Mil. dol.)	90. Defense Department obligations, procurement (Mil. dol.)	99. New orders, defense products indus. (Bil. dol.)	92. Military prime contract awards to U.S. business firms and institutions (Mil. dol.)
<b>1965</b>									
January .....	...	...	...	...	...	4,278	1,005	2.37	2,097
February .....	+4.5	-1.8	118.9	120.7	48.4	3,839	700	2.44	1,846
March .....	...	...	...	...	...	4,624	1,355	2.46	2,451
April .....	...	...	...	...	...	4,593	1,444	3.24	2,843
May .....	+4.9	<sup>a</sup> +1.0	<sup>a</sup> 130.6	129.6	49.2	4,630	1,402	2.46	2,150
June .....	...	...	...	...	...	4,520	1,254	2.58	2,390
July .....	...	...	...	...	...	4,258	1,128	2.62	2,313
August .....	-3.2	-5.8	122.6	128.4	50.3	5,223	1,741	2.81	2,775
September .....	...	...	...	...	...	5,276	1,732	3.45	2,419
October .....	...	...	...	...	...	4,962	1,733	3.28	2,790
November .....	-0.4	-9.7	122.7	132.4	52.4	4,896	1,212	2.57	2,995
December .....	...	...	...	...	...	5,669	1,882	2.53	2,988
<b>1966</b>									
January .....	...	...	...	...	...	5,100	1,639	3.40	2,940
February .....	+2.2	-12.9	134.7	147.6	55.1	5,179	1,736	3.04	2,850
March .....	...	...	...	...	...	5,879	1,904	3.38	2,913
April .....	...	...	...	...	...	6,444	2,109	3.30	3,359
May .....	+3.2	<sup>a</sup> +14.7	<sup>a</sup> 158.6	143.9	58.4	5,447	1,620	2.91	3,061
June .....	...	...	...	...	...	7,084	2,415	3.68	3,724
July .....	...	...	...	...	...	4,998	1,753	3.50	4,016
August .....	-0.7	-14.8	145.4	160.2	63.0	7,215	2,251	3.16	3,170
September .....	...	...	...	...	...	6,579	1,866	4.67	3,530
October .....	...	...	...	...	...	6,059	1,931	3.31	3,396
November .....	-3.3	-4.1	147.2	151.3	65.6	5,989	1,723	2.73	3,252
December .....	...	...	...	...	...	6,023	1,937	3.36	3,501
<b>1967</b>									
January .....	...	...	...	...	...	6,518	2,296	2.85	3,338
February .....	-11.9	-1.1	155.4	156.5	70.2	6,595	2,140	3.33	3,849
March .....	...	...	...	...	...	6,343	1,903	3.24	2,984
April .....	...	...	...	...	...	6,211	1,715	3.27	2,920
May .....	r-14.7	<sup>a</sup> +12.5	<sup>a</sup> 165.8	153.3	72.5	7,896	2,608	3.86	4,121
June .....	...	...	...	...	...	p6,791	p2,174	r4.20	3,626
July .....	...	...	...	...	...	(NA)	(NA)	r3.56	p3,561
August .....	...	...	...	...	...	...	...	p2.63	(NA)
September .....	...	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...	...	...

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<sup>1</sup>Beginning with 2d quarter 1966, data reflect graduated withholding of personal income taxes and change in schedule for depositing withheld and OASI taxes.

<sup>2</sup>Reflects accelerated corporate tax payments.





Major Economic Process	UNCLASSIFIED INDICATORS							
Minor Economic Process	Unclassified Indicators							
Year and month	850. Ratio, output to capacity, manufacturing (Percent)	851. Ratio, inventories to sales, manufacturing and trade (Ratio)	852. Ratio, unfilled orders to shipments, manufacturers' durable goods (Ratio)	853. Ratio, production of business equipment to consumer goods (1957-59:100)	854. Ratio, personal saving to disposable personal income (Ratio)	855. Ratio, nonagricultural job openings unfilled to persons unemployed (Ratio)	856. Ratio, average earnings of production workers in manufacturing to consumer prices (1957-59:100)	857. Vacancy rate in total rental housing (Percent)
1965							Revised <sup>1</sup>	
January .....	...	1.46	3.01	107.1	...	0.076	111.7	...
February .....	88.5	1.47	3.07	108.0	0.054	0.072	112.6	7.7
March .....	...	1.44	2.98	107.4	...	0.077	112.4	...
April .....	...	1.46	3.04	109.2	...	0.078	112.4	...
May .....	88.4	1.46	3.13	110.8	0.052	0.084	112.6	7.6
June .....	...	1.47	3.15	111.0	...	0.081	112.4	...
July .....	...	1.44	3.02	112.4	...	0.085	112.8	...
August .....	88.5	1.48	3.12	112.5	0.064	0.096	112.7	7.2
September .....	...	1.48	3.23	112.5	...	0.104	113.2	...
October .....	...	1.47	3.28	115.4	...	0.111	113.6	...
November .....	88.6	1.45	3.23	116.4	0.060	0.118	113.5	7.6
December .....	...	1.45	3.16	117.3	...	0.126	113.0	...
1966								
January .....	...	1.43	3.21	118.9	...	0.133	113.4	...
February .....	90.6	1.45	3.28	119.1	0.053	0.145	113.7	7.5
March .....	...	1.42	3.25	120.0	...	0.150	113.2	...
April .....	...	1.46	3.37	120.2	...	0.154	113.5	...
May .....	90.9	1.48	3.40	122.0	0.057	0.147	113.7	6.9
June .....	...	1.47	3.50	122.4	...	0.143	113.7	...
July .....	...	1.48	3.49	124.7	...	0.144	113.8	...
August .....	90.6	1.49	3.54	125.4	0.057	0.145	113.8	6.8
September .....	...	1.51	3.64	126.8	...	0.154	114.3	...
October .....	...	1.52	3.67	125.8	...	0.150	114.1	...
November .....	89.8	1.54	3.67	126.0	0.066	0.154	114.0	6.9
December .....	...	1.54	3.62	127.0	...	0.141	113.9	...
1967								
January .....	...	1.56	3.64	126.8	...	0.139	114.3	...
February .....	87.0	1.58	3.68	128.5	0.073	0.130	115.1	6.5
March .....	...	1.57	3.58	126.3	...	0.131	114.8	...
April .....	...	1.58	3.73	125.3	...	0.125	114.9	...
May .....	p84.7	1.57	3.69	124.9	0.067	0.121	114.9	6.4
June .....	...	1.55	3.74	r123.6	...	0.112	115.2	...
July .....	...	p1.54	r3.70	r123.2	...	0.112	115.2	...
August .....	...	(NA)	p3.67	p122.6	...	p0.118	p115.6	...
September .....	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...	...

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<sup>1</sup>See "New Features and Changes for This Issue," page v.



# BASIC DATA

## LATEST DATA FOR BUSINESS CYCLE SERIES—Continued

### International Comparisons

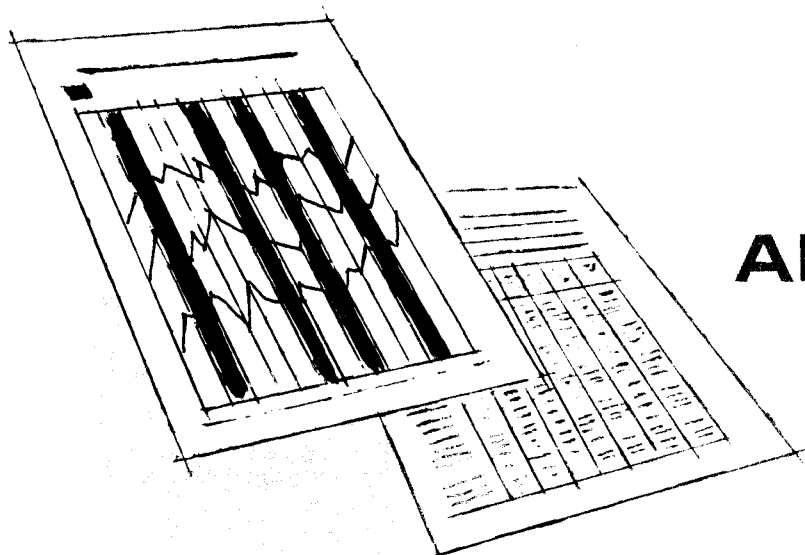
SEPTEMBER 1967

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Major Economic Process	INDUSTRIAL PRODUCTION INDEXES							
Minor Economic Process	Industrial Production Indexes							
Year and month	47. United States, index of industrial production (1957-59=100)	123. Canada, index of industrial production (1957-59=100)	122. United Kingdom, index of industrial production (1957-59=100)	121. OECD, <sup>1</sup> European countries, index of industrial production (1957-59=100)	125. West Germany, index of industrial production (1957-59=100)	126. France, index of industrial production (1957-59=100)	127. Italy, index of industrial production (1957-59=100)	128. Japan, index of industrial production (1957-59=100)
<b>1965</b>								
January .....	139	147	130	146	156	137	166	239
February .....	140	147	129	146	155	139	169	239
March .....	141	150	128	144	149	139	166	244
April .....	141	149	128	146	154	140	169	241
May .....	142	150	129	148	154	139	175	238
June .....	143	150	128	148	155	142	176	244
July .....	144	152	130	148	151	144	178	243
August .....	145	154	129	148	153	144	176	240
September .....	144	155	128	149	155	144	178	247
October .....	146	156	130	150	156	147	179	241
November .....	147	158	130	150	154	147	184	244
December .....	149	160	131	151	154	150	183	246
<b>1966</b>								
January .....	151	161	132	152	157	147	186	252
February .....	152	163	131	152	156	150	188	251
March .....	154	163	134	154	160	151	191	257
April .....	154	164	132	153	158	150	188	261
May .....	155	163	130	153	157	150	196	265
June .....	156	163	130	154	160	153	195	267
July .....	157	163	132	153	157	154	195	273
August .....	158	164	131	152	154	154	195	277
September .....	158	166	130	154	155	156	203	279
October .....	159	167	129	153	154	154	201	285
November .....	159	168	128	152	153	156	201	291
December .....	159	167	129	153	151	156	205	299
<b>1967</b>								
January .....	158	166	129	r152	150	156	205	301
February .....	156	166	129	153	149	r153	210	300
March .....	156	166	129	153	150	156	208	309
April .....	156	168	129	153	149	153	210	r312
May .....	156	167	128	152	149	152	r213	r315
June .....	r156	p168	p129	p153	148	156	p211	323
July .....	r157	(NA)	(NA)	(NA)	p154	(NA)	(NA)	p323
August .....	p158				(NA)			
September .....								
October .....								
November .....								
December .....								

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



# ANALYTICAL MEASURES

charts and tables

## DISTRIBUTION OF 'HIGHS' FOR CURRENT AND COMPARATIVE PERIODS

### DIFFUSION INDEXES BASED ON HUNDREDS OF COMPONENTS

Average workweek—21 industries

New orders—36 industries

Capital appropriations—17 industries

Profits—1,000 corporations

Stock prices—77 industries

Industrial materials prices—13 materials

State unemployment claims—47 areas

Nonagricultural employment—30 industries

Production—24 industries

Wholesale prices—22 industries

Retail sales—23 types of stores

Net sales—800 companies

New orders—400 companies

Carloadings—19 commodity groups

Plant and equipment expenditures—18 industries

## DIRECTIONS OF CHANGE FOR COMPONENTS OF DIFFUSION INDEXES



Table 3



## ANALYTICAL MEASURES

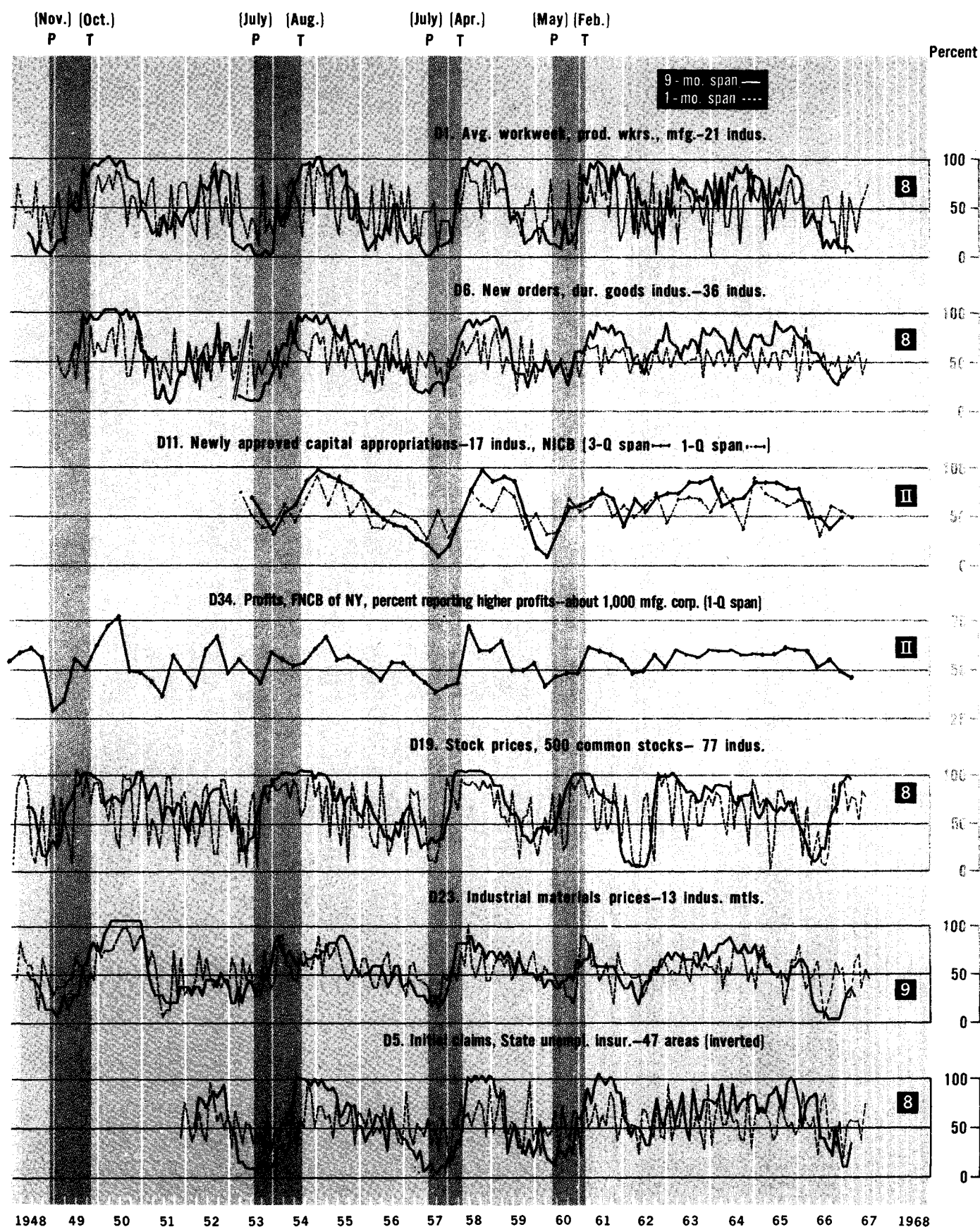
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## DISTRIBUTION OF "HIGHS" FOR CURRENT AND COMPARATIVE PERIODS

Number of months before benchmark date that high was reached	Number of series that reached a high before benchmark dates—							
	Current expansion				Business cycle peak			
	May 1967	June 1967	July 1967	Aug. 1967	Nov. 1948	July 1953	July 1957	May 1960
LEADING INDICATORS								
8 months or more .....	25	26	25	17	19	14	28	24
7 months .....	2	...	1	...	...	...	...	1
6 months .....	...	1	...	...	...	5	...	1
5 months .....	1	...	...	1	4	1	...	1
4 months .....	...	...	1	...	...	2	1	2
3 months .....	...	1	...	1	1	1	...	...
2 months .....	1	...	1	1	...	2	...	...
1 month .....	...	1	1	...	...	...	...	...
Benchmark month .....	1	1	...	1	...	1	...	...
Number of series used .....	30	30	29	21	24	26	29	29
Percent of series high on benchmark date .....	3	3	0	5	0	4	0	0
ROUGHLY COINCIDENT INDICATORS								
8 months or more .....	5	7	8	8	5	2	4	3
7 months .....	3	1	1	...	...	...	2	1
6 months .....	1	2	1	1	...	...	...	1
5 months .....	3	2	1	...	...	1	3	1
4 months .....	2	1	...	...	3	4	4	5
3 months .....	3	...	...	...	3	1	...	3
2 months .....	1	...	...	...	2	...	...	...
1 month .....	1	...	...	1	3	7	4	4
Benchmark month .....	2	8	10	10	2	3	4	3
Number of series used .....	21	21	21	20	18	18	21	21
Percent of series high on benchmark date .....	10	38	48	50	11	17	19	14
Number of months before benchmark date that high was reached	3d month before business cycle peak				6th month before business cycle peak			
	Aug. 1948	Apr. 1953	Apr. 1957	Feb. 1960	May 1948	Jan. 1953	Jan. 1957	Nov. 1959
	LEADING INDICATORS							
8 months or more .....	17	7	25	18	11	3	22	8
7 months .....	1	5	...	4	2	2	...	7
6 months .....	...	...	1	1	1	1	1	2
5 months .....	1	3	2	1	5	1	2	4
4 months .....	...	1	...	1	1	5	...	4
3 months .....	...	5	...	1	...	1	1	1
2 months .....	4	1	...	1	1	4	2	1
1 month .....	...	2	1	2	...	2	...	1
Benchmark month .....	1	2	...	...	3	7	1	1
Number of series used .....	24	26	29	29	24	26	29	29
Percent of series high on benchmark date .....	4	8	0	0	12	27	3	3
ROUGHLY COINCIDENT INDICATORS								
8 months or more .....	2	...	3	2	2	1	4	...
7 months .....	1	...	...	1	...	...	...	...
6 months .....	1	1	1	1	...	...	...	2
5 months .....	2	2	1	1	1	...	...	6
4 months .....	...	...	5	1	1	...	...	3
3 months .....	...	...	...	1	2	1	2	1
2 months .....	...	1	5	1	3	2	1	3
1 month .....	4	6	4	5	3	4	10	2
Benchmark month .....	8	8	2	8	6	10	4	4
Number of series used .....	18	18	21	21	18	18	21	21
Percent of series high on benchmark date .....	44	44	10	38	33	56	19	19

NOTE: All quarterly series are omitted from the distribution. The number of series included varies because some series are not available for all cycles and because those series which reached a peak during the Korean War are omitted from the 1953 distribution.



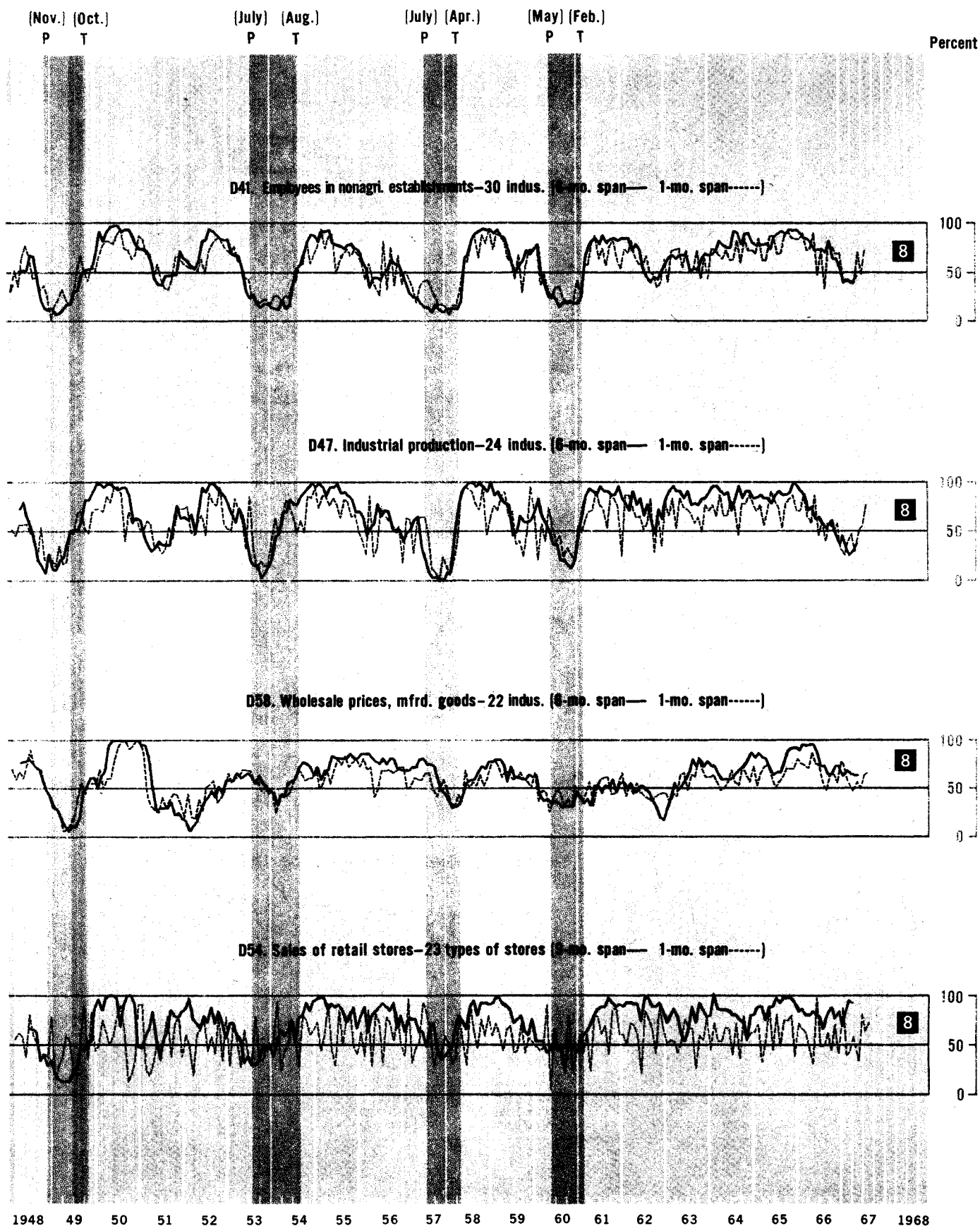
See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on pages 50 and 51.



## ANALYTICAL MEASURES

DIFFUSION INDEXES FROM 1948 to PRESENT—Continued

Roughly Coincident Indexes

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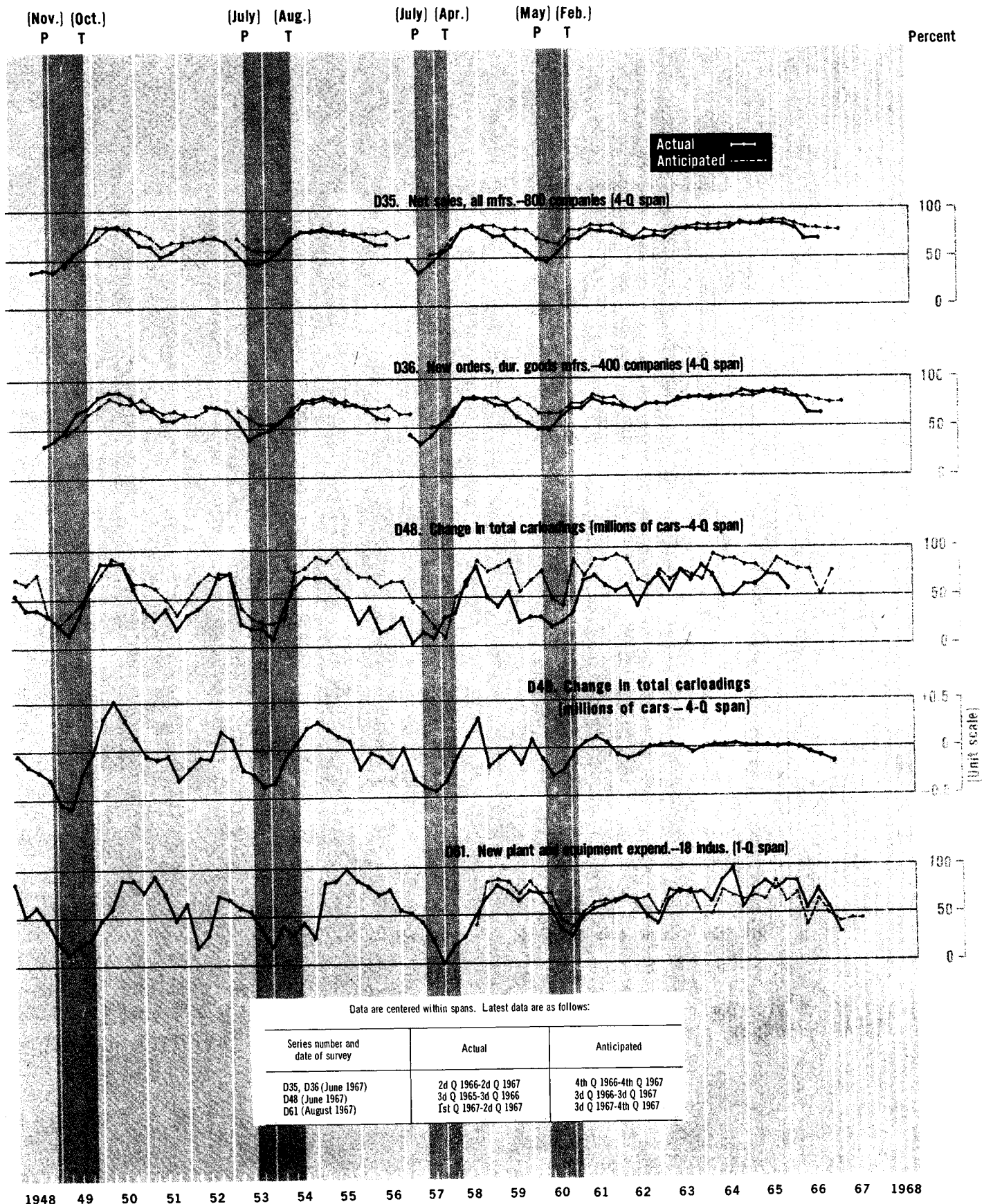
See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 52.

# ANALYTICAL MEASURES

## DIFFUSION INDEXES FROM 1948 to PRESENT—Continued

Actual and Anticipated Indexes

CHART 2C



See 'How to Read Charts 1 and 2,' page 4. Current data for these series are shown on page 53.





## ANALYTICAL MEASURES

## LATEST DATA FOR DIFFUSION INDEXES

## Leading Indexes

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Year and month	D1. Average workweek, manufacturing (21 industries)		D6. Value of manufacturers' new orders, durable goods industries (36 industries)		D11. Newly approved capital appropriations, NICB (17 industries)	
	1-month span	9-month span	1-month span	9-month span	1-quarter span	3-quarter span
1965	Revised <sup>1</sup>	Revised <sup>1</sup>				
January .....	61.9	83.3	48.6	77.8	88	82
February .....	57.1	81.0	38.9	75.0	...	...
March .....	76.2	78.6	63.9	77.8	...	...
April .....	19.0	61.9	50.0	68.1	71	82
May .....	81.0	47.6	44.4	66.7	...	...
June .....	28.6	54.8	58.3	68.1	...	...
July .....	52.4	71.4	59.7	91.7	65	82
August .....	59.5	64.3	41.7	83.3	...	...
September .....	40.5	81.0	61.1	80.6	...	...
October .....	71.4	95.2	61.1	81.9	59	76
November .....	81.0	92.9	55.6	86.1	...	...
December .....	54.8	83.3	76.4	83.3	...	...
1966						
January .....	57.1	83.3	30.6	75.0	65	76
February .....	69.0	76.2	50.0	75.0	...	...
March .....	40.5	31.0	84.7	66.7	...	...
April .....	50.0	35.7	41.7	72.2	62	47
May .....	50.0	45.2	50.0	58.3	...	...
June .....	33.3	35.7	51.4	59.7	...	...
July .....	21.4	38.1	50.0	55.6	29	47
August .....	61.9	9.5	59.7	44.4	...	...
September .....	64.3	19.0	37.5	41.7	...	...
October .....	35.7	9.5	50.0	36.1	59	35
November .....	38.1	19.0	44.4	31.9	...	...
December .....	9.5	14.3	55.6	27.8	...	...
1967						
January .....	69.0	9.5	31.9	38.9	53	p47
February .....	4.8	9.5	38.9	r41.7	...	
March .....	61.9	11.9	55.6	r44.4	...	
April .....	47.6	p7.1	50.0	p47.2	p47	
May .....	26.2		58.3			
June .....	52.4		r61.1			
July .....	61.9		r38.9			
August .....	p76.2		p55.6			
September .....						
October .....						
November .....						
December .....						

NOTE: Figures are the percent of series components rising and are centered within spans: 1-month indexes are placed on latest month and 9-month indexes are placed on the 6th month of span; 1-quarter indexes are placed on the 1st month of the 2d quarter and 3-quarter indexes are placed on the 1st month of the 3d quarter. Seasonally adjusted components are used. Table 5 identifies the components for most of the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available.

<sup>1</sup>See "New Features and Changes for This Issue," page v.

# ANALYTICAL MEASURES

## LATEST DATA FOR DIFFUSION INDEXES—Continued

### Leading Indexes—Continued

Table 4A



Year and month	D34. Profits, manufacturing, FNCB (about 1,000 corporations)	D19. Index of stock prices, 500 common stocks (77 industries) <sup>Ⓐ</sup>		D23. Index of industrial materials prices (13 industrial materials)		D5. Initial claims for unemployment insurance, State programs, week including the 12th (47 areas)	
	1-quarter span	1-month span	9-month span	1-month span	9-month span	1-month span	9-month span
<b>1965</b>							
January .....	57	92.2	80.5	53.8	69.2	24.5	78.7
February .....	...	81.8	58.4	30.8	76.9	57.4	78.7
March .....	...	64.3	51.9	69.2	61.5	66.0	59.6
April .....	56	70.8	58.4	76.9	69.2	61.7	66.0
May .....	...	66.9	72.7	53.8	53.8	59.6	61.7
June .....	...	0.0	67.5	57.7	53.8	51.1	78.7
July .....	57	24.7	61.0	46.2	46.2	34.0	80.9
August .....	...	79.9	59.1	42.3	46.2	38.3	87.2
September .....	...	81.2	63.6	50.0	46.2	78.7	70.2
October .....	60	66.9	60.4	15.4	46.2	57.4	62.8
November .....	...	70.1	67.5	34.6	38.5	44.7	91.5
December .....	...	57.1	70.1	61.5	53.8	51.1	95.7
<b>1966</b>							
January .....	59	74.0	51.9	61.5	53.8	38.3	91.5
February .....	...	48.7	43.5	76.9	61.5	44.7	74.5
March .....	...	14.3	37.7	46.2	61.5	83.0	44.7
April .....	59	63.6	22.1	30.8	53.8	53.2	68.1
May .....	...	3.9	11.7	42.3	30.8	45.7	76.6
June .....	...	23.4	6.5	46.2	15.4	57.4	78.7
July .....	50	38.3	9.7	61.5	7.7	17.0	80.9
August .....	...	6.5	22.1	26.9	7.7	72.3	34.0
September .....	...	3.9	20.1	0.0	7.7	80.9	34.0
October .....	54	25.3	47.4	19.2	0.0	36.2	23.4
November .....	...	88.3	58.4	30.8	0.0	46.8	17.0
December .....	...	59.7	66.2	57.7	0.0	27.7	46.8
<b>1967</b>							
January .....	48	90.9	85.7	46.2	0.0	55.3	27.7
February .....	...	92.2	90.3	53.8	15.4	17.0	8.5
March .....	...	61.0	<sup>1</sup> 97.4	23.1	26.9	46.8	8.5
April .....	45	76.0	<sup>1</sup> 93.4	23.1	30.8	55.3	31.9
May .....	...	74.0	...	61.5	<sup>2</sup> 23.1	54.3	...
June .....	...	51.3	...	69.2	...	55.3	...
July .....	...	<sup>1</sup> 81.6	...	30.8	...	34.0	...
August .....	...	<sup>1</sup> 77.6	...	53.8	...	72.3	...
September .....	...	...	...	<sup>2</sup> 42.3	...	...	...
October .....	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...

NOTE: Figures are the percent of series components rising and are centered within spans: 1-month indexes are placed on latest month and 9-month indexes are placed on the 6th month of span; 1-quarter indexes are placed on the 1st month of the 2nd quarter. Seasonally adjusted components are used except in index D19 which requires no adjustment and index D34 which is adjusted only for the index. Table 5 identifies the components for most of the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available. Unadjusted series are indicated by <sup>Ⓐ</sup>.

<sup>1</sup>Based on 76 components.

<sup>2</sup>Average for September 19, 20, and 21.



## ANALYTICAL MEASURES

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LATEST DATA FOR DIFFUSION INDEXES—Continued

Roughly Coincident Indexes

Year and month	D41. Number of employees in nonagricultural establishments (30 industries)		D47. Index of industrial production (24 industries)		D58. Index of wholesale prices (22 manufacturing industries) ①		D54. Sales of retail stores (23 types of stores)	
	1-month span	6-month span	1-month span	6-month span	1-month span	6-month span	1-month span	9-month span
1965	Revised <sup>1</sup>	Revised <sup>1</sup>						
January.....	73.3	81.7	79.2	83.3	72.7	81.8	63.0	80.4
February.....	70.0	78.3	70.8	85.4	52.3	86.4	65.2	87.0
March.....	86.7	80.0	77.1	87.5	65.9	81.8	30.4	87.0
April.....	63.3	80.0	56.2	83.3	72.7	79.5	54.3	73.9
May.....	63.3	81.7	70.8	83.3	75.0	70.5	87.0	87.0
June.....	88.3	75.0	91.7	79.2	61.4	63.6	43.5	87.0
July.....	88.3	88.3	81.2	87.5	50.0	65.9	80.4	95.7
August.....	70.0	91.7	75.0	91.7	56.8	65.9	47.8	91.3
September.....	71.7	93.3	54.2	87.5	61.4	77.3	73.9	95.7
October.....	88.3	90.0	79.2	87.5	70.5	88.6	78.3	95.7
November.....	93.3	95.0	83.3	89.6	70.5	90.9	78.3	95.7
December.....	86.7	93.3	87.5	100.0	70.5	90.9	37.0	91.3
1966								
January.....	85.0	95.0	70.8	95.8	79.5	88.6	76.1	82.6
February.....	85.0	91.7	70.8	91.7	75.0	95.5	65.2	84.8
March.....	91.7	86.7	87.5	87.5	72.7	93.2	60.9	78.3
April.....	73.3	85.0	64.6	70.8	70.5	95.5	43.5	78.3
May.....	76.7	81.7	58.3	75.0	86.4	95.5	30.4	82.6
June.....	91.7	73.3	87.5	62.5	75.0	86.4	95.7	78.3
July.....	48.3	75.0	45.8	64.6	72.7	72.7	47.8	76.1
August.....	73.3	75.0	60.4	58.3	54.5	72.7	47.8	65.2
September.....	35.0	71.7	39.6	52.1	47.7	63.6	60.9	82.6
October.....	81.7	83.3	60.4	62.5	63.6	63.6	43.5	87.0
November.....	76.7	65.0	50.0	47.9	63.6	72.7	69.6	78.3
December.....	70.0	65.0	58.3	37.5	54.5	72.7	41.3	82.6
1967								
January.....	71.7	55.0	33.3	45.8	77.3	63.6	87.0	69.6
February.....	43.3	41.7	27.1	29.2	72.7	68.2	39.1	r91.3
March.....	43.3	r43.3	39.6	r25.0	56.8	65.9	43.5	r95.7
April.....	40.0	40.0	47.9	r29.2	47.7	63.6	60.9	p91.3
May.....	41.7	p48.3	r29.2	p39.6	56.8	63.6	34.8	
June.....	71.7		r50.0		50.0		r82.6	
July.....	48.3		r58.3		63.6		r63.0	
August.....	p73.3		p77.1		65.9		p73.9	
September.....								
October.....								
November.....								
December.....								

NOTE: Figures are the percent of series components rising and are centered within spans: 1-month indexes are placed on latest month, 6-month indexes are placed on the 4th month, and 9-month indexes are placed on the 6th month of span. Seasonally adjusted components are used except in index D58 which requires no adjustment. Table 5 identifies the components for the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available. Unadjusted series are indicated by ①.

<sup>1</sup>See "New Features and Changes for This Issue," page v.

# ANALYTICAL MEASURES

## LATEST DATA FOR DIFFUSION INDEXES—Continued

Actual and Anticipated Indexes

Table 4C



Year and month	D35. Net sales, manufactures (800 companies) ①		D36. New orders, durable manufactures (400 companies) ①		D48. Freight carloadings (19 manufactured commodity groups) ①			D61. New plant and equipment expenditures (18 industries)	
	4-quarter span		4-quarter span		4-quarter span			1-quarter span	
	Actual	Anticipated	Actual	Anticipated	Actual	Anticipated	Change in total (000)	Actual	Anticipated
1965									
January .....	...	...	...	...	...	...	...	56.2	65.6
February .....	90	88	90	84	63.2	84.2	+25	...	...
March .....	...	...	...	...	...	...	...	...	...
April .....	...	...	...	...	...	...	...	75.0	68.8
May .....	88	88	88	84	63.2	84.2	+20	...	...
June .....	...	...	...	...	...	...	...	...	...
July .....	...	...	...	...	...	...	...	83.3	65.6
August .....	88	90	89	87	73.7	73.7	+28	...	...
September .....	...	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	75.0	84.4
November .....	89	91	88	90	73.7	89.5	+18	...	...
December .....	...	...	...	...	...	...	...	...	...
1966									
January .....	...	...	...	...	...	...	...	83.3	62.5
February .....	87	91	85	89	57.9	84.2	+21	...	...
March .....	...	...	...	...	...	...	...	...	...
April .....	...	...	...	...	...	...	...	83.3	71.9
May .....	84	88	82	83	(NA)	78.9	+1	...	...
June .....	...	...	...	...	...	...	...	...	...
July .....	...	...	...	...	...	...	...	55.6	37.5
August .....	72	84	68	82	...	78.9	-50	...	...
September .....	...	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	75.0	65.6
November .....	72	84	67	80	...	52.6	-91	...	...
December .....	...	...	...	...	...	...	...	...	...
1967									
January .....	...	...	...	...	...	...	...	55.6	50.0
February .....	...	82	...	78	...	78.9	p-137	...	...
March .....	...	...	...	...	...	...	...	...	...
April .....	...	...	...	...	...	...	...	30.6	41.7
May .....	...	81	...	78	...	...	...	...	...
June .....	...	...	...	...	...	...	...	...	...
July .....	...	...	...	...	...	...	...	...	r44.4
August .....	...	...	...	...	...	...	...	...	...
September .....	...	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	...	p44.4
November .....	...	...	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...	...	...

NOTE: Figures are the percent of series components rising and are centered within spans: 4-quarter indexes are centered in the middle quarter; 1-quarter indexes are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used for series D61. The "r" indicates revised; "p", preliminary; and "NA", not available. Unadjusted series are indicated by ①.





## ANALYTICAL MEASURES

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## SELECTED DIFFUSION INDEXES AND COMPONENTS

## Basic Data and Direction of Change

Diffusion index components	1967							
	January	February	March	April	May	June <sup>r</sup>	July	August <sup>p</sup>
<b>D1. AVERAGE WORKWEEK OF PRODUCTION WORKERS, MANUFACTURING <sup>1</sup></b> (Average weekly hours)								
All manufacturing industries .....	o 41.0	- 40.3	+ 40.4	+ 40.5	- r40.3	o 40.3	+ r40.5	+ 40.6
Percent rising of 21 components .....	(69)	(5)	(62)	(48)	(26)	(52)	(62)	(76)
<b>Durable goods industries:</b>								
Ordnance and accessories .....	o r42.0	- r41.7	+ r41.9	- r41.6	+ 42.0	- 41.2	+ r42.0	+ 42.2
Lumber and wood products .....	+ r40.4	- 40.3	+ r40.7	- 40.6	- 40.1	o 40.1	- 40.0	o 40.0
Furniture and fixtures .....	+ r40.7	- r40.2	o r40.2	+ r40.3	- 40.1	+ 40.3	- r40.2	+ 40.3
Stone, clay, and glass products .....	+ r41.9	- 41.5	o r41.5	- 41.3	- r41.1	+ 41.3	o r41.3	+ 41.5
Primary metal industries .....	+ 41.8	- r40.9	- r40.8	- r40.2	+ 40.6	o 40.6	+ r41.0	+ 41.1
Fabricated metal products .....	+ r42.2	- 41.4	+ r41.5	o r41.5	- 41.3	- 41.2	+ r41.4	+ 41.6
Machinery, except electrical .....	- r43.5	- r43.0	- r42.9	- r42.8	- r42.3	- 42.0	o r42.0	+ 42.4
Electrical machinery .....	+ r40.7	- r39.7	+ 40.0	- r39.6	+ 39.9	+ 40.0	+ r40.4	- 40.2
Transportation equipment .....	o r41.6	- 40.7	o 40.7	+ 40.9	+ r41.7	- 41.2	+ r41.3	+ 41.6
Instruments and related products .....	- r41.8	- 40.9	+ 41.5	o r41.5	- 41.1	- 41.0	- r40.9	+ 41.5
Miscellaneous manufacturing industries .....	+ 40.0	- 38.7	+ 39.2	+ r39.7	- 39.5	- 39.4	- r39.1	+ 39.2
<b>Nondurable goods industries:</b>								
Food and kindred products .....	+ r41.1	- 41.0	+ 41.1	- 40.8	- 40.6	+ 41.0	- 40.6	+ 40.9
Tobacco manufactures .....	- r38.7	- r38.2	o r38.2	+ r39.4	- 38.3	+ 39.0	- r38.3	+ 38.7
Textile mill products .....	o r40.9	- r40.2	o r40.2	+ r40.8	- 40.5	- 40.4	+ r40.6	+ 40.9
Apparel and related products .....	+ r36.6	- 35.6	- 35.5	+ 36.2	- 35.9	+ 35.7	+ r35.8	- 35.7
Paper and allied products .....	+ 43.2	- r42.8	o 42.8	- r42.5	o r42.5	+ 42.6	+ r42.7	+ 42.8
Printing and publishing .....	+ r38.8	- r38.6	- 38.5	+ r38.6	- r38.3	o 38.3	+ 38.4	- 38.3
Chemicals and allied products .....	- 41.8	- 41.4	+ r41.6	- r41.5	- 41.2	+ 41.3	+ r41.5	o 41.5
Petroleum and related products .....	- r42.0	+ r42.6	+ r43.0	- r42.6	o r42.6	o 42.6	+ r42.8	- 42.4
Rubber and plastic products .....	+ r41.5	- r40.9	+ 41.0	+ r41.1	- r40.9	+ 41.2	- r40.5	+ 41.1
Leather and leather products .....	+ r38.3	- 37.1	- r37.0	+ r37.7	o r37.7	+ 37.9	+ r38.5	+ 38.6

**D6. VALUE OF MANUFACTURERS' NEW ORDERS, DURABLE GOODS INDUSTRIES<sup>1</sup>**  
(Millions of dollars)

All durable goods industries .....	- 22,072	+ 22,329	- 22,065	+ 22,226	+ 23,857	+ 24,263	- r23,378	- 22,847
Percent rising of 36 components .....	(32)	(39)	(56)	(50)	(58)	(61)	(39)	(56)
<b>Primary metals</b> .....	3,315	3,427	3,013	3,236	3,606	3,591	r3,624	3,412
Blast furnaces, steel mills .....	- 1,495	+ 1,805	- 1,434	+ 1,701	+ 2,020	- 1,886	+ p2,009	- (NA)
Nonferrous metals .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Iron and steel foundries .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Other primary metals .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
<b>Fabricated metal products</b> .....	2,049	2,224	2,247	2,136	2,106	2,108	p2,004	(NA)
Metal cans, barrels, and drums .....	- ...	+ ...	- ...	- ...	- ...	- ...	- ...	- ...
Hardware, structural metal and wire products .....	- ...	+ ...	- ...	- ...	- ...	- ...	- ...	- ...
Other fabricated metal products .....	- ...	+ ...	- ...	- ...	- ...	- ...	- ...	- ...
<b>Machinery, except electrical</b> .....	3,391	3,266	3,351	3,429	3,497	3,590	p3,459	(NA)
Steam engines and turbines* .....	- 214	- 296	- 291	- 309	- 404	- 427	- p387	- (NA)
Internal combustion engines* .....	o ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Farm machinery and equipment .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Construction, mining, and material handling* .....	- 568	- 546	- 586	- 612	- 633	- 571	- p594	- (NA)
Metalworking machinery* .....	- 144	- 210	- 218	- 239	- 197	- 226	- p205	- (NA)
Miscellaneous equipment* .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Machine shops .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Special industry machinery* .....	+ ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
General industrial machinery* .....	+ 329	- 252	- 267	- 315	- 251	- 269	- p296	- (NA)
Office and store machines* .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...
Service industry machinery* .....	+ ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

\*Denotes machinery and equipment industries that comprise series 24.

<sup>1</sup>Data are seasonally adjusted by source agency.

ANALYTICAL MEASURES  
SELECTED DIFFUSION INDEXES AND COMPONENTS—Continued

Basic Data and Direction of Change—Continued

Table 5



Diffusion index components	1967							
	January	February	March	April	May	June	July	August
<b>D6. VALUE OF MANUFACTURERS' NEW ORDERS, DURABLE GOODS INDUSTRIES<sup>1</sup>—Continued</b> (Millions of dollars)								
Electrical machinery .....	3,552	3,362	3,273	3,196	3,250	r3,455	p3,563	(NA)
Electrical transmission, distr. equipment* .....	+ } 833 +	- } 724 +	- } 683 +	- } 714 +	+ } 779 +	- } r883 +	- } p741 +	(NA)
Electrical industrial apparatus* .....	+ }	+ }	+ }	+ }	+ }	+ }	+ }	
Household appliances .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Radio and TV .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Communication equipment† .....	+ 703	+ 793	- 781	- 705	- 773	- r733	- p881	(NA)
Electronic components .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Other electrical machinery* .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Transportation equipment .....	5,577	5,799	5,911	6,140	7,209	r7,327	r6,471	p5,638
Motor vehicle parts .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Motor vehicle assembly operations .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Complete aircraft† .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Aircraft parts† .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Shipbuilding and railroad equipment* .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Other transportation equipment .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Instruments, total .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Lumber, total .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Furniture, total .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Stone, clay, and glass, total .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Other durable goods, total .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...

**D19. INDEX OF STOCK PRICES, 500 COMMON STOCKS<sup>2</sup>**  
(1941-43 = 10)

Index of 500 stock prices .....	+ 84.45 +	+ 87.36 +	+ 89.42 +	+ 90.96 +	+ 92.59 -	+ 91.43 +	+ 93.01 +	+ 94.49
Percent rising of 77 components .....	(91)	(92)	(61)	(76)	(74)	(51)	<sup>a</sup> (82)	<sup>a</sup> (78)
Coal, bituminous .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Food composite .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Tobacco (cigarette manufacturers) .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Textile products .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Paper .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Publishing .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Chemicals .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Drugs .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Oil composite .....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	...
Building materials composite .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Steel .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Metal fabricating .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Machinery composite .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Office and business equipment .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Electric household appliances .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Electronics .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Automobiles .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Radio and television broadcasters .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Telephone companies .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Electric companies .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Natural gas distributors .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Retail stores composite .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...
Life insurance .....	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	+ ...	...

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

\*Denotes machinery and equipment industries that comprise series 24. † These industries plus ordnance comprise series 99.

<sup>1</sup>Data are seasonally adjusted by the source agency.

<sup>2</sup>Data are not seasonally adjusted. The components shown here include 18 of the more important industries and 5 composites representing an additional 23 of the industries used in computing the diffusion index in table 4.

<sup>3</sup>Based on 76 components.



## ANALYTICAL MEASURES

SEPTEMBER 1967

bcd

## SELECTED DIFFUSION INDEXES AND COMPONENTS—Continued

## Basic Data and Direction of Change—Continued

Diffusion index components	1967									
	January	February	March	April	May	June	July	August	September <sup>1</sup>	

D23. INDEX OF INDUSTRIAL MATERIALS PRICES <sup>2</sup>

Industrial materials price index (1957-59=100).....	+	106.8	-	105.2	-	102.5	-	100.1	-	99.6	+	99.8	-	98.3	-	98.1	o	98.1
	(Dollars)																	
Percent rising of 13 components		(46)		(54)		(23)		(23)		(62)		(69)		(31)		(54)		(42)
Copper scrap (lb.).....	+	.500	-	.459	-	.398	-	.343	+	.371	-	.368	-	.366	+	.385	+	.387
Lead scrap (lb.).....	-	.062	+	.064	-	.062	+	.063	+	.064	+	.065	+	.065	-	.064	-	.062
Steel scrap (ton).....	-	26.316	+	27.603	+	29.301	-	26.812	+	28.261	+	29.016	-	27.451	-	27.195	+	29.713
Tin (lb.).....	+	1.547	+	1.580	+	1.610	-	1.569	-	1.528	+	1.557	-	1.550	-	1.528	-	1.455
Zinc (lb.).....	+	.149	+	.150	+	.151	-	.150	-	.142	-	.142	-	.141	+	.141	-	.140
Burlap (yd.).....	+	.147	+	.150	-	.150	-	.146	-	.141	+	.145	+	.145	-	.139	-	.134
Cotton (lb.), 15-market average.....	-	.221	-	.220	-	.218	-	.218	-	.217	+	.219	+	.223	+	.231	+	.238
Print cloth (yd.), average.....	-	.201	+	.202	-	.197	-	.192	+	.193	+	.194	-	.193	+	.193	-	.193
Wool tops (lb.).....	-	1.624	+	1.628	-	1.601	+	1.605	+	1.663	+	1.677	-	1.646	-	1.603	-	1.597
Hides (lb.).....	+	.211	-	.202	-	.177	-	.159	-	.157	+	.166	-	.152	+	.152	+	.153
Rosin (100 lb.).....	+	10.938	-	10.828	-	10.732	-	10.669	+	10.753	-	10.721	+	10.872	+	10.971	o	10.971
Rubber (lb.).....	-	.219	-	.209	-	.204	-	.201	+	.201	+	.214	-	.209	-	.200	+	.201
Tallow (lb.).....	-	.061	-	.056	-	.050	+	.051	+	.052	-	.051	-	.050	+	.052	-	.050

D5. INITIAL CLAIMS FOR UNEMPLOYMENT INSURANCE, STATE PROGRAMS <sup>3</sup>  
(Thousands)

Avg. weekly initial claims ...	+ 203	- 242	- 256	- 263	+ 234	+ 225	- 265	+ 211	
Percent rising of 47 components	(55)	(17)	(47)	(55)	(54)	(55)	(34)	(72)	
Northeast region:									
Boston (6).....	+ ...	- ...	- ...	+ ...	+ ...	- ...	+ ...	+ ...	
Buffalo (20).....	- ...	- ...	+ ...	- ...	+ ...	- ...	- ...	+ ...	
Newark (11).....	+ ...	- ...	+ ...	- ...	- ...	- ...	+ ...	+ ...	
New York (1).....	- ...	- ...	- ...	+ ...	- ...	- ...	- ...	+ ...	
Paterson (22).....	+ ...	- ...	+ ...	- ...	+ ...	- ...	- ...	+ ...	
Philadelphia (4).....	- ...	- ...	- ...	+ ...	- ...	- ...	- ...	+ ...	
Pittsburgh (9).....	+ ...	- ...	+ ...	- ...	- ...	- ...	+ ...	+ ...	
Providence (25).....	- ...	- ...	+ ...	+ ...	- ...	- ...	- ...	+ ...	
North Central region:									
Chicago (2).....	+ ...	- ...	- ...	+ ...	- ...	- ...	- ...	+ ...	
Cincinnati (21).....	+ ...	- ...	- ...	- ...	+ ...	- ...	- ...	+ ...	
Cleveland (10).....	+ ...	- ...	+ ...	- ...	- ...	- ...	- ...	+ ...	
Columbus (26).....	+ ...	- ...	+ ...	- ...	+ ...	- ...	- ...	+ ...	
Detroit (5).....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	+ ...	
Indianapolis (23).....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	+ ...	
Kansas City (19).....	+ ...	- ...	+ ...	- ...	- ...	- ...	- ...	+ ...	
Milwaukee (16).....	- ...	- ...	- ...	- ...	- ...	- ...	- ...	+ ...	
Minneapolis (13).....	+ ...	- ...	- ...	- ...	- ...	- ...	- ...	- ...	
St. Louis (8).....	- ...	- ...	+ ...	- ...	+ ...	- ...	- ...	+ ...	
South region:									
Atlanta (18).....	- ...	+ ...	- ...	- ...	+ ...	- ...	- ...	+ ...	
Baltimore (12).....	+ ...	- ...	- ...	- ...	+ ...	- ...	- ...	+ ...	
Dallas (15).....	+ ...	- ...	+ ...	- ...	- ...	- ...	- ...	+ ...	
Houston (14).....	- ...	+ ...	- ...	- ...	- ...	- ...	- ...	+ ...	
West region:									
Los Angeles (3).....	+ ...	+ ...	- ...	- ...	- ...	- ...	- ...	+ ...	
Portland (24).....	+ ...	- ...	+ ...	- ...	- ...	- ...	- ...	- ...	
San Francisco (7).....	+ ...	+ ...	- ...	- ...	- ...	- ...	- ...	- ...	
Seattle (17).....	+ ...	- ...	+ ...	- ...	+ ...	- ...	- ...	- ...	

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

<sup>1</sup> Average for September 19, 20, and 21.

<sup>2</sup> Series components are seasonally adjusted by the Bureau of the Census. The industrial materials price index is not seasonally adjusted. Directions of change are computed before figures are rounded.

<sup>3</sup> The signs are reversed because this series usually rises when general business activity falls and falls when business rises: (-) = rising, (o) = unchanged, and (+) = falling. Series components are seasonally adjusted by the Bureau of the Census before the direction of change is determined. Data used are for the week including the 12th of the month. Directions of change are shown separately for only the 26 largest labor market areas. The number following the area designation indicates its size rank.

# ANALYTICAL MEASURES

## SELECTED DIFFUSION INDEXES AND COMPONENTS—Continued

### Basic Data and Direction of Change—Continued

Table 5



Diffusion index components	1967							
	January	February	March	April	May <sup>r</sup>	June <sup>r</sup>	July	August <sup>p</sup>

#### D41. NUMBER OF EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS<sup>1</sup> (Thousands of employees)

All nonagricultural establishments.....	+	r65,564	+	r65,692	+	r65,749	-	r65,653	o	65,639	+	65,903	+	r65,947	+	66,250
Percent rising of 30 components .....		(72)		(43)		(43)		(40)		(42)		(72)		(48)		(73)
Ordnance and accessories .....	+	r140	+	r143	+	r146	+	r147	o	147	+	149	+	r150	+	154
Lumber and wood products .....	+	r530	-	r524	+	r525	-	r514	-	507	+	512	-	r510	+	511
Furniture and fixtures .....	-	r385	-	r384	-	r379	-	r374	+	375	-	371	-	r368	+	372
Stone, clay, and glass products .....	-	r512	-	r509	o	509	-	r499	-	495	+	498	o	r498	-	494
Primary metal industries .....	-	r1,106	-	r1,091	-	r1,073	-	r1,049	-	1,042	+	1,037	-	1,026	-	1,012
Fabricated metal products .....	-	r1,068	-	r1,065	-	r1,059	-	r1,046	-	1,041	+	1,048	-	r1,040	+	1,044
Machinery .....	+	r1,398	-	r1,392	-	r1,388	-	r1,380	-	1,373	-	1,372	-	r1,367	+	1,375
Electrical equipment .....	+	r1,348	-	r1,345	-	r1,332	-	r1,298	-	1,284	+	1,251	+	r1,260	+	1,271
Transportation equipment .....	-	r1,373	-	r1,371	-	r1,363	-	r1,347	+	1,361	+	1,377	-	r1,329	+	1,437
Instruments and related products .....	+	r289	-	r288	+	r289	o	r289	-	287	-	285	-	r284	+	286
Miscellaneous manufacturing industries .....	+	r353	-	r347	-	r344	-	r343	-	342	-	340	-	r338	-	327
Food and kindred products .....	+	r1,196	+	r1,197	+	r1,200	-	r1,195	+	1,196	+	1,201	-	r1,182	-	1,170
Tobacco manufactures .....	+	77	-	r73	-	72	+	r73	+	74	+	75	+	r76	o	76
Textile mill products .....	o	r856	-	r848	-	r845	-	r838	-	835	+	841	-	r835	+	840
Apparel and related products .....	+	r1,254	-	r1,243	-	r1,226	+	r1,232	+	1,235	+	1,239	-	r1,221	o	1,221
Paper and allied products .....	o	r527	+	r529	+	r531	-	r526	-	525	+	535	+	r537	+	537
Printing and publishing .....	+	r668	+	r670	+	r674	-	r673	-	672	+	673	+	r674	+	675
Chemicals and allied products .....	+	r585	o	r585	-	r580	+	r583	-	580	+	583	+	r586	+	587
Petroleum and related products .....	-	r117	o	r117	-	r116	+	r118	-	117	+	119	o	r119	o	119
Rubber and plastic products .....	o	r411	-	r406	-	r403	-	r402	-	354	+	362	-	r360	+	406
Leather and leather products .....	-	r313	-	r309	-	r304	+	r307	-	305	-	302	-	r295	+	301
Mining .....	+	r625	-	r624	o	r624	-	r620	-	617	+	619	+	r623	-	605
Contract construction .....	+	r3,311	+	r3,352	-	r3,313	-	r3,276	-	3,192	-	3,187	+	r3,230	-	3,212
Transportation and public utilities .....	+	r4,242	+	r4,247	o	r4,246	-	r4,212	+	4,267	o	4,266	+	r4,296	+	4,299
Wholesale trade .....	+	r3,512	+	r3,521	+	r3,535	+	r3,545	+	3,549	+	3,555	-	r3,551	+	3,558
Retail trade .....	+	r10,003	+	r10,020	o	r10,022	o	r10,027	+	10,060	+	10,093	o	r10,094	+	10,119
Finance, insurance, real estate .....	+	r3,152	+	r3,165	+	r3,179	+	r3,194	+	3,205	+	3,227	+	r3,234	+	3,252
Service and miscellaneous .....	+	r9,840	+	r9,883	+	r9,946	+	r9,973	+	9,987	+	10,035	+	r10,069	+	10,131
Federal government .....	+	r2,667	+	2,673	+	r2,685	+	r2,688	+	2,698	+	2,747	+	r2,759	+	2,765
State and local government .....	+	r8,654	+	r8,700	+	r8,754	+	r8,787	+	8,826	+	8,889	+	r8,919	+	8,951

#### D47. INDEX OF INDUSTRIAL PRODUCTION<sup>1</sup> (1957-59=100)

All industrial production.....	-	158.1	-	156.4	o	156.4	-	156.3	-	155.6	-	155.5	+	r156.7	+	158.0
Percent rising of 24 components <sup>2</sup> .....		(33)		(27)		(40)		(48)		(29)		(50)		(58)		(77)
Durable goods:																
Primary and fabricated metals .....		...		...		...		...		...		...		...		...
Primary metal products .....	-	131.9	o	131.9	-	129.2	-	129.1	-	128.9	-	128.3	+	r128.9	+	130
Fabricated metal products .....	-	166.6	-	165.0	-	162.9	-	160.2	+	160.8	o	160.8	-	160.7	-	158
Machinery and related products .....		...		...		...		...		...		...		...		...
Machinery, except electrical .....	+	190.7	-	187.3	-	185.2	-	183.4	-	181.7	-	181.3	+	182.6	+	184
Electrical machinery .....	-	187.2	-	185.3	-	182.0	-	179.7	-	178.9	-	172.5	+	r177.8	+	183
Transportation equipment .....	-	164.6	-	159.4	+	164.5	+	167.7	+	169.0	+	170.8	+	172.2	+	173
Instruments and related products .....	+	186.2	-	183.4	+	185.8	-	185.2	+	185.3	-	184.1	-	r183.2	+	187
Clay, glass, and lumber .....		...		...		...		...		...		...		126.8	+	127
Clay, glass, and stone products .....	+	137.2	-	136.9	-	134.9	+	136.0	-	134.8	-	133.5	+	133.7	+	134
Lumber and products .....	+	115.7	+	116.9	+	120.2	+	121.5	-	115.6	-	114.9		(NA)		(NA)
Furniture and miscellaneous .....		...		...		...		...		...		...		...		...
Furniture and fixtures .....	-	172.1	-	170.6	-	166.5	o	166.5	o	166.5	-	166.3	-	163.9	+	167
Miscellaneous .....	-	160.3	-	157.1	+	158.2	+	159.2	-	158.1	-	156.7	-	155.1	-	151

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

<sup>1</sup>Data are seasonally adjusted by the source agency.

<sup>2</sup>Where actual data for separate industries are not available, estimates are used to compute the percent rising. Directions of change for the most recent spans are computed before figures for the current month are rounded.





## ANALYTICAL MEASURES

SEPTEMBER 1967

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## SELECTED DIFFUSION INDEXES AND COMPONENTS—Continued

Basic Data and Direction of Change—Continued

Diffusion index components	1967							
	January	February	March	April	May	June	July	August
<b>D47. INDEX OF INDUSTRIAL PRODUCTION<sup>1</sup>—Continued</b> (1957-59=100)								
<b>Nondurable goods:</b>								
Textiles, apparel, and leather .....	...	...	...	...	...	...	r133.6	p133
Textile mill products .....	- 139.3	- 136.7	- 136.2	- 135.1	+ r135.2	+ r135.3	o p135.3	(NA)
Apparel products .....	- 150.2	- 146.4	- 143.6	- 141.9	+ r141.2	+ p141.5	(NA)	(NA)
Leather and products .....	- 107.7	- 103.7	- 100.5	+ 107.1	- 105.0	- p101.9	(NA)	(NA)
<b>Paper and printing .....</b>	...	...	...	...	...	...	...	p149
Paper and products .....	+ 154.0	- 152.4	o 152.4	- 150.7	+ r151.4	- r150.3	- p148.6	(NA)
Printing and publishing .....	+ 145.5	+ 146.1	+ 146.8	+ 148.3	+ 147.4	+ 147.8	+ 148.5	p149
<b>Chemicals, petroleum, and rubber .....</b>	...	...	...	...	...	...	...	p190
Chemicals and products .....	- 198.6	+ 200.5	- 199.3	- 199.2	o r199.2	o r199.2	+ p200.1	(NA)
Petroleum products .....	- 128.7	- 127.4	+ 130.1	+ 133.1	- r132.1	+ r132.8	- p131.5	(NA)
Rubber and plastics products .....	- 198.8	- 196.3	- 191.5	- 186.9	- 164.0	+ p169.7	(NA)	(NA)
<b>Foods, beverages, and tobacco .....</b>	...	...	...	...	...	...	...	p131
Foods and beverages .....	- 131.9	- 131.3	+ 131.7	+ 132.7	- r132.0	- r131.9	- p131.7	(NA)
Tobacco products .....	- 118.5	+ 120.2	- 116.2	+ 128.8	- 117.4	+ p123.9	(NA)	(NA)
<b>Minerals:</b>								
Coal .....	- 120.7	- 115.7	- 115.1	+ 125.5	- 120.1	+ 122.5	+ 122.6	p117
Crude oil and natural gas .....	+ 119.3	+ 119.6	- 118.3	- 117.2	+ r117.5	+ r121.1	+ r128.5	p132
Metal, stone, and earth minerals .....	...	...	...	...	...	...	...	p123
Metal mining .....	+ 140.3	+ 142.1	+ 143.7	+ 149.5	- 132.9	+ r133.9	- p121.9	(NA)
Stone and earth minerals .....	- 138.7	- 136.6	+ 137.2	- 130.6	- 129.2	+ 133.3	+ p133.9	(NA)

**D58. INDEX OF WHOLESALE PRICES, MANUFACTURING INDUSTRIES<sup>2</sup>**  
(1957-59=100)

All manufacturing industries .....	+ 106.4	o 106.4	- 106.3	- 106.2	+ 106.3	+ 106.6	+ 106.8	o 106.8
Percent rising of 22 components .....	(77)	(73)	(57)	(48)	(57)	(50)	(64)	(66)
<b>Durable goods:</b>								
Lumber and wood products .....	+ 102.6	+ 103.6	o 103.6	+ 104.1	+ 104.2	+ 104.7	+ 105.3	+ 106.1
Furniture and other household durables .....	o 100.4	o 100.4	+ 100.6	o 100.6	o 100.8	o 100.8	+ 100.9	+ 101.0
Nonmetallic mineral products .....	+ 103.6	+ 103.7	+ 103.8	+ 103.9	+ 103.8	+ 103.9	+ 104.2	+ 104.5
Iron and steel .....	+ 103.0	+ 103.2	+ 103.3	- 103.2	o 103.2	+ 103.3	+ 103.4	+ 103.5
Nonferrous metals .....	+ 121.8	+ 122.3	- 121.1	- 120.0	- 118.9	- 118.7	+ 118.6	+ 118.9
Fabricated structural metal products .....	+ 104.8	o 104.8	+ 104.8	+ 104.9	+ 105.1	- 104.9	+ 105.1	+ 105.5
Miscellaneous metal products .....	+ 113.6	o 113.6	+ 113.7	+ 113.6	+ 113.7	o 113.7	+ 113.8	+ 114.2
General purpose machinery and equipment .....	+ 112.8	+ 113.0	o 113.0	+ 113.0	+ 113.2	- 113.1	+ 113.2	+ 113.6
Miscellaneous machinery .....	+ 108.5	+ 108.7	+ 108.8	+ 108.8	+ 108.9	+ 109.1	o 109.1	+ 109.4
Electrical machinery and equipment .....	+ 101.9	+ 101.8	+ 102.2	+ 102.3	- 101.9	- 101.8	- 101.7	+ 101.6
Motor vehicles and equipment .....	- 101.6	o 101.6	o 101.6	o 101.6	o 101.6	- 101.4	- 101.3	o 101.3
Miscellaneous products .....	+ 107.9	+ 108.0	- 107.8	+ 108.0	o 108.0	+ 109.6	+ 109.7	+ 110.0
<b>Nondurable goods:</b>								
Processed foods and feeds .....	o 112.8	- 111.7	- 110.6	- 110.0	+ 110.7	+ 112.6	+ 113.1	- 112.1
Cotton products .....	- 102.5	- 101.8	- 101.3	- 100.8	- 100.3	- 99.7	- 98.9	- 98.8
Wool products .....	- 104.7	o 104.7	- 104.0	- 102.9	+ 103.1	+ 103.2	+ 103.3	- 102.9
Manmade fiber textile products .....	+ 87.1	o 87.1	- 86.9	- 86.8	- 86.3	- 85.8	- 85.5	+ 85.9
Apparel .....	+ 105.7	+ 105.9	+ 106.0	+ 106.2	+ 106.3	+ 106.7	+ 107.1	+ 107.3
Pulp, paper, and allied products .....	+ 103.1	+ 103.3	+ 103.6	+ 103.9	o 103.9	o 103.9	+ 104.1	- 104.0
Chemicals and allied products .....	+ 98.4	+ 98.5	o 98.5	+ 98.8	o 98.8	- 98.5	- 98.3	- 98.0
Petroleum products, refined .....	+ 100.3	+ 101.9	+ 102.4	+ 101.7	+ 103.7	- 103.1	+ 103.3	+ 104.6
Rubber and rubber products .....	+ 95.6	+ 95.8	+ 95.9	o 95.9	- 95.8	o 95.8	o 95.8	+ 97.8
Hides, skins, leather, and related products .....	+ 117.9	+ 118.0	- 117.0	- 116.0	- 115.4	+ 115.6	- 115.2	- 114.4

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

<sup>1</sup>Data are seasonally adjusted by the source agency.

<sup>2</sup>Data are not seasonally adjusted.



## SELECTED DIFFUSION INDEXES AND COMPONENTS—Continued

Basic Data and Direction of Change—Continued

Diffusion index components	1967							
	January	February	March	April	May	June <sup>r</sup>	July	August <sup>p</sup>

D54. SALES OF RETAIL STORES<sup>1</sup>  
(Millions of dollars)

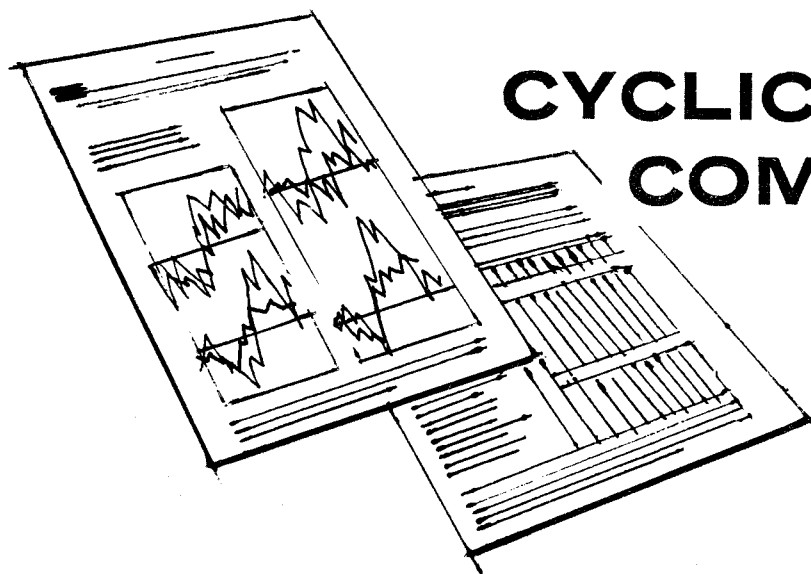
All retail sales.....	+	25,687	-	25,470	+	25,739	+	25,918	-	25,897	+	26,544	+	r26,644	+	27,016
Percent rising of 23 components.....		(87)		(39)		(44)		(61)		(35)		(83)		(63)		(74)
Grocery stores.....	+	5,417	+	5,452	+	5,535	-	5,513	-	5,507	+	5,548	-	p5,532	+	(NA)
Other food stores.....	+	...	-	...	+	...	-	...	+	...	+	...	+	...	+	...
Eating and drinking places.....	+	2,036	-	2,026	+	2,046	-	2,034	+	2,038	+	2,059	+	p2,090	+	(NA)
Department stores.....	+	2,244	-	2,191	+	2,200	+	2,278	+	2,283	+	2,377	-	p2,310	+	(NA)
Mail-order houses (department store merchandise) ..	+	220	+	230	+	223	+	230	-	215	+	228	+	p236	-	(NA)
Variety stores.....	+	486	-	472	-	448	+	520	-	504	+	516	-	p504	+	(NA)
Other general merchandise stores.....	+	...	-	...	-	...	-	...	+	...	+	...	-	...	+	...
Men's and boys' wear stores.....	+	317	-	304	+	315	+	333	-	317	+	326	+	p332	-	(NA)
Women's apparel, accessory stores.....	+	587	-	576	-	557	+	614	-	585	+	596	+	p597	+	(NA)
Family and other apparel stores.....	+	...	-	...	-	...	+	...	-	...	+	...	+	...	+	...
Shoe stores.....	+	250	-	239	-	228	+	254	-	246	-	244	o	p244	+	(NA)
Furniture, home furnishings stores.....	+	792	-	780	-	755	+	791	+	795	-	775	+	p787	-	(NA)
Household appliance, TV, radio stores.....	+	429	+	449	-	441	-	423	-	420	+	450	-	p385	+	(NA)
Lumber yards, building materials dealers.....	+	803	-	801	-	794	-	779	-	750	+	754	+	p766	+	(NA)
Hardware stores.....	+	259	-	257	-	255	+	269	-	251	+	260	+	p264	+	(NA)
Farm equipment dealers.....	+	...	+	...	-	...	-	...	-	...	+	...	+	...	-	...
Passenger car and other automotive dealers.....	-	4,298	-	4,085	+	4,291	+	4,348	+	4,448	+	4,750	+	p4,872	-	(NA)
Tire, battery, accessory dealers.....	+	306	+	309	+	311	+	312	-	304	+	319	-	p318	+	(NA)
Gasoline service stations.....	+	1,931	+	1,968	-	1,964	+	1,992	+	1,996	+	2,040	+	p2,051	+	(NA)
Drug and proprietary stores.....	-	877	+	883	+	889	+	906	-	903	+	923	-	p915	+	(NA)
Liquor stores.....	+	591	+	595	-	584	+	609	-	598	+	599	-	p584	-	(NA)
Jewelry stores.....	+	...	-	...	+	...	-	...	+	...	-	...	+	...	+	...
Other durable-goods stores.....	+	...	-	...	+	...	-	...	+	...	-	...	+	...	+	...
Other nondurable-goods stores.....	-	...	+	...	+	...	-	...	-	...	-	...	+	...	+	...

NOTE: To facilitate interpretation, the month-to-month directions of change are shown along with the numbers: (+) = rising, (o) = unchanged, and (-) = falling. Only the directions of change are shown when numbers are held confidential by the source agency. NA = not available. p = preliminary. r = revised.

<sup>1</sup>Data are seasonally adjusted by the source agency.



## Section THREE



# CYCLICAL COMPARISONS

charts

### **REFERENCE CYCLES**

***Current expansion compared with expansions in  
earlier business cycles***





## CYCLICAL COMPARISONS

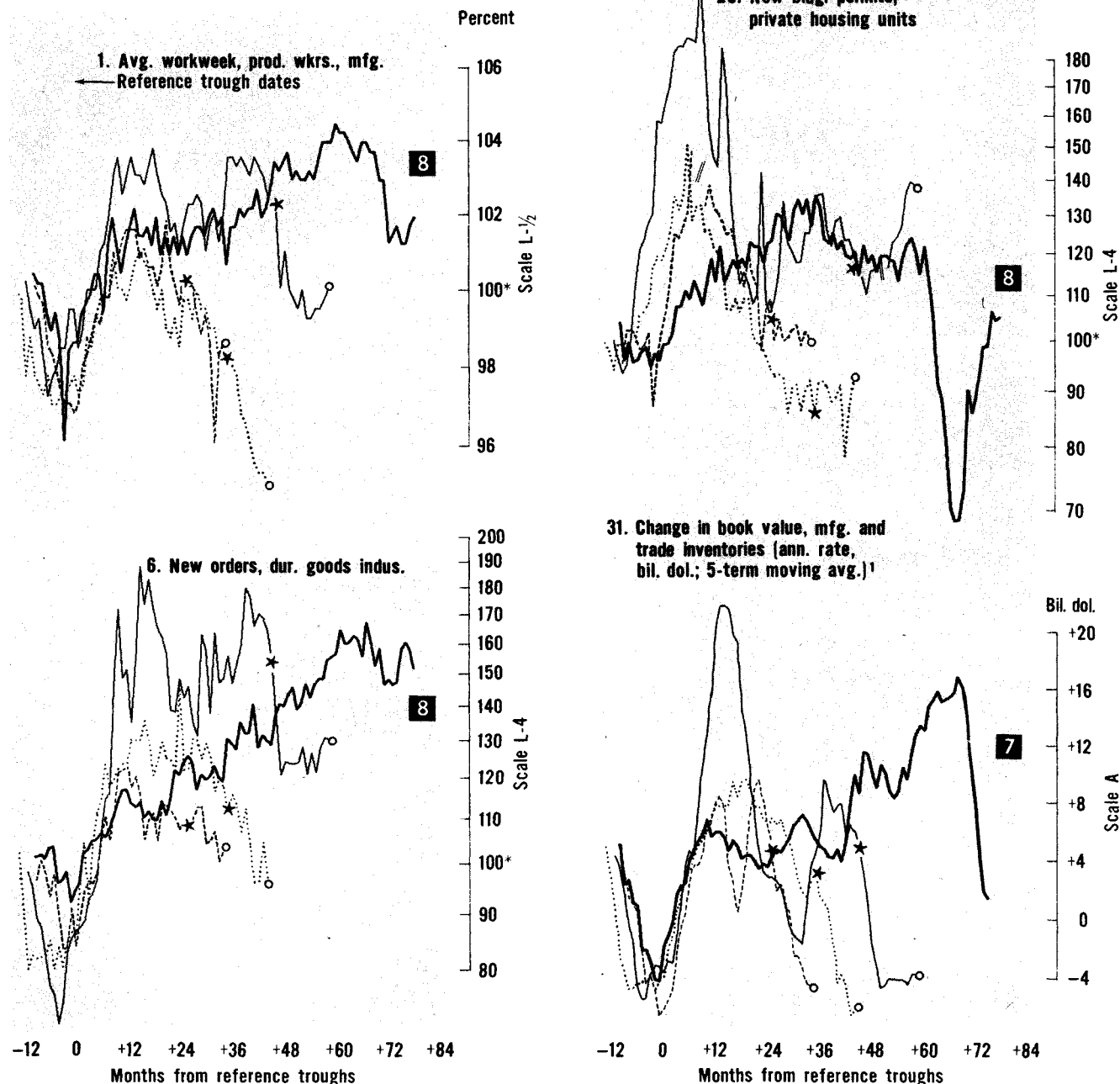
## COMPARISONS OF REFERENCE CYCLES

SEPTEMBER 1967

**bcd**

## PERIOD COVERED

- Nov. 1948 to Aug. 1954 (Reference trough: Oct. 1949)  
 ..... July 1953 to Apr. 1958 (Reference trough: Aug. 1954)  
 ..... July 1957 to Feb. 1961 (Reference trough: Apr. 1958)  
 — May 1960 to present (Reference trough: Feb. 1961)



Current data are shown in table 2. The number in the box indicates latest month (Arabic numeral) or quarter (Roman numeral) for which data are used. <sup>1</sup> Lines represent actual data rather than percentages of reference peak levels.

\*Reference peak level. ★Point at which this expansion reached a new reference peak. ○Point at which a new reference trough was reached.

# CYCLICAL COMPARISONS

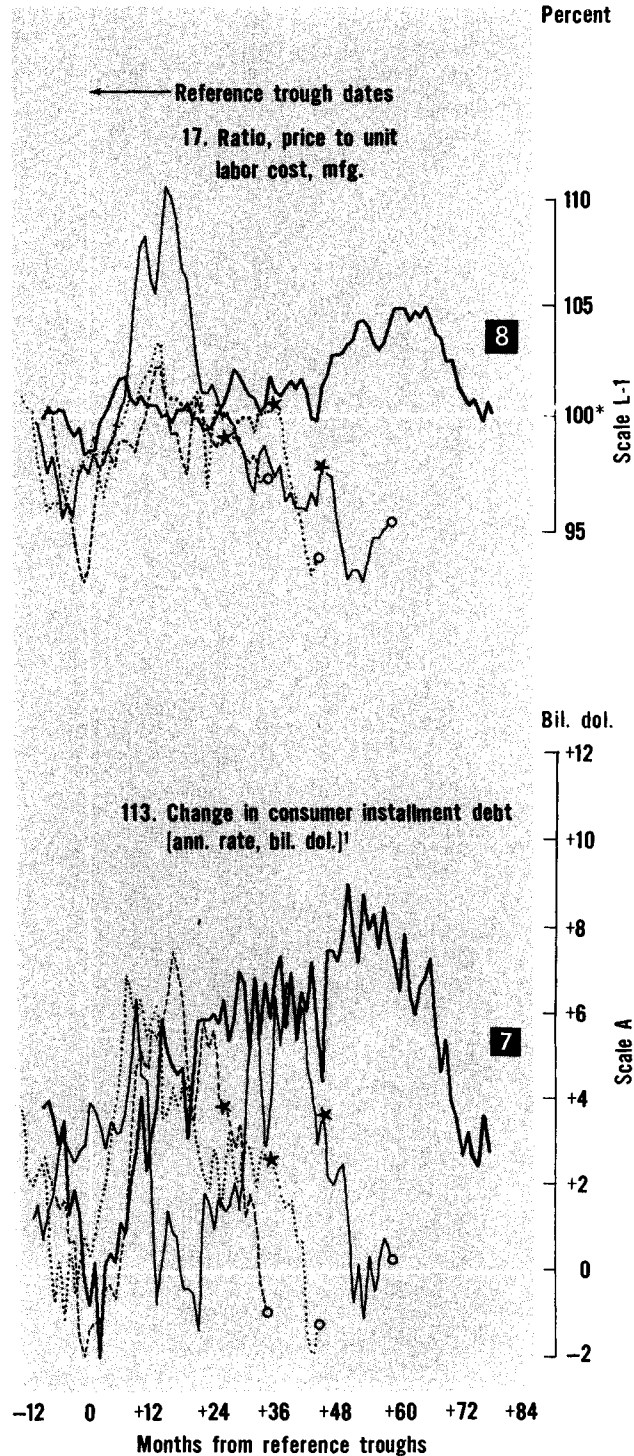
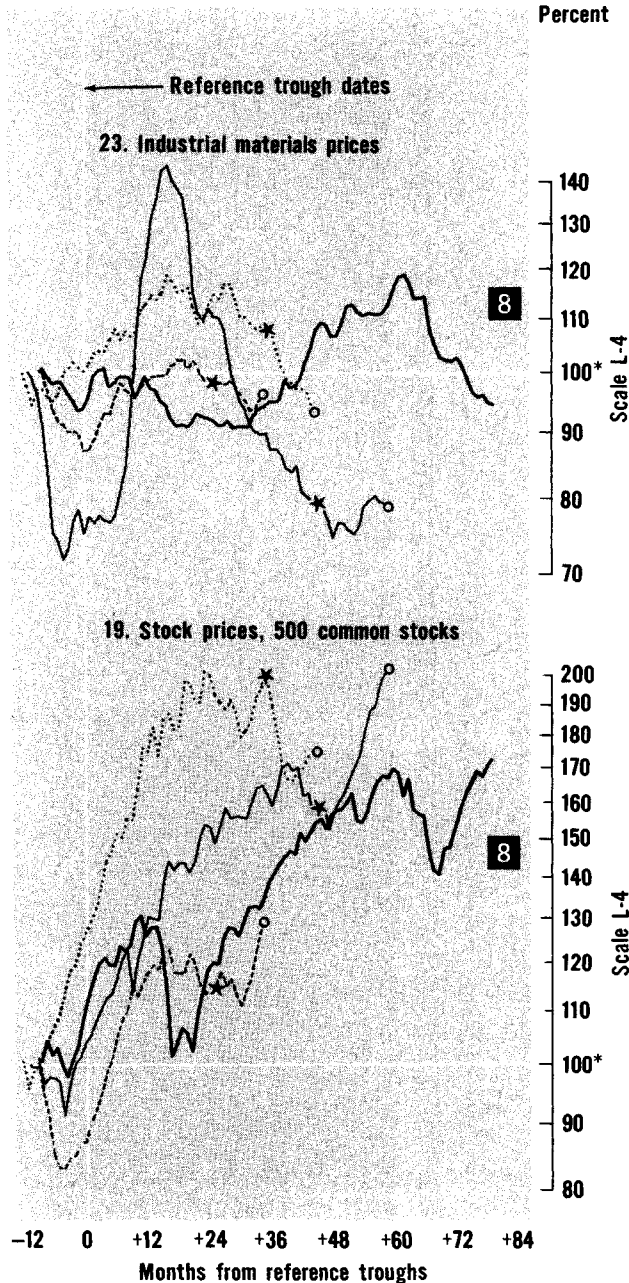
## COMPARISONS OF REFERENCE CYCLES—Continued

CHART 3



## PERIOD COVERED

- Nov. 1948 to Aug. 1954 (Reference trough: Oct. 1949)
- ..... July 1953 to Apr. 1958 (Reference trough: Aug. 1954)
- July 1957 to Feb. 1961 (Reference trough: Apr. 1958)
- May 1960 to present (Reference trough: Feb. 1961)



Current data are shown in table 2. The number in the box indicates latest month (Arabic numeral) or quarter (Roman numeral) for which data are used. <sup>1</sup> Lines represent actual data rather than percentages of reference peak levels.

\*Reference peak level. ★ Point at which this expansion reached a new reference peak. ○ Point at which a new reference trough was reached.



## CYCLICAL COMPARISONS

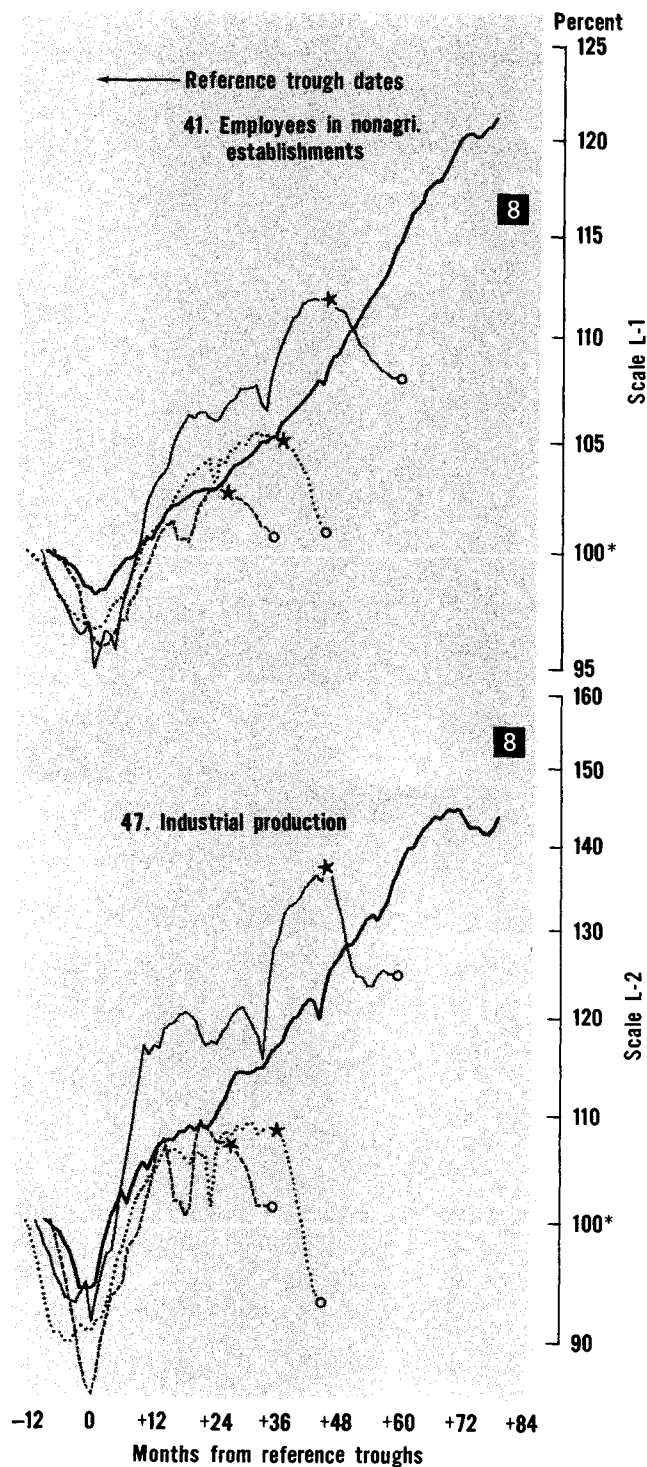
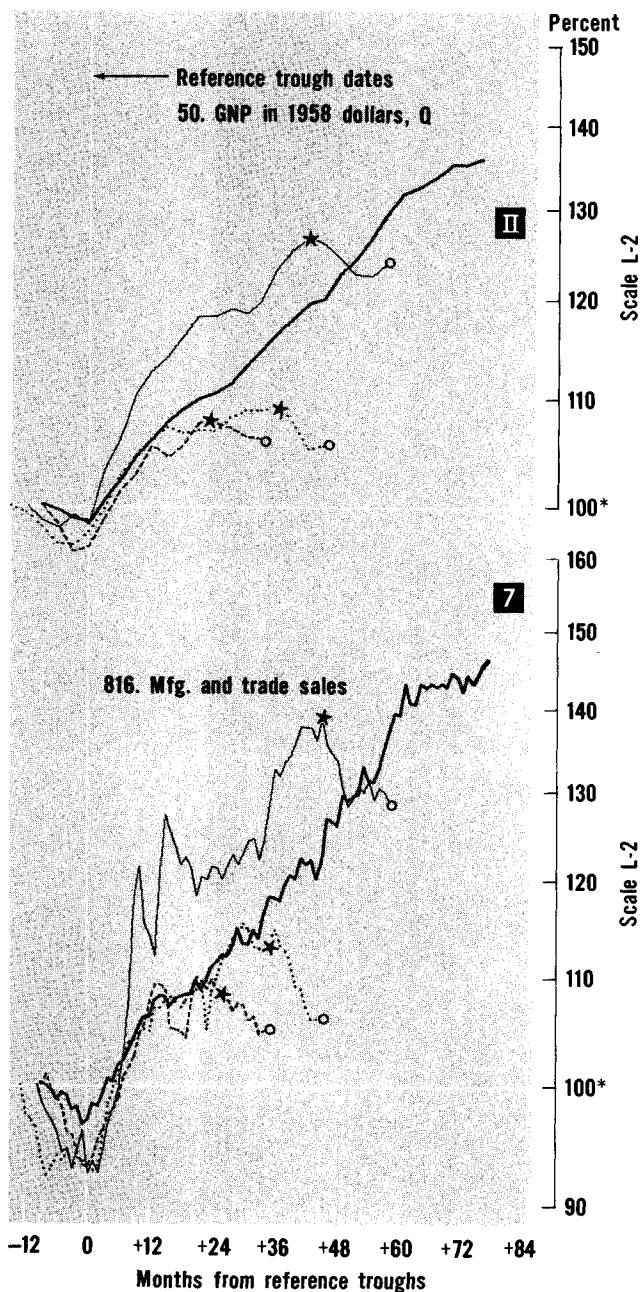
COMPARISONS OF REFERENCE CYCLES—Continued

SEPTEMBER 1967

**bcd**

## PERIOD COVERED

- Nov. 1948 to Aug. 1954 (Reference trough: Oct. 1949)  
 ..... July 1953 to Apr. 1958 (Reference trough: Aug. 1954)  
 - - - - July 1957 to Feb. 1961 (Reference trough: Apr. 1958)  
 — May 1960 to present (Reference trough: Feb. 1961)

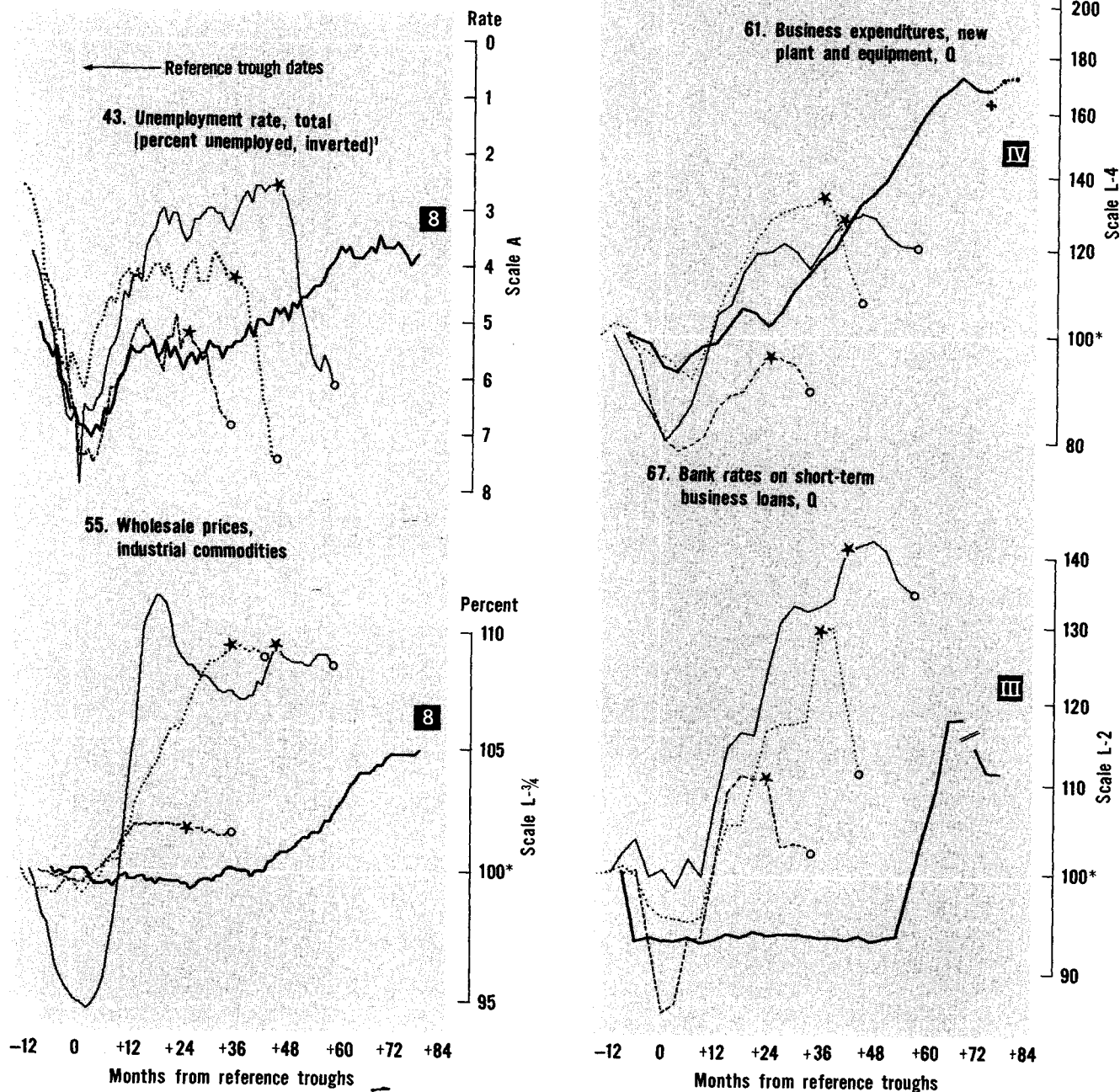


Current data are shown in table 2. The number in the box indicates latest month (Arabic numeral) or quarter (Roman numeral) for which data are used.  
 \*Reference peak level. ★ Point at which this expansion reached a new reference peak. ○ Point at which a new reference trough was reached.



## PERIOD COVERED

- Nov. 1948 to Aug. 1954 (Reference trough: Oct. 1949)  
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 - - - July 1957 to Feb. 1961 (Reference trough: Apr. 1958)  
 — May 1960 to present (Reference trough: Feb. 1961)



Current data are shown in table 2. The number in the box indicates latest month (Arabic numeral) or quarter (Roman numeral) for which data are used. <sup>1</sup> Lines represent actual data rather than percentages of reference peak levels.

\*Reference peak level. ★Point at which this expansion reached a new reference peak. ○Point at which a new reference trough was reached. +Latest data anticipated.





## CYCLICAL COMPARISONS

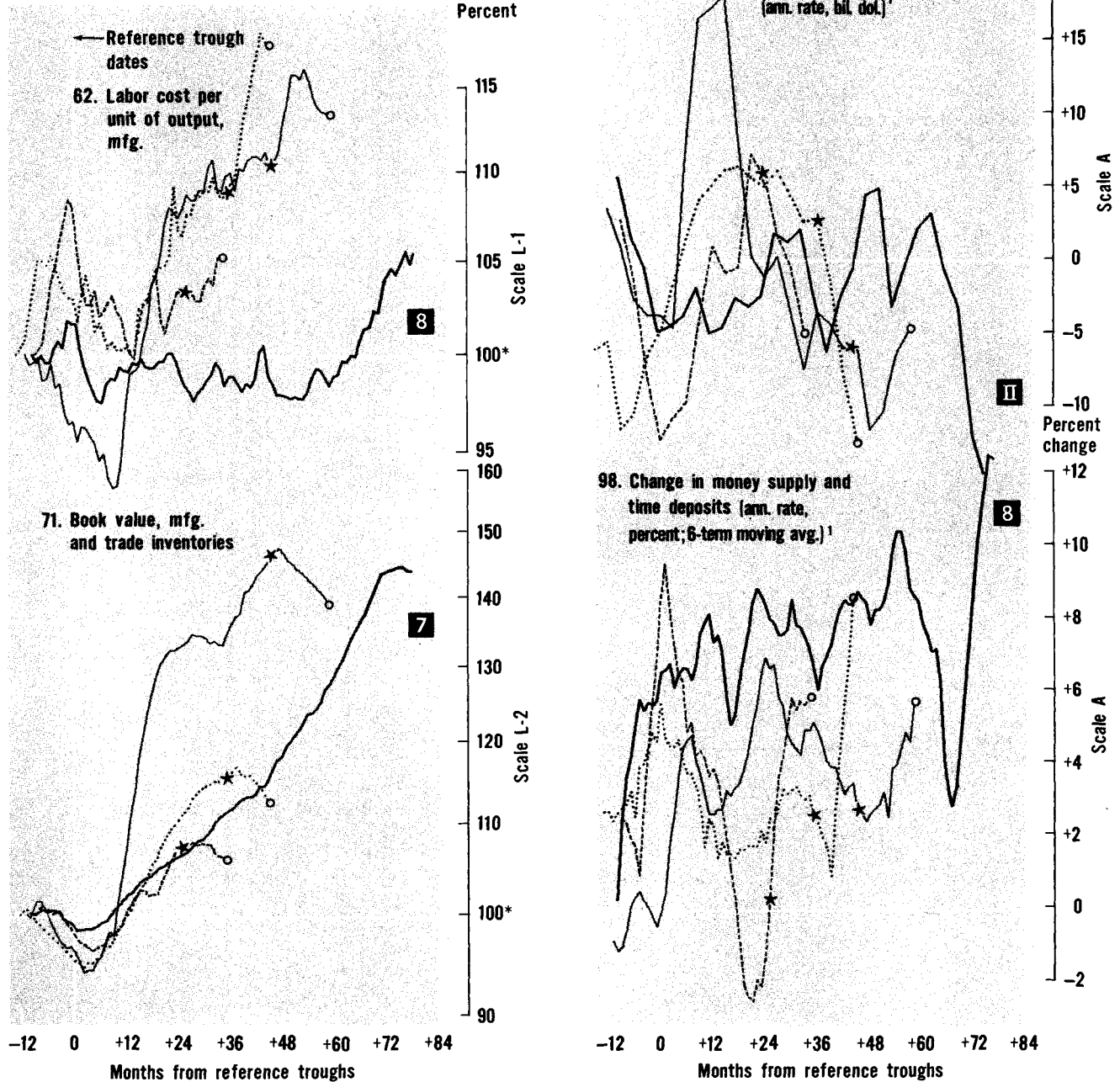
COMPARISONS OF REFERENCE CYCLES—Continued

SEPTEMBER 1967

bcd

## PERIOD COVERED

- Nov. 1948 to Aug. 1954 (Reference trough: Oct. 1949)  
 ..... July 1953 to Apr. 1958 (Reference trough: Aug. 1954)  
 ----- July 1957 to Feb. 1961 (Reference trough: Apr. 1958)  
 — May 1960 to present (Reference trough: Feb. 1961)



Current data are shown in table 2. The number in the box indicates latest month (Arabic numeral) or quarter (Roman numeral) for which data are used. <sup>1</sup> Lines represent actual data rather than percentages of reference peak levels.

\*Reference peak level. ★ Point at which this expansion reached a new reference peak. ○ Point at which a new reference trough was reached.

# APPENDIXES

Appendix A.—BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS IN THE UNITED STATES: 1854 TO 1961

Business cycle reference dates		Duration in months			
		Contraction (trough from previous peak)	Expansion (trough to peak)	Cycle	
				Trough from previous trough	Peak from previous peak
Trough	Peak				
December 1854.....	June 1857.....	(X)	30	(X)	(X)
December 1858.....	October 1860.....	18	22	48	40
June 1861.....	April 1865.....	8	46	30	54
December 1867.....	June 1869.....	32	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	80	63	93
October 1945.....	November 1948.....	8	37	88	45
October 1949.....	July 1953.....	11	45	48	56
August 1954.....	July 1957.....	13	35	58	48
April 1958.....	May 1960.....	9	25	44	34
February 1961.....		9	(X)	34	(X)
Average, all cycles:					
26 cycles, 1854-1961.....		19	30	49	149
10 cycles, 1919-1961.....		15	35	50	254
4 cycles, 1945-1961.....		10	36	46	346
Average, peacetime cycles:					
22 cycles, 1854-1961.....		20	26	45	446
8 cycles, 1919-1961.....		16	28	45	548
3 cycles, 1945-1961.....		10	32	42	642

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>4 cycles, 1945-1960.

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

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

<sup>6</sup>3 cycles, 1945-1960.

Source: National Bureau of Economic Research, Inc.

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

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>LEADING INDICATORS</b>									
1. Average workweek, production workers, manufacturing.....	Dec. '60	Apr. '58	Apr. '54	Apr. '49	Jan. '38	June '32	Apr. '28	July '24	Feb. '21
30. Nonagricultural placements, all industries...	Jan. '61	Mar. '58	May '54	July '49	(NA)	(NA)	(NA)	(NA)	(NA)
38. Index of net business formation.....	Jan. '61	Apr. '58	Mar. '54	July '49	(NA)	(NA)	(NA)	(NA)	(NA)
6. New orders, durable goods industries.....	Jan. '61	Jan. '58	Sep. '53	June '49	Apr. '38	Mar. '33	(NSC)	May '24	Jan. '21
10. Contracts and orders, plant and equipment...	Mar. '61	Mar. '58	Mar. '54	Apr. '49	(NA)	(NA)	(NA)	(NA)	(NA)
29. New building permits, private housing units..	Dec. '60	Feb. '58	Sep. '53	Jan. '49	Dec. '37	Dec. '32	May '27	July '24	Dec. '20
31. Change in book value, manufacturing and trade inventories.....	Dec. '60	Apr. '58	Nov. '53	Apr. '49	(NA)	(NA)	(NA)	(NA)	(NA)
23. Industrial materials prices.....	Dec. '60	Apr. '58	Feb. '54	June '49	June '38	July '32	Aug. '28	June '24	July '21
19. Stock prices, 500 common stocks.....	Oct. '60	Dec. '57	Sep. '53	June '49	Apr. '38	June '32	(NSC)	Oct. '23	Aug. '21
16. Corporate profits after taxes (Q).....	1stQ '61	1stQ '58	4thQ '53	2ndQ '49	2ndQ '38	3rdQ '32	4thQ '27	3rdQ '24	2ndQ '21
17. Ratio, price to unit labor cost, manufacturing.....	Jan. '61	Mar. '58	Mar. '54	May '49	Dec. '37	Apr. '32	Aug. '27	June '24	Mar. '21
113. Change in consumer installment debt.....	Apr. '61	Mar. '58	Mar. '54	Jan. '49	Feb. '38	Feb. '32	(NA)	(NA)	(NA)
<b>ROUGHLY COINCIDENT INDICATORS</b>									
41. Employees in nonagricultural establishments.	Feb. '61	May '58	Aug. '54	Oct. '49	June '38	Mar. '33	Jan. '28	July '24	July '21
43. Unemployment rate, total (inverted).....	May '61	July '58	Sep. '54	Oct. '49	June '38	May '33	(NA)	(NA)	(NA)
50. GNP in 1958 dollars (Q).....	1stQ '61	1stQ '58	2ndQ '54	2ndQ '49	1stQ '38	3rdQ '32	(NSC)	(NSC)	4thQ '21
47. Industrial production.....	Feb. '61	Apr. '58	Apr. '54	Oct. '49	May '38	July '32	Nov. '27	July '24	Apr. '21
52. Personal income.....	(NSC)	Feb. '58	Apr. '54	July '49	May '38	Mar. '33	4thQ '26	2ndQ '24	2ndQ '21
816. Manufacturing and trade sales.....	Jan. '61	Mar. '58	Aug. '54	Oct. '49	(NA)	(NA)	(NA)	(NA)	(NA)
54. Sales of retail stores.....	Apr. '61	Mar. '58	Jan. '54	(NSC)	May '38	Mar. '33	(NSC)	(NSC)	Mar. '22
<b>LAGGING INDICATORS</b>									
502. Unemployment rate, persons unemployed 15 weeks and over (inverted).....	July '61	Aug. '58	Oct. '54	Nov. '49	(NA)	(NA)	(NA)	(NA)	(NA)
61. Business expenditures, new plant and equipment (Q).....	2ndQ '61	3rdQ '58	1stQ '55	4thQ '49	3rdQ '38	1stQ '33	4thQ '27	3rdQ '24	4thQ '21
71. Book value, manufacturing and trade inventories.....	Mar. '61	Aug. '58	Oct. '54	Dec. '49	(NA)	(NA)	(NA)	(NA)	(NA)
62. Labor cost per unit of output, manufacturing.....	Sep. '61	June '59	Sep. '55	July '50	June '40	July '33	(NSC)	(NSC)	Apr. '22
72. Commercial and industrial loans outstanding.....	(NSC)	July '58	Oct. '54	Aug. '49	Dec. '38	(NA)	(NA)	(NA)	(NA)
67. Bank rates on short-term business loans (Q).....	4thQ '61	2ndQ '58	1stQ '55	1stQ '50	3rdQ '41	(NSC)	Feb. '28	Nov. '24	Sep. '22

NOTE: Specific trough dates are the actual dates when individual series reached a trough as distinguished from the reference dates which are those dates designated as the trough of business activity as a whole. This table shows, for the 25 indicators on the NBER "short list," the specific dates corresponding to reference dates in 9 recent business cycles.

NA = Not available.    NSC = No specific cycle corresponding to reference date.

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

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>LEADING INDICATORS</b>									
1. Average workweek, production workers, manufacturing .....	June '59	Nov. '55	Mar. '53	(NSC)	Dec. '36	Oct. '29	Nov. '25	Nov. '22	(NA)
30. Nonagricultural placements, all industries...	July '59	Nov. '55	Feb. '53	(NSC)	(NA)	(NA)	(NA)	(NA)	(NA)
38. Index of net business formation .....	Apr. '59	Mar. '55	Sep. '52	Apr. '46	(NA)	(NA)	(NA)	(NA)	(NA)
6. New orders, durable goods industries .....	Apr. '59	Dec. '55	Jan. '53	Aug. '48	Dec. '36	(NSC)	Nov. '25	Jan. '23	(NA)
10. Contracts and orders, plant and equipment...	Sep. '59	Nov. '56	May '51	June '48	(NA)	(NA)	(NA)	(NA)	(NA)
29. New building permits, private housing units...	Nov. '58	Feb. '55	Nov. '52	Oct. '47	Feb. '37	Feb. '28	July '25	Jan. '24	July '19
31. Change in book value, manufacturing and trade inventories .....	Dec. '59	Apr. '56	Jan. '53	July '46	(NA)	(NA)	(NA)	(NA)	(NA)
23. Industrial materials prices .....	Nov. '59	Dec. '55	Feb. '51	Jan. '48	Mar. '37	Mar. '29	Nov. '25	Mar. '23	Apr. '20
19. Stock prices, 500 common stocks .....	July '59	July '56	Jan. '53	June '48	Feb. '37	Sep. '29	(NSC)	Mar. '23	July '19
16. Corporate profits after taxes (Q) .....	2ndQ '59	4thQ '55	2ndQ '53	2ndQ '48	4thQ '36	3rdQ '29	3rdQ '26	2ndQ '23	(NA)
17. Ratio, price to unit labor cost, manufacturing .....	June '59	Oct. '55	Jan. '51	June '48	Mar. '37	July '29	Sep. '26	June '22	Feb. '20
113. Change in consumer installment debt. ....	Aug. '59	Mar. '55	Dec. '52	Mar. '48	Mar. '36	May '29	(NA)	(NA)	(NA)
<b>ROUGHLY COINCIDENT INDICATORS</b>									
41. Employees in nonagricultural establishments.	Apr. '60	Mar. '57	June '53	Sep. '48	July '37	Aug. '29	Jan. '26	June '23	Jan. '20
43. Unemployment rate, total (inverted) .....	Feb. '60	Mar. '57	June '53	Jan. '48	July '37	(NA)	(NA)	(NA)	(NA)
50. GNP in 1958 dollars (Q) .....	1stQ '60	3rdQ '57	2ndQ '53	4thQ '48	3rdQ '37	3rdQ '29	(NSC)	(NSC)	(NA)
47. Industrial production .....	Jan. '60	Feb. '57	July '53	July '48	May '37	July '29	Mar. '27	May '23	Feb. '20
52. Personal income .....	(NSC)	Aug. '57	Oct. '53	Oct. '48	June '37	Aug. '29	2ndQ '26	1stQ '24	(NA)
816. Manufacturing and trade sales .....	Jan. '60	Feb. '57	July '53	Aug. '48	(NA)	(NA)	(NA)	(NA)	(NA)
54. Sales of retail stores .....	Apr. '60	Aug. '57	Mar. '53	(NSC)	Sep. '37	Sep. '29	(NSC)	(NSC)	July '20
<b>LAGGING INDICATORS</b>									
502. Unemployment rate, persons unemployed 15 weeks and over (inverted) .....	May '60	Sep. '57	Oct. '53	Jan. '49	(NA)	(NA)	(NA)	(NA)	(NA)
61. Business expenditures, new plant and equipment (Q) .....	2ndQ '60	3rdQ '57	3rdQ '53	4thQ '48	3rdQ '37	2ndQ '29	4thQ '26	2ndQ '23	2ndQ '20
71. Book value, manufacturing and trade inventories .....	July '60	Sep. '57	Sep. '53	Feb. '49	(NA)	(NA)	(NA)	(NA)	(NA)
62. Labor cost per unit of output, manufacturing .....	Jan. '61	Mar. '58	Mar. '54	Nov. '48	Dec. '37	(NSC)	(NSC)	Oct. '23	Nov. '20
72. Commercial and industrial loans outstanding .....	(NSC)	Sep. '57	July '53	Aug. '48	Sep. '37	(NA)	(NA)	(NA)	(NA)
67. Bank rates on short-term business loans (Q) .....	4thQ '59	4thQ '57	4thQ '53	2ndQ '49	(NSC)	Oct. '29	Oct. '26	Oct. '23	Feb. '21

NOTE: Specific peak dates are the actual dates when individual series reached a peak as distinguished from the reference dates which are those dates designated as the peak of business activity as a whole. This table shows, for the 25 indicators on the NBER "short list," the specific dates corresponding to reference dates in 9 recent business cycles.

NA = Not available. NSC = No specific cycle corresponding to reference date.



## Appendix C.—AVERAGE CHANGES AND RELATED MEASURES FOR BUSINESS CYCLE SERIES

## Part 1.—Average Percentage Changes

Monthly series	Period covered	CI	I	C	T/C	MCD	T/C for MCD span	Average duration of run (ADR)			
								CI	I	C	MCD
LEADING INDICATORS											
*1. Avg. workweek, production workers, mfg. ....	Jan. '53-June '66..	.47	.41	.18	2.30	3	.76	2.21	1.40	10.73	4.18
*30. Nonagricultural placements, all industries .....	Jan. '53-Sep. '65..	1.83	1.34	1.09	1.23	2	.63	2.11	1.52	7.24	3.97
2. Accession rate, manufacturing .....	Jan. '53-June '67..	4.63	4.38	1.43	3.05	4	.79	2.19	1.49	12.36	3.70
5. Average weekly initial claims, State unemployment insurance .....	Jan. '53-Sep. '65..	4.95	4.38	2.17	2.02	2	.95	1.69	1.42	12.67	3.97
3. Layoff rate, manufacturing .....	Jan. '53-June '67..	9.25	8.41	3.26	2.58	3	.85	2.16	1.48	7.86	4.75
*38. Index of net business formation .....	Jan. '53-Sep. '65..	.79	.60	.53	1.15	2	.66	2.71	1.63	6.61	4.08
13. New business incorporations .....	Jan. '53-Sep. '65..	2.49	2.18	1.00	2.18	3	.78	1.92	1.63	7.24	3.19
*6. New orders, durable goods industries .....	Jan. '53-Sep. '65..	3.76	3.33	1.51	2.20	3	.66	1.81	1.58	8.44	4.41
94. Construction contracts, value .....	Jan. '53-Sep. '65..	6.64	6.38	1.55	4.12	5	.87	1.55	1.52	8.00	3.15
*10. Contracts and orders, plant and equipment .....	Jan. '53-Sep. '65..	4.69	4.39	1.43	3.08	4	.84	1.88	1.71	9.50	3.39
24. New orders, mach. and equip. industries .....	Jan. '53-Sep. '65..	4.18	3.81	1.52	2.51	3	.88	1.83	1.60	10.86	3.41
9. Construction contracts, commercial and industrial, floor space .....	Jan. '53-Sep. '65..	9.30	9.17	.97	9.41	6	( <sup>1</sup> )	1.60	1.48	12.67	3.00
7. Private nonfarm housing starts .....	May '59-June '67..	7.30	7.10	1.18	6.04	6	( <sup>1</sup> )	1.60	1.55	16.83	2.67
*29. New building permits, private housing .....	Jan. '53-June '66..	3.70	3.31	1.30	2.54	3	.82	1.87	1.55	12.38	3.06
37. Purchased materials, percent reporting higher inventories .....	Jan. '53-Sep. '65..	6.46	5.24	2.84	1.85	3	.76	2.37	1.62	7.60	3.57
26. Buying policy, production materials, commitments 60 days or longer .....	Jan. '53-Sep. '65..	5.27	4.77	1.98	2.41	3	.77	1.88	1.63	8.94	3.49
32. Vendor performance, percent reporting slower deliveries .....	Jan. '53-Sep. '65..	7.47	5.79	4.00	1.45	2	.95	3.17	1.85	8.94	3.77
*23. Industrial materials prices .....	Jan. '53-Sep. '65..	1.31	1.04	.73	1.41	2	.99	2.49	2.11	11.69	3.87
*19. Stock prices, 500 common stocks .....	Jan. '53-Sep. '65..	2.49	1.68	1.64	1.02	2	.57	2.37	1.58	9.50	3.97
*17. Ratio, price to unit labor cost, manufacturing .....	Jan. '53-Oct. '66..	.62	.51	.27	1.93	3	.92	2.62	1.70	5.69	4.18
14. Liabilities of business failures .....	Jan. '53-Sep. '65..	18.74	18.24	1.70	10.72	6	( <sup>1</sup> )	1.49	1.39	8.94	2.23
39. Delinquency rate, installment credit loans .....	Jan. '53-Dec. '65..	2.63	2.42	.95	2.55	3	.80	1.85	1.57	8.44	4.17
ROUGHLY COINCIDENT INDICATORS											
301. Nonagricultural job openings unfilled .....	Jan. '53-Dec. '66..	3.12	1.77	2.34	.76	1	.76	3.27	1.70	9.82	3.27
46. Help-wanted advertising .....	Jan. '53-Sep. '65..	3.00	1.87	2.30	.81	1	.81	3.10	1.39	8.94	3.10
511. Man-hours in nonagricultural establishments .....	Jan. '53-Dec. '66..	.44	.31	.31	1.00	2	.51	2.98	1.52	12.85	5.03
*41. Employees in nonagricultural establishments .....	Jan. '53-June '66..	.31	.14	.27	.52	1	.52	5.19	1.50	17.89	5.19
42. Total nonagricultural employment .....	Jan. '53-Dec. '66..	.35	.29	.21	1.42	2	.75	2.09	1.55	27.83	4.05
*43. Unemployment rate, total .....	Jan. '53-Dec. '66..	3.94	3.05	2.16	1.41	2	.72	2.53	1.44	7.95	4.05
45. Average weekly insured unemployment rate, State programs .....	Jan. '53-Sep. '65..	4.19	2.19	3.29	.67	1	.67	4.90	1.75	7.60	4.90
40. Unemployment rate, married males .....	Nov. '54-Dec. '66..	5.07	4.38	2.55	1.72	2	.92	3.37	1.48	8.53	4.11
*47. Industrial production .....	Jan. '53-Sep. '65..	1.02	.54	.76	.71	1	.71	3.62	1.67	11.69	3.62
*52. Personal income .....	Jan. '53-June '66..	.53	.27	.46	.58	1	.58	4.88	1.56	23.00	4.88
53. Wage and salary income in mining, mfg., and constr. ....	Jan. '53-June '66..	.84	.50	.64	.78	1	.78	2.93	1.56	14.64	2.93
*816. Manufacturing and trade sales .....	Jan. '53-Dec. '66..	1.02	.74	.62	1.19	2	.62	2.35	1.50	8.79	3.69
*54. Sales of retail stores .....	Jan. '53-Sep. '65..	.97	.83	.44	1.88	3	.70	2.08	1.57	15.20	4.84
96. Unfilled orders, durable goods indus. ....	Jan. '53-Sep. '65..	1.45	.54	1.28	.42	1	.42	5.63	1.57	10.86	5.63
55. Wholesale prices, industrial commodities .....	Jan. '53-Dec. '66..	.17	.11	.13	.84	1	.84	3.88	1.64	9.82	3.88
58. Wholesale prices, manufactured goods .....	Jan. '53-Dec. '66..	.20	.16	.13	1.25	2	.77	3.27	1.78	10.44	4.61
114. Treasury bill rate .....	Jan. '53-Sep. '65..	6.70	5.00	4.46	1.12	2	.73	2.53	1.77	6.61	3.68
116. Corporate bond yields .....	Jan. '59-June '66..	1.58	1.31	.82	1.60	3	.74	2.54	1.85	12.71	3.78
115. Treasury bond yields .....	Jan. '53-Sep. '65..	1.65	1.31	.93	1.41	2	.98	2.76	2.00	8.00	3.68
117. Municipal bond yields .....	Jan. '53-Sep. '65..	2.46	2.08	1.10	1.90	3	.87	2.58	1.88	8.00	3.66
LAGGING INDICATORS											
*502. Unemployment rate, 15 weeks and over .....	Jan. '53-Dec. '66..	6.52	5.25	4.16	1.26	2	.64	4.07	1.55	7.95	5.72
505. Machinery and equip. sales and business construction expenditures .....	Jan. '53-Dec. '66..	1.63	1.32	.89	1.49	2	.75	1.96	1.50	18.56	3.32
*71. Book value, mfg. and trade inventories .....	Jan. '53-Dec. '66..	.54	.18	.50	.36	1	.36	7.26	1.58	23.86	7.26
65. Book value, manufacturers' inventories of finished goods .....	Jan. '53-Dec. '66..	.62	.28	.55	.52	1	.52	3.63	1.42	15.18	3.63

See footnotes at end of table.

Appendix C.—AVERAGE CHANGES AND RELATED MEASURES FOR BUSINESS CYCLE SERIES—Continued

Part 1.—Average Percentage Changes—Continued

Monthly series	Period covered	CI	I	C	I/C	MCD	I/C for MCD span	Average duration of run (ADR)			
								CI	I	C	MCD
LAGGING INDICATORS--Continued											
*62. Labor cost per unit of output, manufacturing .....	Jan. '53-Sep. '65..	.51	.37	.30	1.26	2	.72	2.54	1.57	7.86	3.81
66. Consumer installment debt .....	Jan. '53-Sep. '65..	.84	.11	.82	.14	1	.14	11.69	1.63	21.71	11.69
*72. Com. and indus. loans outstanding, weekly reporting large commercial banks .....	Jan. '53-Dec. '66..	.95	.46	.83	.55	1	.55	4.07	1.50	23.86	4.07
118. Mortgage yields, residential .....	Jul. '61-Sep. '65..	.11	.07	.11	.65	1	.65	10.00	1.92	5.56	10.00
OTHER SELECTED U.S. SERIES											
81. Consumer prices .....	Jan. '53-Dec. '66..	.19	.12	.14	.83	1	.83	3.98	1.62	9.82	3.98
86. Exports, excluding military aid .....	Jan. '53-Oct. '64..	3.81	3.56	.94	3.77	4	.91	1.78	1.66	14.10	4.06
861. Export orders, durables except motor vehicles and parts .....	Oct. '62-Dec. '66..	12.45	12.28	1.57	7.80	6	(1)	1.43	1.35	16.67	2.37
862. Export orders, nonelectrical machinery .....	Jan. '57-Dec. '66..	6.32	6.10	1.84	3.31	4	.85	1.63	1.55	9.92	3.05
87. General imports .....	Jan. '53-Oct. '64..	3.04	2.87	.80	3.59	4	.86	1.83	1.62	10.85	3.54
91. Defense Department obligations, total .....	Jul. '53-Sep. '65..	13.86	13.59	1.26	10.77	6	(1)	1.40	1.42	6.64	2.07
90. Defense Dept. obligations, procurement .....	Jan. '56-Sep. '65..	27.42	27.34	2.16	12.68	6	(1)	1.43	1.43	8.92	2.02
99. New orders, defense products industries .....	Jan. '53-Sep. '65..	22.53	22.53	1.92	11.72	6	(1)	1.57	1.48	9.50	2.53
92. Military contract awards in U.S. ....	July '55-Apr. '67..	18.06	17.61	1.92	9.17	6	(1)	1.44	1.38	10.07	2.43
U.S. SERIES UNDER CONSIDERATION											
851. Ratio, inventories to sales, mfg. and trade .....	Jan. '53-Apr. '67..	.99	.86	.47	1.82	2	.93	2.85	1.50	9.00	4.72
852. Ratio, unfilled orders to shipments, durable goods .....	Jan. '53-Apr. '67..	2.04	1.76	.98	1.80	3	.71	2.09	1.58	10.69	4.45
853. Ratio, production of business equipment to production of consumer goods .....	Jan. '53-Apr. '67..	.95	.62	.66	.95	1	.95	2.71	1.54	9.00	2.71
855. Ratio, nonagricultural job openings unfilled to number of persons unemployed .....	Jan. '53-Apr. '67..	5.78	3.41	4.21	.81	1	.81	2.95	1.50	8.55	2.95
856. Ratio, average hourly earnings of production workers in manufacturing to consumer prices ...	Jan. '53-Apr. '67..	.35	.29	.19	1.52	2	.78	2.34	1.50	13.15	3.78
INTERNATIONAL COMPARISONS OF INDUSTRIAL PRODUCTION											
123. Canada .....	July '53-Mar. '67..	.89	.68	.57	1.19	2	.53	2.30	1.45	10.63	4.22
122. United Kingdom .....	Jan. '53-Sep. '65..	1.08	1.02	.42	2.41	3	.86	2.58	1.48	10.13	5.17
121. OECD European countries .....	Jan. '53-Sep. '65..	.86	.77	.49	1.55	2	.87	3.62	1.73	25.33	5.81
125. West Germany .....	Jan. '53-Sep. '65..	1.51	1.33	.66	2.02	3	.64	2.71	1.62	19.00	5.00
128. Japan .....	Jan. '53-Sep. '65..	1.73	1.23	1.22	1.01	2	.47	3.38	1.37	13.82	5.21
126. France .....	Jan. '53-Sep. '65..	1.45	1.38	.62	2.24	3	.84	2.67	1.45	16.89	6.00
127. Italy .....	Jan. '53-Sep. '65..	1.50	1.40	.72	1.96	3	.67	2.49	1.69	16.89	4.84
Quarterly series	Period covered	CI	I	C	I/C	QCD	I/C for QCD span	Average duration of run (ADR)			
								CI	I	C	QCD
LEADING INDICATORS											
11. New capital appropriations, manufacturing .....	1Q'53-1VQ'66.....	9.66	4.78	7.18	.67	1	.67	3.06	1.28	3.44	3.06
*16. Corporate profits after taxes .....	1Q'53-1Q'66.....	5.56	2.95	4.26	.69	1	.69	3.06	1.27	5.20	3.06
22. Ratio, profits to income originating, corporate, all industries .....	1Q'53-1Q'66.....	4.18	2.69	2.99	.90	1	.90	2.36	1.30	6.50	2.36
18. Profits per dollar of sales, manufacturing .....	1Q'53-1VQ'66.....	5.71	3.60	3.70	.97	1	.97	2.50	1.31	4.23	2.50
110. Total private borrowing .....	1Q'53-1VQ'66.....	10.97	6.31	7.99	.79	1	.79	2.20	1.22	3.67	2.20
ROUGHLY COINCIDENT INDICATORS											
49. GNP in current dollars .....	1Q'53-1Q'66.....	1.54	.34	1.45	.24	1	.24	5.78	1.33	7.43	5.78
*50. GNP in 1958 dollars .....	1Q'53-1Q'66.....	1.28	.35	1.14	.31	1	.31	3.47	1.33	5.78	3.47
57. Final sales .....	1Q'53-1Q'66.....	1.37	.30	1.32	.23	1	.23	10.40	1.21	10.40	10.40
97. Backlog of capital appropriations, manufacturing ..	1Q'53-1VQ'66.....	5.58	.85	5.45	.16	1	.16	4.23	1.34	6.11	4.23

See footnotes at end of table.

Appendix C.—AVERAGE CHANGES AND RELATED MEASURES FOR BUSINESS CYCLE SERIES—Continued

Part 1.—Average Percentage Changes—Continued

Quarterly series	Period covered	CI	I	C	I/C	QCD	T/C for QCD span	Average duration of run (ADR)			
								CI	I	C	QCD
LAGGING INDICATORS											
*61. Business expenditures, new plant and equipment.....	IQ'53-IIIQ'65.....	3.21	.77	2.99	.26	1	.26	5.56	1.47	5.56	5.56
68. Labor cost (cur. dol.) per unit of gross product (1958 dol.), nonfinancial corporations.....	IQ'53-IVQ'66.....	.85	.40	.69	.57	1	.57	2.89	1.28	4.23	2.89
*67. Bank rates on short-term business loans.....	IQ'53-IIIQ'65.....	1.99	.96	1.80	.54	1	.54	2.38	1.47	3.33	2.38
OTHER SELECTED U.S. SERIES											
83. Federal cash receipts from public.....	IQ'53-IQ'67.....	3.38	1.82	2.31	.79	1	.79	2.55	1.44	3.50	2.55
82. Federal cash payments to public.....	IQ'53-IQ'67.....	3.81	3.02	2.09	1.45	2	.47	1.51	1.19	4.00	3.06
101. National defense purchases, current dollars.....	IQ'53-IVQ'66.....	2.34	.87	1.89	.46	1	.46	2.62	1.34	4.58	2.62
U.S. SERIES UNDER CONSIDERATION											
850. Ratio, output to capacity, mfg.....	IQ'53-IIQ'67.....	2.21	.87	1.79	.49	1	.49	2.85	1.42	3.80	2.85
854. Ratio, personal saving to disposable personal income.....	IQ'53-IVQ'66.....	8.54	6.98	4.45	1.57	2	.57	1.57	1.28	3.67	3.18
857. Vacancy rate in total rental housing.....	IQ'56-IQ'67.....	3.64	2.28	2.36	.97	1	.97	2.10	1.33	4.40	2.10

\*Series included in the 1966 NBER "short list" of 25 indicators.

<sup>1</sup>Not shown 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 Electronic Computers and Business Indicators, by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from Journal of Business, October 1957).

"CI", is the average month-to-month (or quarter-to-quarter) percentage change, without regard to sign, in the seasonally adjusted series. "I" is the same for the irregular component, obtained by dividing the cyclical component into the seasonally adjusted series. "C" is the same for the cyclical component, a smooth, flexible moving average of the seasonally adjusted series.

"MCD" (months for cyclical dominance) provides an estimate of the appropriate time span over which to observe cyclical movements in a monthly series. It is small for smooth series and large for irregular series. In deriving MCD, percentage changes are computed separately for the irregular component and the cyclical component over 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 12-month spans. Averages, without regard to sign, are then computed for the changes over each span. MCD is the shortest span in months for which the average percentage change (without regard to sign) in the cyclical component is larger than the average percentage change (without regard to sign) in the irregular component, and remains so. Thus, it indicates the point at which fluctuations in the seasonally adjusted series become dominated by cyclical rather than irregular movements. All series with an MCD greater than "5" are shown as "6". Similarly, "QCD" provides an estimate of the appropriate time span over which to observe cyclical movements in quarterly series. It is the shortest span (in quarters) for which the average percentage change (without regard to sign) in the cyclical component is larger than the average percentage change (without regard to sign) in the irregular component, and remains so.

"I/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 I/C ratio is shown for the MCD period. For quarterly series, I/C is shown for 1-quarter spans and QCD spans.

"Average Duration of Run" (ADR) is another 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, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series CI, irregular component I, cyclical component C, and the MCD curve. The MCD curve is an unweighted moving average (with the number of terms equal to MCD) of the seasonally adjusted series.

A comparison of these measures of ADR with the expected ADR of a random series gives an indication of whether the changes approximate those of a random series. Over 1-month intervals in a random series, the expected value of the ADR is 1.5. The actual value of ADR falls between 1.36 and 1.75 about 95 percent of the time. Over 1-month intervals in a moving average (MCD) of a random series, the expected value of ADR is 2.0. For example, the ADR of CI is 1.69 for the series on average weekly initial claims, State unemployment insurance (series 5). This indicates that 1-month changes in the seasonally adjusted series, on the average, reverse sign about as often as expected in a random series. The ADR measures shown in the next two columns, 1.42 for I and 12.67 for C, suggest that the seasonally adjusted series has been successfully separated into an essentially random component and a cyclical (nonrandom) component. Finally, ADR is 3.97 for the MCD moving average. This indicates that a 2-month moving average of the seasonally adjusted series (2 months being the MCD span) reverses direction, on the average, about every 4 months. The increase in the ADR from 1.42 for CI to 3.97 for the MCD moving average indicates that, for this series, month-to-month changes in the MCD moving average usually reflect the underlying cyclical trend movements of the series, whereas the month-to-month changes in the seasonally adjusted series usually do not.

## Part 2.—Average Unit Changes

Monthly series	Period covered	Unit of measure	$\bar{C}_I$	$\bar{I}$	$\bar{C}$	$\bar{I}/\bar{C}$	MCD	$\bar{I}/\bar{C}$ for MCD span	Average duration of run (ADR)			
									CI	I	C	MCD
LEADING INDICATORS												
*31. Change in book value, manufacturing and trade inventories .....	Jan. '53-Sep. '65	Ann. rate, bil. dol..	3.68	3.58	.74	4.87	5	.98	1.51	1.43	9.06	2.65
20. Change in book value of manufacturers' inventories of materials, supplies.....	Jan. '53-Sep. '65	... do ...	1.51	1.44	.29	4.97	6	( <sup>1</sup> )	1.67	1.50	6.08	3.00
25. Change in unfilled orders, dur. goods industries.	Jan. '53-Sep. '65	Bil. dol ..	.48	.46	.13	3.51	4	.98	1.69	1.62	7.60	3.10
98. Change in money supply and time deposits ....	Jan. '53-June '67	Ann. rate, percent .	2.49	2.48	.34	7.37	6	( <sup>1</sup> )	1.45	1.37	10.81	2.85
85. Change in total money supply .....	Jan. '53-June '67	... do ...	2.88	2.90	.36	7.94	6	( <sup>1</sup> )	1.42	1.40	10.81	2.85
33. Change in mortgage debt.....	Jan. '55-Dec. '66	Ann. rate, bil. dol..	1.31	1.22	.34	3.58	4	.93	1.52	1.39	11.92	2.69
*113. Change in consumer installment debt .....	Jan. '53-Sep. '65	... do ...	.87	.79	.31	2.56	3	.92	1.65	1.49	10.13	3.13
112. Change in business loans.....	Aug. '59-Dec. '66	... do ...	2.22	2.10	.46	4.56	6	.90	1.60	1.66	8.00	4.15
ROUGHLY COINCIDENT INDICATORS												
93. Free reserves .....	Jan. '53-Sep. '65	Mil. dol ..	98.01	78.89	46.86	1.68	3	.68	2.03	1.60	10.13	3.49
OTHER SELECTED U.S. SERIES												
88. Merchandise trade balance .....	Jan. '53-June '62	... do ...	58.44	55.87	17.28	3.23	3	.97	1.82	1.61	9.42	2.64
Quarterly series	Period covered	Unit of measure	$\bar{C}_I$	$\bar{I}$	$\bar{C}$	$\bar{I}/\bar{C}$	QCD	$\bar{I}/\bar{C}$ for QCD span	Average duration of run (ADR)			
									CI	I	C	QCD
LEADING INDICATORS												
21. Change in business inventories, all industries .....	1Q'53-1Q'66 ....	Ann. rate, bil. dol..	2.28	1.43	1.37	1.04	2	.48	1.73	1.37	4.00	2.83
OTHER SELECTED U.S. SERIES												
89. U.S. balance of payments:												
a. Liquidity balance basis .....	1Q'53-IIIQ'65...	Mil. dol ..	340.64	225.64	216.94	1.04	2	.45	1.67	1.25	3.13	2.72
b. Official settlements basis .....	1Q'60-1Q'66....	... do ...	492.17	302.66	286.13	1.06	2	.55	2.00	1.41	2.67	2.56
95. Fed. balance, nat'l. income and product acct...	1Q'53-1Q'66....	Ann. rate, bil. dol..	2.50	1.37	1.81	.76	1	.76	2.17	1.37	3.71	2.17
84. Federal cash surplus or deficit.....	1Q'53-1Q'67....	... do ...	4.79	3.37	2.26	1.49	2	.71	1.87	1.33	2.80	2.29

\*Series included in the 1966 NBER "short list" of 25 indicators.

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

The measures in the above table are computed by an additive method to avoid the distortion caused by zero and negative data. Thus, " $\bar{C}_I$ " is the average month-to-month (or quarter-to-quarter) change in the seasonally adjusted series. This average is computed without regard to sign and is expressed in the same unit of measure as the series itself. " $\bar{C}$ " is the same for the cyclical component, which is a moving average of the

seasonally adjusted series. " $\bar{I}$ " is the same for the irregular component, which is determined by subtracting the cyclical component from the seasonally adjusted series.

All other measures shown above have the same meaning as in part 1.



## Appendix D.—CURRENT ADJUSTMENT FACTORS FOR BUSINESS CYCLE SERIES (NOVEMBER 1966 TO DECEMBER 1967)

Series	1966		1967											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5. Average weekly initial claims, State unemployment insurance .....	105.3	139.0	146.3	109.1	92.7	91.5	79.2	81.2	106.2	85.7	76.9	86.8	105.4	139.0
13. New business incorporations <sup>1</sup> .....	86.3	99.3	112.0	95.2	117.2	98.5	106.1	104.4	95.9	99.7	88.1	96.2	86.3	99.3
14. Liabilities of business failures .....	91.3	83.2	91.2	102.0	109.6	93.7	100.4	120.0	113.1	110.8	100.9	83.3	90.6	83.2
18. Profits per dollar of sales, manufacturing <sup>2</sup> .....	99.8	...	...	97.4	...	...	106.1	...	...	96.7	...	...	99.7	...
30. Nonagricultural placements, all industries <sup>1</sup> .....	96.7	80.2	82.3	78.4	92.6	100.4	113.1	110.3	100.7	113.4	118.4	113.8	95.5	80.2
33. Net change in mortgage debt held by financial institutions and life insurance companies <sup>3</sup> .....	-96.	309.	-336.	-390.	-13.	9.	25.	153.	135.	151.	44.	11.	-98.	315.
37. Purchased materials, percent of companies reporting higher inventories .....	88.7	89.8	101.9	106.6	107.7	114.4	107.8	101.6	100.3	97.8	96.1	87.0	88.4	89.8
39. Delinquency rate, 30 days and over, total installment loans <sup>4</sup> .....	...	109.4	...	109.5	...	91.9	...	92.1	...	98.8	...	97.3	...	109.4
72. Commercial and industrial loans outstanding .....	100.0	101.7	99.3	99.8	101.3	99.9	99.9	100.7	99.0	98.8	100.1	99.2	99.9	101.7
90. Defense Department obligations, procurement .....	88.2	100.2	75.7	67.8	101.1	105.0	95.3	200.1	72.8	99.3	99.8	92.9	88.2	100.2
91. Defense Department obligations, total .....	89.9	97.2	91.9	80.0	100.1	99.3	90.0	145.7	109.1	97.6	102.4	96.2	89.9	97.2
92. Military contract awards in U.S. ....	79.8	91.6	93.9	82.6	96.4	91.6	90.1	184.2	94.4	90.7	111.5	94.3	79.7	91.8
112. Change in business loans <sup>5</sup> .....	99.9	100.9	100.3	99.6	100.6	100.3	100.2	100.2	99.6	99.2	99.4	99.6	99.9	100.8
301. Nonagricultural job openings unfilled .....	93.9	80.1	83.8	86.0	95.2	109.0	120.3	104.3	101.8	111.9	110.2	103.4	93.9	80.1
856. Ratio, average earnings to consumer prices .....	100.1	100.5	100.5	100.1	100.2	100.2	100.3	100.0	99.6	98.9	99.9	99.7	100.1	100.5
857. Vacancy rate in total rental housing <sup>1</sup> .....	101.4	...	...	100.8	...	...	98.6	...	...	99.3	...	...	101.4	...
862. Index of export orders, nonelectrical machinery .....	98.6	99.1	101.5	105.2	104.9	103.1	100.4	100.8	94.4	94.4	98.6	98.7	98.9	99.1
D34. Profits, manufacturing (FNCB) <sup>6</sup> .....	...	...	-15	...	...	+18	...	...	-10	...	...	+6	...	...

NOTE: 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. They are kept current by the Bureau of the Census. Seasonally adjusted data prepared by the source agency will be substituted whenever they are published. For a description of the method used to compute these factors, see Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

<sup>1</sup>Factors are products of seasonal and trading-day factors. Seasonally adjusted data resulting from the application of these combined factors may differ slightly from those obtained by separate applications of seasonal and trading-day factors due to rounding.

<sup>2</sup>Quarterly series; figures are placed in middle month of quarter.

<sup>3</sup>These quantities, in millions of dollars, are to be subtracted from the month-to-month net change in the unadjusted monthly totals to yield the seasonally adjusted net change. They were computed by the additive version of the X-11 variant of the Census Method II seasonal adjustment program.

<sup>4</sup>Bimonthly series. Data are for even-numbered months (February, April, June, etc.).

<sup>5</sup>Factors apply to monthly totals before month-to-month changes are computed.

<sup>6</sup>1-quarter diffusion index: Figures are placed on the 1st month of the quarter. The unadjusted diffusion index is computed and the factors, computed by the additive version of the X-11 variant of the Census Method II seasonal adjustment program, are subtracted to yield the seasonally adjusted index.

## Appendix E.—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, total		
	*41. Em- ployees in non- agri. es- tablish- ments	*47. Index of indus- trial pro- duc- tion	*50. GNP in 1958 dollars (Q) <sup>1</sup>	49. GNP in cur- rent dollars (Q) <sup>1</sup>	*52. Per- sonal income	*816. Manu- facturing and trade sales	*54. Sales of retail stores	Change in rate, peak to trough	Rate at peak	Rate at trough
Jan. 1920-July 1921.....	(NA)	-31.6	(NA)	-19.7	-21.9	(NA)	-4.3	<sup>2</sup> +7.9	24.0	<sup>2</sup> 11.9
May 1923-July 1924.....	(NA)	-18.0	-0.3	-2.3	0.0	(NA)	-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	+0.9	(NA)	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	-50.8	(NA)	-43.5	+25.4	<sup>3</sup> 0.0	25.4
May 1937-June 1938.....	-10.4	-31.7	-8.9	-11.9	-10.9	(NA)	-17.3	+8.8	11.2	20.0
Feb. 1945-Oct. 1945 <sup>4</sup> .....	-7.9	-31.4	(NA)	-10.9	-4.0	(NA)	+8.6	+2.2	1.1	3.3
Nov. 1948-Oct. 1949.....	-5.1	-8.5	-1.6	-3.4	-4.7	-7.5	-0.5	+4.1	<sup>3</sup> 3.8	7.9
July 1953-Aug. 1954 <sup>5</sup> .....	-3.4	-9.1	-2.2	-0.8	0.0	-7.2	-0.5	+3.4	2.6	6.0
July 1957-Apr. 1958.....	-3.9	-14.1	-3.4	-1.8	+0.2	-6.8	-2.4	+3.2	4.2	7.4
May 1960-Feb. 1961.....	-1.9	-5.7	-1.4	-0.2	+0.9	-3.1	-2.7	+1.8	5.1	6.9
Median: <sup>6</sup>										
All contractions.....	-5.6	-16.0	-1.9	-2.8	-2.0	-7.0	-2.2	+3.3	3.5	7.2
Excluding postwar contractions..	-6.5	-16.0	-2.1	-2.8	-2.4	-5.8	-2.6	+3.6	3.9	7.6
4 contractions since 1948.....	-3.6	-8.8	-1.9	-1.3	+0.1	-7.0	-1.4	+3.3	4.0	7.2
Expansions: Reference trough to reference peak	Percent change: Reference trough to reference peak							*43. Unemployment rate, total		
	*41. Em- ployees in non- agri. es- tablish- ments	*47. Index of indus- trial pro- duc- tion	*50. GNP in 1958 dollars (Q) <sup>1</sup>	49. GNP in cur- rent dollars (Q) <sup>1</sup>	*52. Per- sonal income	*816. Manu- facturing and trade sales	*54. Sales of retail stores	Change in rate, trough to peak	Rate at trough	Rate at peak
July 1921-May 1923.....	(NA)	+64.2	(NA)	+25.1	+29.6	(NA)	+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	+13.2	(NA)	+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	+12.2	(NA)	+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	+76.3	(NA)	+69.2	-14.2	25.4	11.2
June 1938-Feb. 1945 <sup>4</sup> .....	+45.9	+183.3	(NA)	+169.6	+157.3	(NA)	+105.4	-18.9	20.0	1.1
Oct. 1945-Nov. 1948.....	+17.2	+21.9	+3.3	+34.9	+28.5	(NA)	+63.8	+0.3	3.3	<sup>3</sup> 3.6
Oct. 1949-July 1953 <sup>5</sup> .....	+17.8	+50.0	+28.8	+44.1	+41.4	+50.0	+25.6	-5.3	7.9	2.6
Aug. 1954-July 1957.....	+8.9	+19.7	+11.8	+22.4	+22.1	+22.6	+20.3	-1.8	6.0	4.2
Apr. 1958-May 1960.....	+6.9	+25.2	+11.4	+15.1	+13.3	+16.2	+11.9	-2.3	7.4	5.1
Median: <sup>6</sup>										
All expansions.....	+17.5	+35.2	+12.3	+27.5	+26.7	+29.6	+20.5	-3.7	7.1	3.3
Excluding wartime expansions..	+13.0	+26.6	+12.1	+20.9	+21.3	+19.4	+16.0	-2.6	6.3	3.7
4 expansions since 1945.....	+13.0	+23.6	+11.6	+28.6	+25.3	(NA)	+23.0	-2.0	6.7	3.9

NOTE: For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 41, 43, 47, 52, and 816), the figure for the reference peak (trough) month is used as the base. For series with an MCD of "3" or more (series 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. \*Series included in the 1966 NBER "short list" of 25 indicators. NA=Not available.

<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.

# Appendix F.—HISTORICAL DATA FOR SELECTED SERIES

Historical data and latest revisions are presented when available. See the Series Finding Guide for the publication date of the latest historical data for each series. Current data are shown in tables 2 and 4. Data are seasonally adjusted.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2. Accession rate, manufacturing (Per 100 employees)												
1945....	7.9	6.8	6.4	6.3	6.6	6.6	6.8	6.9	8.1	9.4	10.3	10.4
1946....	9.6	9.1	9.5	9.1	8.1	7.3	8.7	8.1	7.6	7.4	6.8	6.6
1947....	7.0	6.8	6.9	7.0	6.3	5.9	5.9	5.9	6.2	6.0	5.8	5.6
1948....	5.6	6.5	5.4	5.4	5.3	6.2	5.6	5.2	5.2	5.0	4.9	4.4
1949....	3.9	3.9	4.0	4.0	4.4	4.7	4.2	4.5	4.3	4.1	4.3	5.2
1950....	4.5	4.3	4.8	4.8	5.5	5.0	5.7	6.5	6.0	5.8	5.3	5.0
1951....	6.4	6.2	6.0	6.0	5.5	5.2	5.0	4.4	4.5	5.0	5.3	5.0
1952....	5.3	5.3	5.0	5.0	4.9	5.1	5.3	5.9	5.9	5.8	5.4	5.8
1953....	5.5	5.7	5.7	5.7	5.0	5.2	4.9	4.5	4.1	3.7	3.7	3.7
1954....	3.4	3.3	3.6	3.1	3.3	3.5	3.5	3.5	3.6	4.0	4.6	4.3
1955....	4.1	4.3	4.6	4.5	4.6	4.3	4.2	4.6	4.5	4.6	4.7	4.3
1956....	4.2	4.2	4.0	4.3	4.2	4.0	4.0	3.9	4.2	4.8	4.3	4.0
1957....	4.0	3.9	3.7	3.7	3.6	3.8	3.9	3.3	3.3	3.3	3.1	3.0
1958....	3.1	3.1	3.1	3.3	3.5	3.7	3.9	3.9	4.0	3.9	3.9	4.2
1959....	4.0	4.3	4.6	4.3	4.1	4.3	4.1	4.1	4.1	3.8	4.2	5.6
1960....	4.2	4.1	3.7	3.6	3.8	3.7	3.6	3.9	3.8	3.5	3.6	3.6
1961....	3.9	3.7	4.4	4.2	4.2	4.0	4.0	4.2	3.8	4.3	4.3	4.1
1962....	4.3	4.2	4.1	4.2	4.2	4.0	4.2	4.0	4.0	3.9	3.8	3.8
1963....	3.8	3.8	3.7	4.1	3.8	3.8	3.9	3.8	3.9	3.9	3.6	4.0
1964....	3.8	4.0	3.9	4.0	3.9	4.0	4.0	4.0	3.9	4.0	4.0	4.1
1965....	4.0	4.1	4.2	4.0	4.1	4.4	4.1	4.3	4.5	4.5	4.8	4.9
3. Layoff rate, manufacturing (Per 100 employees)												
1945....	0.7	0.9	0.9	1.0	1.4	2.0	2.1	12.1	4.0	2.7	2.3	1.5
1946....	2.1	1.9	2.1	1.7	1.7	1.4	0.9	0.9	1.0	1.2	1.0	1.2
1947....	1.0	0.9	1.1	1.1	1.5	1.3	1.6	1.1	1.0	1.1	1.0	1.0
1948....	1.4	1.9	1.4	1.4	1.1	1.3	1.6	1.8	1.4	1.5	1.7	2.3
1949....	2.8	2.5	3.3	3.2	3.5	3.1	3.0	2.6	2.6	2.8	2.8	2.1
1950....	1.9	1.9	1.7	1.4	1.2	1.1	0.8	0.8	1.0	1.1	1.2	1.2
1951....	1.0	1.0	1.0	1.1	1.3	1.3	1.8	1.9	1.8	1.7	1.8	1.5
1952....	1.5	1.5	1.4	1.5	1.3	1.5	3.1	1.3	1.0	0.9	0.8	1.0
1953....	0.9	1.0	1.0	1.0	1.2	1.2	1.5	1.6	2.0	2.2	2.4	2.5
1954....	2.9	2.7	2.8	2.8	2.3	2.4	2.2	2.1	2.1	1.9	1.7	1.8
1955....	1.5	1.4	1.5	1.4	1.4	1.7	1.8	1.6	1.4	1.5	1.3	1.4
1956....	1.6	2.3	1.8	1.6	2.1	1.9	1.7	1.5	1.8	1.5	1.7	1.5
1957....	1.5	1.7	1.6	1.7	2.0	1.7	1.8	2.1	2.3	2.7	3.0	2.7
1958....	3.4	3.3	3.4	3.3	3.0	2.4	2.4	2.3	2.1	2.1	1.9	1.9
1959....	1.8	1.7	1.7	1.7	1.6	1.7	1.9	2.0	2.0	2.9	2.5	1.9
1960....	1.5	1.9	2.3	2.3	2.3	2.5	2.4	2.6	2.5	2.6	2.7	2.8
1961....	2.7	3.0	2.5	2.1	2.2	2.3	2.2	1.9	2.2	1.8	1.9	2.0
1962....	1.8	2.0	1.7	1.8	2.0	2.0	2.0	2.3	2.0	2.1	2.0	1.9
1963....	2.0	1.9	1.9	1.8	1.9	1.7	1.8	2.0	1.9	1.8	1.8	1.7
1964....	1.8	1.8	1.8	1.6	1.7	1.6	1.8	1.4	1.6	1.7	1.5	1.5
1965....	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.6	1.4	1.3	1.3	1.4
85. Percent change in total U.S. money supply (Annual rate, percent)												
1947....	...	+2.16	+6.60	+8.76	+6.48	+4.32	+1.08	+4.32	+4.32	-1.08	+4.20	-2.16
1948....	+3.24	-2.16	-6.36	-3.24	-2.16	-1.08	+2.16	+1.08	-1.08	-1.08	-3.24	-3.24
1949....	-3.24	0.00	0.00	+1.08	+2.16	-2.16	-1.08	-2.16	-1.08	0.00	+1.08	+2.16
1950....	+3.24	+6.48	+4.32	+7.44	+5.28	+4.20	+5.28	+4.20	+2.04	+5.16	+2.04	+3.12
1951....	+5.16	+4.08	+5.16	+2.04	+4.08	+4.08	+5.04	+5.04	+8.04	+6.00	+9.96	+6.84
1952....	+3.96	+4.92	+1.92	+2.88	+3.84	+4.80	+2.88	+3.84	+6.72	+2.88	+3.84	+2.88
1953....	-0.96	+0.96	+5.64	+2.76	+1.92	0.00	+0.96	+0.96	-0.96	+0.96	0.00	+0.96
1954....	+1.92	+0.96	+0.96	-5.52	+10.32	+1.80	+3.72	+3.72	+1.80	+5.52	+5.52	+1.80
1955....	+6.36	+8.16	-2.64	+2.64	+6.24	-1.80	+3.60	0.00	+1.80	+1.80	-2.64	+2.64
1956....	+2.64	0.00	+1.80	+2.64	-1.80	+1.80	0.00	-2.64	+4.44	+0.84	+2.64	+2.64
1957....	0.00	-0.84	+0.84	0.00	+0.84	-0.84	+0.84	+0.84	-2.64	-2.64	-1.80	-3.48
1958....	-3.48	+6.24	+2.64	+4.44	+4.32	+7.80	0.00	+6.12	+3.48	+5.16	+6.84	+1.68
1959....	+4.20	+3.36	+4.20	+1.68	+4.20	+1.68	+5.88	-4.20	-2.52	-3.36	-1.68	-6.72
1960....	-1.68	-3.36	-3.36	-0.84	-4.32	-1.68	+2.52	+4.32	+1.68	0.00	-2.52	+2.52
1961....	+0.84	+4.20	+2.52	+2.52	+3.36	+2.52	0.00	+2.52	+5.04	+3.36	+5.88	+3.36
1962....	+0.84	+2.52	+1.68	+2.52	-1.68	+0.84	-0.84	-0.84	-1.68	+4.92	+4.08	+4.08
1963....	+4.92	+4.92	+1.56	+4.08	+3.96	+4.80	+4.80	+1.56	+2.40	+6.36	+7.92	-2.40
1964....	+3.96	+2.40	+2.40	+3.12	+3.84	+4.68	+7.68	+5.28	+3.84	+4.56	+4.56	+1.56
1965....	+2.28	+3.00	+2.28	+3.72	0.00	+6.72	+5.16	+5.88	+5.88	+8.76	+3.60	+7.92

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Appendix F.—HISTORICAL DATA FOR SELECTED SERIES—Continued

Historical data and latest revisions are presented when available. See the Series Finding Guide for the publication date of the latest historical data for each series. Current data are shown in tables 2 and 4. Data are seasonally adjusted.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	98. Percent change in total U.S. money supply and commercial bank time deposits (Annual rate, percent)											
1947 ....	...	+3.36	+5.88	+7.56	+5.76	+4.08	+1.68	+6.60	+5.76	+1.68	+4.92	0.00
1948 ....	+3.24	0.00	-4.80	-2.40	-1.68	0.00	+1.68	+1.68	-0.84	-0.84	-1.68	-2.40
1949 ....	-1.68	0.00	0.00	+1.68	+2.40	-0.84	-0.84	-1.68	-0.84	0.00	+0.84	+1.68
1950 ....	+2.40	+6.48	+3.24	+6.48	+5.64	+3.24	+3.12	+2.40	+0.84	+3.12	+2.40	+3.12
1951 ....	+3.96	+2.40	+3.96	+2.28	+3.84	+3.84	+6.12	+5.40	+8.40	+5.28	+9.12	+6.72
1952 ....	+4.44	+6.00	+3.00	+3.72	+4.44	+5.16	+3.60	+5.04	+7.20	+3.60	+5.76	+3.60
1953 ....	+1.44	+2.16	+6.36	+3.48	+3.48	+1.44	+2.76	+2.76	+1.44	+3.48	+2.04	+2.76
1954 ....	+3.48	+3.48	+3.48	-0.72	+10.32	+3.36	+6.12	+6.12	+2.04	+5.40	+4.68	+2.04
1955 ....	+6.00	+7.32	-1.32	+3.24	+4.56	0.00	+3.24	0.00	+3.24	+1.92	-0.60	+2.64
1956 ....	+1.32	0.00	+2.64	+3.24	-0.60	+3.24	+1.32	0.00	+5.16	+1.32	+3.24	+2.52
1957 ....	+4.44	+2.52	+4.44	+1.92	+3.72	+1.20	+3.72	+3.12	+0.60	+1.20	+1.20	0.00
1958 ....	-1.20	+14.28	+9.84	+9.12	+7.80	+10.80	+4.80	+7.68	+3.48	+4.08	+6.48	+2.28
1959 ....	+6.36	+2.28	+4.08	+2.88	+3.48	+3.48	+4.56	-2.28	-1.08	-2.28	-1.20	-3.96
1960 ....	-2.28	-4.08	-1.68	+1.20	-2.28	+1.68	+6.36	+8.64	+5.64	+4.56	+2.88	+6.24
1961 ....	+4.44	+10.08	+5.04	+5.52	+7.68	+6.60	+5.40	+6.00	+7.56	+6.36	+7.44	+4.80
1962 ....	+7.92	+11.52	+9.36	+7.68	+2.52	+6.12	+5.04	+4.08	+4.56	+9.48	+8.40	+10.32
1963 ....	+8.76	+9.24	+6.72	+8.16	+6.72	+8.04	+8.04	+7.44	+6.96	+9.24	+11.40	+3.60
1964 ....	+7.68	+5.88	+4.92	+6.24	+7.56	+7.92	+9.24	+7.80	+8.64	+8.52	+8.88	+7.20
1965 ....	+9.60	+9.60	+7.44	+7.80	+5.28	+9.72	+9.72	+10.80	+10.32	+13.32	+8.52	+9.60

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# INDEX

## SERIES FINDING GUIDE

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Series titles by economic process and other groupings (See complete titles and sources on back cover)	Timing classi- fication	Charts			Tables				Appendixes					F	
		1	2	3	1	2	4	5	B	C	D	E	Page	Issue	
I. EMPLOYMENT AND UNEMPLOYMENT															
*1. Avg. workweek, production workers, mfg. ....	L ...	9	-	62	6	31	-	-	68-9	70	-	-	72	Sept. '66	
*30. Nonagricultural placements, all indus. ....	L ...	9	-	-	6	31	-	-	68-9	70	74	-	66	Oct. '63 <sup>1</sup>	
2. Accession rate, manufacturing. ....	L ...	9	-	-	6	31	-	-	-	70	-	-	76	Sept. '67	
5. Initial claims, State unemploy. insurance. ....	L ...	9	-	-	6	31	-	-	-	70	74	-	66	July '63 <sup>1</sup>	
3. Layoff rate, manufacturing. ....	L ...	9	-	-	6	31	-	-	-	70	-	-	76	Sept. '67	
301. Nonagri. job openings unfilled. ....	C ...	17	-	-	7	36	-	-	-	70	74	-	76	Apr. '67	
46. Help-wanted advertising. ....	C ...	17	-	-	7	36	-	-	-	70	-	-	66	Feb. '64 <sup>1</sup>	
511. Man-hours in nonagri. establishments. ....	C ...	17	-	-	7	36	-	-	-	70	-	-	77	Apr. '67	
*41. Employees in nonagri. establishments. ....	C ...	17	-	64	7	36	-	-	68-9	70	-	75	72	Sept. '66	
42. Total nonagricultural employment. ....	C ...	17	-	-	7	36	-	-	-	70	-	-	72	Feb. '67	
*43. Unemployment rate, total. ....	C ...	18	-	65	7	36	-	-	68-9	70	-	75	72	Feb. '67	
45. Avg. weekly insured unemploy. rate, State. ....	C ...	18	-	-	7	36	-	-	-	70	-	-	66	Mar. '64 <sup>1</sup>	
40. Unemployment rate, married males. ....	C ...	18	-	-	7	36	-	-	-	70	-	-	72	Feb. '67	
*502. Unemploy. rate, 15 weeks and over. ....	Lg. ...	22	-	-	7	39	-	-	68-9	70	-	-	76	Apr. '67	
II. PRODUCTION, INCOME, CONSUMPTION, AND TRADE															
49. GNP in current dollars. ....	C ...	18	-	-	7	37	-	-	-	71	-	75	73	July '67	
*50. GNP in 1958 dollars. ....	C ...	18	-	64	7	37	-	-	68-9	71	-	75	73	July '67	
*47. Industrial production. ....	C ...	18	-	64	7	37	-	-	68-9	70	-	75	70	Sept. '64	
*52. Personal income. ....	C ...	19	-	-	7	37	-	-	68-9	70	-	75	74	July '67	
53. Wages and salaries, mining, mfg., constr. ....	C ...	19	-	-	7	37	-	-	-	70	-	-	74	July '67	
*816. Manufacturing and trade sales. ....	C ...	19	-	64	7	37	-	-	68-9	70	-	75	77	Apr. '67	
57. Final sales. ....	C ...	19	-	-	7	37	-	-	-	71	-	-	74	July '67	
*54. Sales of retail stores. ....	C ...	19	-	-	7	37	-	-	68-9	70	-	75	72	Apr. '66	
III. FIXED CAPITAL INVESTMENT															
*38. Index of net business formation. ....	L ...	10	-	-	6	31	-	-	68-9	70	-	-	74	June '65	
13. New business incorporations. ....	L ...	10	-	-	6	31	-	-	-	70	74	-	66	Aug. '63 <sup>1</sup>	
*6. New orders, durable goods industries. ....	L ...	10	-	62	6	32	-	-	68-9	70	-	-	78	June '67	
94. Construction contracts, value. ....	L ...	10	-	-	6	32	-	-	-	70	-	-	-	-	
*10. Contracts and orders, plant and equipment. ....	L ...	10	-	-	6	32	-	-	68-9	70	-	-	78	May '67	
11. New capital appropriations, mfg. ....	L ...	11	-	-	6	32	-	-	-	71	-	-	76	Aug. '67	
24. New orders, mach. and equip. industries. ....	L ...	11	-	-	6	32	-	-	-	70	-	-	66	Dec. '63 <sup>1</sup>	
9. Construction contracts, comm. and indus. ....	L ...	11	-	-	6	32	-	-	-	70	-	-	78	May '67	
7. Private nonfarm housing starts. ....	L ...	11	-	-	6	32	-	-	-	70	-	-	76	Aug. '67	
*29. New building permits, private housing. ....	L ...	11	-	62	6	32	-	-	68-9	70	-	-	74	June '65	
96. Unfilled orders, durable goods industries. ....	C ...	20	-	-	7	38	-	-	-	70	-	-	66	June '64	
97. Backlog of capital appropriations, mfg. ....	C ...	20	-	-	7	38	-	-	-	71	-	-	77	Aug. '67	
*61. Bus. expenditures, new plant and equip. ....	Lg. ...	22	-	65	7	39	-	-	68-9	72	-	-	65	June '64	
505. Mach. and equip. sales and bus. constr. expend. ....	Lg. ...	22	-	-	7	39	-	-	-	70	-	-	76	Apr. '67	
IV. INVENTORIES AND INVENTORY INVESTMENT															
21. Change in business inventories. ....	L ...	12	-	-	6	33	-	-	-	73	-	-	72	July '67	
*31. Change, mfg. and trade inventories. ....	L ...	12	-	62	6	33	-	-	68-9	73	-	-	72	Nov. '66	
37. Purchased materials, higher inventories. ....	L ...	12	-	-	6	33	-	-	-	70	74	-	68	June '63 <sup>1</sup>	
20. Change, mtls. and supplies inventories. ....	L ...	12	-	-	6	33	-	-	-	73	-	-	64	June '64	
26. Buying policy, production materials. ....	L ...	12	-	-	6	33	-	-	-	70	-	-	65	June '64	
32. Vendor performance, slower deliveries. ....	L ...	13	-	-	6	33	-	-	-	70	-	-	66	Mar. '64 <sup>1</sup>	
25. Change in unfilled orders, durable goods. ....	L ...	13	-	-	6	33	-	-	-	73	-	-	66	Dec. '63 <sup>1</sup>	
*71. Book value, mfg. and trade inventories. ....	Lg. ...	22	-	66	7	39	-	-	68-9	70	-	-	73	Apr. '67	
65. Mfrs.' inventories, finished goods, book value. ....	Lg. ...	22	-	-	7	39	-	-	-	70	-	-	72	Apr. '67	

\*Series preceded by an asterisk (\*) are on the 1966 NBER "short list" of 25 indicators. L = leading C = roughly coincident, Lg = lagging. <sup>1</sup> Appendix G in this issue.

# SERIES FINDING GUIDE—Continued

(PAGE NUMBERS. See table of contents (page i) for chart, table, and appendix titles)

Series titles by economic process and other groupings (See complete titles and sources on back cover)	Timing classi- fication	Charts			Tables				Appendixes						
		1	2	3	1	2	4	5	B	C	D	E	F		
													Page	Issue	
V. PRICES, COSTS, AND PROFITS															
*23. Industrial materials prices.....	L...	13	-	63	6	34	-	-	68-9	70	-	-	66	Jan. '64 <sup>1</sup>	
*19. Stock prices, 500 common stocks.....	L...	13	-	63	6	34	-	-	68-9	70	-	-	66	Apr. '64 <sup>1</sup>	
*16. Corporate profits after taxes.....	L...	14	-	-	6	34	-	-	68-9	71	-	-	72	July '67	
22. Ratio, profits to income originating, corporate.....	L...	14	-	-	6	34	-	-	-	71	-	-	73	July '67	
18. Profits per dollar of sales, mfg.....	L...	14	-	-	6	34	-	-	-	71	74	-	71	Apr. '67	
*17. Ratio, price to unit labor cost, mfg.....	L...	14	-	63	6	34	-	-	68-9	70	-	-	72	July '67	
55. Wholesale price index, industrial commodities.....	C...	20	-	65	7	38	-	-	-	70	-	-	73	Feb. '67	
58. Wholesale price index, manufactured goods.....	C...	20	-	-	7	38	-	-	-	70 <sup>1</sup>	-	-	72	Apr. '67	
68. Labor cost per unit of gross product, nonfin. corporations	Lg...	23	-	-	8	40	-	-	-	72	-	-	75	July '67	
*62. Labor cost per unit of output, mfg.....	Lg...	23	-	66	8	40	-	-	68-9	71	-	-	75	July '67	
81. Consumer prices.....	U...	24	-	-	8	41	-	-	-	71	-	-	73	Feb. '67	
VI. MONEY AND CREDIT															
98. Change, money supply and time deposits.....	L...	15	-	66	6	35	-	-	-	73	-	-	77	Sept. '67	
85. Change, total U.S. money supply.....	L...	15	-	-	6	35	-	-	-	73	-	-	76	Sept. '67	
33. Change, mortgage debt.....	L...	15	-	-	6	35	-	-	-	73	74	-	71	Apr. '67	
*113. Change, consumer installment debt.....	L...	15	-	63	6	35	-	-	68-9	73	-	-	71	July '64	
112. Change, business loans <sup>2</sup> .....	L...	15	-	-	6	35	-	-	-	73	74	-	75	Apr. '67	
110. Total private borrowing <sup>2</sup> .....	L...	16	-	-	6	35	-	-	-	71	-	-	73	Feb. '67	
14. Liabilities of business failures.....	L...	16	-	-	6	35	-	-	-	70	74	-	66	Nov. '63 <sup>1</sup>	
39. Delinquency rate, instal. loans, 30 days and over.....	L...	16	-	-	6	35	-	-	-	70	74	-	71	Apr. '67	
93. Free reserves.....	C...	21	-	-	7	38	-	-	-	73	-	-	66	Oct. '64	
114. Treasury bill rate <sup>2</sup> .....	C...	21	-	-	7	38	-	-	-	70	-	-	71	July '64	
116. Corporate bond yields <sup>2</sup> .....	C...	21	-	-	7	38	-	-	-	70	-	-	72	Aug. '66	
115. Treasury bond yields <sup>2</sup> .....	C...	21	-	-	7	38	-	-	-	70	-	-	72	July '64	
117. Municipal bond yields <sup>2</sup> .....	C...	21	-	-	7	38	-	-	-	70	-	-	72	July '64	
66. Consumer installment debt.....	Lg...	23	-	-	8	40	-	-	-	71	-	-	70	Aug. '64	
*72. Comm. and indus. loans outstanding.....	Lg...	23	-	-	8	40	-	-	68-9	71	74	-	73	Apr. '67	
*67. Bank rates on short-term business loans.....	Lg...	23	-	65	8	40	-	-	68-9	72	-	-	70	Aug. '64	
118. Mortgage yields, residential <sup>2</sup> .....	Lg...	23	-	-	8	40	-	-	-	71	-	-	72	July '64	
VII. FOREIGN TRADE AND PAYMENTS															
89. U.S. balance of payments:															
a. Liquidity balance basis.....	U...	24	-	-	8	41	-	-	-	73	-	-	79	June '67	
b. Official settlements basis.....	U...	24	-	-	8	41	-	-	-	73	-	-	79	June '67	
88. Merchandise trade balance.....	U...	24	-	-	8	41	-	-	-	73	-	-	74	Apr. '67	
86. Exports, excluding military aid.....	U...	25	-	-	8	41	-	-	-	71	-	-	73	Apr. '67	
861. Export orders, durable goods, except motor vehicles.....	U...	25	-	-	8	41	-	-	-	71	-	-	77	Apr. '67	
862. Export orders, nonelectric machinery.....	U...	25	-	-	8	41	-	-	-	71	74	-	78	Apr. '67	
87. General imports.....	U...	25	-	-	8	41	-	-	-	71	-	-	74	Apr. '67	
VIII. FEDERAL GOVERNMENT ACTIVITIES															
95. Fed. balance, nat'l. income and prod. account.....	U...	26	-	66	8	42	-	-	-	73	-	-	76	July '67	
84. Federal cash surplus or deficit.....	U...	26	-	-	8	42	-	-	-	73	-	-	79	June '67	
83. Federal cash receipts from public.....	U...	26	-	-	8	42	-	-	-	72	-	-	78	June '67	
82. Federal cash payments to public.....	U...	26	-	-	8	42	-	-	-	72	-	-	78	June '67	
101. National defense purchases, current dollars.....	U...	27	-	-	8	42	-	-	-	72	-	-	76	July '67	
91. Defense Department obligations, total.....	U...	27	-	-	8	42	-	-	-	71	74	-	70	Sept. '64	
90. Defense Dept. obligations, procurement.....	U...	27	-	-	8	42	-	-	-	71	74	-	70	Sept. '64	
99. New orders, defense products industries.....	U...	27	-	-	8	42	-	-	-	71	-	-	66	Oct. '64	
92. Military contract awards in U.S. ....	U...	27	-	-	8	42	-	-	-	71	74	-	76	Aug. '67	
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850. Ratio, output to capacity, mfg.....	U...	28	-	-	8	43	-	-	-	72	-	-	77	July '67	
851. Ratio, inventories to sales, mfg. and trade.....	U...	28	-	-	8	43	-	-	-	71	-	-	77	July '67	
852. Ratio, unfilled orders to shipments durable goods.....	U...	28	-	-	8	43	-	-	-	71	-	-	77	July '67	
853. Ratio, prod. of bus. equipment to consumer goods.....	U...	28	-	-	8	43	-	-	-	71	-	-	78	July '67	
854. Ratio, personal saving to disposable personal income.....	U...	29	-	-	8	43	-	-	-	72	-	-	78	July '67	
855. Ratio, nonagri. job openings unfilled to unemployed.....	U...	29	-	-	8	43	-	-	-	71	-	-	78	July '67	
856. Ratio, avg. earnings to consumer prices.....	U...	29	-	-	8	43	-	-	-	71	74	-	79	July '67	
857. Vacancy rate in total rental housing.....	U...	29	-	-	8	43	-	-	-	72	74	-	79	July '67	

\*Series preceded by an asterisk (\*) are on the 1966 NBER "short list" of 25 indicators. L=leading, C=roughly coincident, Lg=lagging, U=unclassified ("other selected U.S. series," "U.S. series under consideration" and "international comparisons"). <sup>1</sup> Appendix G in this issue. <sup>2</sup> A description of this series is contained in the July 1964 issue of BCD (appendix G).

# SERIES FINDING GUIDE—Continued

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		1	2	3	1	2	4	5	B	C	D	E	F	
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121. Industrial production, OECD--Europe .....	U....	30	-	-	-	44	-	-	-	71	-	-	75	Apr. '67
125. Industrial production, West Germany.....	U....	30	-	-	-	44	-	-	-	71	-	-	67	Oct. '64
128. Industrial production, Japan.....	U....	30	-	-	-	44	-	-	-	71	-	-	68	Oct. '64
126. Industrial production, France.....	U....	30	-	-	-	44	-	-	-	71	-	-	75	Apr. '67
127. Industrial production, Italy.....	U....	30	-	-	-	44	-	-	-	71	-	-	68	Oct. '64
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D34. Profits, mfg .....	.....	-	47	-	-	-	51	-	-	-	74	-	69	Oct. '64
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D41. Employees in nonagri. establishments .....	.....	-	48	-	-	-	52	57	-	-	-	-	73	Sept. '66
D47. Industrial production.....	.....	-	48	-	-	-	52	57	-	-	-	-	73	Apr. '65
D58. Wholesale prices, mfg.....	.....	-	48	-	-	-	52	58	-	-	-	-	78	Apr. '67
D54. Retail sales.....	.....	-	48	-	-	-	52	59	-	-	-	-	73	Apr. '65
D35. Net sales, mfrs.....	.....	-	49	-	-	-	53	-	-	-	-	-	70	Nov. '64
D36. New orders.....	.....	-	49	-	-	-	53	-	-	-	-	-	70	Nov. '64
D48. Freight carloadings.....	.....	-	49	-	-	-	53	-	-	-	-	-	68-9	Nov. '64
D61. New plant and equipment expenditures.....	.....	-	49	-	-	-	53	-	-	-	-	-	69	Nov. '64

U=unclassified ("other selected U.S. series," "U.S. series under consideration," and "international comparisons").

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# 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 reflect series relationships or order. "M" indicates monthly series; "Q" indicates quarterly series. Data apply to the whole period except for series designated by "EOM" (end of the month) or "EOQ" (end of the quarter). The Roman numeral identifies the economic process group in which a series is classified. (See Finding Guide.) Thus, "(M, II)" indicates a monthly series classified in group II. The general classification follows the approach of the National Bureau of Economic Research, Inc. The series preceded by an asterisk (\*) are included in the 1966 NBER "short list" of 25 indicators.

## 36 Leading Indicators

- \*1. Average workweek of production workers, manufacturing (M, I).--Department of Labor, Bureau of Labor Statistics
2. Accession rate, manufacturing (M, I).--Department of Labor, Bureau of Labor Statistics
3. Layoff rate, manufacturing (M, I).--Department of Labor, Bureau of Labor Statistics
5. Average weekly initial claims for unemployment insurance, State programs (M, I).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
- \*6. Value of manufacturers' new orders, durable goods industries (M, III).--Department of Commerce, Bureau of the Census
7. New private nonfarm housing units started (M, III).--Department of Commerce, Bureau of the Census
9. Construction contracts awarded for commercial and industrial buildings, floor space (M, III).--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, III).--Department of Commerce, Bureau of the Census, and F.W. Dodge Corporation; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
11. Newly approved capital appropriations, 1,000 manufacturing corporations (Q, III).--National Industrial Conference Board; component industries are seasonally adjusted and added to obtain seasonally adjusted total
13. Number of new business incorporations (M, III).--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, VI).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
- \*16. Corporate profits after taxes (Q, V).--Department of Commerce, Office of Business Economics
- \*17. Price per unit of labor cost index--ratio, wholesale prices of manufactured goods index (unadjusted) to seasonally adjusted index of compensation of employees (sum of wages, salaries, and supplements to wages and salaries) per unit of output (M, V).--Department of Commerce, Office of Business Economics; Department of Labor, Bureau of Labor Statistics; and Board of Governors of the Federal Reserve System
18. Profits (before taxes) per dollar of sales, all manufacturing corporations (Q, V).--Federal Trade Commission and Securities and Exchange Commission; seasonal adjustment by Bureau of the Census
- \*19. Index of stock prices, 500 common stocks (M, V).--Standard and Poor's Corporation; no seasonal adjustment
20. Change in book value of manufacturers' inventories of materials and supplies (M, IV).--Department of Commerce, Bureau of the Census
21. Change in business inventories, farm and nonfarm, after valuation adjustment (GNP component) (Q, IV).--Department of Commerce, Office of Business Economics
22. Ratio of profits (after taxes) to income originating, corporate, all industries (Q, V).--Department of Commerce, Office of Business Economics
- \*23. Index of industrial materials prices (M, V).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
24. Value of manufacturers' new orders, machinery and equipment industries (M, III).--Department of Commerce, Bureau of the Census
25. Change in manufacturers' unfilled orders, durable goods industries (M, IV).--Department of Commerce, Bureau of the Census
26. Buying policy--production materials, percent reporting commitments 60 days or longer (M, IV).--National Association of Purchasing Agents; no seasonal adjustment
- \*29. Index of new private housing units authorized by local building permits (M, III).--Department of Commerce, Bureau of the Census
- \*30. Nonagricultural placements, all industries (M, I).--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 (M, IV).--Department of Commerce, Office of Business Economics, and Bureau of the Census
32. Vendor performance, percent reporting slower deliveries (M, IV).--Chicago Purchasing Agents Association; no seasonal adjustment
33. Net change in mortgage debt held by financial institutions and life insurance companies (M, VI).--Institute of Life Insurance, Federal National Mortgage Association, National Association of Mutual Savings Banks, U.S. Savings and Loan League, and Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
37. Percent reporting higher inventories, purchased materials (M, IV).--National Association of Purchasing Agents; seasonal adjustment by Bureau of the Census
- \*38. Index of net business formation (M, III).--Dun and Bradstreet, Inc., and Department of Commerce, Bureau of the Census; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
39. Percent of consumer installment loans delinquent 30 days and over (EOM, VI).--American Bankers Association; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc. (Bimonthly since December 1964)
85. Percent change in total U.S. money supply (demand deposits plus currency) (M, VI).--Board of Governors of the Federal Reserve System
94. Index of construction contracts, total value (M, III).--F.W. Dodge Corporation
98. Percent change in total U.S. money supply (demand deposits and currency) and commercial bank time deposits (M, VI).--Board of Governors of the Federal Reserve System
110. Total funds raised by private nonfinancial borrowers in credit markets (Q, VI).--Board of Governors of the Federal Reserve System
112. Net change in bank loans to businesses (M, VI).--Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census
- \*113. Net change in consumer installment debt (M, VI).--Board of Governors of the Federal Reserve System
42. Total nonagricultural employment, labor force survey (M, I).--Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Bureau of the Census
- \*43. Unemployment rate, total (M, I).--Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Bureau of the Census
45. Average weekly insured unemployment rate, State programs (M, I).--Department of Labor, Bureau of Employment Security
46. Index of help-wanted advertising in newspapers (M, I).--National Industrial Conference Board
- \*47. Index of industrial production (M, II).--Board of Governors of the Federal Reserve System
49. Gross national product in current dollars (Q, II).--Department of Commerce, Office of Business Economics
- \*50. Gross national product in 1958 dollars (Q, II).--Department of Commerce, Office of Business Economics
- \*52. Personal income (M, II).--Department of Commerce, Office of Business Economics
53. Wage and salary income in mining, manufacturing, and construction (M, II).--Department of Commerce, Office of Business Economics
- \*54. Sales of retail stores (M, II).--Department of Commerce, Bureau of the Census
55. Index of wholesale prices, industrial commodities (M, V).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
57. Final sales (series 49 minus series 21) (Q, II).--Department of Commerce, Office of Business Economics
58. Index of wholesale prices, manufactured goods (M, V).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
93. Free reserves (member bank excess reserves minus borrowings) (M, VI).--Board of Governors of the Federal Reserve System; no seasonal adjustment
96. Manufacturers' unfilled orders, durable goods industries (EOM, III).--Department of Commerce, Bureau of the Census
97. Backlog of capital appropriations, manufacturing (EOQ, III).--National Industrial Conference Board; component industries are seasonally adjusted and added to obtain seasonally adjusted total
114. Discount rate on new issues of 91-day Treasury bills (M, VI).--Board of Governors of the Federal Reserve System; no seasonal adjustment
115. Yield on long-term Treasury bonds (M, VI).--Treasury Department; no seasonal adjustment
116. Yield on new issues of high-grade corporate bonds (M, VI).--First National City Bank of New York and Treasury Department; no seasonal adjustment
117. Yield on municipal bonds, 20-bond average (M, VI).--The Bond Buyer; no seasonal adjustment
301. Nonagricultural job openings unfilled (EOM, I).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
511. Man-hours in nonagricultural establishments, (M, I).--Department of Labor, Bureau of Labor Statistics
- \*816. Manufacturing and trade sales (M, II).--Department of Commerce, Office of Business Economics and Bureau of the Census

## 11 Lagging Indicators

- \*61. Business expenditures on new plant and equipment, total (Q, III).--Department of Commerce, Office of Business Economics, and the Securities and Exchange Commission

## 25 Roughly Coincident Indicators

40. Unemployment rate, married males, spouse present (M, I).--Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Bureau of the Census
- \*41. Number of employees in nonagricultural establishments (M, I).--Department of Labor, Bureau of Labor Statistics

Continued on reverse



## Titles and Sources of Principal Business Cycle Series and Diffusion Indexes--Continued

- \*62. Index of labor cost per unit of output, total manufacturing--ratio, index of compensation of employees in manufacturing (the sum of wages and salaries and supplements to wages and salaries) to index of industrial production, manufacturing (M,V).--Department of Commerce, Office of Business Economics, and the Board of Governors of the Federal Reserve System
65. Book value of manufacturers' inventories of finished goods, all manufacturing industries (EOM,IV).--Department of Commerce, Bureau of the Census
66. Consumer installment debt (EOM,VI).--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
- \*67. Bank rates on short-term business loans, 35 cities (Q,VI).--Board of Governors of the Federal Reserve System; no seasonal adjustment
68. Labor cost (current dollars) per unit of gross product (1958 dollars), nonfinancial corporations (ratio of current-dollar compensation of employees to gross corporate product in 1958 dollars) (Q,V).--Department of Commerce, Office of Business Economics, National Income Division
- \*71. Book value, manufacturing and trade inventories, total (EOM,IV).--Department of Commerce, Office of Business Economics and Bureau of the Census
- \*72. Commercial and industrial loans outstanding, weekly reporting large commercial banks (EOM,VI).--Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
118. Secondary market yields on FHA mortgages (M,VI).--Federal Housing Administration; no seasonal adjustment
- \*502. Unemployment rate, 15 weeks and over (M,I).--Department of Labor, Bureau of Labor Statistics
505. Manufacturers' machinery and equipment sales and business construction expenditures (industrial and commercial construction put in place) (M,III).--Department of Commerce, Bureau of the Census
88. Merchandise trade balance (series 86 minus series 87) (M,VII).--Department of Commerce, Bureau of the Census
89. Excess of receipts or payments in U.S. balance of payments (Q,VII).--Department of Commerce, Office of Business Economics
90. Defense Department obligations, procurement (M,VIII).--Department of Defense, Fiscal Analysis Division; seasonal adjustment by Bureau of the Census
91. Defense Department obligations, total (M,VIII).--Department of Defense, Fiscal Analysis Division; seasonal adjustment by Bureau of the Census
92. Military prime contract awards to U.S. business firms and institutions (M,VIII).--Department of Defense, Directorate for Statistical Services; seasonal adjustment by Bureau of the Census
95. Federal surplus or deficit, national income and product account (Q,VIII).--Department of Commerce, Office of Business Economics
99. New orders, defense products industries (M,VIII).--Department of Commerce, Bureau of the Census
101. Federal purchases of goods and services, national defense (Q,VIII).--Department of Commerce, Office of Business Economics
861. Manufacturers' new orders for export, durable goods except motor vehicles and parts (M,VI).--Department of Commerce, Bureau of the Census; no seasonal adjustment
862. Index of export orders for nonelectrical machinery (M,VII).--McGraw-Hill, Department of Economics; seasonal adjustment by Bureau of the Census

### 8 U.S. Series Under Consideration

850. Ratio, output to capacity, mfg. (Q).--Board of Governors of the Federal Reserve System, Department of Commerce, and McGraw-Hill Economics Department
851. Ratio, inventories (BCD series 71) to sales (BCD series 816), manufacturing and trade total (M).--Department of Commerce, Office of Business Economics
852. Ratio, unfilled orders (BCD series 96) to shipments, manufacturers' durable goods (M).--Department of Commerce, Bureau of the Census
853. Ratio, production of business equipment to production of consumer goods (index: 1957-59 = 100) (M).--Board of Governors of the Federal Reserve System. (Based upon components of the Federal Reserve index of industrial production.)
854. Ratio, personal saving to disposable personal income (Q).--Department of Commerce, Office of Business Economics
855. Ratio, nonagricultural job openings unfilled (BCD series 301) to number of persons unemployed (M).--Department of Labor, Bureau of Employment Security and Bureau of Labor Statistics; and Department of Commerce, Bureau of the Census

856. Ratio, average hourly earnings of production workers in manufacturing to consumer prices (BCD series 81) (M).--Department of Labor, Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census
857. Vacancy rate in rental housing--unoccupied rental housing units as a percent of total rental housing (Q).--Department of Commerce, Bureau of the Census.

### 7 International Comparisons

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).--Central Statistical Office (London)
123. Canada, index of industrial production (M).--Dominion Bureau of Statistics (Ottawa)
125. West Germany, index of industrial production (M).--Statistisches Bundesamt (Wiesbaden); seasonally adjusted by OECD
126. France, index of industrial production (M).--Institut National de la Statistique et des Etudes Economiques (Paris)
127. Italy, index of industrial production (M).--Istituto Centrale di Statistica (Rome)
128. Japan, index of industrial production (M).--Ministry of International Trade and Industry (Tokyo)
- ... United States, index of industrial production (M,II).--See series 47

### 16 Other Selected U.S. Series

81. Index of consumer prices (M,V).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
82. Federal cash payments to the public (Q,VIII).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget
83. Federal cash receipts from the public (Q,VIII).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget
84. Federal cash surplus or deficit (Q,VIII).--Treasury Department, Bureau of Accounts, and Executive Office of the President, Bureau of the Budget
86. Exports, excluding military aid shipments, total (M,VII).--Department of Commerce, Bureau of the Census
87. General imports, total (M,VII).--Department of Commerce, Bureau of the Census

### 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, D58, and D61. Sources for other diffusion indexes are as follows:

- D34. Profits, manufacturing, FNCB (Q).--First National City Bank of New York; no seasonal adjustment of series components. Diffusion indexes are seasonally adjusted by Bureau of the Census and 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