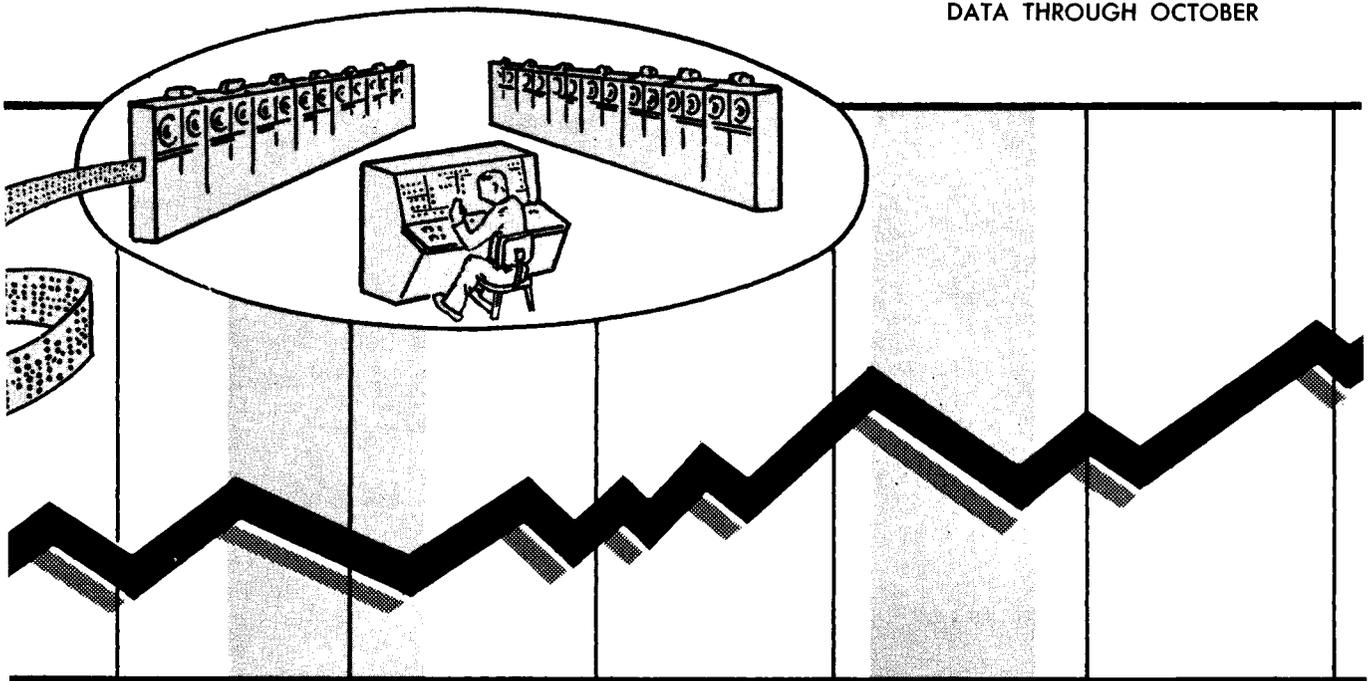


NOVEMBER 1964

Business Cycle Developments

DATA THROUGH OCTOBER



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

Business Cycle Developments

NOVEMBER 1964

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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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Preface

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

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

About 87 principal indicators and over 300 components are included in preparing the report. The movements of the series are shown against the background of the expansions and contractions of the general business cycle so that "leads" and "lags" can be readily detected and unusual cyclical developments spotted. The exact number of series included for the total and important classes of series may vary from month to month because of additions of new series and revisions in the composition of indexes. Almost all of the basic data are available in published reports. A complete list of the series and the sources of data is shown on the back cover of this report. Series are seasonally adjusted except those that do not appear to contain seasonal movement.

The chief merits of this report are the speed with which the data for indicators are collected, assembled, and published and the arrangement of the series for business cycle studies. Electronic computers are used for many of the computations, thus making early publication possible. Publication is scheduled for around the 22d of the month following the month of data.

New Features and Changes for This Issue

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

1. The two series on capital appropriations for manufacturing corporations have been revised by the source agency (see series 11, newly approved, and series 97, backlog). The third quarter 1964 figure for series 11 is based upon estimates, made by the companies, of projects to be submitted for authorization.

Revised data for series 11 for the period 1961 to date were presented in the September 1964 issue; in the current issue, the revised data for the period prior to 1961 are shown in chart 1 and appendix F. Revised data for series 97 are shown in appendix F through 1960 and in chart 1 and table 2 through 1961. Data for the period after 1961 will be published in a subsequent issue.

The revised series are based on a sample which has been corrected for changes in survey participation. The new sample originated in the first quarter of 1961; approximately a tenth of the former panel of 602 companies has been replaced by newly reporting companies. This revision causes no significant differences either in the levels or in the behavior of the totals produced by the old and new panels.

All survey data from 1953 to the present are projected to the levels for the sampling population—the 1,000 largest manufacturing companies in 1957. These adjustments are based upon the relationship of total assets of the companies in the industry's sample. The resulting estimates are more representative of the true weight of each industry in its aggregates (durable goods or nondurable goods and "all" manufacturing) than when response rate determined the weights of each industry, as formerly was the case. All aggregate data are the sums of the individual industry estimates.

The revised panel accounts for approximately four-fifths of the total assets of the 1,000 largest manufacturing companies. This sampling population, in turn, accounts for slightly less than three-fourths of the total assets of all manufacturing corporations. These series relate only to capital investments in the United States, its territories and possessions. (Description provided by the National Industrial Conference Board.)

2. Series 111, gross retained earnings of non-financial corporations, formerly computed on a tax payments basis, has been recomputed by the source agency on a tax accrual basis. This revision is reflected in chart 1, tables 1 and 2, and appendix F.

3. A data bank of IBM punch cards containing data for most BCD series, series components, and diffusion indexes is maintained at the Bureau of the Census and can be made available at cost. For fuller description of this service, see "Data Bank of Business Cycle Indicators," page iv.

4. Appendix F includes data for series 11, 97, 111, and 48; and actual and anticipated diffusion indexes for series D35, D36, D48, and D61.

The December issue of Business Cycle Developments is scheduled for release on December 23, 1964.

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Data Bank of Business Cycle Indicators

A punch card file containing data for the business cycle indicators included in table 2, the diffusion indexes in tables 4 and 5, and the component series (listed in table 6) used to compute 14 of the diffusion indexes in table 4, is maintained at the Bureau of the Census. Duplicate cards for 85 of the 87 indicators, the 30 diffusion indexes, and 145 of the component series are available at cost. (The other series can be obtained only from the sponsoring agencies.) The cost for these cards ranges from \$58 for 500 cards to \$137 for 5,000 cards. One card is required per series year. Thus, for the 85 principal indicators, from 1948 to date, the cost would be about \$70. For these principal indicators plus the 30 diffusion indexes and 145 component series, the cost would be about \$135 for the same period.

At present, the Bureau of the Census cannot keep customers' files current. However, the figures required for this purpose are published in Business Cycle Developments each month.

BCD Technical Papers

To aid users of Business Cycle Developments, technical papers dealing with the statistical adjustments and series used in BCD will be included in this report from time to time. A limited number of copies of these articles are available, free of charge. The following papers have been included as part of this program:

- No. 1.—Summary Description of the X-9 and X-10 Versions of the Census Method II Seasonal Adjustment Program (published as appendix E in the September 1963 issue). A new version of this program is scheduled to be released early next year. Announcement will be made at that time.
- No. 2.—Business Cycle Indicators—The Known and the Unknown by Julius Shiskin (published as appendix H in the September 1963 issue).
- No. 3.—Census Trading-Day Adjustment Method by Allan H. Young (published in May 1964 issue).
- No. 4.—Eight Series on Manufacturers' Orders and Inventories: Descriptions and Procedures by John Musgrave and John Kuntz (published in July 1964 issue).
- No. 5.—Series 54, Sales of Retail Stores: Descriptions and Procedures by Max Shor and Allan Young (published in September 1964 issue).

Please send requests for the material described above to Julius Shiskin, Chief Economic Statistician, Bureau of the Census, Washington, D.C. 20233.

Descriptions and Procedures

Business Cycle Series

Intensive research over many years has provided a record of the typical sequence of changes in economic processes during a business cycle; more specifically, a list of significant series that usually lead, those that usually move with, and those that usually lag behind cyclical movements in aggregate economic activity. The series have been grouped, in accordance with the NBER classification, as "leading," "roughly coincident," or "lagging" indicators. In addition, other series are included in this report for a more complete coverage of the national economy. The series are described as follows:

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

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

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

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

Method of Presentation

Data are shown in this report in three general categories, as follows:

Basic data (chart 1 and tables 1 and 2).—Over 50 business cycle indicators and about 30 additional series with business cycle significance are included. Together they provide a broad view of current and prospective business cycle fluctuations in the economy as well as the basis for making an economic interpretation of these fluctuations.

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

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

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

Designation of Business Cycle Turning Points

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

Seasonal and Related Statistical Adjustments

Official seasonally adjusted data are used in this report wherever they are available. However, for the special purposes of business cycle studies, a number of series that are not ordinarily published in seasonally adjusted form are shown on a seasonally adjusted basis in this report. These series are as follows: 4, 5, 9, 10, 11, 13, 14, 15, 17, 18, 30, 37, 55, 62, 81, 82, 83, 84, 90, 91, 92, 97, 112, and 128. Seasonal adjustments for these series were developed by either the NBER or the Bureau of the Census using Method II. The adjustment factors are shown in appendix table D, except for series 11 and 97 which are the sums of seasonally adjusted components, and series 9 and 10 which are based on

unpublished source data. Seasonally adjusted data prepared by the collecting agency will be substituted for the series mentioned above whenever they are published.

Method II adjusts for changes in average climatic conditions and institutional arrangements during the year. Adjustments for variations in the number of trading days are also made for some series; for example, new building permits. Further adjustments for variable holidays, such as Easter, are made for certain series; for example, retail sales of apparel. Studies are now underway to determine whether similar adjustments for Labor Day, Thanksgiving Day, and the day of the week upon which Christmas falls would be useful.

Studies of the effects of unusual weather upon some series have also been started. It is important to note, however, that present methods adjust for average weather conditions and not for the dispersion about this average; that is, present methods are designed to adjust for normal but not abnormal weather at any time of the year. For this reason, many seasonally adjusted series, such as housing starts, will tend to be low in months when the weather is unusually bad and high in months when the weather is unusually good. While it eventually may be possible, Census methods do not at present make any adjustments for such variations.

MCD Moving Averages

MCD (months for cyclical dominance) is an estimate of the appropriate span over which to observe the cyclical movements in a monthly series. This span is usually longer than a single month because month-to-month changes are often dominated by erratic movements, but shorter than the frequently used 12-month span (change from the same month a year ago), and is different for different series (see appendix C for MCD values and method of computation).

MCD is, on average, the first interval of months for which the average amplitude of the cyclical factor is greater than that of the irregular factor and remains so. It is small for smooth series and large for irregular series. The differences between moving averages of the period equal to MCD are commensurate with the differences between seasonally adjusted values separated by the same MCD span; thus, the month-to-month differences in a 3-month moving average are commensurate with differences in seasonally adjusted values over 3-month spans. MCD moving averages all have about the same degree of smoothness. Consequently, MCD moving averages of highly irregular series, such as business failures and Federal cash payments, will show their cyclical movements about as clearly as the seasonally adjusted data for such smooth series as industrial production and personal income.

MCD moving averages are shown in chart 1 for all series with an MCD of "5" or more. To provide an indication of the variation about these moving averages, seasonally adjusted data are also plotted for years beginning with 1958. Although not so smooth as more powerful moving averages such as

the weighted 15-term Spencer curve, the MCI curve is more current and has a smaller rounding bias around business cycle peaks and troughs. Or balance, the MCD curve seems to offer a reasonable compromise in terms of currency, smoothness, and fidelity to the patterns of business cycle fluctuations.

Because of advance reporting and preliminary seasonal factors, the MCD's for current data are usually larger than those computed from historical series and shown in appendix C. MCD is usually computed for a fairly long period, one covering both expansions and contractions.¹ Since the pace of change varies from phase to phase of the business cycle, such a measure will not provide an accurate estimate of the span over which to estimate cyclically significant changes at all times. Thus MCD computed for the period 1953-63 is likely to be too high during the early stages of recovery when expansion has usually been rapid and too low during the late stages of expansion when the rate of advance has usually been small. This limitation should also be borne in mind when making use of this measure.²

Analytical Measures of Current Change

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

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

The diffusion indexes in this report are grouped according to the timing classification of the NBER. For monthly series, comparisons are made over 1-month intervals (January-February, February-March, etc.) and generally for either 6- or 9-month intervals depending upon the irregularity of the

¹Various terms are used to describe the phase of the business cycle. In this report both "contraction" and "recession" are used to describe the declining phase. No difference in meaning is intended.

²For a more complete description of MCD and its use in studying economic series, see *Business Cycle Indicators*, Geoffrey H. Moore, editor; National Bureau of Economic Research, Inc., vol. 1, ch. 18, "Statistics for Short-Term Economic Forecasting," by Julius Shiskin (Princeton University Press: 1961).

series. The indexes based on 1-month intervals are more "current" but they are also more irregular than the 6- or 9-month indexes (see chart 2). Quarterly series are compared over 1-quarter intervals, 3-quarter intervals, and 4-quarter intervals. (See charts 2 and 3.)

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

This report includes 29 diffusion indexes based on 15 indicator series (see tables 4 and 5). Eighteen of these indexes are computed by the Bureau of the Census utilizing nearly 300 components of 9 indicators (D1, D5, D6, D19, D23, D41, D47, D54, and D58). Indexes for these indicators show comparisons for components over 1-month and either 3- or 9-month spans. The 11 other diffusion indexes are based on 7 indicators closely related to the above 9 indicators. They include two National Industrial Conference Board indexes (1- and 3-quarter spans) based on newly approved capital appropriations (17 industries); the First National City Bank of New York index based on quarterly profit reports (700 companies); and 8 NBER diffusion indexes—actual and anticipated—for the following: Manufacturers' sales (800 companies) and new orders (400 companies), based on data from Dun and Bradstreet, Inc.; carloadings (19 commodity groups), based on data from the Association of American Railroads; and new plant and equipment expenditures (16 industries), based on data from the Office of Business Economics and the Securities and Exchange Commission.

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

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

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

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

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

The letter "H" is used in the basic data table (table 2) to identify and highlight the current high values during the expansion, and the letter "L" to identify the low values preceding the current highs. The highs designated during the current cyclical phase will not necessarily be the specific cycle peaks. Thus, as new high levels are reached during the expansion, the current highs will be moved ahead. On the other hand, lows preceding current highs are usually specific cycle troughs. Comparisons of the current timing distributions with those for periods around earlier business cycle troughs and peaks are helpful for appraising the evidence of a prospective business cycle turning point.

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

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

Directions of change for each index component are shown for consecutive months and, depending upon the irregularity of the series, for either 6- or 9-month spans.

Comparisons of Cyclical Patterns

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

Expansions may be compared by measuring changes from the immediately preceding peak levels. In table 7 of this report, the current expansion is measured from the May 1960 reference peak to the month of latest reported data. For earlier expansions, percentage changes are computed from their respective reference peaks to dates which are the same number of months beyond the succeeding reference troughs as the current expansion is beyond its reference trough. This type of comparison is designated as representing changes computed from reference peak levels and from reference trough dates. Although the spans from reference trough dates are the same number of months for each expansion, the spans from the preceding peak dates are different, depending on the length of the contractions for each period. Also, for those earlier periods of expansion that were shorter than the current one, the comparisons made in table 7 reflect the status at a point after a new contraction had set in. This type of comparison answers the question whether, and by how much, the current level of activity exceeds or falls short of the level at the preceding business cycle peak, a given number of months after the recovery began, and how the current situation compares, in this respect, with earlier expansions.

Expansions also may be compared by computing changes from reference trough levels and from reference trough dates (table 8). This type of comparison measures the extent of the rise from the trough level so many months after the upswing began. The same situation exists here as for the comparisons shown in table 7: For earlier expansions that were shorter than the current one, the comparisons show the status at a point after a new contraction had set in.

Contractions can be compared by computing changes over the span from the most recent business cycle peak to the current month and over equal spans from previous reference peaks. This type of comparison is designated as representing changes from reference peak levels and from reference peak dates. These comparisons will be made during a contraction period.

In addition to comparing cyclical fluctuations on the basis of reference dates (which are the same for all series), comparisons are made on the basis of specific peak and trough dates identified for each series. For example, the specific peak in retail sales corresponding to the May 1960 reference peak is April 1960; the specific peak in stock prices is July 1959 (See appendix B). Specific cycle comparisons are shown in table 9. These comparisons differ from those shown for reference cycles in that they show the status only up to the specific peak date. For some series past specific expansions were shorter than the current one and, therefore, the earlier comparisons span fewer months than those for the current expansion.

In order to make historical comparisons, it is frequently necessary to use data for a closely related series for cycles prior to the initial date covered by the series used currently. Such comparisons are, therefore, to be considered only approximate. Nearly all series have undergone change in definition, coverage, or estimation pro-

cedure since 1919. The principal cases of this sort are as follows:

7. New private nonfarm dwelling units started (prior to 1939: Residential building contracts, floor space)
41. Number of employees in nonagricultural establishments (prior to 1929: Employment in manufacturing)
52. Personal income (prior to 1929: Quarterly data as published by Barger and Klein)
54. Sales of retail stores (prior to 1935: Department store sales)
62. Index of labor cost per unit of output, total manufacturing (prior to 1946: Production worker wage cost per unit).

Charts

Two types of charts are used to highlight the cyclical patterns of the business cycle indicators: Historical time series and cyclical comparisons.

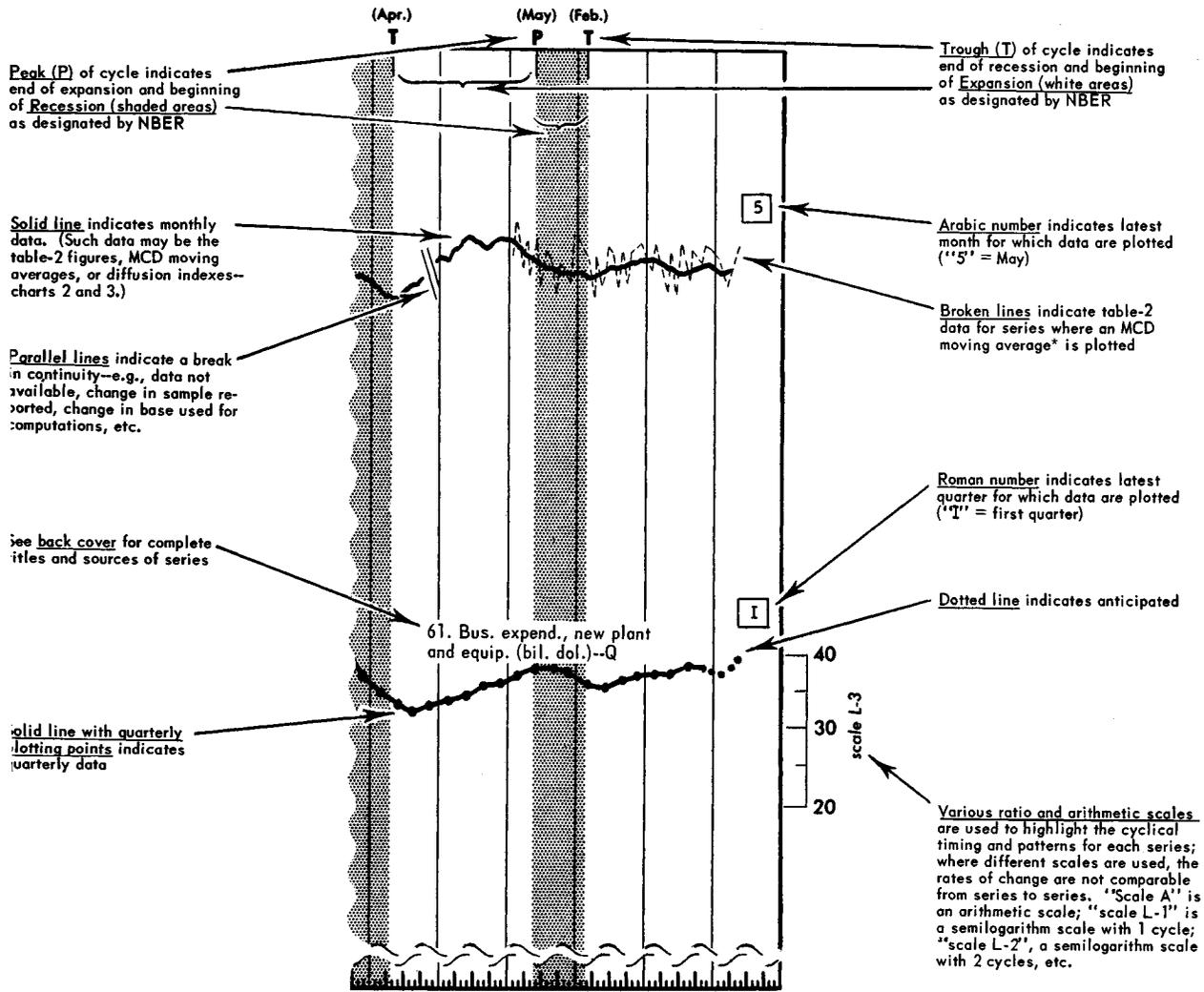
Historical Time Series (charts 1, 2, and 3).—These charts show the cyclical fluctuations of each series against the background of expansions and recessions in general business activity from 1948 to the current month. Shaded areas on the charts indicate periods of business cycle recession between business cycle peak dates (beginnings of shaded areas) and business cycle trough dates (ends of shaded areas). The shading for a new recession will be entered only after a trough has been designated.

Several different ratio and arithmetic scales are used to highlight the cyclical movements of the various series. The scale selected for each series is identified in the margin of the chart. Rates of change of various series can be compared with each other only where scales are identical. See the diagram, page 5, for additional help in using these charts.

Cyclical Comparisons (charts 4 and 5).—These charts compare the performance of each series during the current expansion with its performance during the expansion phase of previous business cycles. The usual date sequence followed in chart is disregarded, and instead the data are aligned at the strategic point of the business cycle: For expansions, the reference trough (chart 4) and specific trough (chart 5). Thus these charts facilitate judgements on the vigor of the current expansion relative to cyclical movements during the corresponding expansions of previous cycles.

Two types of cyclical comparisons are made. Chart 4 compares the pattern of the current business or reference cycle (i.e., the cycle for aggregate economic activity) with movements over the corresponding phase of previous reference cycles. Chart 5 compares the pattern of the current specific cycle (i.e., the cycle for a particular series) with the movements over the corresponding phase of previous specific cycles in that series. In both charts, the trough dates are aligned. In chart 4, the levels of the preceding peaks are also aligned and in chart 5, the levels of the preceding troughs are also aligned. See the section, "Comparisons of Cyclical Patterns", for more detailed description of these comparisons.

How to Read Charts 1, 2, and 3



*Certain irregular series are shown in terms of their MCD moving averages. These series are noted. Such averages are plotted 2 months behind actual data for MCD 5-term moving averages and 2½ months behind, for MCD 6-term moving averages. See text for description of MCD moving averages.

Table 1.--BASIC DATA AND CURRENT CHANGES FOR BUSINESS CYCLE SERIES: 4 MOST RECENT MONTHS

Series descriptions (See complete titles and sources on back cover)	Basic data ¹				Percent change ²				
	Unit of measure	July 1964	Aug. 1964	Sept. 1964	Oct. 1964	Avg. change, 1953- 1963 ³	July to Aug. 1964	Aug. to Sept. 1964	Sept. to Oct. 1964
NBER LEADING INDICATORS									
1. Avg. workweek, prod. workers, mfg...	Hours.....	40.6	40.7	40.6	p40.6	0.5	+0.2	-0.2	0.0
2. Accession rate, manufacturing.....	Per 100 empl.	4.1	r3.9	p3.6	(NA)	4.9	-4.9	-7.7	(NA)
30. Nonagri. placements, all industries.	Thous.....	523	499	514	514	1.8	-4.6	+3.0	0.0
3. Layoff rate, manufacturing.....	Per 100 empl.	2.0	r1.5	p1.5	(NA)	9.5	+25.0	0.0	(NA)
4. Temporary layoff, all industries....	Thous.....	129	87	127	92	17.8	+32.6	-46.0	+27.6
5. Avg. weekly initial claims, State unemployment insurance.....	..do.....	261	240	241	248	5.3	+8.0	-0.4	-2.9
6. New orders, durable goods indus....	Bil. dol....	21.25	r19.34	r19.91	p19.00	3.8	-9.0	+2.9	-4.6
24. New orders, mach. and equip. indus..	..do.....	3.77	r3.77	r3.68	p3.78	4.5	0.0	-2.4	+2.7
9. Construction contracts, commercial and industrial.	Mil. sq. ft. floor space.	53.55	46.30	50.40	(NA)	9.7	-13.5	+8.9	(NA)
10. Contracts and orders, plant, equip..	Bil. dol....	4.50	r4.51	p4.52	(NA)	4.9	+0.2	+0.2	(NA)
11. New capital appropriations, mfg. ⁴...	..do.....	...	e5.53			11.6	+13.6		
7. Private nonfarm housing starts.....	Ann. rate, thous.....	1483	r1408	r1441	p1569	7.3	-5.1	+2.3	+8.9
29. New bldg. permits, private housing..	1957-59=100..	109.6	113.0	r107.8	p109.0	3.8	+3.1	-4.6	+1.1
12. Net change, number of businesses ⁴⁻⁵ .	Thous.....	...	+16			2	-1		
13. New business incorporations.....	Number.....	15852	16074	16715	(NA)	2.7	+1.4	+4.0	(NA)
14. Liabilities of business failures....	Mil. dol....	151.92	76.20	125.89	101.92	16.9	+49.8	-65.2	+19.0
15. Large business failures.....	No. per week.	43	40	42	42	13.1	+7.0	-5.0	0.0
16. Corporate profits after taxes ⁴	Ann. rate, bil. dol....	...	32.0			6.3	+0.3		
17. Ratio, price to unit labor cost, mfg..	1957-59=100..	103.5	103.6	r103.4	p102.4	0.7	+0.1	-0.2	-1.0
18. Profits per dol. of sales, mfg. ⁴	Cents.....	...	(NA)			6.8	(NA)		
22. Ratio, profits to income originat- ing, corporate, all industries ⁴	Percent.....	...	10.4			5.1	-1.0		
19. Stock prices, 500 common stocks*....	1941-43=10...	83.22	82.00	83.41	84.85	2.6	-1.5	+1.7	+1.1
21. Change in business inventories, all industries ⁴⁻⁵	Ann. rate, bil. dol....	...	r+2.8			2.5	-0.9		
31. Change in book value, manufacturing and trade inventories ⁵.....	..do.....	+0.2	r+1.0	p+5.4	(NA)	3.5	+0.8	+4.4	(NA)
20. Change in book value, mfrs.' inven- tories of materials and supplies ⁵..	..do.....	-1.6	r+1.3	p+1.4	(NA)	1.5	+2.9	+0.1	(NA)
37. Purchased materials, percent report- ing higher inventories.....	Percent.....	58	57	60	56	6.8	-1.7	+5.3	-6.1
26. Buying policy, prod. mtl's., commit- ments 60 days or longer*.....	..do.....	58	58	61	60	5.8	0.0	+5.2	-1.1
32. Vendor performance, percent report- ing slower deliveries*.....	..do.....	59	65	74	72	7.7	+10.2	+13.8	-2.1
25. Change in unfilled orders, durable goods industries ⁵	Bil. dol....	+1.26	r+0.06	r+0.79	p+0.71	0.49	-1.20	+0.73	-0.0
23. Industrial materials prices*.....	1957-59=100..	102.5	105.7	108.2	112.0	1.3	+3.1	+2.4	+3.1
NBER ROUGHLY COINCIDENT INDICATORS									
41. Employees in nonagri. establishments.	Thous.....	58912	r58955	r59049	p58983	0.3	+0.1	+0.2	-0.1
42. Total nonagricultural employment....	..do.....	65706	65678	65534	65580	0.4	0.0	-0.2	+0.1
43. Unemployment rate, total.....	Percent.....	4.9	5.1	5.2	5.2	4.2	-4.1	-2.0	0.0
40. Unemployment rate, married males....	..do.....	2.7	2.6	2.9	2.8	6.0	+3.7	-11.5	+3.1
45. Avg. weekly insured unemploy, State.	..do.....	3.6	3.5	3.4	3.4	4.8	+2.8	+2.9	0.0
46. Help-wanted advertising.....	1957-59=100..	124	123	126	p127	3.1	-0.8	+2.4	+0.1
47. Industrial production.....	..do.....	132.9	r133.8	r134.0	p131.7	1.1	+0.7	+0.1	-1.1
50. GNP in 1954 dollars ⁴	Ann. rate, bil. dol....	...	r519.6			1.3	+1.2		
49. GNP in current dollars ⁴.....	..do.....	...	r628.4			1.5	+1.6		
57. Final sales ⁴.....	..do.....	...	r625.7			1.3	+1.8		
51. Bank debits outside NYC.....	..do.....	2430.2	2372.5	r2424.8	p2454.2	1.5	-2.4	+2.2	+1.1
52. Personal income.....	..do.....	491.4	494.9	r497.9	p498.6	0.5	+0.7	+0.6	+0.1
53. Labor income in mining, mfg., constr..	..do.....	126.9	127.9	r129.2	p128.0	0.8	+0.8	+1.0	-0.1
54. Sales of retail stores.....	Mil. dol....	r21935	r22266	r22175	p21536	0.8	+1.5	-0.4	-2.1
55. Wholesale prices, except farm prod- ucts and foods.....	1957-59=100..	101.2	101.2	101.2	p101.4	0.2	0.0	0.0	+0.1

Table 1.--BASIC DATA AND CURRENT CHANGES FOR BUSINESS CYCLE SERIES: 4 MOST RECENT MONTHS--Continued

Series descriptions (See complete titles and sources on back cover)	Basic data ¹					Percent change ²			
	Unit of measure	July 1964	Aug. 1964	Sept. 1964	Oct. 1964	Avg. change, 1953- 1963 ³	July to Aug. 1964	Aug. to Sept. 1964	Sept. to Oct. 1964
NBER LAGGING INDICATORS									
61. Business expenditures, new plant and equipment ⁴	Ann. rate, bil. dol....	...	a44.55			3.2	+2.4		
62. Labor cost per unit of output, mfg.. 1957-59=100..		97.7	97.5	r98.3	p98.9	0.6	-0.2	+0.8	+0.6
68. Labor cost per dollar of real cor- porate GNP ⁴.....	..do.....	...	105.4			0.9	+0.5		
64. Book value of mfrs.' inventories....	Bil. dol....	60.5	r60.8	p60.9	(NA)	0.5	+0.5	+0.2	(NA)
65. Book value of mfrs.' inventories of finished goods.....	..do.....	21.6	r21.6	p21.6	(NA)	0.8	0.0	0.0	(NA)
66. Consumer installment debt.....	Mil. dol....	56073	56508	57021	(NA)	0.8	+0.8	+0.9	(NA)
67. Bank rates on short-term business loans* ⁴	Percent.....	...	4.98			2.3	-0.2		
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE									
82. Federal cash payments to public....	Ann. rate, bil. dol....	126.9	117.1	124.1	119.3	5.7	-7.7	+6.0	-3.9
83. Federal cash receipts from public...	..do.....	116.4	110.0	114.1	113.1	5.4	-5.5	+3.7	-0.9
84. Federal cash surplus or deficit ⁵....	..do.....	-10.5	-7.1	-10.0	-6.2	5.6	+3.4	-2.9	+3.8
95. Balance, Federal income and product account ⁴ ⁵.....	..do.....	...	p-5.2			2.5	+2.6		
90. Defense Dept. oblig., procurement...	Mil. dol....	1691	716	1165	(NA)	26.9	-57.7	+62.7	(NA)
91. Defense Dept. obligations, total....	..do.....	5274	4147	4472	(NA)	15.1	-21.4	+7.8	(NA)
92. Military contract awards in U.S....	..do.....	3016	1915	2291	(NA)	26.2	-36.5	+19.6	(NA)
99. New orders, defense products.....	Bil. dol....	3.29	r1.86	r2.00	p2.10	23.0	-43.5	+7.5	+5.0
93. Free reserves* ⁵	Mil. dol....	+132	+79	+90	p+103	104.2	-53	+11	+13
85. Change in money supply ⁵	Percent.....	+0.71	+0.32	+0.51	p+0.38	0.23	-0.39	+0.19	-0.13
98. Change in money supply and time de- posits ⁵.....	..do.....	+0.73	+0.62	+0.68	p+0.72	0.21	-0.11	+0.06	+0.04
10. Total private borrowing ⁴	Ann. rate, bil. dol....	...	55324			11.6	-13.4		
11. Corporate gross savings ⁴.....	..do.....	...	r44676			8.6	+1.2		
12. Change, business loans ⁵.....	..do.....	+3.84	+4.75	+5.24	+1.91	1.22	+0.91	+0.49	-3.33
13. Change, consumer installment debt ⁵..	..do.....	+5.80	+5.22	+6.16	(NA)	0.85	-0.58	+0.94	(NA)
14. Treasury bill rate*.....	Percent.....	3.48	3.51	3.53	3.58	7.3	+0.9	+0.6	+1.4
15. Treasury bond yields*.....	..do.....	4.13	4.14	4.16	4.16	1.8	+0.2	+0.5	0.0
16. Corporate bond yields*.....	..do.....	4.43	4.43	4.49	4.49	1.7	0.0	+1.4	0.0
17. Municipal bond yields*.....	..do.....	3.18	3.19	3.23	3.25	2.6	+0.3	+1.3	+0.6
18. Mortgage yields*.....	..do.....	5.46	5.46	5.46	5.45	0.58	0.0	0.0	-0.2
86. Exports, excluding military aid....	Mil. dol....	2111.4	2084.9	2271.2	(NA)	4.6	-1.3	+8.9	(NA)
87. General imports.....	..do.....	1589.6	1592.2	1557.5	(NA)	3.6	+0.2	-2.2	(NA)
88. Merchandise trade balance ⁵.....	..do.....	+521.8	+492.7	+713.7	(NA)	59.0	-29.1	+221.0	(NA)
89. U.S. balance of payments ⁴ ⁵.....	..do.....	...	p-565			286	+168		
81. Consumer prices.....	1957-59=100..	108.1	108.2	108.2	(NA)	0.2	+0.1	0.0	(NA)
94. Construction contracts, value.....	..do.....	140	121	131	(NA)	7.0	-13.6	+8.3	(NA)
96. Unfilled orders, dur. goods indus...	Bil. dol....	51.30	r51.37	r52.16	p52.86	1.5	+0.1	+1.5	+1.3
97. Backlog of capital appro. mfg. ⁶.....	..do.....	...	...	(NA)		5.9	...	(NA)	

r = revised; p = preliminary; e = estimated; a = anticipated; NA = not available.

¹Series are seasonally adjusted except for those series, indicated by an asterisk (*), that appear to contain no seasonal movement. See additional basic data and notes in table 2.

²To facilitate interpretations of cyclical movements, those series that usually fall when general business activity rises and rise when business falls are inverted so that rises are shown as declines and declines as rises (see series 3, 4, 5, 14, 15, 40, 43, and 45). Percent changes are calculated in the usual way but the signs are reversed; e.g., if the rate of decrease is 0.6 percent, it is shown as +0.6. See footnote 5 for other "change" qualifications.

³This average is based on month-to-month (or quarter-to-quarter) changes without regard to sign. The period varies among the series, covering 1953-63 for most series.

⁴Quarterly series. Figures are placed in the middle month of quarter.

⁵Since 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 percent.

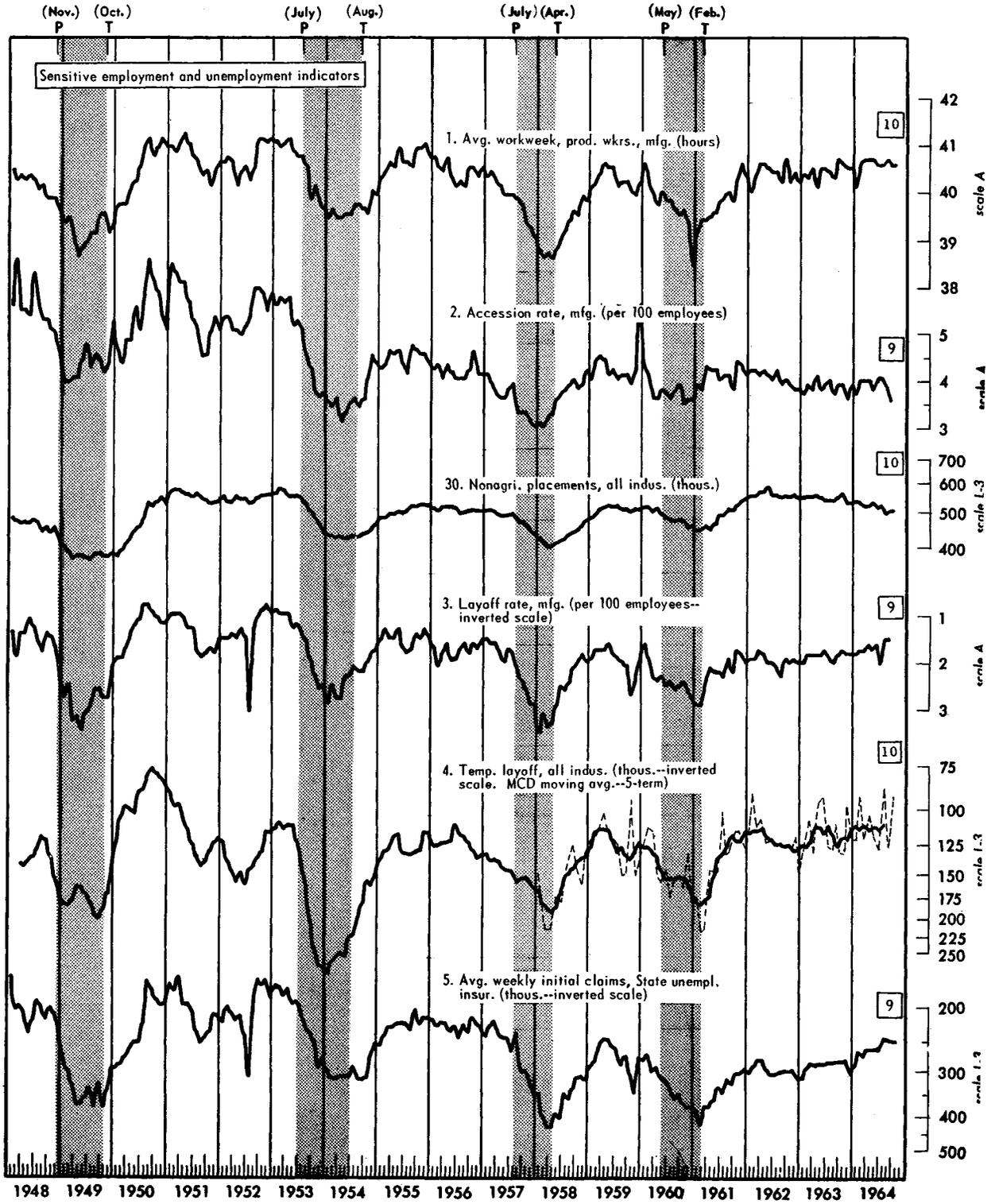
⁶End-of-quarter series. Figures are placed in the last month of quarter.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT

A

NBER Leading Indicators



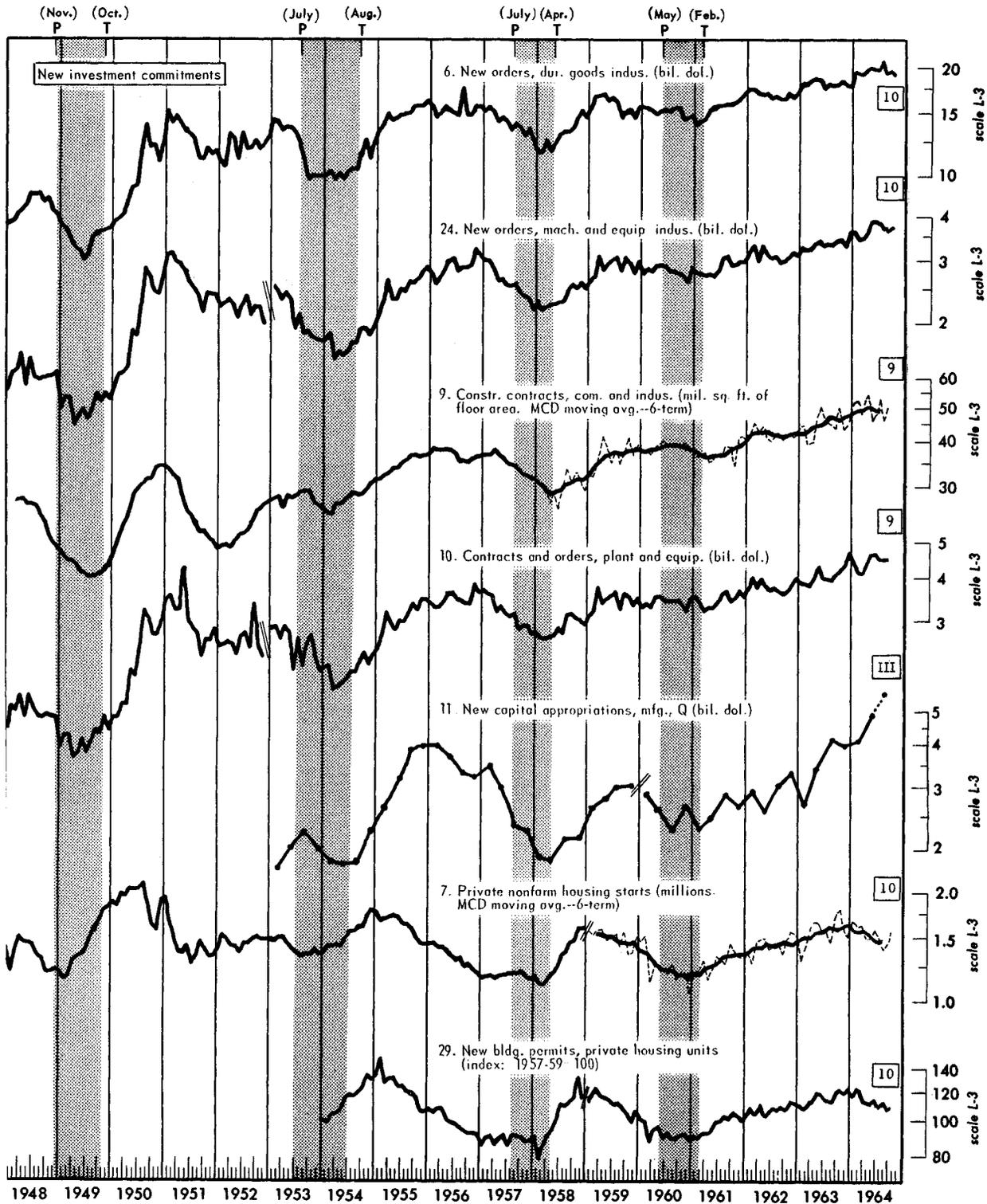
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

A

NBER Leading Indicators—Con.



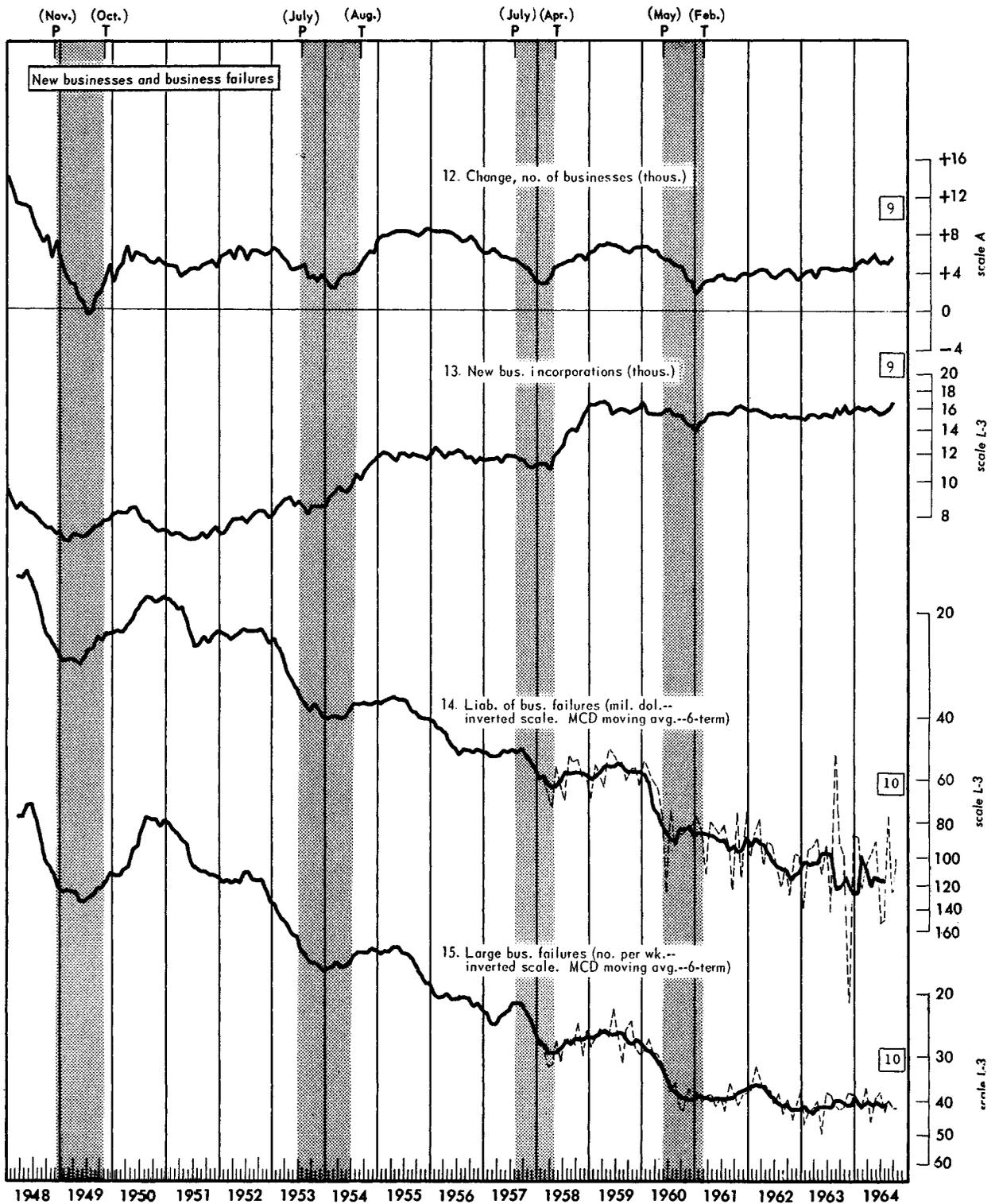
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

A

NBER Leading Indicators—Con.



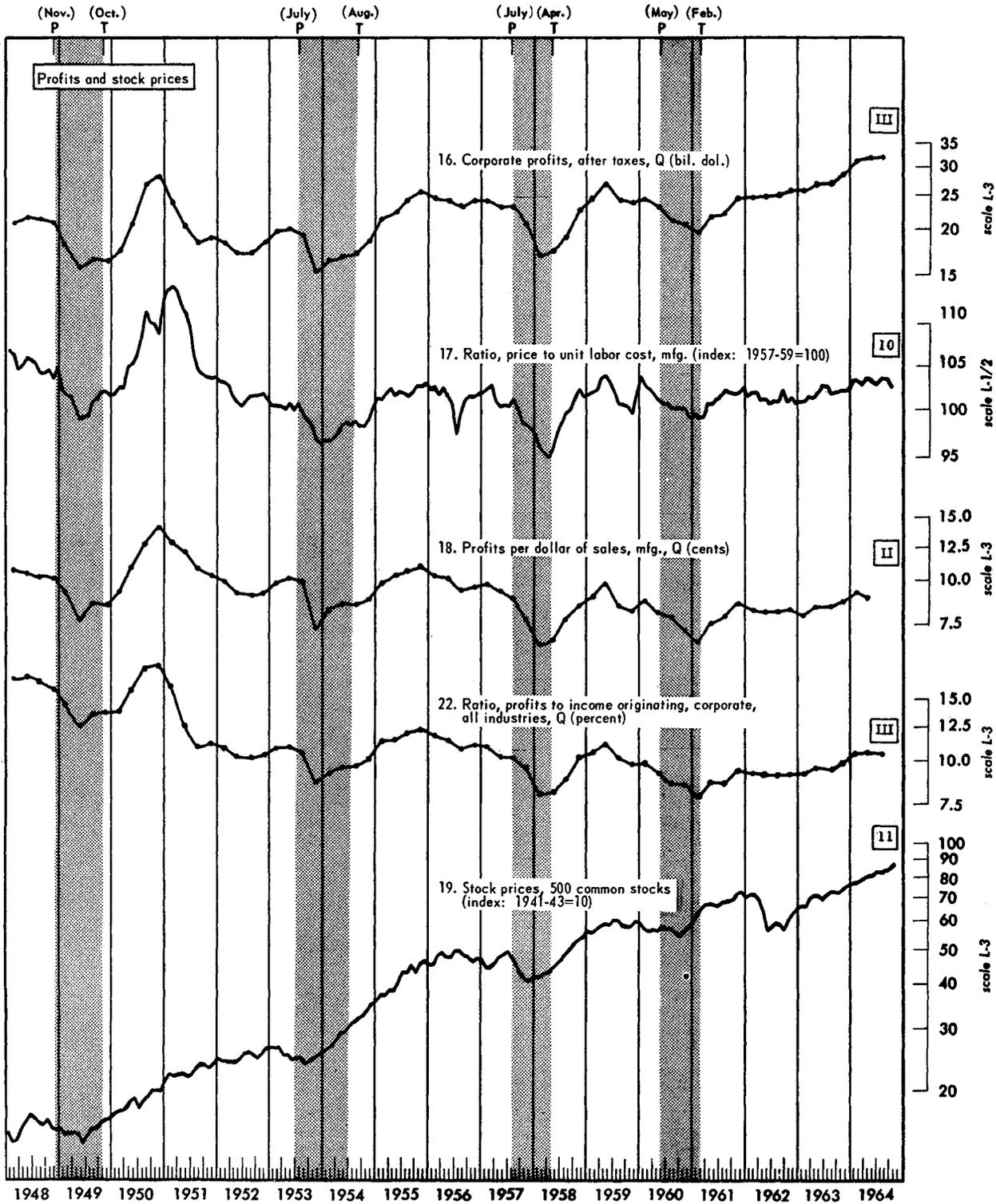
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

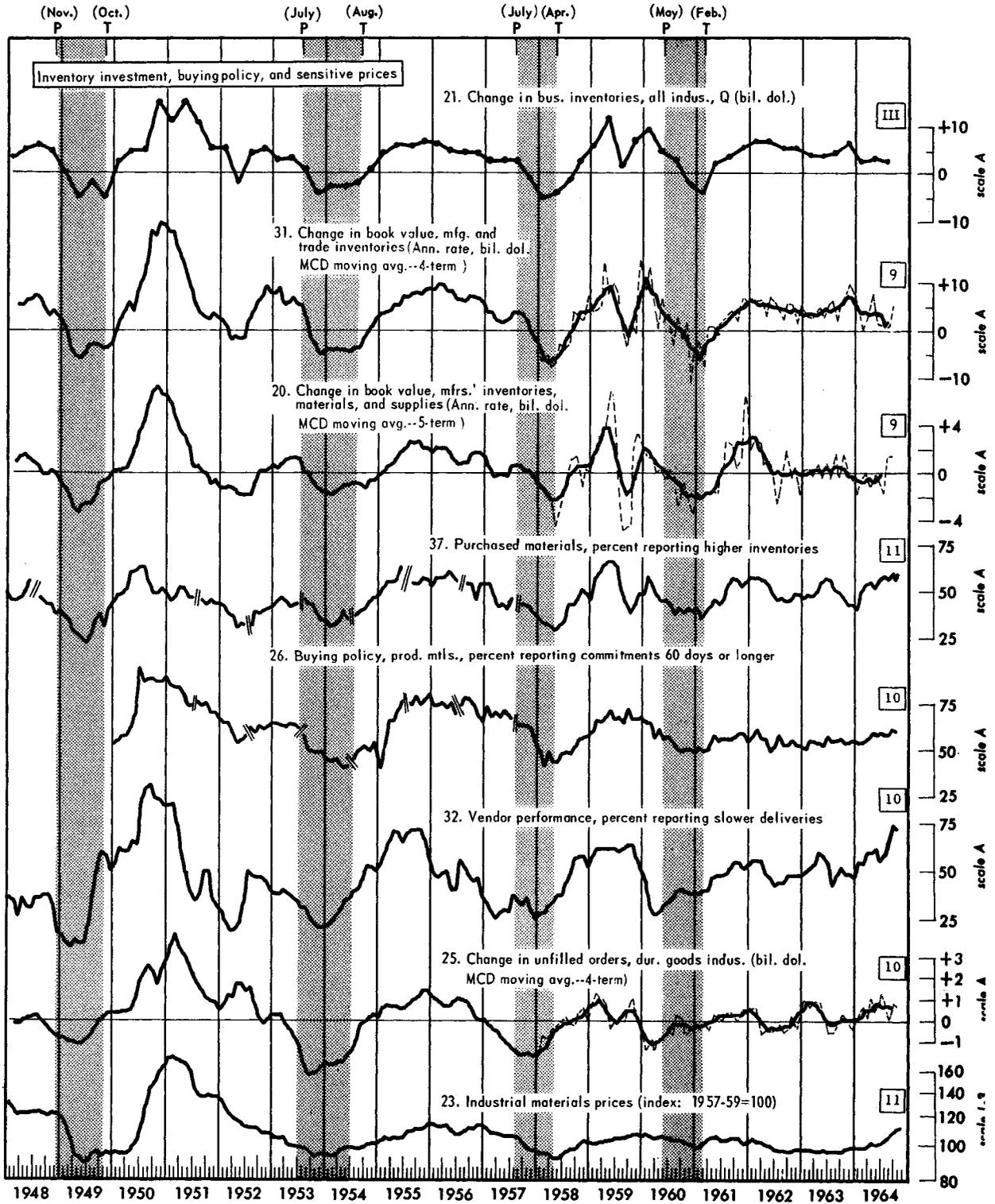
A

NBER Leading Indicators—Con.



See "How to Read Charts 1, 2, and 3," page 5.

CHART 1 BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.
A NBER Leading Indicators—Con.



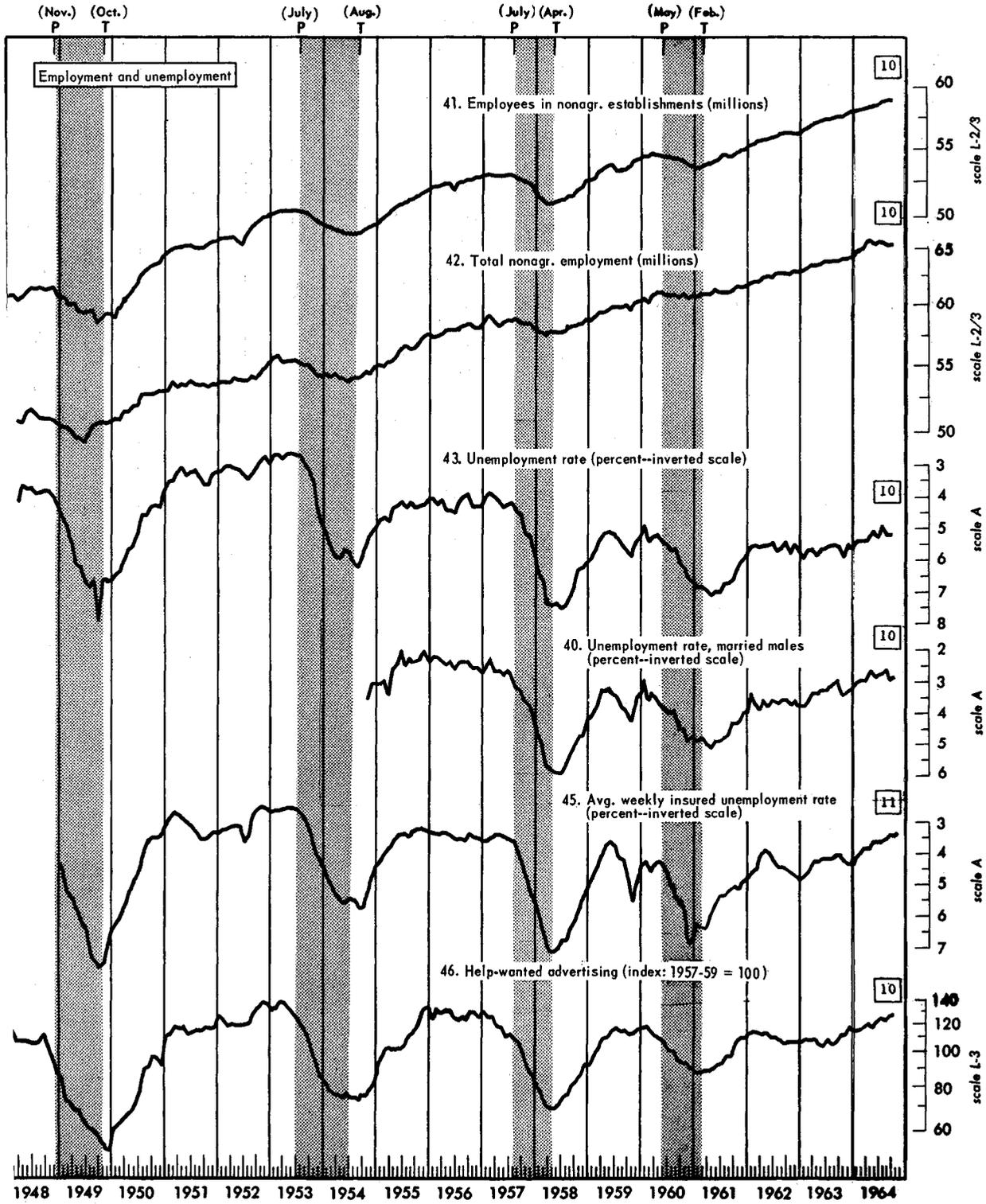
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

B

NBER Roughly Coincident Indicators



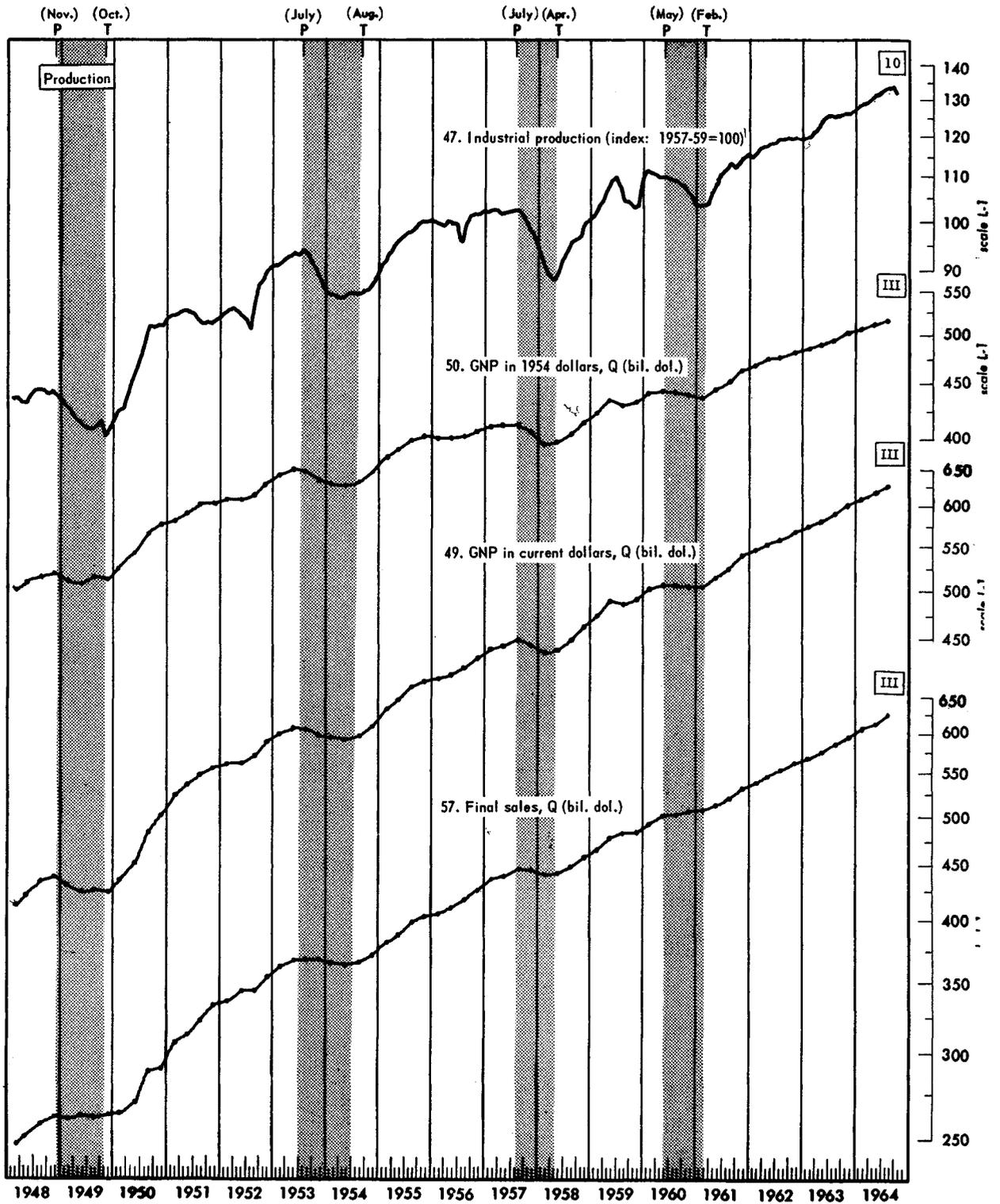
see "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

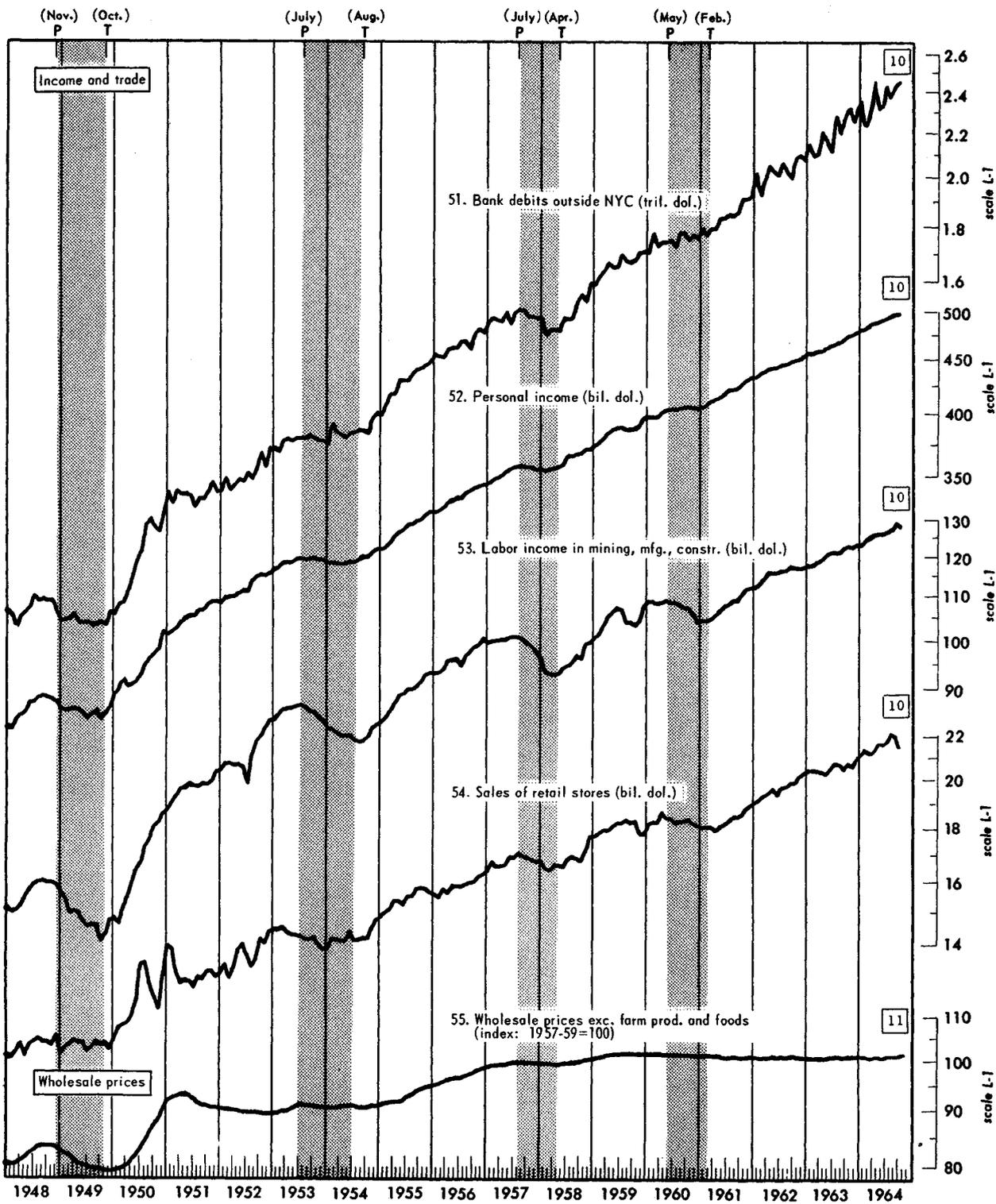
B

NBER Roughly Coincident Indicators—Con.



See "How to Read Charts 1, 2, and 3," page 5.

CHART 1 **BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.**
B **NBER Roughly Coincident Indicators--Con.**



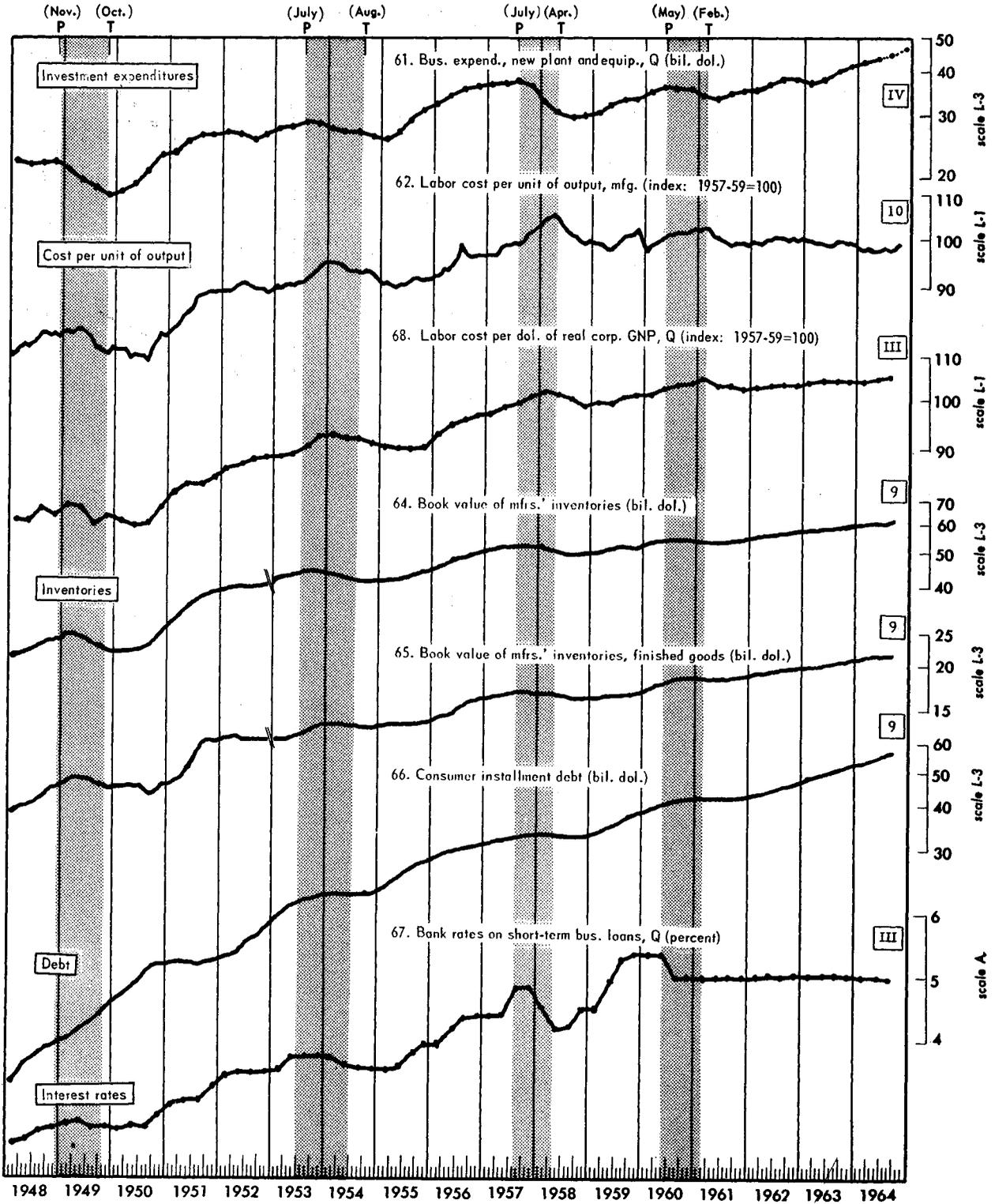
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

C

NBER Lagging Indicators



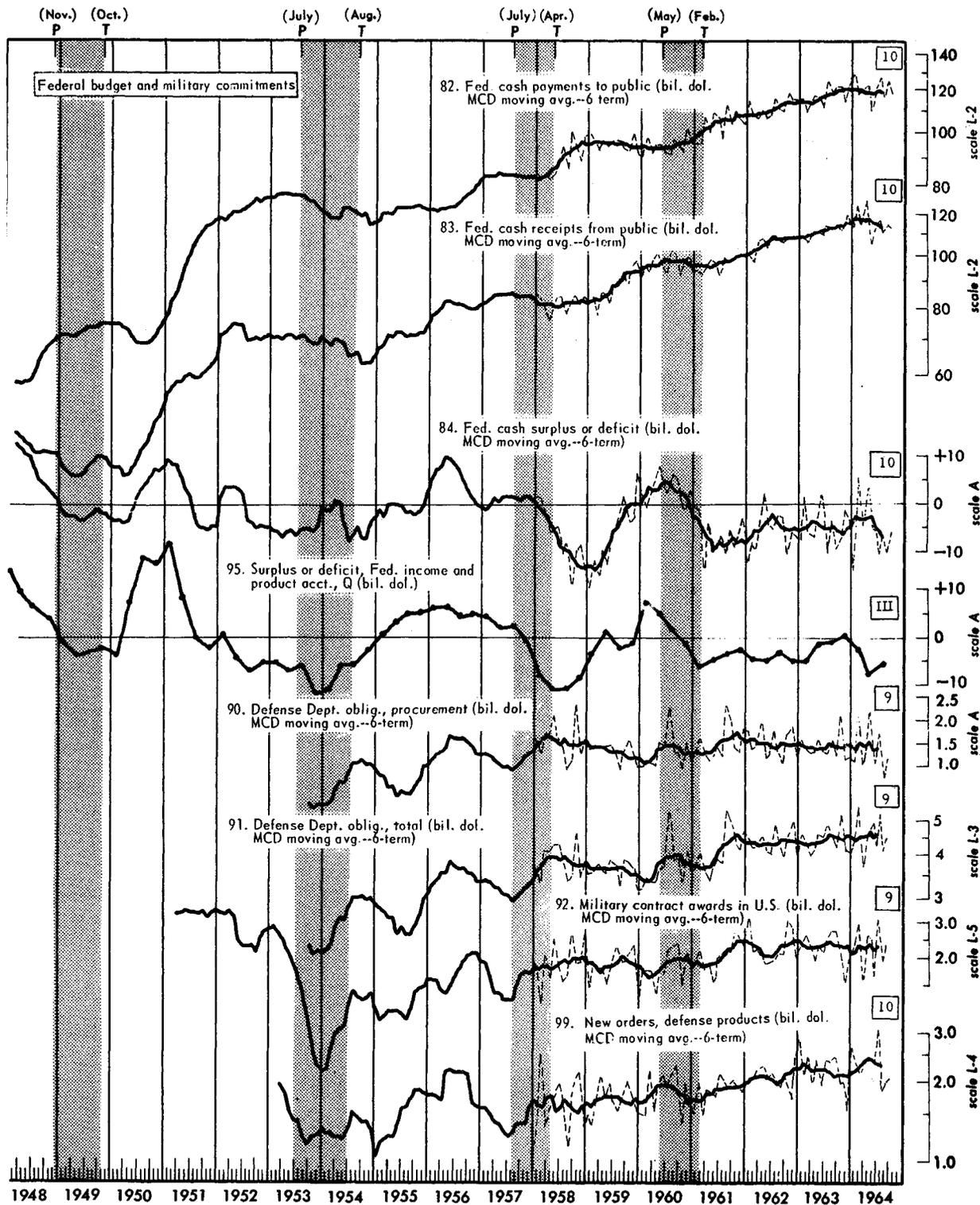
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

D

Other U.S. Series with Business Cycle Significance



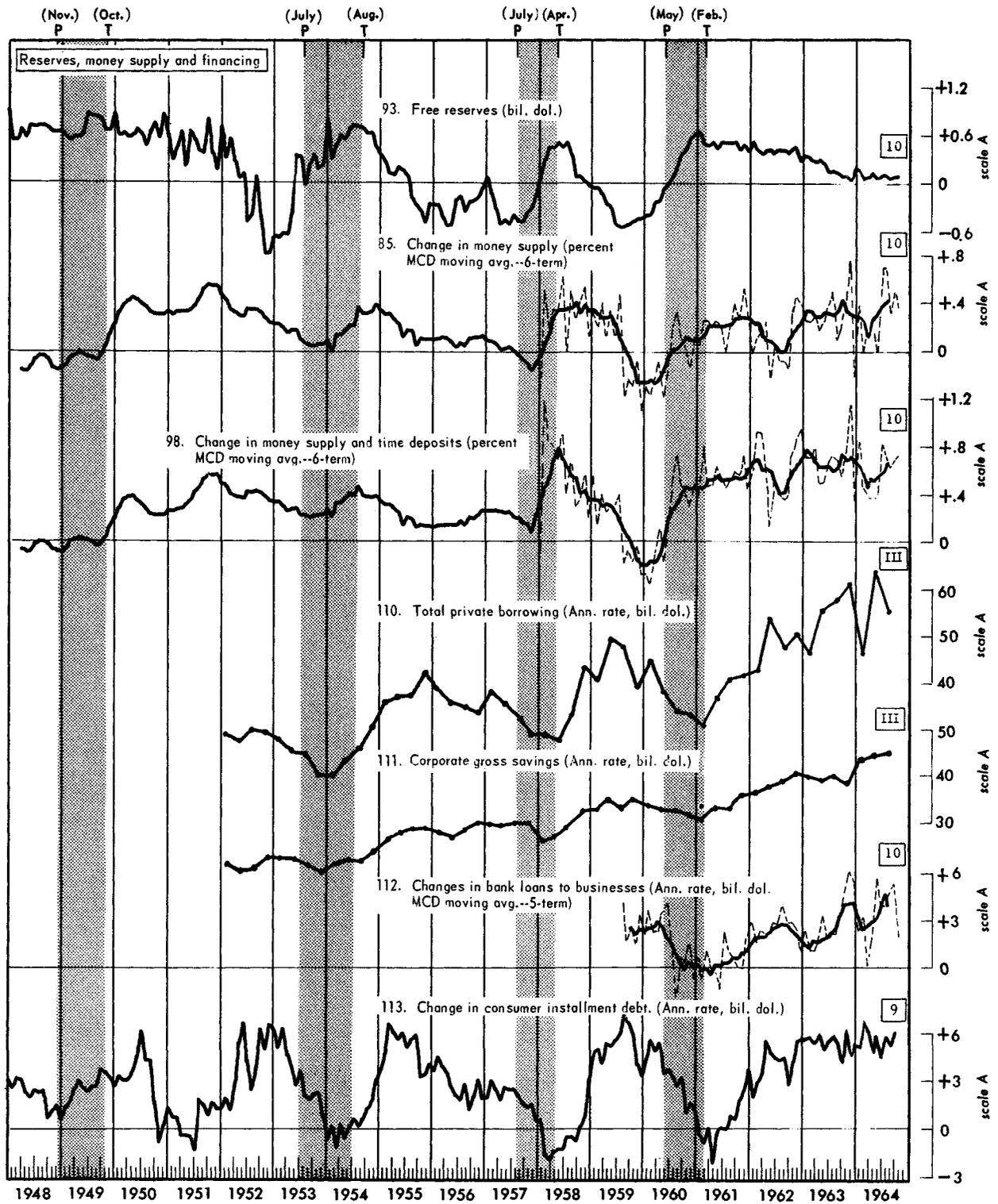
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

D

Other U.S. Series with Business Cycle Significance--Con.



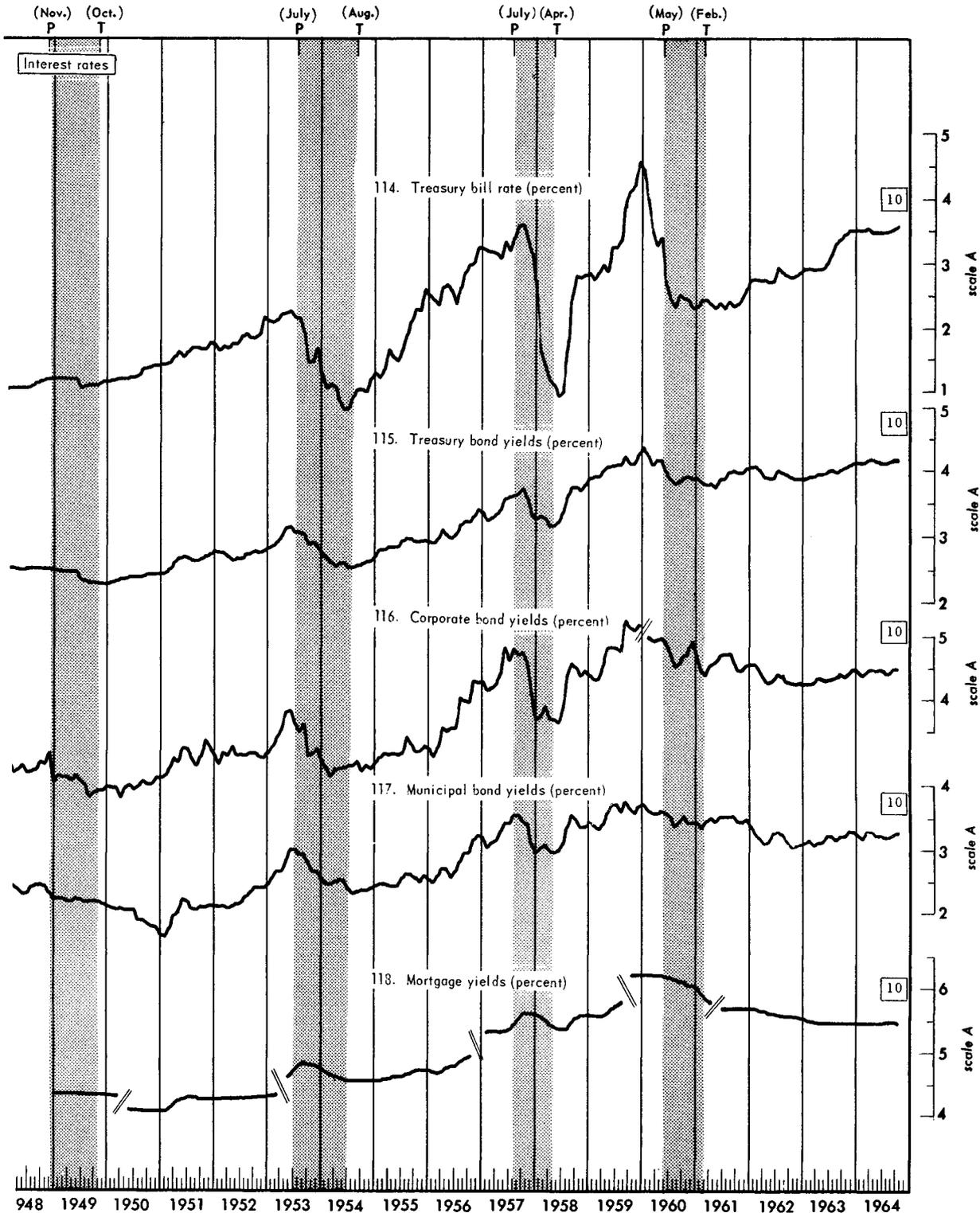
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

D

Other U.S. Series with Business Cycle Significance--Con.



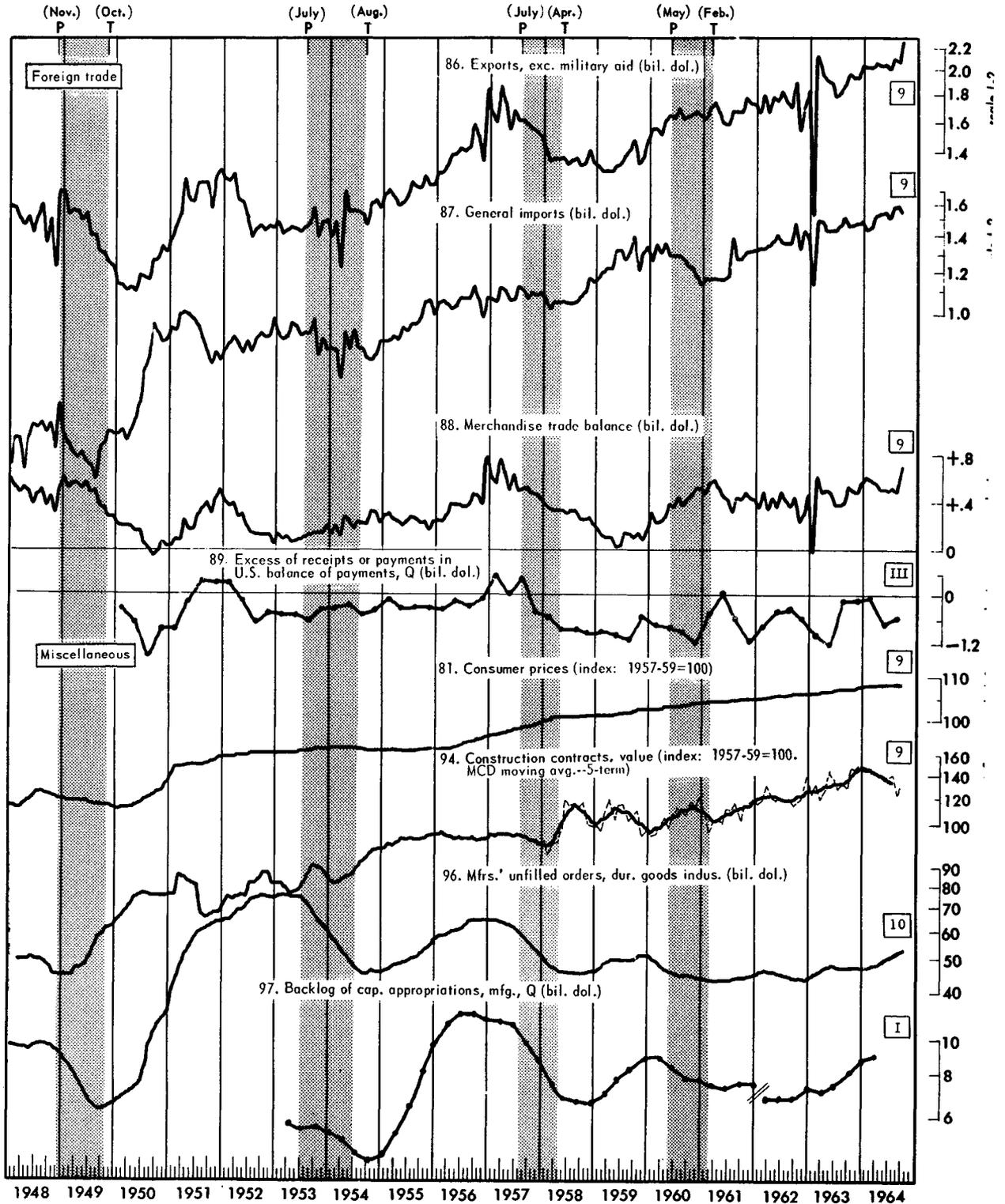
: "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

D

Other U.S. Series with Business Cycle Significance--Con.



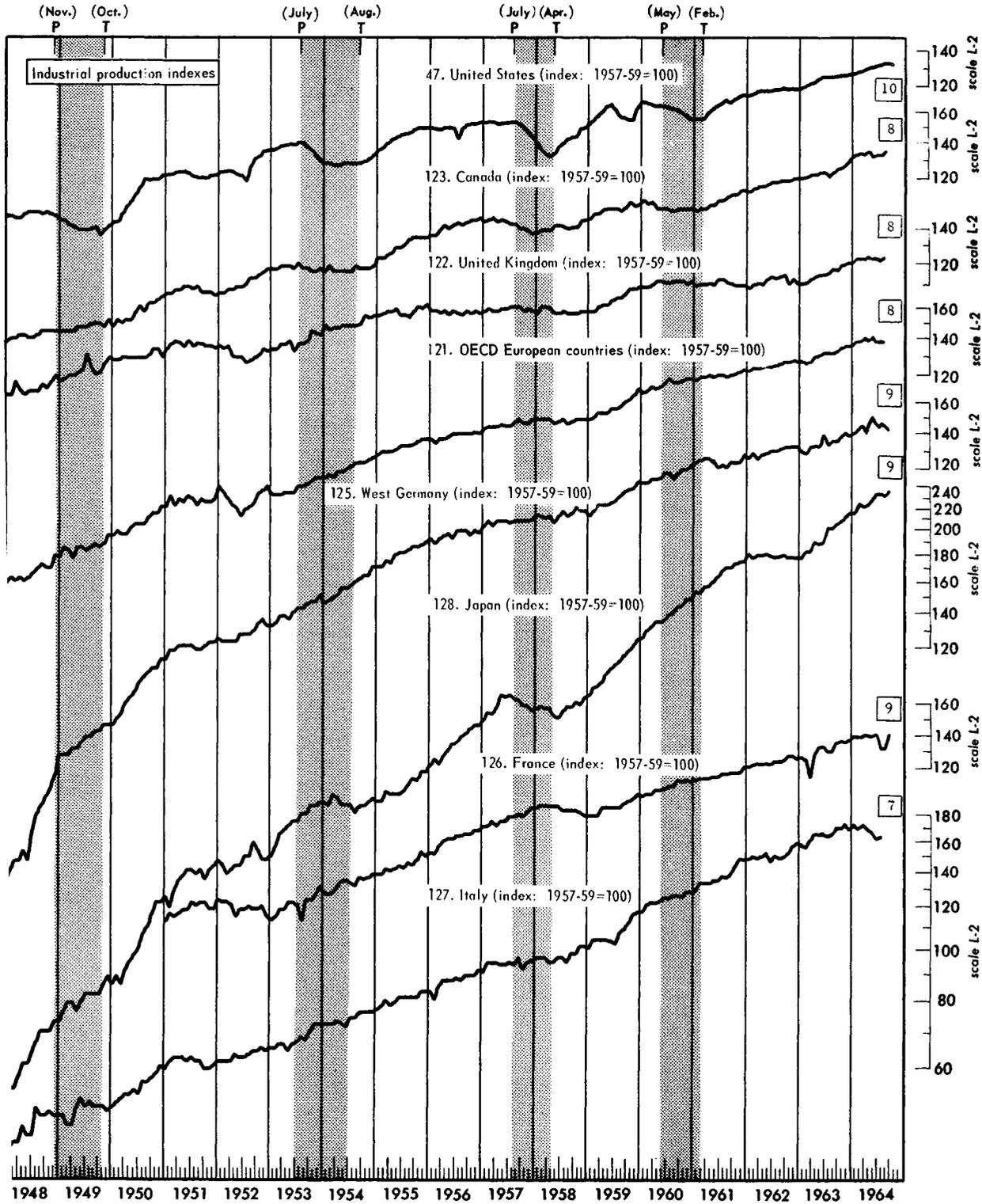
See "How to Read Charts 1, 2, and 3," page 5.

CHART 1

BUSINESS CYCLE SERIES: 1948 TO PRESENT—Con.

E

International Comparisons of Industrial Production



see "How to Read Charts 1, 2, and 3," page 5.

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Leading Indicators							
	1. Avg. work-week, production workers, manufacturing ¹	2. Accession rate, manufacturing ²	30. Nonagricultural placements, all industries	3. Layoff rate, manufacturing	4. Persons on temporary layoff, all industries ³	5. Average weekly initial claims, State unemployment insurance ⁴	6. New orders, durable goods industries	24. New orders, machinery and equipment industries ⁵
	(Hours)	(Per 100 employees)	(Thous.)	(Per 100 employees)	(Thous.)	(Thous.)	(Bil. dol.)	(Bil. dol.)
1961								
January.....	39.2	3.9	(L)444	2.9	173	393	(L)13.95	2.76
February.....	39.4	3.8	447	(L)2.9	(L)222	(L)429	14.31	2.74
March.....	39.4	4.3	459	2.4	215	379	14.53	2.71
April.....	39.5	4.2	448	2.1	141	381	15.51	2.74
May.....	39.6	4.2	469	2.2	150	358	15.59	2.70
June.....	39.8	4.0	494	2.2	151	334	15.89	2.80
July.....	39.9	4.1	493	2.3	101	348	15.92	3.03
August.....	40.0	4.1	512	1.9	136	316	16.12	3.07
September.....	39.8	3.8	507	2.2	127	329	15.97	2.88
October.....	40.3	(H)4.4	524	1.7	113	304	16.26	2.91
November.....	40.6	4.3	540	1.8	115	305	16.74	2.98
December.....	40.3	4.1	551	2.0	127	296	17.26	2.96
1962								
January.....	40.0	4.2	557	1.9	135	304	17.70	3.15
February.....	40.3	4.2	559	1.9	88	291	17.70	3.30
March.....	40.6	4.1	572	1.7	118	279	17.15	2.97
April.....	40.6	4.2	574	1.8	107	280	17.02	3.31
May.....	40.5	4.1	(H)592	2.0	126	300	17.22	3.10
June.....	40.4	4.0	557	2.0	124	309	16.65	3.02
July.....	40.4	4.2	557	2.1	128	308	16.91	3.07
August.....	40.2	3.9	550	2.3	127	303	16.59	2.94
September.....	40.7	4.0	555	1.9	127	300	16.55	2.98
October.....	40.2	3.9	554	2.0	125	300	17.29	3.05
November.....	40.4	3.8	563	1.9	133	298	16.73	3.16
December.....	40.2	3.8	547	2.0	120	317	17.33	3.07
1963								
January.....	40.4	3.7	552	2.0	152	313	18.47	3.25
February.....	40.3	3.9	555	1.8	121	294	18.23	3.21
March.....	40.5	3.8	553	1.8	107	285	18.78	3.22
April.....	40.1	4.1	560	1.8	138	290	19.04	3.35
May.....	40.5	3.8	551	1.8	95	286	18.74	3.42
June.....	40.5	3.9	541	1.7	92	287	17.68	3.29
July.....	40.4	4.0	541	1.9	131	283	18.28	3.33
August.....	40.3	3.7	540	2.0	130	285	18.06	3.31
September.....	40.7	3.9	552	1.8	108	282	18.24	3.42
October.....	40.6	3.9	570	1.7	135	281	18.62	3.44
November.....	40.5	3.6	530	1.8	134	280	18.11	3.27
December.....	40.5	3.9	532	1.8	97	308	17.97	3.61
1964								
January.....	40.1	3.7	536	1.8	123	289	19.74	3.62
February.....	40.6	4.0	535	1.7	123	264	19.50	3.41
March.....	40.7	4.0	520	1.7	91	273	19.26	3.46
April.....	40.7	4.0	522	1.6	122	260	20.46	3.61
May.....	40.7	3.8	533	1.7	104	260	19.94	(H)3.92
June.....	40.6	4.1	516	1.6	117	259	20.02	3.92
July.....	40.6	4.1	523	2.0	129	261	(H)21.25	3.77
August.....	(H)40.7	r3.9	499	r1.5	(H)87	(H)240	r19.34	r3.77
September.....	40.6	p3.6	514	(H)p1.5	127	241	r19.91	r3.68
October.....	p40.6	(NA)	514	(NA)	92	248	p19.00	p3.78
November.....						e248		
December.....								

¹ (L) = December 1960. ² (L) = October 1960.

³ Beginning with April 1962, the 1960 Census is used as the benchmark for computing this series. Prior to April 1962 the 1950 Census is used as the benchmark.

⁴ Data exclude Puerto Rico which is included in figures published by source agency.

⁵ (L) = November 1960.

⁶ Week ended November 14.

Table 2.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Leading Indicators--Continued						
	9. Construction contracts, commercial and industrial buildings	10. Contracts and orders, plant and equipment	11. Newly approved capital appropriations, 1000 manufacturing corporations ¹	7. New private nonfarm dwelling units started ²	29. New private housing units authorized by local building permits ²	12. Net change in business population, operating businesses	13. New business incorporations
	(Mil. sq. ft. floor space)	(Bil. dol.)	(Bil. dol.)	(Ann. rate, thous.)	(1957-59=100)	(Thous.)	(Number)
1961							
January.....	36.21	3.51	...	1,216	89.5	...	(L)13,607
February.....	36.49	3.39	2.26	1,199	88.2	(L)+6	14,570
March.....	37.49	(L)3.20	...	1,305	91.3	...	14,658
April.....	35.62	3.28	...	1,133	91.4	...	15,327
May.....	(L)35.16	3.27	2.46	1,215	93.2	+10	15,298
June.....	36.73	3.39	...	1,340	98.7	...	15,431
July.....	36.57	3.57	...	1,305	98.9	...	15,492
August.....	39.32	3.66	2.85	1,252	101.9	+9	15,277
September.....	38.73	3.40	...	1,453	100.2	...	15,402
October.....	33.88	3.48	...	1,381	104.2	...	16,035
November.....	41.61	3.66	2.62	1,319	101.8	+11	16,149
December.....	41.69	3.50	...	1,324	99.0	...	15,881
1962							
January.....	38.70	3.71	...	1,392	103.8	...	15,599
February.....	42.75	3.98	2.86	1,253	109.1	+11	15,758
March.....	45.90	3.71	...	1,460	104.0	...	15,670
April.....	42.72	3.96	...	1,489	111.9	...	15,372
May.....	44.64	3.76	2.56	1,501	103.8	+12	15,245
June.....	41.16	3.66	...	1,366	106.1	...	14,947
July.....	40.56	3.72	...	1,423	108.7	...	15,171
August.....	42.69	3.61	3.04	1,459	107.1	+11	15,056
September.....	40.96	3.56	...	1,328	109.1	...	15,249
October.....	41.08	3.66	...	1,491	107.2	...	14,892
November.....	42.20	3.82	3.25	1,564	113.0	+11	14,951
December.....	41.89	3.99	...	1,541	112.0	...	14,985
1963							
January.....	44.61	3.84	...	1,287	111.8	...	14,924
February.....	45.11	3.82	2.68	1,418	108.2	+11	15,390
March.....	39.42	3.75	...	1,551	112.9	...	15,563
April.....	40.23	3.98	...	1,656	113.6	...	15,305
May.....	47.00	4.28	3.35	1,651	120.0	+11	15,682
June.....	51.39	3.96	...	1,558	119.3	...	15,536
July.....	45.78	3.94	...	1,584	116.5	...	15,431
August.....	44.93	3.91	4.07	1,454	113.5	+13	16,093
September.....	43.88	4.08	...	1,712	121.0	...	15,689
October.....	50.81	4.17	...	(H)1,824	123.6	...	16,275
November.....	43.14	4.32	3.93	1,544	119.9	+12	15,759
December.....	44.15	(H)4.68	...	1,524	123.7	...	15,867
1964							
January.....	51.64	4.37	...	1,688	117.6	...	16,193
February.....	52.47	4.12	4.01	1,613	(H)123.9	+16	16,086
March.....	48.17	4.10	...	1,638	121.5	...	16,064
April.....	(H)54.84	4.37	...	1,501	112.9	...	16,242
May.....	46.22	4.63	4.87	1,507	112.1	(H)+17	15,932
June.....	48.22	4.63	...	1,585	115.2	...	15,797
July.....	53.55	4.50	...	1,483	109.6	...	15,852
August.....	46.30	r4.51	(H)e5.53	r1,408	113.0	+16	16,074
September.....	50.40	p4.52	...	r1,441	r107.8	...	(H)16,715
October.....	(NA)	(NA)	...	p1,569	p109.0	...	(NA)
November.....							
December.....							

¹ (L) = 3rd quarter 1960.

² (L) = December 1960.

Table 2.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Leading Indicators--Continued							
	14. Current liabilities of business failures ¹	15. Business failures with liabilities of \$100,000 and over ²	16. Corporate profits after taxes	17. Ratio, price to unit labor cost index, manufacturing	18. Profits (before taxes) per dol. sales, all mfg. corporations	22. Ratio, profits to income originating, corporate, all indus.	19. Stock prices, 500 common stocks* ²	21. Change in business inventories after valuation adjustment, all indus.
	(Mil. dol.)	(Number per week)	(Ann. rate, bil. dol.)	(1957-59=100)	(Cents)	(Percent)	(1941-43=10)	(Ann. rate bil. dol.)
1961								
January.....	77.79	38	...	99.3	...	...	59.72	..
February.....	83.73	41	(L)19.5	(L)98.8	(L)6.6	(L)7.9	62.17	(L)-3.9
March.....	116.17	39	...	98.9	...	...	64.12	..
April.....	76.88	39	...	100.4	...	...	65.83	..
May.....	82.96	42	21.8	100.3	7.6	8.6	66.50	+2.1
June.....	86.69	40	...	101.0	...	...	65.62	..
July.....	80.15	43	...	101.4	...	...	65.44	..
August.....	94.47	36	22.0	102.0	7.9	8.5	67.79	+3.1
September.....	126.12	39	...	101.6	...	...	67.26	..
October.....	72.28	42	...	101.5	...	...	68.00	..
November.....	119.93	39	24.5	101.7	8.6	9.3	71.08	+5.1
December.....	71.81	38	...	102.3	...	...	71.74	..
1962								
January.....	101.53	37	...	101.3	...	...	69.07	..
February.....	86.03	(H)32	24.5	101.7	8.2	9.2	70.22	(H)+6.1
March.....	77.40	36	...	101.8	...	...	70.29	..
April.....	107.15	38	...	100.9	...	...	68.05	..
May.....	89.80	38	24.9	101.1	8.1	9.1	62.99	+6.1
June.....	93.15	41	...	100.4	...	...	55.63	..
July.....	107.98	38	...	100.7	...	...	56.97	..
August.....	121.85	45	25.0	100.7	8.1	9.1	58.52	+5.1
September.....	106.02	40	...	101.9	...	...	58.00	..
October.....	129.87	46	...	100.7	...	...	56.17	..
November.....	96.62	42	25.7	101.1	8.3	9.1	60.04	+5.1
December.....	99.61	37	...	100.5	...	...	62.64	..
1963								
January.....	146.46	49	...	100.6	...	...	65.06	..
February.....	93.05	43	25.5	100.8	7.9	9.1	65.92	+3.1
March.....	94.12	42	...	101.3	...	...	65.67	..
April.....	88.15	40	...	101.3	...	...	68.76	..
May.....	115.05	51	26.6	101.8	8.5	9.4	70.14	+3.1
June.....	91.07	38	...	102.7	...	...	70.11	..
July.....	144.50	39	...	102.3	...	...	69.07	..
August.....	(H)52.86	42	26.7	101.5	8.5	9.3	70.98	+4.1
September.....	94.52	43	...	101.9	...	...	72.85	..
October.....	99.92	42	...	102.0	...	...	73.03	..
November.....	255.72	38	28.3	101.9	8.8	9.8	72.62	+6.1
December.....	87.17	39	...	102.4	...	...	74.17	..
1964								
January.....	87.70	41	...	103.2	...	...	76.45	..
February.....	121.87	42	31.2	103.3	(H)9.1	10.4	77.39	+2.1
March.....	107.25	37	...	102.7	...	...	78.80	..
April.....	98.50	46	...	(H)103.8	...	...	79.94	..
May.....	90.44	39	31.9	103.7	8.9	(H)10.5	80.72	+3.1
June.....	153.07	38	...	102.9	...	...	80.24	..
July.....	151.92	43	...	103.5	...	...	83.22	..
August.....	76.20	40	(H)32.0	103.6	(NA)	10.4	82.00	r+2.1
September.....	125.89	42	...	r103.4	...	...	83.41	..
October.....	101.92	42	...	p102.4	...	...	(H)84.85	..
November.....							³ 86.14	..
December.....								..

¹ (L) = June 1960. ² (L) = October 1960.

³ Average for November 17, 18, and 19.

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Leading Indicators—Continued						
	31. Change in book value, manufacturing and trade inventories, total ¹	20. Change in book value, mfrs.' inventories of materials and supplies ¹	37. Purchased materials, percent reporting higher inventories	26. Production mats., percent reporting commitments 60 days or longer* ¹	32. Vendor performance, percent reporting slower deliveries* ²	25. Change in unfilled orders, durable goods industries ³	23. Industrial materials prices* ¹
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent reporting)	(Percent reporting)	(Percent reporting)	(Bil. dol.)	(1957-59=100)
1961							
January.....	-4.3	-1.6	41	51	38	-0.39	77.3
February.....	-2.2	-1.9	(L) 35	49	40	-0.07	99.3
March.....	-7.2	-2.0	39	50	40	-0.42	103.1
April.....	+1.0	-1.5	42	57	47	+0.36	104.1
May.....	+0.8	-1.3	46	54	48	+0.07	104.4
June.....	-0.8	-1.6	43	56	48	+0.11	101.0
July.....	+2.0	+0.8	46	56	49	+0.37	101.7
August.....	+3.1	+2.9	54	55	52	+0.42	102.9
September.....	+4.0	+2.2	57	57	55	+0.01	102.9
October.....	+1.9	+0.3	56	59	55	+0.25	102.3
November.....	+7.0	+1.3	52	59	51	+0.41	98.9
December.....	+6.2	(H)+6.6	55	54	53	+0.65	101.0
1962							
January.....	+6.0	+1.9	58	57	56	+0.63	102.9
February.....	+5.7	+3.0	57	61	56	+0.62	100.6
March.....	+6.0	+2.7	57	56	55	-0.67	100.4
April.....	+2.6	+0.8	55	55	48	-0.34	98.3
May.....	+7.1	+1.0	53	49	46	-0.46	97.8
June.....	+5.6	+0.2	48	52	42	-0.37	95.4
July.....	+3.9	-2.4	45	58	44	-0.25	94.2
August.....	+2.0	-0.3	46	52	44	-0.60	94.5
September.....	+5.6	+1.8	44	52	48	-0.36	94.0
October.....	+5.5	-0.2	45	55	48	+0.21	94.9
November.....	+1.2	+0.5	49	52	48	-0.40	96.4
December.....	+5.1	-1.7	48	51	48	+0.91	95.8
1963							
January.....	+3.1	+0.6	46	50	50	+0.96	95.5
February.....	+2.5	+0.4	48	55	52	+0.68	95.1
March.....	+3.0	-0.2	47	54	54	+0.94	94.4
April.....	+4.6	+0.9	50	53	60	+0.85	94.5
May.....	+2.7	-0.3	55	52	58	+0.33	95.2
June.....	+5.1	+0.7	57	57	54	-0.58	93.9
July.....	+6.0	-0.5	56	54	42	-0.54	94.2
August.....	+1.8	+1.7	50	55	48	-0.05	94.2
September.....	+5.6	-0.4	49	56	52	+0.38	94.1
October.....	+7.1	+1.7	46	53	48	+0.10	96.3
November.....	(H)+9.6	-0.2	42	54	48	-0.09	97.3
December.....	+7.2	-0.7	42	55	46	-0.40	97.7
1964							
January.....	+3.5	-1.9	40	53	55	+0.40	98.5
February.....	0.0	-0.5	50	54	54	+0.57	98.5
March.....	+3.7	0.0	54	56	60	+0.16	98.9
April.....	+7.8	-1.0	55	59	60	+1.04	102.4
May.....	+1.6	-0.1	51	58	63	+0.38	100.9
June.....	+1.4	-0.7	56	59	55	+0.81	101.4
July.....	+0.2	-1.6	58	58	59	(H)+1.26	102.5
August.....	r+1.0	r+1.3	57	58	65	r+0.06	105.7
September.....	pt+5.4	pt+1.4	(H) 60	(H) 61	(H) 74	r+0.79	108.2
October.....	(NA)	(NA)	56	60	72	pt+0.71	(H) 112.0
November.....			59				⁴ 112.4

¹ (L) = December 1960. ² (L) = March 1960. ³ (L) = January 1960.

⁴ Average for November 17, 18, and 19.

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Roughly Coincident Indicators							
	41. Employees in nonagricultural establishments	42. Total nonagricultural employment, labor force survey ^{1 2}	43. Unemployment rate, total ¹	40. Unemployment rate, married males ¹	45. Avg. weekly insured unemployment rate, State programs ³	46. Help-wanted advertising in newspapers	47. Industrial production	50. Gross national product in 1954 dollars
	(Thous.)	(Thous.)	(Percent)	(Percent)	(Percent)	(1957-59=100)	(1957-59=100)	(Ann. rate, bil. dol.)
1961								
January.....	53,725	61,034	6.7	4.7	6.2	88	103.6	...
February.....	(L)53,541	60,897	6.9	4.8	6.3	(L)88	(L)103.6	(L)434.2
March.....	53,615	61,229	6.9	4.7	(L)6.3	90	104.0	...
April.....	53,713	61,154	7.0	4.9	5.9	89	106.7	...
May.....	53,911	61,134	(L)7.1	(L)5.0	5.6	91	108.7	444.4
June.....	54,165	61,622	6.9	4.8	5.3	93	110.5	...
July.....	54,294	61,259	6.9	4.8	5.3	94	111.5	...
August.....	54,444	61,274	6.7	4.7	5.2	98	112.9	450.6
September.....	54,480	61,299	6.7	4.6	5.1	98	111.6	...
October.....	54,593	61,463	6.6	4.2	5.0	107	113.4	...
November.....	54,825	61,896	6.2	4.2	5.1	110	114.9	462.5
December.....	54,927	61,747	6.0	3.9	4.8	110	115.8	...
1962								
January.....	54,946	61,899	5.8	3.8	4.7	114	115.0	...
February.....	55,223	62,179	5.5	3.3	4.5	115	116.4	469.1
March.....	55,368	62,253	5.5	3.6	4.4	115	117.5	...
April.....	55,703	62,247	5.6	3.8	3.9	112	118.0	...
May.....	55,822	62,663	5.5	3.5	3.8	114	118.2	475.1
June.....	55,908	62,752	5.5	3.7	4.0	109	118.1	...
July.....	56,010	62,620	5.4	3.5	4.2	110	119.0	...
August.....	56,019	63,021	5.7	3.6	4.4	108	119.0	478.1
September.....	56,125	63,039	5.6	3.5	4.4	107	119.7	...
October.....	56,195	63,007	5.4	3.5	4.5	107	119.1	...
November.....	56,205	62,870	5.8	3.6	4.6	107	119.8	483.1
December.....	56,211	63,240	5.5	3.5	4.7	e107	119.4	...
1963								
January.....	56,333	63,090	5.7	3.7	4.8	e107	119.8	...
February.....	56,458	63,227	5.9	3.7	4.6	e109	120.6	485.1
March.....	56,706	63,478	5.7	3.5	4.4	e108	121.9	...
April.....	56,873	63,770	5.7	3.3	4.2	109	122.7	...
May.....	57,060	63,690	5.9	3.3	4.2	105	124.4	487.1
June.....	57,194	63,843	5.7	3.2	4.1	104	125.6	...
July.....	57,340	64,092	5.6	3.2	4.1	109	125.6	...
August.....	57,344	64,069	5.5	3.1	4.1	105	125.4	494.1
September.....	57,453	64,167	5.5	3.0	4.0	107	125.7	...
October.....	57,646	64,128	5.6	2.9	4.0	111	126.1	...
November.....	57,580	64,319	5.9	3.4	4.1	112	126.1	502.1
December.....	57,748	64,315	5.5	3.3	4.3	118	127.0	...
1964								
January.....	57,850	64,631	5.6	3.2	4.3	116	127.7	...
February.....	58,183	65,035	5.4	3.0	4.0	117	128.2	508.1
March.....	58,327	65,207	5.4	2.9	3.8	118	129.0	...
April.....	58,502	65,811	5.4	2.9	3.8	120	130.5	...
May.....	58,590	(H)65,889	5.1	2.6	3.6	118	131.3	513.1
June.....	58,782	65,549	5.3	2.8	3.6	121	131.6	...
July.....	58,912	65,706	(H)4.9	2.7	3.6	124	132.9	...
August.....	r58,955	65,678	5.1	(H)2.6	3.5	123	r133.8	(H)r519
September.....	(H)r59,049	65,534	5.2	2.9	3.4	126	(H)r134.0	...
October.....	p58,983	65,580	5.2	2.8	(H)3.4	(H)p127	p131.7	...
December.....					43.3			...

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

²(L) = December 1960.

³Data exclude Puerto Rico which is included in figures published by source agency.

⁴Week ended November 7.

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Roughly Coincident Indicators—Continued						
	49. Gross national product in current dollars	57. Final sales (series 49 minus series 21)	51. Bank debits outside NYC, 343 centers ¹	52. Personal income ¹	53. Labor income in mining, manufacturing, and construction ¹	54. Sales of retail stores	55. Wholesale prices except farm products and foods
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Mil. dol.)	(1957-59=100)
1961							
January.....	...	...	1,786.2	405.0	104.2	17,942	101.0
February.....	(L)501.4	505.3	1,755.0	406.2	104.0	17,965	101.1
March.....	...	...	1,785.1	410.3	104.5	17,971	101.1
April.....	...	...	1,781.8	411.6	105.4	(L)17,811	100.9
May.....	513.9	511.8	1,829.3	413.6	106.4	(L)18,003	100.9
June.....	...	...	1,824.0	416.1	107.7	18,098	100.7
July.....	...	...	1,839.9	420.0	108.0	18,234	100.7
August.....	522.4	518.7	1,832.7	420.0	108.8	18,373	100.8
September.....	...	...	1,848.2	421.8	108.8	18,371	100.8
October.....	...	...	1,904.6	425.4	110.6	18,494	100.7
November.....	536.9	531.4	1,903.8	429.0	111.7	18,775	100.8
December.....	...	...	1,916.9	431.5	112.1	18,879	100.9
1962							
January.....	...	...	2,009.7	431.6	112.0	18,990	100.8
February.....	545.5	538.7	1,916.6	434.9	113.0	19,139	100.7
March.....	...	...	1,985.3	437.6	114.2	19,320	100.7
April.....	...	...	2,044.4	440.2	115.9	19,389	100.7
May.....	553.4	547.3	2,015.0	441.0	115.4	19,585	100.9
June.....	...	...	2,000.2	441.7	115.4	19,311	100.8
July.....	...	...	2,054.8	443.3	116.3	19,658	100.9
August.....	559.0	554.0	2,017.0	444.1	116.1	19,671	100.8
September.....	...	...	1,988.5	446.2	117.1	19,844	100.9
October.....	...	...	2,080.9	447.7	116.8	19,837	100.9
November.....	566.6	561.2	2,090.5	449.5	116.6	20,112	100.8
December.....	...	...	2,066.9	452.0	117.0	20,253	100.7
1963							
January.....	...	...	2,148.0	454.9	117.4	20,387	100.5
February.....	571.8	568.2	2,085.5	454.1	117.4	20,374	100.5
March.....	...	...	2,095.6	456.5	118.3	20,350	100.5
April.....	...	...	2,198.1	457.6	118.8	20,276	(L)100.4
May.....	577.4	573.7	2,150.7	460.2	120.1	20,200	100.5
June.....	...	...	2,105.4	462.7	120.8	20,486	100.8
July.....	...	...	2,276.8	464.0	120.7	20,719	100.9
August.....	587.2	583.0	2,189.7	466.1	120.7	20,666	100.9
September.....	...	...	2,275.0	468.9	122.1	20,426	100.8
October.....	...	...	2,316.3	472.7	122.5	20,716	100.9
November.....	599.0	592.6	2,246.9	473.8	122.2	20,558	100.9
December.....	...	...	2,320.5	477.1	123.1	21,019	101.0
1964							
January.....	...	...	2,354.9	479.4	122.7	21,000	101.1
February.....	608.8	606.4	2,239.6	480.5	124.2	21,533	101.1
March.....	...	...	2,322.3	482.9	124.6	21,223	101.0
April.....	...	...	2,451.1	486.6	125.9	21,392	101.1
May.....	618.6	614.9	2,312.7	487.8	125.8	21,777	101.1
June.....	...	...	2,328.6	489.3	126.4	21,773	101.0
July.....	...	...	2,430.2	491.4	126.9	r21,935	101.2
August.....	(H)r628.4	(H)r625.7	2,372.5	494.9	127.9	(H)r22,266	101.2
September.....	...	...	r2,424.8	r497.9	(H)r129.2	r22,175	101.2
October.....	...	...	(H)p2,454.2	(H)p498.6	p128.0	p21,536	(H)p101.4
November.....	...	...	...	...	...	...	101.6
December.....	...	...	...	...	...	...	...

¹ (L) = December 1960.

² Week ended November 17.

Table 2.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	NBER Lagging Indicators						
	61. Business expenditures, new plant and equipment, total	62. Labor cost per unit of output, manufacturing	68. Labor cost per dollar of real corporate GNP	64. Book value of mfrs.' inventories	65. Book value of mfrs.' inventories of finished goods	66. Consumer installment debt	67. Bank rates on short-term business loans, 19 cities*
	(Ann. rate, bil. dol.)	(1957-59=100)	(1957-59=100)	(Bil. dol.)	(Bil. dol.)	(Mil. dol.)	(Percent)
1961							
January.....	...	101.8	...	53.7	18.4	42,109	...
February.....	33.85	102.4	104.9	53.7	18.4	42,035	4.97
March.....	...	102.3	...	53.5	18.3	42,041	...
April.....	...	100.5	...	53.4	18.4	(L) 41,867	...
May.....	(L) 33.50	100.3	103.4	53.4	18.3	41,870	4.97
June.....	...	99.5	...	(L) 53.4	18.4	41,895	...
July.....	...	99.1	...	53.6	(L) 18.3	41,903	...
August.....	34.70	98.5	103.8	53.9	18.5	41,987	4.99
September.....	...	99.1	...	53.9	18.5	42,052	...
October.....	...	98.9	...	54.3	18.6	42,221	...
November.....	35.40	99.0	(L) 102.3	54.7	18.7	42,442	(L) 4.96
December.....	...	(L) 98.4	...	55.1	18.8	42,774	...
1962							
January.....	...	99.4	...	55.4	19.0	42,960	...
February.....	35.70	99.0	102.9	55.7	19.1	43,220	4.98
March.....	...	98.8	...	56.0	19.1	43,532	...
April.....	...	99.8	...	56.1	19.2	44,017	...
May.....	36.95	99.8	103.4	56.4	19.3	44,437	5.01
June.....	...	(H) 100.4	...	56.3	19.4	44,826	...
July.....	...	100.1	...	56.9	19.5	45,200	...
August.....	38.35	100.2	103.5	57.0	19.5	45,588	4.99
September.....	...	99.6	...	57.3	19.7	45,838	...
October.....	...	100.1	...	57.4	19.7	46,206	...
November.....	37.95	99.5	103.2	57.6	19.8	46,689	(H) 5.00
December.....	...	100.1	...	57.8	19.8	47,174	...
1963							
January.....	...	99.7	...	57.9	19.9	47,659	...
February.....	36.95	99.6	104.2	58.0	20.0	48,154	5.00
March.....	...	99.0	...	58.1	20.0	48,631	...
April.....	...	98.9	...	58.3	20.0	49,152	...
May.....	38.05	98.8	104.8	58.5	20.1	49,593	5.00
June.....	...	98.3	...	58.7	20.3	50,079	...
July.....	...	98.8	...	58.9	20.3	50,588	...
August.....	40.00	99.5	104.7	58.9	20.4	51,069	5.00
September.....	...	99.3	...	59.1	20.6	51,410	...
October.....	...	98.9	...	59.3	20.6	51,941	...
November.....	41.20	99.1	104.6	59.8	21.0	52,324	5.00
December.....	...	98.6	...	60.1	21.2	52,784	...
1964							
January.....	...	97.9	...	60.0	21.2	53,212	...
February.....	42.55	97.8	104.2	60.1	21.4	53,791	4.99
March.....	...	98.3	...	60.3	21.4	54,315	...
April.....	...	97.5	...	60.5	21.6	54,727	...
May.....	(H) 43.50	97.5	104.9	60.5	21.6	55,220	4.99
June.....	...	98.1	...	60.4	21.5	55,590	...
July.....	...	97.7	...	60.5	21.6	56,073	...
August.....	a44.55	97.5	(H) 105.4	r60.8	r21.6	56,508	4.99
September.....	...	r98.3	...	(H) p60.9	(H) p21.6	(H) 57,021	...
October.....	...	p98.9	...	(NA)	(NA)	(NA)	...
November.....	a46.15	...	...	...	...	...	...
December.....	...	...	...	...	...	...	...

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	Other U.S. series with business cycle significance							
	82. Federal cash payments to public	83. Federal cash receipts from public	84. Federal cash surplus (+), or deficit (-)	95. Surplus (+), or deficit (-), Fed. income and product account	90. Defense Department obligations, procurement	91. Defense Department obligations, total	92. Military prime contract awards to U.S. business firms	99. New orders, defense products
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Bil. dol.)
1961								
January.....	95.5	94.2	-1.3	...	1,277	3,641	1,944	1.45
February.....	95.4	94.1	-1.3	-6.0	1,555	4,065	2,153	2.00
March.....	107.4	92.6	-14.8	...	1,230	3,537	1,757	1.48
April.....	100.6	97.0	-3.6	...	1,047	3,381	1,910	1.85
May.....	110.9	99.8	-11.1	-4.7	1,220	3,727	1,530	1.82
June.....	106.5	97.7	-8.8	...	1,390	3,893	1,993	1.73
July.....	97.7	91.2	-6.5	...	1,181	3,784	2,087	2.11
August.....	112.7	101.0	-11.7	-3.4	2,278	5,344	2,232	1.96
September.....	104.1	99.2	-4.9	...	1,933	4,874	2,158	1.92
October.....	109.8	99.5	-10.3	...	1,354	4,296	2,651	1.97
November.....	106.5	101.3	-5.2	-2.6	1,286	4,121	2,379	1.86
December.....	104.3	101.7	-2.6	...	1,773	4,653	2,281	1.82
1962								
January.....	115.1	101.7	-13.4	...	1,718	4,434	3,073	1.99
February.....	108.8	101.3	-7.5	-4.4	1,319	4,181	2,135	2.05
March.....	107.4	98.1	-9.3	...	1,435	4,230	2,225	2.11
April.....	110.1	107.8	-2.3	...	1,885	4,486	2,062	2.24
May.....	106.8	109.9	+3.1	-4.6	1,142	4,059	1,887	2.24
June.....	108.9	104.4	-4.5	...	1,246	4,024	1,930	2.08
July.....	116.3	111.2	-5.1	...	1,731	4,864	2,017	2.07
August.....	111.6	110.1	-1.5	-2.9	1,240	4,300	2,149	1.94
September.....	109.9	107.6	-2.3	...	1,044	3,928	2,111	1.88
October.....	118.6	107.8	-10.8	...	1,684	4,553	2,983	2.09
November.....	114.7	109.0	-5.7	-4.5	1,818	4,952	2,734	1.70
December.....	115.2	109.0	-6.2	...	1,158	3,974	1,984	2.53
1963								
January.....	115.3	108.6	-6.7	...	1,565	4,642	2,343	2.89
February.....	109.2	110.6	+1.4	-4.8	1,325	4,253	2,571	2.09
March.....	114.5	108.9	-5.6	...	1,258	3,905	2,168	2.42
April.....	117.2	110.2	-7.0	...	1,304	4,108	1,973	1.97
May.....	115.8	112.2	-3.6	-1.0	1,530	4,601	2,250	2.40
June.....	110.2	111.9	+1.7	...	1,298	4,378	2,125	1.90
July.....	125.7	114.9	-10.8	...	1,255	4,834	2,506	2.40
August.....	118.0	114.7	-3.3	-0.7	1,512	4,497	2,704	2.36
September.....	121.9	113.1	-8.8	...	1,221	4,215	2,688	2.47
October.....	122.3	115.1	-7.2	...	2,038	5,176	2,224	1.92
November.....	114.2	113.3	-0.9	+0.6	1,125	4,138	1,566	1.97
December.....	122.7	118.5	-4.2	...	1,182	4,090	2,041	1.48
1964								
January.....	129.6	114.8	-14.8	...	1,071	4,370	2,337	2.67
February.....	117.2	123.4	+6.2	-2.4	2,067	5,484	2,854	2.40
March.....	120.3	115.3	-5.0	...	1,030	3,731	1,603	2.18
April.....	123.2	126.6	+3.4	...	1,516	4,592	2,529	2.37
May.....	110.3	105.1	-5.2	r-7.8	2,192	4,941	2,465	2.48
June.....	120.0	114.4	-5.6	...	1,030	4,239	1,663	2.34
July.....	126.9	116.4	-10.5	...	1,691	5,274	3,016	3.29
August.....	117.1	110.0	-7.1	p-5.2	716	4,147	1,915	r1.86
September.....	124.1	114.1	-10.0	...	1,165	4,472	2,291	r2.00
October.....	119.3	113.1	-6.2	...	(NA)	(NA)	(NA)	p2.10
November.....								
December.....								

Table 2.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	Other U.S. series with business cycle significance--Continued					
	93. Free reserves*	85. Change in total U.S. money supply	98. Change in money supply and time deposits	110. Total private borrowing	111. Corporate gross savings	112. Change, business loans
	(Mil. dol.)	(Percent)	(Percent)	(Annual rate, million dollars)	(Annual rate, million dollars) Revised ¹	(Annual rate, billion dollars)
1961						
January.....	+696	+0.07	+0.37	...	...	+0.54
February.....	+517	+0.28	+0.79	30,856	30,228	-0.77
March.....	+486	+0.28	+0.46	...	...	+0.92
April.....	+551	+0.21	+0.46	...	...	-0.37
May.....	+453	+0.28	+0.64	36,664	33,276	-0.31
June.....	+549	+0.21	+0.55	...	...	-1.50
July.....	+530	0.00	+0.45	...	...	+2.18
August.....	+537	+0.21	+0.50	40,928	33,084	+1.00
September.....	+547	+0.42	+0.58	...	...	+0.56
October.....	+442	+0.28	+0.53	...	...	+0.01
November.....	+517	+0.55	+0.71	41,464	35,528	-0.01
December.....	+419	+0.28	+0.44	...	...	+1.72
1962						
January.....	+555	0.00	+0.57	...	...	+2.90
February.....	+434	+0.14	+0.91	42,712	36,388	+1.51
March.....	+382	+0.21	+0.91	...	...	+2.23
April.....	+441	+0.27	+0.64	...	...	+2.09
May.....	+440	-0.20	+0.13	53,184	37,728	+2.09
June.....	+391	+0.07	+0.51	...	...	+2.77
July.....	+440	-0.07	+0.38	...	...	+2.66
August.....	+439	-0.07	+0.34	47,644	38,924	+3.85
September.....	+375	-0.14	+0.38	...	...	+2.82
October.....	+419	+0.34	+0.71	...	...	+2.82
November.....	+473	+0.48	+0.87	50,608	40,524	+2.28
December.....	+268	+0.41	+0.95	...	...	+0.95
1963						
January.....	+375	+0.27	+0.69	...	...	+2.26
February.....	+301	+0.27	+0.69	46,404	39,584	+1.01
March.....	+269	+0.34	+0.76	...	...	+1.01
April.....	+313	+0.20	+0.48	...	...	+1.57
May.....	+247	+0.27	+0.48	55,320	39,048	+3.18
June.....	+138	+0.40	+0.63	...	...	+1.74
July.....	+161	+0.53	+0.71	...	...	+1.97
August.....	+133	+0.13	+0.66	57,324	40,012	+2.03
September.....	+91	+0.26	+0.54	...	...	+2.94
October.....	+94	+0.46	+0.73	...	...	+4.67
November.....	+33	+0.79	+1.15	61,072	38,920	+6.10
December.....	+209	-0.20	+0.34	...	...	+5.34
1964						
January.....	+171	+0.39	+0.83	...	...	+2.26
February.....	+91	0.00	+0.45	46,280	43,252	+3.05
March.....	+98	+0.26	+0.37	...	...	+0.05
April.....	+162	+0.19	+0.37	...	...	+1.81
May.....	+78	0.00	+0.37	63,876	44,164	+5.60
June.....	+118	+0.71	+0.81	...	...	+3.88
July.....	+132	+0.71	+0.73	...	...	+3.84
August.....	+79	+0.32	+0.62	55,324	44,676	+4.75
September.....	+90	+0.51	+0.68	...	...	+5.24
October.....	p+103	p+0.38	p+0.72	...	...	+1.91
November.....						
December.....						

¹See "New Features and Changes for This Issue," page ii.

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by **L** and current highs, by **H**; the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	Other U.S. series with business cycle significance--Continued					
	113. Change, consumer installment debt	114. Treasury bill rate*	115. Treasury bond yields*	116. Corporate bond yields*	117. Municipal bond yields*	118. Mortgage yields*
1961	(Annual rate, billion dollars)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
January.....	-0.36	2.30	3.89	4.63	3.40	6.00
February.....	-0.89	2.41	3.81	4.43	3.31	5.89
March.....	+0.07	2.42	3.78	4.36	3.45	5.82
April.....	-2.09	2.33	3.80	4.56	3.50	5.77
May.....	+0.04	2.29	3.73	4.61	3.43	5.74
June.....	+0.30	2.36	3.88	4.73	3.52	5.72
July.....	+0.10	2.27	3.90	4.74	3.52	5.68
August.....	+1.01	2.40	4.00	4.75	3.52	5.68
September.....	+0.78	2.30	4.02	4.69	3.53	5.69
October.....	+2.03	2.35	3.98	4.45	3.42	5.70
November.....	+2.65	2.46	3.98	4.48	3.41	5.70
December.....	+3.98	2.62	4.06	4.56	3.47	5.69
1962						
January.....	+2.23	2.75	4.08	4.55	3.34	5.69
February.....	+3.12	2.75	4.09	4.54	3.21	5.68
March.....	+3.74	2.72	4.01	4.42	3.14	5.65
April.....	+5.82	2.74	3.89	4.31	3.06	5.64
May.....	+5.04	2.69	3.88	4.26	3.11	5.60
June.....	+4.67	2.72	3.90	4.30	3.26	5.59
July.....	+4.49	2.94	4.02	4.41	3.28	5.58
August.....	+4.66	2.84	3.98	4.39	3.23	5.57
September.....	+3.00	2.79	3.94	4.28	3.11	5.56
October.....	+4.42	2.75	3.89	4.27	3.02	5.55
November.....	+5.80	2.80	3.87	4.23	3.04	5.54
December.....	+5.82	2.86	3.87	4.28	3.07	5.53
1963						
January.....	+5.82	2.91	3.89	4.22	3.10	5.52
February.....	+5.94	2.92	3.92	4.25	3.15	5.48
March.....	+5.72	2.90	3.93	4.26	3.05	5.47
April.....	+6.25	2.91	3.97	4.35	3.10	5.46
May.....	+5.29	2.92	3.97	4.35	3.11	5.45
June.....	+5.83	3.00	4.00	4.32	3.21	5.45
July.....	+6.11	3.14	4.01	4.34	3.22	5.45
August.....	+5.77	3.32	3.99	4.33	3.13	5.45
September.....	+4.09	3.38	4.04	4.40	3.20	5.45
October.....	+6.37	3.45	4.07	4.36	3.20	5.45
November.....	+4.60	3.52	4.11	4.42	3.30	5.45
December.....	+5.52	3.52	4.14	4.49	3.27	5.45
1964						
January.....	+5.14	3.53	4.15	4.49	3.22	5.45
February.....	+6.95	3.53	4.14	4.38	3.14	5.45
March.....	+6.29	3.55	4.18	4.45	3.28	5.45
April.....	+4.94	3.48	4.20	4.49	3.28	5.45
May.....	+5.92	3.48	4.16	4.48	3.20	5.45
June.....	+4.44	3.48	4.13	4.49	3.20	5.45
July.....	+5.80	3.48	4.13	4.43	3.18	5.46
August.....	+5.22	3.51	4.14	4.43	3.19	5.46
September.....	+6.16	3.53	4.16	4.49	3.23	5.46
October.....	(NA)	3.58	4.16	4.49	3.25	5.45
November.....						
December.....						

Table 2.—BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT—Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (D) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	Other U.S. series with business cycle significance—Continued							
	86. Exports excluding military aid shipments, total	87. General imports, total	88. Merchandise trade balance (series 86 minus series 87)	89. Excess, receipts (+) or payments (-) in U.S. balance of payments	81. Consumer prices	94. Construction contracts, total value	96. Manufacturers' unfilled orders, durable goods industries	97. Backlog of capital appropriations, manufacturing ¹
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(1957-59=100)	(1957-59=100)	(Bil. dol.)	(Bil. dol.)
1961								
January.....	1,622.7	1,161.4	+461.3	...	103.9	108	43.01	...
February.....	1,711.6	1,149.8	+561.8	-486	104.0	95	42.94	...
March.....	1,750.7	1,162.9	+587.8	...	104.0	104	42.52	7.51
April.....	1,661.5	1,152.0	+509.5	...	103.9	103	42.88	...
May.....	1,585.1	1,152.9	+432.2	² +47	103.9	102	42.95	...
June.....	1,581.9	1,173.8	+408.1	...	104.1	111	43.06	7.39
July.....	1,688.5	1,379.3	+309.2	...	104.4	110	43.43	...
August.....	1,688.9	1,253.6	+435.3	-700	104.4	116	43.85	...
September.....	1,678.4	1,262.0	+416.4	...	104.5	103	43.86	7.66
October.....	1,779.8	1,300.1	+479.7	...	104.5	114	44.11	...
November.....	1,733.1	1,308.5	+424.6	-1,231	104.5	116	44.52	...
December.....	1,724.8	1,314.5	+410.3	...	104.5	119	45.17	7.63
1962								
January.....	1,668.3	1,326.5	+341.8	...	104.7	115	45.80	...
February.....	1,809.3	1,319.8	+489.5	-748	104.9	119	46.42	...
March.....	1,672.0	1,341.7	+330.3	...	105.1	131	45.75	6.82
April.....	1,795.4	1,365.0	+430.4	...	105.3	121	45.41	...
May.....	1,761.7	1,404.1	+357.6	-440	105.4	117	44.95	...
June.....	1,835.6	1,350.7	+484.9	...	105.4	120	44.58	6.81
July.....	1,748.3	1,346.6	+401.7	...	105.3	117	44.33	...
August.....	1,702.5	1,345.9	+356.6	-334	105.5	118	43.73	...
September.....	1,907.9	1,471.4	+436.5	...	105.9	113	43.37	6.87
October.....	1,542.8	1,312.1	+230.7	...	105.8	117	43.58	...
November.....	1,724.6	1,424.9	+299.7	-681	105.8	123	43.18	...
December.....	1,838.7	1,376.5	+462.2	...	105.9	138	44.09	7.29
1963								
January.....	984.8	1,091.6	-106.8	...	106.1	121	45.06	...
February.....	2,117.5	1,497.4	+620.1	-1,062	106.1	130	45.74	...
March.....	1,960.4	1,486.7	+473.7	...	106.2	118	46.68	7.06
April.....	1,912.7	1,417.2	+495.5	...	106.3	125	47.53	...
May.....	1,892.6	1,420.2	+472.4	-1,295	106.4	144	47.86	...
June.....	1,784.7	1,420.5	+364.2	...	106.7	135	47.28	7.53
July.....	1,823.0	1,457.5	+365.5	...	106.9	126	46.74	...
August.....	1,894.6	1,508.3	+386.3	-153	107.1	132	46.70	...
September.....	1,979.6	1,450.4	+529.2	...	106.9	128	47.07	8.02
October.....	1,946.4	1,458.8	+487.6	...	107.0	146	47.17	...
November.....	1,944.6	1,471.9	+472.7	-134	107.2	144	47.08	...
December.....	2,049.4	1,480.0	+569.4	...	107.7	148	46.68	8.75
1964								
January.....	2,037.3	1,421.8	+615.5	...	107.8	147	47.07	...
February.....	2,028.7	1,445.3	+583.4	-85	107.6	143	47.64	...
March.....	2,077.5	1,522.9	+554.6	...	107.7	140	47.80	8.96
April.....	2,046.0	1,542.1	+503.9	...	107.9	138	48.84	...
May.....	2,052.1	1,548.1	+504.0	-733	108.0	138	49.22	...
June.....	2,004.3	1,505.5	+498.8	...	108.1	138	50.04	(NA)
July.....	2,111.4	1,589.6	+521.8	...	108.1	140	51.30	...
August.....	2,084.9	1,592.2	+492.7	p-565	108.2	121	r51.37	...
September.....	2,271.2	1,557.5	+713.7	...	108.2	131	r52.16	...
October.....	(NA)	(NA)	(NA)	...	(NA)	(NA)	p52.86	...
November.....								
December.....								

¹ See "New Features and Changes for This Issue," page ii.

² Includes \$650 million in special debt payments to the United States.

Table 2.--BASIC DATA FOR BUSINESS CYCLE SERIES: JANUARY 1961 TO PRESENT--Continued

Series are seasonally adjusted except those that appear to contain no seasonal movement. Unadjusted series are indicated by an asterisk (*). Low values preceding current highs are indicated by (L) and current highs, by (H); the reverse is true for inverse series (series 3, 4, 5, 14, 15, 40, 43, and 45). Series numbers are for identification only and do not reflect series relationships or order. Complete titles and sources are shown on the back cover. The "r" indicates revised; "p", preliminary; "e", estimated; "a", anticipated; and "NA", not available.

Year and month	International comparisons of industrial production							
	47. United States, industrial production	123. Canada, industrial production	122. United Kingdom, industrial production	121. OECD, ¹ European countries, industrial production	125. West Germany, industrial production	126. France, industrial production	127. Italy, industrial production	128. Japan, industrial production
	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)	(1957-59=100)
1961								
January.....	104	104	109	117	124	115	130	155
February.....	104	105	110	119	125	116	134	154
March.....	104	105	110	119	126	116	134	158
April.....	107	107	111	120	126	116	134	159
May.....	109	107	110	119	124	117	136	162
June.....	110	109	113	120	121	117	136	165
July.....	112	109	113	120	122	118	138	169
August.....	113	111	111	119	121	118	137	172
September.....	112	112	110	120	124	119	140	172
October.....	113	112	109	121	123	119	145	175
November.....	115	114	109	122	124	119	149	176
December.....	116	114	109	123	128	122	148	177
1962								
January.....	115	113	108	122	126	122	149	182
February.....	116	115	110	124	129	123	151	178
March.....	118	116	111	123	125	124	149	181
April.....	118	116	110	124	128	123	151	181
May.....	118	117	113	125	129	124	153	182
June.....	118	118	114	124	130	123	147	180
July.....	119	118	113	125	130	125	151	179
August.....	119	119	114	126	131	125	149	180
September.....	120	119	115	127	132	126	150	181
October.....	119	119	110	127	132	128	153	179
November.....	120	120	113	128	133	128	158	179
December.....	119	120	110	127	132	126	160	178
1963								
January.....	120	120	110	127	129	127	158	179
February.....	121	121	111	126	128	125	155	184
March.....	122	122	113	127	132	116	161	184
April.....	123	122	114	130	133	129	165	191
May.....	124	123	115	131	133	133	165	190
June.....	126	123	115	132	139	134	166	191
July.....	126	121	116	132	r134	129	163	203
August.....	125	123	118	r132	r136	129	166	202
September.....	126	125	117	r134	r136	136	171	207
October.....	126	126	120	135	r138	137	171	211
November.....	126	128	121	136	r140	136	173	214
December.....	127	131	121	136	r139	138	170	217
1964								
January.....	128	133	123	139	r142	140	r173	217
February.....	128	134	123	139	r144	139	169	226
March.....	129	133	123	140	r145	139	173	223
April.....	130	135	r124	r139	r140	141	169	224
May.....	131	132	r123	r141	r150	140	166	228
June.....	132	133	r123	r138	r143	141	162	235
July.....	133	133	r122	r138	r147	132	164	235
August.....	134	p135	p123	p138	146	132	(NA)	r233
September.....	134	(NA)	(NA)	(NA)	p142	p141	(NA)	p238
October.....	p132				(NA)	(NA)		(NA)
November.....								
December.....								

¹Organization for Economic Cooperation and Development.

Analytical Measures

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

Number of months before benchmark date that high was reached	Number of series that reached a high before benchmark dates--							
	Business cycle peak				3d month before business cycle peak			
	Nov. 1948	July 1953	July 1957	May 1960	Aug. 1948	Apr. 1953	Apr. 1957	Feb. 1960
	NBER LEADING INDICATORS							
8 months or more.....	12	7	22	14	11	3	20	12
7 months.....	1	1	...	2	1	4	...	1
6 months.....	...	3	1	1	...	...	1	...
5 months.....	4	1	...	3	...	2	1	1
4 months.....	1	...	...	2	1	2	...	2
3 months.....	...	2	...	1	...	3	1	1
2 months.....	...	2	...	...	4	1	...	3
1 month.....	...	...	...	...	1	...	...	2
Benchmark month.....	...	3	...	...	...	4	...	1
Number of series used.....	¹ 18	² 19	23	23	¹ 18	² 19	23	23
Percent of series high on benchmark date.	0	16	0	0	0	21	0	4
	NBER ROUGHLY COINCIDENT INDICATORS							
8 months or more.....	3	1	2	1	1	...	1	1
7 months.....	...	...	...	...	2	...	...	...
6 months.....	...	...	...	...	...	...	1	...
5 months.....	...	1	1	...	...	2	...	...
4 months.....	4	1	3	2	...	...	1	1
3 months.....	1	...	...	3	...	...	...	...
2 months.....	2	2	...	...	...	1	2	...
1 month.....	...	3	...	2	4	4	3	3
Benchmark month.....	1	3	5	3	4	4	3	6
Number of series used.....	11	11	11	11	11	11	11	11
Percent of series high on benchmark date.	9	27	45	27	36	36	27	51
Number of months before benchmark date that high was reached	6th month before business cycle peak				Current expansion			
	May 1948	Jan. 1953	Jan. 1957	Nov. 1959	July 1964	Aug. 1964	Sept. 1964	Oct. 1964
	NBER LEADING INDICATORS							
8 months or more.....	6	2	17	4	10	9	7	4
7 months.....	1	1	1	4	1	...	1	...
6 months.....	...	2	1	4	...	1	...	1
5 months.....	4	1	1	2	1	...	2	1
4 months.....	2	4	...	4	...	2	1	...
3 months.....	...	1	1	...	2	1	...	...
2 months.....	2	2	1	1	3	...	2	...
1 month.....	2	3	...	2	2	4	3	...
Benchmark month.....	1	3	1	2	4	6	7	...
Number of series used.....	¹ 18	² 19	23	23	23	23	23	16
Percent of series high on benchmark date.	6	16	4	9	17	26	30	11
	NBER ROUGHLY COINCIDENT INDICATORS							
8 months or more.....	1	...	1	...	...	...	...	...
7 months.....	...	...	...	...	...	...	...	...
6 months.....	...	...	...	...	...	...	...	...
5 months.....	...	...	...	4	...	...	1	...
4 months.....	4	...	...	2	...	1	1	...
3 months.....	...	...	2	...	1	1	...	...
2 months.....	...	2	...	...	1	...	1	...
1 month.....	1	3	5	2	...	2	1	...
Benchmark month.....	5	6	3	3	9	7	7	...
Number of series used.....	11	11	11	11	11	11	11	1
Percent of series high on benchmark date.	45	55	27	27	82	64	64	4

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

¹5 series were not available.

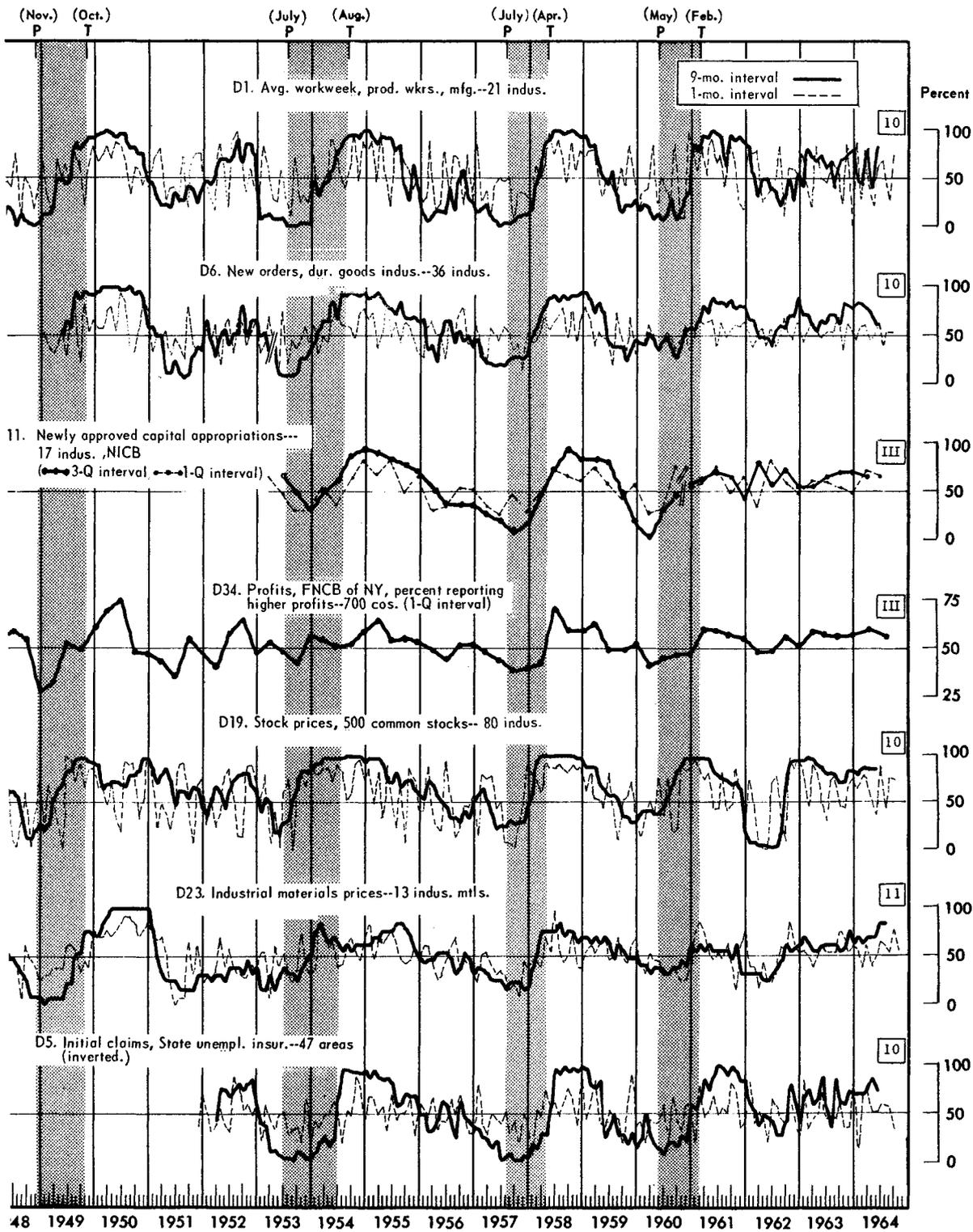
²2 series were not available and 2 series were omitted because their peaks were reached during the Korean War and such peaks were disregarded in this distribution.

CHART 2

DIFFUSION INDEXES: 1948 TO PRESENT

A

NBER Leading Indicators



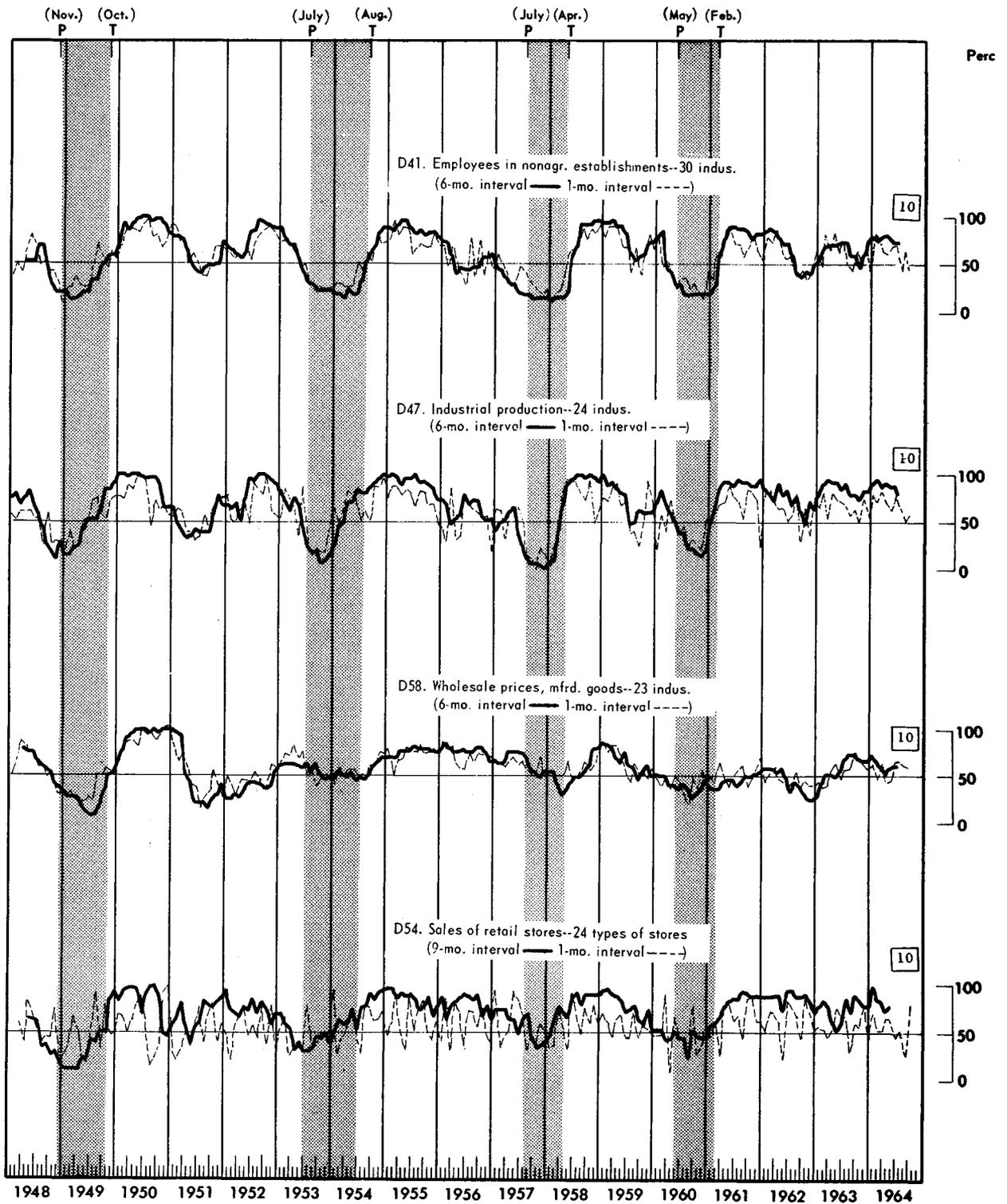
"How to Read Charts 1, 2, and 3," page 5.

CHART 2

DIFFUSION INDEXES: 1948 TO PRESENT--Con.

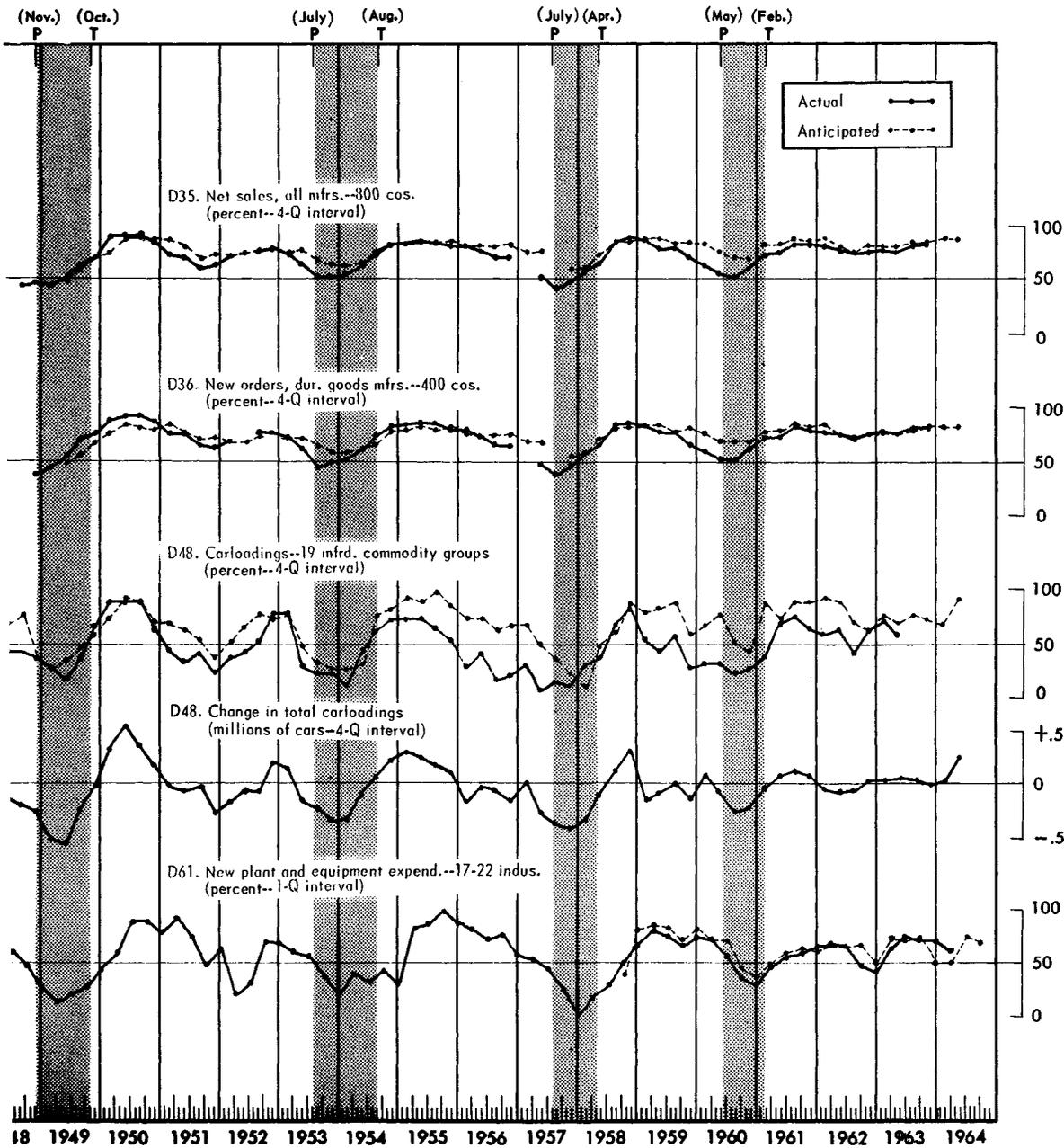
B

NBER Roughly Coincident Indicators



See "How to Read Charts 1, 2, and 3," page 5.

CHART 3 DIFFUSION INDEXES, ACTUAL AND ANTICIPATED: 1948 TO PRESENT



are centered within intervals. Latest data are as follows:

Series number and date of survey	Latest interval shown	
	Actual	Anticipated
D35, D36 (July 1964)	2nd Q 1963 - 2nd Q 1964	4th Q 1963 - 4th Q 1964
D48 (Sept. 1964)	4th Q 1962 - 4th Q 1963	4th Q 1963 - 4th Q 1964
D 61 (August 1964)	1st Q 1964 - 2nd Q 1964	3rd Q 1964 - 4th Q 1964

How to Read Charts 1, 2, and 3, page 5.

Analytical Measures

Table 4.--DIFFUSION INDEXES FOR 11 MAJOR ECONOMIC ACTIVITIES: JANUARY 1961 TO PRESENT

Percent of series components rising. Numbers are centered within intervals: 1-month figures are placed on latest month; 6-month figures are placed on the 4th month and 9-month figures are placed on the 6th month of span; 4-quarter figures are centered in the middle quarter; 3-quarter figures are placed on the 1st month of the 3d quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D19, which requires no adjustment, and D34, which is adjusted only for the index. Table 6 identifies the components for most of the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available.

Year and month	NBER Leading indexes					
	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 interval	9-month interval	1-month interval	9-month interval	1-quarter interval	3-quarter interval
1961						
January.....	95.2	38.1	33.3	59.7	53	5
February.....	71.4	85.7	48.6	56.9	...	..
March.....	54.8	76.2	66.7	66.7	...	..
April.....	81.0	95.2	62.5	80.6	59	6
May.....	45.2	90.5	63.9	72.2	...	..
June.....	90.5	100.0	66.7	88.9	...	..
July.....	64.3	95.2	36.1	81.9	76	7
August.....	73.8	90.5	63.9	83.3	...	..
September.....	38.1	61.9	47.2	79.2	...	..
October.....	85.7	95.2	55.6	86.1	47	6
November.....	66.7	88.1	61.1	76.4	...	..
December.....	23.8	92.9	58.3	80.6	...	..
1962						
January.....	14.3	85.7	63.9	77.8	65	4
February.....	73.8	81.0	52.8	63.9	...	..
March.....	73.8	52.4	36.1	63.9	...	..
April.....	76.2	31.0	51.4	47.2	32	8
May.....	21.4	50.0	56.9	47.2	...	..
June.....	28.6	50.0	37.5	45.8	...	..
July.....	35.7	38.1	56.9	36.1	82	5
August.....	47.6	35.7	36.1	52.8	...	..
September.....	81.0	21.4	48.6	59.7	...	..
October.....	7.1	33.3	68.1	56.9	59	7
November.....	59.5	50.0	50.0	70.8	...	..
December.....	59.5	26.2	47.2	69.4	...	..
1963						
January.....	52.4	59.5	63.9	88.9	47	4
February.....	73.8	40.5	43.1	69.4	...	..
March.....	40.5	81.0	54.2	66.7	...	..
April.....	16.7	71.4	63.9	63.9	59	4
May.....	81.0	66.7	52.8	52.8	...	..
June.....	47.6	73.8	47.2	66.7	...	..
July.....	45.2	59.5	51.4	62.5	59	6
August.....	42.9	66.7	52.8	72.2	...	..
September.....	66.7	38.1	52.8	69.4	...	..
October.....	57.1	69.0	69.4	58.3	53	7
November.....	21.4	69.0	33.3	83.3	...	..
December.....	83.3	76.2	62.5	77.8	...	..
1964						
January.....	0.0	78.6	55.6	76.4	47	4
February.....	85.7	45.2	44.4	83.3	...	..
March.....	28.6	42.9	58.3	80.6	...	..
April.....	78.6	r81.0	61.1	r75.0	71	4
May.....	35.7	r40.5	44.4	72.2	...	..
June.....	21.4	p83.3	50.0	p62.5	...	..
July.....	61.9		63.9		65	
August.....	69.0		r40.3			
September.....	r26.2		r52.8			
October.....	p73.8		p52.8			
November.....						
December.....						

Table 4.--DIFFUSION INDEXES FOR 11 MAJOR ECONOMIC ACTIVITIES: JANUARY 1961 TO PRESENT--Continued

percent of series components rising. Numbers are centered within intervals: 1-month figures are placed on latest month; 6-month figures are placed on the 4th month and 9-month figures are placed on the 6th month of span; 4-quarter figures are centered in the middle quarter; 3-quarter figures are placed on the 1st month of the 3d quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D19, which requires no adjustment, and D34, which is adjusted only for the index. Table 6 identifies the components for most of the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available.

Year and month	NBER Leading indexes--Continued						
	D34. Profits, mfg., FNCE (around 700 corporations)	D19. Index of stock prices, 500 common stocks (80 industries) ¹		D23. Index of industrial materials prices (13 industrial materials)		D5. Initial claims for unemployment insurance, State programs, week ended nearest the 22d (47 areas)	
	1-quarter interval	1-month interval	9-month interval	1-month interval	9-month interval	1-month interval	9-month interval
1961							
January.....	47	86.9	97.5	42.3	61.5	59.6	59.6
February.....	...	96.2	97.5	76.9	53.8	17.0	53.2
March.....	...	85.6	97.5	84.6	61.5	78.7	64.9
April.....	60	72.5	97.5	73.1	53.8	44.7	85.1
May.....	...	81.9	95.6	53.8	61.5	53.2	72.3
June.....	...	40.0	81.2	46.2	53.8	66.0	89.4
July.....	58	42.5	76.2	53.8	53.8	46.8	100.0
August.....	...	81.2	73.7	46.2	53.8	55.3	95.7
September.....	...	40.0	71.2	61.5	53.8	51.1	87.2
October.....	56	46.9	67.5	38.5	46.2	80.9	97.9
November.....	...	87.5	70.0	15.4	61.5	74.5	91.5
December.....	...	55.0	62.5	61.5	30.8	27.7	80.9
1962							
January.....	54	25.6	17.5	76.9	30.8	42.6	83.0
February.....	...	75.0	6.2	38.5	30.8	83.0	57.4
March.....	...	47.5	7.5	38.5	30.8	38.3	51.1
April.....	47	8.7	3.1	15.4	30.8	51.1	34.0
May.....	...	1.2	3.7	42.3	23.1	42.6	48.9
June.....	...	1.2	2.5	26.9	23.1	19.1	44.7
July.....	48	69.4	1.2	23.1	30.8	66.0	40.4
August.....	...	78.1	3.7	34.6	38.5	55.3	25.5
September.....	...	36.2	18.7	61.5	46.2	42.6	25.5
October.....	56	8.1	67.5	53.8	61.5	39.4	42.6
November.....	...	98.7	93.7	84.6	53.8	69.1	79.8
December.....	...	84.4	95.0	61.5	57.7	40.4	59.6
1963							
January.....	50	97.5	95.0	53.8	61.5	23.4	38.3
February.....	...	78.7	95.0	53.8	69.2	85.1	68.1
March.....	...	43.7	98.7	50.0	61.5	31.9	74.5
April.....	59	91.2	95.0	38.5	53.8	44.7	57.4
May.....	...	85.0	89.1	50.0	53.8	48.9	63.8
June.....	...	51.9	84.6	61.5	61.5	70.2	87.2
July.....	56	29.4	78.2	53.8	61.5	42.6	48.9
August.....	...	75.0	79.5	53.8	61.5	48.9	34.0
September.....	...	76.9	77.6	53.8	61.5	44.7	85.1
October.....	55	44.9	69.2	76.9	53.8	61.7	59.6
November.....	...	44.9	71.2	69.2	57.7	31.9	57.4
December.....	...	68.4	84.4	53.8	76.9	34.0	74.5
1964							
January.....	57	74.7	83.1	61.5	61.5	85.1	69.1
February.....	...	65.2	78.2	57.7	69.2	12.8	70.2
March.....	...	78.5	86.5	38.5	61.5	66.0	69.1
April.....	60	75.6	85.9	61.5	69.2	75.5	76.6
May.....	...	52.6	84.6	38.5	69.2	51.1	87.2
June.....	...	35.3	84.6	50.0	84.6	51.1	72.3
July.....	57	89.7	...	65.4	² 84.6	59.6	...
August.....	...	41.0	...	61.5	...	57.4	...
September.....	...	76.3	...	53.8	...	55.3	...
October.....	...	73.1	...	76.9	...	34.0	...
November.....	...	...	...	² 53.8	...	...	...
December.....	...	...	...	...	...	...	...

¹The diffusion index is based on 82 components, January 1961 to February 1963; on 80 components, March 1963 to August 1963; on 79 components, September 1963 to March 1964; and on 78 components thereafter. 18 components and 5 composites, representing an additional 23 components, are shown in the direction-of-change table (table 6).

²Average for November 17, 18, and 19.

Analytical Measures

Table 4.—DIFFUSION INDEXES FOR 11 MAJOR ECONOMIC ACTIVITIES: JANUARY 1961 TO PRESENT—Continued

Percent of series components rising. Numbers are centered within intervals: 1-month figures are placed on latest month 6-month figures are placed on the 4th month and 9-month figures are placed on the 6th month of span; 4-quarter figure are centered in the middle quarter; 3-quarter figures are placed on the 1st month of the 3d quarter; 1-quarter figure are placed in the 1st month of the 2d quarter. Seasonally adjusted components are used except in indexes D19, which requires no adjustment, and D34, which is adjusted only for the index. Table 6 identifies the components for most of the indexes shown. The "r" indicates revised; "p", preliminary; and "NA", not available.

Year and month	NBER Roughly Coincident indexes							
	D41. Number of employees in nonagricultural establishments (30 industries)		D47. Index of industrial production (24 industries)		D54. Sales of retail stores (24 types of stores)		D58. Index of wholesale prices (23 manufacturing industries)	
	1-month interval	6-month interval	1-month interval	6-month interval	1-month interval	9-month interval	1-month interval	6-month interval
1961								
January.....	45.0	20.0	56.3	52.1	58.3	41.7	39.1	37.0
February.....	33.3	30.0	50.0	66.7	41.7	58.3	47.8	34.8
March.....	61.7	66.7	62.5	87.5	60.4	62.5	41.3	37.0
April.....	56.7	78.3	70.8	93.8	22.9	68.8	65.2	45.7
May.....	86.7	90.0	72.9	91.7	79.2	79.2	45.7	47.8
June.....	88.3	90.0	91.7	87.5	77.1	85.4	37.0	47.8
July.....	70.0	86.7	77.1	95.8	60.4	87.5	50.0	39.1
August.....	70.0	86.7	72.9	91.7	68.8	87.5	56.5	45.7
September.....	56.7	83.3	54.2	91.7	39.6	95.8	60.9	52.2
October.....	71.7	75.0	87.5	87.5	83.3	91.7	39.1	50.0
November.....	81.7	81.7	83.3	87.5	87.5	87.5	47.8	54.3
December.....	63.3	81.7	75.0	95.8	60.4	89.6	56.5	56.5
1962								
January.....	55.0	85.0	25.0	83.3	58.3	87.5	69.6	60.9
February.....	80.0	88.3	87.5	79.2	50.0	91.7	43.5	60.9
March.....	71.7	83.3	87.5	70.8	70.8	91.7	52.2	58.7
April.....	86.7	76.7	75.0	91.7	68.8	89.6	58.7	54.3
May.....	71.7	70.0	64.6	77.1	58.3	89.6	45.7	60.9
June.....	55.0	71.7	66.7	83.3	18.8	72.9	43.5	47.8
July.....	56.7	58.3	52.1	66.7	83.3	95.8	39.1	32.6
August.....	46.7	38.3	58.3	77.1	75.0	95.8	41.3	45.7
September.....	36.7	35.0	83.3	60.4	64.6	87.5	54.3	39.1
October.....	45.0	43.3	29.2	47.9	39.6	87.5	34.8	30.4
November.....	33.3	40.0	68.8	72.9	87.5	91.7	45.7	23.9
December.....	43.3	51.7	35.4	62.5	66.7	83.3	39.1	26.1
1963								
January.....	63.3	56.7	79.2	83.3	50.0	70.8	39.1	30.4
February.....	48.3	70.0	66.7	91.7	54.2	79.2	43.5	45.7
March.....	83.3	71.7	83.3	95.8	52.1	85.4	37.0	54.3
April.....	66.7	71.7	54.2	91.7	41.7	77.1	41.3	52.2
May.....	85.0	73.3	83.3	91.7	52.1	60.4	58.7	50.0
June.....	61.7	75.0	75.0	83.3	75.0	52.1	63.0	58.7
July.....	75.0	73.3	72.9	91.7	66.7	62.5	47.8	71.7
August.....	48.3	58.3	68.8	77.1	64.6	87.5	r60.9	76.1
September.....	43.3	58.3	58.3	79.2	25.0	70.8	58.7	73.9
October.....	65.0	45.0	64.6	72.9	58.3	91.7	r73.9	69.6
November.....	45.0	63.3	50.0	83.3	54.2	83.3	69.6	67.4
December.....	70.0	76.7	77.1	83.3	77.1	77.1	60.9	67.4
1964								
January.....	43.3	80.0	58.3	91.7	43.8	79.2	58.7	73.9
February.....	83.3	75.0	79.2	95.8	70.8	100.0	63.0	67.4
March.....	76.7	80.0	70.8	85.4	52.1	85.4	45.7	60.9
April.....	63.3	83.3	83.3	91.7	52.1	r83.3	63.0	50.0
May.....	60.0	76.7	70.8	87.5	66.7	r75.0	43.5	60.9
June.....	70.0	r73.3	62.5	r89.6	66.7	p79.2	45.7	63.0
July.....	70.0	p73.3	r79.2	p79.2	45.8		65.2	p63.0
August.....	r43.3		r68.8		r52.1		67.4	
September.....	r68.3		r50.0		r33.3		r60.9	
October.....	p46.7		p58.3		p81.2		p58.7	
November.....								
December.....								

Table 5.-DIFFUSION INDEXES, ACTUAL AND ANTICIPATED, FOR 4 MANUFACTURING ACTIVITIES: JANUARY 1961 TO PRESENT

Percent of series components rising. Numbers are centered within intervals: 4-quarter figures are centered in the middle quarter; 1-quarter figures are placed in the 1st month of the 2d quarter. "r" indicates revised; "p", preliminary; and "NA", not available.

Year and month	D35. Net sales, manufactures (800 companies) 4-quarter interval		D36. New orders, durable manufactures (400 companies) 4-quarter interval		D48. Freight carloadings (19 manufactured commodity groups) 4-quarter interval			D61. New plant and equipment expenditures (16 industries) 1-quarter interval	
	Actual	Anticipated	Actual	Anticipated	Actual	Anticipated	Change in total (000)	Actual	Anticipated
1961									
January.....	...	...	...	...	...	...	...	28.1	37.5
February.....	72	82	72	78	36.8	89.5	-28	...	...
March.....	...	...	...	...	...	...	...	...	...
April.....	...	...	...	...	...	...	...	46.9	53.1
May.....	74	83	73	78	68.4	73.7	+79	...	...
June.....	...	...	...	...	...	...	...	...	...
July.....	...	...	...	...	...	...	...	56.2	62.5
August.....	82	88	82	86	73.7	89.5	+125	...	...
September.....	...	...	...	...	...	...	...	...	...
October.....	...	...	...	...	...	...	...	59.4	65.6
November.....	81	86	78	82	63.2	89.5	+62	...	...
December.....	...	...	...	...	...	...	...	...	...
1962									
January.....	...	...	...	...	...	...	...	65.6	62.5
February.....	80	88	76	84	57.9	94.7	r-66	...	...
March.....	...	...	...	...	...	...	...	...	...
April.....	...	...	...	...	...	...	...	68.8	68.8
May.....	76	80	74	74	63.2	89.5	-96	...	...
June.....	...	...	...	...	...	...	...	...	...
July.....	...	...	...	...	...	...	...	65.6	65.6
August.....	72	74	71	70	42.1	68.4	r-67	...	...
September.....	...	...	...	...	...	...	...	...	...
October.....	...	...	...	...	...	...	...	46.9	68.8
November.....	74	82	76	76	63.2	63.2	r+29	...	...
December.....	...	...	...	...	...	...	...	...	...
1963									
January.....	...	...	...	...	...	...	...	40.6	50.0
February.....	76	80	77	76	73.7	78.9	+39	...	...
March.....	...	...	...	...	...	...	...	...	...
April.....	...	...	...	...	...	...	...	65.6	75.0
May.....	74	80	76	76	57.9	68.4	+44	...	...
June.....	...	...	...	...	...	...	...	...	...
July.....	...	...	...	...	...	...	...	75.0	71.9
August.....	82	84	82	80	...	78.9	r+40	...	...
September.....	...	...	...	...	...	...	...	...	...
October.....	...	...	...	...	...	...	...	71.9	75.0
November.....	84	85	82	84	...	73.7	r-13	...	...
December.....	...	...	...	...	...	...	...	...	...
1964									
January.....	...	...	...	...	...	...	...	71.9	50.0
February.....	(NA)	87	(NA)	84	...	68.4	r+34	...	...
March.....	...	...	...	...	...	...	...	...	...
April.....	...	...	...	...	...	...	...	62.5	50.0
May.....	...	86	...	84	...	94.7	e+252	...	...
June.....	...	...	...	...	...	...	...	...	...
July.....	...	...	...	...	...	...	...	(NA)	75.0
August.....	...	...	...	...	...	...	...	...	...
September.....	...	...	...	...	...	...	...	...	...
October.....	...	...	...	...	...	...	...	...	68.8
November.....	...	...	...	...	...	...	...	...	...
December.....	...	...	...	...	...	...	...	...	...

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS AND PERCENT OF SERIES RISING: JULY 1963 TO PRESENT

(D6) Value of Manufacturers' New Orders, Durable Goods Industries

36 industry components	1-month spans												9-month spans																						
	1963						1964						1963						1964																
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec	Apr-Jan	May-Feb	Jun-Mar	Jul-Apr	Aug-May	Sep-Jun	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec
Percent rising.....	51	53	53	69	33	62	56	44	58	61	44	50	64	40	53	53	67	64	53	67	62	72	69	58	83	78	76	83	81	75	72	62			
All durable goods industries.....	+	-	+	+	-	-	+	-	-	+	-	+	+	-	+	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	-	
Primary metals:																																			
Blast furnaces, steel mills.....	-	-	+	+	-	-	+	+	-	+	-	+	+	-	+	-	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+
Nonferrous metals.....	-	-	+	+	-	+	+	-	+	+	-	+	+	-	+	+	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+
Iron and steel foundries.....	-	-	+	+	+	+	+	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+
Other primary metals.....	-	-	+	+	+	+	-	-	+	-	-	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fabricated metal products:																																			
Metal cans, barrels, and drums.....	+	+	-	+	-	-	+	+	+	+	-	+	+	-	+	+	+	+	-	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	-
Hardware, structural metal and wire prod.....	-	+	-	+	-	+	-	+	+	+	-	+	+	-	+	+	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+
Other fabricated metal products.....	-	+	+	+	+	+	-	-	+	+	+	+	-	-	+	-	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+
Machinery, except electrical:																																			
Steam engines and turbines*.....	-	+	+	-	+	+	o	+	+	-	+	+	+	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+
Internal combustion engines*.....	+	-	+	+	-	o	+	-	-	+	+	+	+	-	-	-	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+
Farm machinery and equipment.....	+	-	+	+	-	-	+	+	-	-	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Construction, mining, and material handling*.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metalworking machinery*.....	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Miscellaneous equipment*.....	+	+	+	-	-	+	o	-	-	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Machine shops.....	+	+	+	+	+	+	o	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Special industry machinery*.....	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
General industrial machinery*.....	+	-	+	o	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Office and store machines*.....	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Service industry machinery*.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Electrical machinery:																																			
Electrical transmission, distr. equip.*.....	+	+	+	o	+	+	+	-	-	-	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Electrical industrial apparatus*.....	+	+	-	+	-	+	-	+	+	-	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Household appliances.....	+	-	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Radio and TV.....	-	+	-	+	+	+	+	+	+	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Communication equipment.....	-	+	-	+	+	+	+	+	+	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Electronic components.....	o	+	+	-	-	-	-	+	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Other electrical machinery*.....	+	-	-	+	+	-	-	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transportation equipment:																																			
Motor vehicle parts.....	+	-	-	+	-	-	+	-	+	+	-	+	-	-	-	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Motor vehicle assembly operations.....	-	+	+	+	-	-	+	+	-	+	-	+	+	o	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Complete aircraft.....	+	+	-	-	+	-	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Aircraft parts.....	+	+	+	-	-	-	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Shipbuilding and railroad equipment*.....	-	+	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Other transportation equipment.....	-	+	-	-	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Instruments, total.....	-	+	-	-	-	+	-	+	+	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lumber, total.....	+	+	-	+	-	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Furniture, total.....	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stone, clay, and glass, total.....	+	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Other durable goods, total.....	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted by the Bureau of the Census before the direction of change is deter-

(D19) Index of Stock Prices, 500 Common Stocks

23 industry components ¹	1-month spans												9-month spans																																			
	1963						1964						1963						1964																													
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec	Apr-Jan	May-Feb	Jun-Mar	Jul-Apr	Aug-May	Sep-Jun	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec												
Percent rising ²	29	75	77	45	45	68	75	65	78	76	53	35	90	41	76	73							99	95	89	85	78	80	78	69	71	84	83	78	86	86	85	85										
500 stock prices.....	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Coal, bituminous.....	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Food composite.....	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tobacco (cigarette manufacturing).....	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Textile weavers.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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.....	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

+ = rising; 0 = unchanged; - = falling. Series components are not seasonally adjusted.

¹The 23 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.

²Based on 80 industries to August 1963; on 79 industries, September 1963 to March 1964; and on 78 components thereafter.

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS AND PERCENT OF SERIES RISING: JULY 1963 TO PRESENT--Continued

(D23) Index of Industrial Materials Prices

13 industrial materials components	1-month spans												9-month spans																						
	1963						1964						1963						1964																
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov ¹	Nov-Dec	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec	Apr-Jan	May-Feb	Jun-Mar	Jul-Apr	Aug-May	Sep-Jun	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov ¹	Mar-Dec
Percent rising.....	54	54	54	77	69	54	62	58	38	62	38	50	65	62	54	77	54	62	54	54	62	62	62	62	54	58	77	62	69	62	69	69	85	85	
All industrial materials.....	+	o	-	+	+	+	+	o	+	+	-	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Copper scrap (lb.).....	+	-	+	+	-	+	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lead scrap (lb.).....	+	+	+	+	+	+	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Steel scrap (ton).....	-	+	+	+	+	-	+	-	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tin (lb.).....	-	-	+	+	+	+	+	+	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Zinc (lb.).....	+	+	-	-	-	+	+	+	+	+	+	o	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Burlap (yd.).....	+	+	-	-	-	-	+	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cotton (lb.), 15-market average.....	-	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Print cloth (yd.), average.....	+	+	+	+	+	+	-	o	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Wool tops (lb.).....	-	+	-	+	+	+	+	+	-	-	-	o	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hides (lb.).....	-	-	-	+	+	+	-	+	-	+	-	+	+	-	-	+	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+
Rosin (100 lb.).....	-	-	-	+	+	-	-	+	+	+	+	+	+	-	-	+	+	-	-	-	+	+	+	-	-	-	o	+	+	+	+	+	+	+	+
Rubber (lb.).....	+	-	-	+	+	-	-	+	+	+	+	+	+	-	-	+	+	-	-	-	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+
Tallow (lb.).....	+	-	+	+	+	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted (except for all-industry totals) by the Bureau of the Census before the direction of change is determined.

¹Average for November 17, 18, and 19.

(D5) Initial Claims for Unemployment Insurance, State Programs

Labor market size rank	26 area components	1-month spans												9-month spans																																							
		1963						1964						1963						1964																																	
		Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec	Apr-Jan	May-Feb	Jun-Mar	Jul-Apr	Aug-May	Sep-Jun	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec																
	Percent rising.....	43	49	45	62	32	34	85	13	66	76	51	51	60	57	55	34	74	57	64	87	49	34	85	60	57	74	69	70	69	77	87	72																				
	47 labor market areas ¹	-	-	-	+	-	-	+	-	+	+	+	+	-	+	+	-	+	-	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
	NORTHEAST REGION																																																				
7	Boston.....	-	+	-	+	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+													
16	Buffalo.....	+	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
11	Newark.....	+	+	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
1	New York.....	-	+	-	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
21	Paterson*.....	+	-	+	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
4	Philadelphia*.....	-	-	+	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
8	Pittsburgh.....	-	-	-	-	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
23	Providence**.....	+	-	+	-	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
	NORTH CENTRAL REGION																																																				
3	Chicago.....	-	+	-	+	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
18	Cincinnati.....	+	-	+	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
10	Cleveland.....	+	-	+	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
26	Columbus.....	+	-	+	-	-	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
5	Detroit.....	-	-	+	+	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
25	Indianapolis.....	+	-	+	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
22	Kansas City.....	+	+	+	+	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
15	Milwaukee.....	+	+	+	+	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
13	Minneapolis.....	+	-	+	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
9	St. Louis.....	-	-	+	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
	SOUTH REGION																																																				
20	Atlanta.....	-	-	+	+	-	-	+	+	+	+	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
12	Baltimore.....	+	-	+	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
17	Dallas.....	+	+	-	+	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
14	Houston.....	+	-	-	-	+	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
	WEST REGION																																																				
2	Los Angeles.....	-	-	+	+	-	+	+	+	-	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
24	Portland.....	-	+	-	+	-	-	-	+	-	+	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
6	San Francisco.....	-	+	-	-	-	+	-	+	-	+	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											
19	Seattle*.....	-	+	-	+	+	+	+	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												

- = rising; o = unchanged; + = falling. Because this series usually rises when general business activity falls and falls when business rises, it is inverted to show a comparable activity pattern. The direction of change is shown for the week ending nearest the 22d of the month. Series components are seasonally adjusted by the Bureau of the Census before the direction of change is determined.

*Designated by Bureau of Employment Security as an area of substantial unemployment (6 percent or more) in October 1964.
 **Designated by Bureau of Employment Security as an area of substantial (6 percent or more) and persistent unemployment in October 1964.
¹The percent rising is based on 47 labor market areas. Directions of change are shown separately for only the largest 26.

Analytical Measures

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS AND PERCENT OF SERIES RISING: JULY 1963 TO PRESENT--Continued

(D41) Number of Employees in Nonagricultural Establishments

30 industry components	1-month spans												6-month spans																																						
	1963						1964						1963						1964																																
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec	Jul-Jan	Aug-Feb	Sep-Mar	Oct-Apr	Nov-May	Dec-Jun	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec															
Percent rising.....	75	48	43	65	45	70	43	83	77	63	60	70	70	43	68	47								72	73	75	73	58	58	45	63	77	80	75	80	83	77	73	73												
All nonagricultural establishments.....	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ordnance and accessories.....	+	+	o	o	+	+	o	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lumber and wood products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Furniture and fixtures.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stone, clay, and glass products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Primary metal industries.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fabricated metal products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Machinery.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Electrical equipment.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transportation equipment.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Instruments and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Miscellaneous manufacturing industries.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Food and kindred products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tobacco manufactures.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Textile mill products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Apparel and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Paper and allied products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Printing and publishing.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Chemicals and allied products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rubber and plastics products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leather and leather products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mining.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Contract construction.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transportation and public utilities.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Wholesale trade.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Retail trade.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Finance, insurance, real estate.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Services and miscellaneous.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Federal government.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
State and local government.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

(D47) Index of Industrial Production

24 industry components	1-month spans												6-month spans																															
	1963						1964						1963						1964																									
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec	Jul-Jan	Aug-Feb	Sep-Mar	Oct-Apr	Nov-May	Dec-Jun	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec								
Percent rising ¹	73	69	58	65	50	77	58	79	71	83	71	62	79	69	50	58							92	92	83	92	77	79	73	83	83	92	96	85	92	88	90	79						
All industrial production.....	o	-	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
DURABLE GOODS																																												
Primary and fabricated metals.....				
Primary metal products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Fabricated metal products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Machinery and related products.....				
Machinery, except electrical.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Electrical machinery.....	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Transportation equipment.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Instruments and related products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Clay, glass, and lumber.....				
Clay, glass, and stone.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Lumber and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Furniture and miscellaneous.....				
Furniture and fixtures.....	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Miscellaneous.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
NONDURABLE GOODS																																												
Textile, apparel, and leather.....				
Textile mill products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Apparel products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Leather and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Paper and printing.....				
Paper and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Printing and publishing.....	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Chemicals, petroleum, and rubber.....				
Chemicals and products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Petroleum products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Rubber and plastics products.....	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Foods, beverages, and tobacco.....				
Food and beverages.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Tobacco products.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
MINERALS																																												
Coal.....	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Crude oil and natural gas.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Metal, stone, and earth minerals.....				
Metal mining.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Stone and earth minerals.....	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				

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

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

Table 6.--DIRECTION OF CHANGE IN SERIES COMPONENTS AND PERCENT OF SERIES RISING: JULY 1963 TO PRESENT--Continued

(D54) Sales of Retail Stores

24 retail store components	1-month spans												9-month spans																																								
	1963						1964						1963						1964																																		
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec	Apr-Jan	May-Feb	Jun-Mar	Jul-Apr	Aug-May	Sep-Jun	Oct-Jul	Nov-Aug	Dec-Sep	Jan-Oct	Feb-Nov	Mar-Dec																	
Percent rising.....	67	65	25	58	54	77	44	71	52	52	67	67	46	52	33	81	85	77	60	52	62	88	71	92	83	77	79	100	85	83	75	79																					
All retail sales.....	+	-	-	+	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Grocery stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Other food stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Eating and drinking places.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Department stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Mail order houses (department store mdse.).....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Variety stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Other general merchandise stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Men's and boys' wear stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Women's apparel, accessory stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Family and other apparel stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Shoe stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Furniture, home furnishings stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Household appliance, TV, radio stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Lumber yards, building materials dealers.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Hardware stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Farm equipment dealers.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Passenger car and other automotive dealers.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Tire, battery, accessory dealers.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Gasoline service stations.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Drug and proprietary stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Jewelry stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Liquor stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Other durable-goods stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												
Other nondurable-goods stores.....	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+												

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

(D58) Index of Wholesale Prices, All Manufacturing

23 manufacturing industries	1-month spans												6-month spans																								
	1963						1964						1963						1964																		
	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec-Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec	Jul-Jan	Aug-Feb	Sep-Mar	Oct-Apr	Nov-May	Dec-Jun	Jan-Jul	Feb-Aug	Mar-Sep	Apr-Oct	May-Nov	Jun-Dec	
Percent rising.....	48	61	59	74	70	61	59	63	46	63	44	46	65	67	61	59	52	50	59	72	76	74	70	67	67	74	67	61	50	61	63	63					
All manufacturing industries.....	o	o	-	+	-	o	+	-	-	+	-	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
DURABLE GOODS																																					
Lumber and wood products.....	+	+	-	-	+	+	-	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Furniture and other household durables.....	-	+	o	-	-	o	+	+	o	+	-	-	+	+	o	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+					
Nonmetallic mineral products.....	o	o	+	o	o	+	-	-	-	+	+	+	+	+	+	+	+	+	+	o	o	+	+	+	+	+	+	+	+	+	+	+					
Iron and steel.....	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Nonferrous metals.....	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Fabricated structural metal products.....	o	+	+	+	+	-	+	+	-	+	-	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Fabricated nonstructural metal products.....	+	+	+	+	+	+	+	+	-	-	-	o	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
General purpose machinery and equipment.....	+	o	+	o	+	+	-	+	o	o	+	+	-	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Miscellaneous machinery.....	-	o	+	+	+	o	-	-	+	+	-	+	+	+	+	+	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+	+					
Electrical machinery and equipment.....	-	+	-	+	o	o	-	-	+	+	-	+	+	+	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+					
Motor vehicles.....	+	-	-	+	+	o	-	+	+	+	+	-	o	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Miscellaneous products.....	+	+	+	+	-	-	-	-	-	-	-	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
NONDURABLE GOODS																																					
Processed foods.....	-	-	-	+	+	-	+	-	-	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Tobacco products and bottled beverages.....	+	+	o	o	o	+	+	-	+	+	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Cotton products.....	o	-	+	+	+	o	-	+	o	-	-	-	-	-	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Wool products.....	-	+	o	+	+	+	o	+	o	+	+	o	-	+	+	+	+	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Manmade fiber textile products.....	-	+	+	+	+	+	o	+	o	+	+	o	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Apparel.....	+	o	+	+	-	o	+	o	o	+	+	-	+	o	o	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Pulp, paper and allied products.....	-	o	-	+	o	o	+	o	-	-	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Chemicals and allied products.....	o	o	+	o	o	o	-	+	o	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Petroleum products, refined.....	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Rubber and rubber products.....	+	+	-	+	o	-	+	o	+	-	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Hides, skins, leather, and leather products....	-	-	-	-	+	-	+	+	-	+	-	o	+	+	-	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					

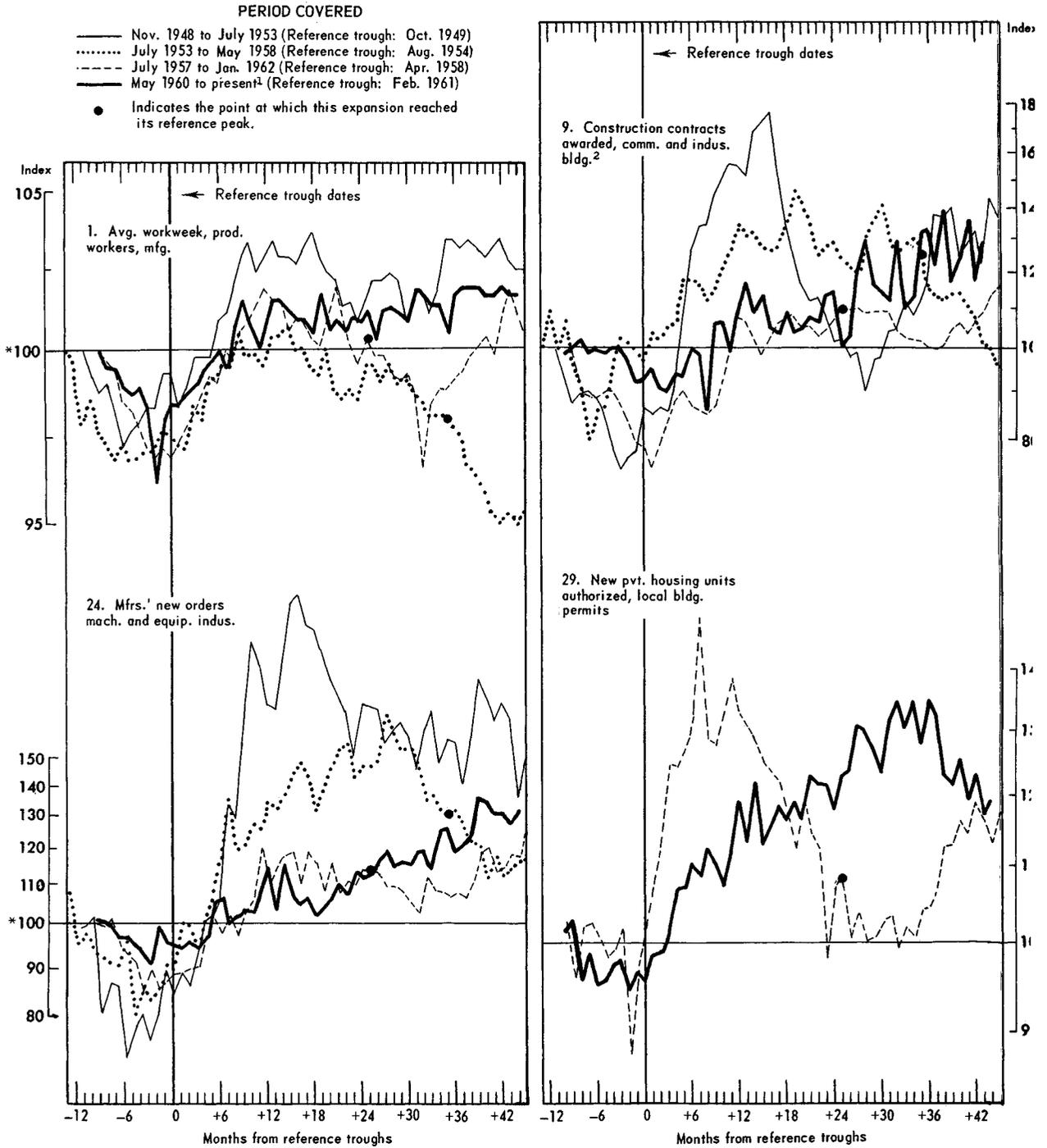
+ = rising; o = unchanged; - = falling. Series components are seasonally adjusted by the Bureau of the Census before the direction of change is determined.

Analytical Measures

CHART 4

COMPARISONS OF REFERENCE CYCLE PATTERNS

Percent of reference peak levels of selected series compared for 4 business cycles. Period begins with the reference peak date preceding the trough of each cycle.



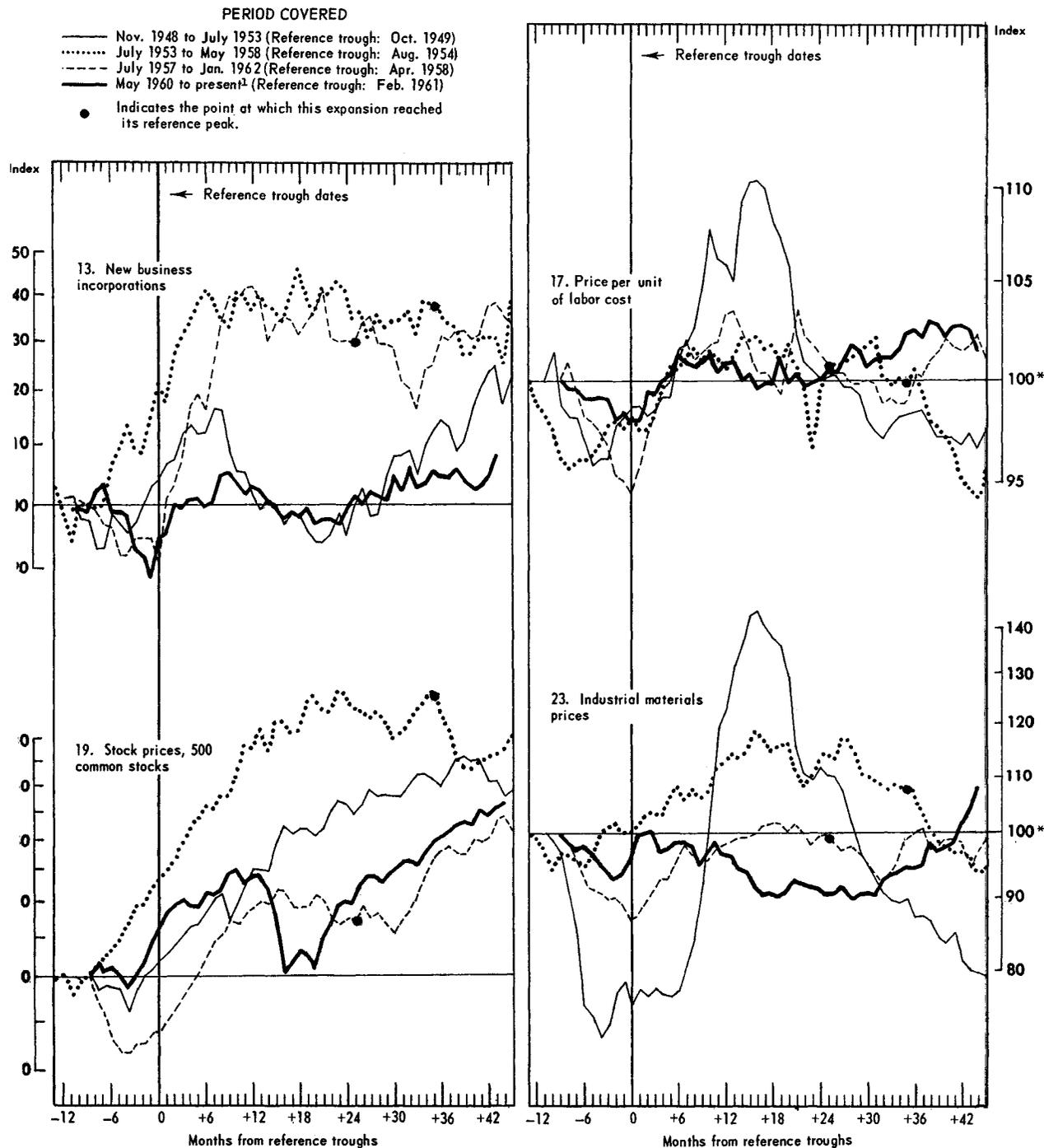
*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference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

¹See table 2 for latest month in current period. Percent changes for this month and comparable months of previous expansions are shown in table 7.

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

CHART 4 COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.

Percent of reference peak levels of selected series compared for 4 business cycles. Period begins with the reference peak date preceding the trough of each cycle.

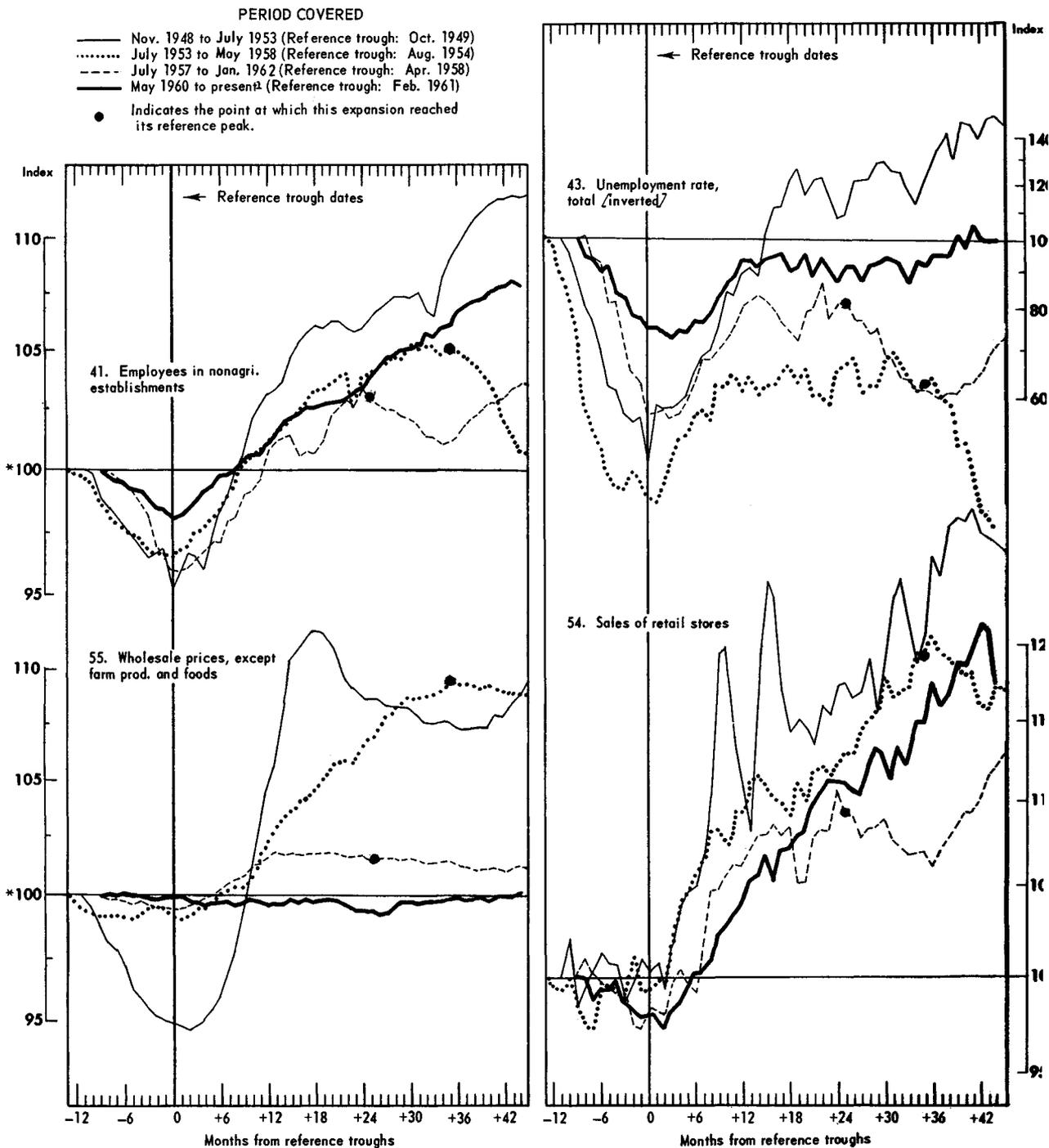


¹Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference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

²See table 2 for latest month in current period. Percent changes for this month and comparable months of previous expansions are shown in table 7.

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

Percent of reference peak levels of selected series compared for 4 business cycles. Period begins with the reference peak date preceding the trough of each cycle.

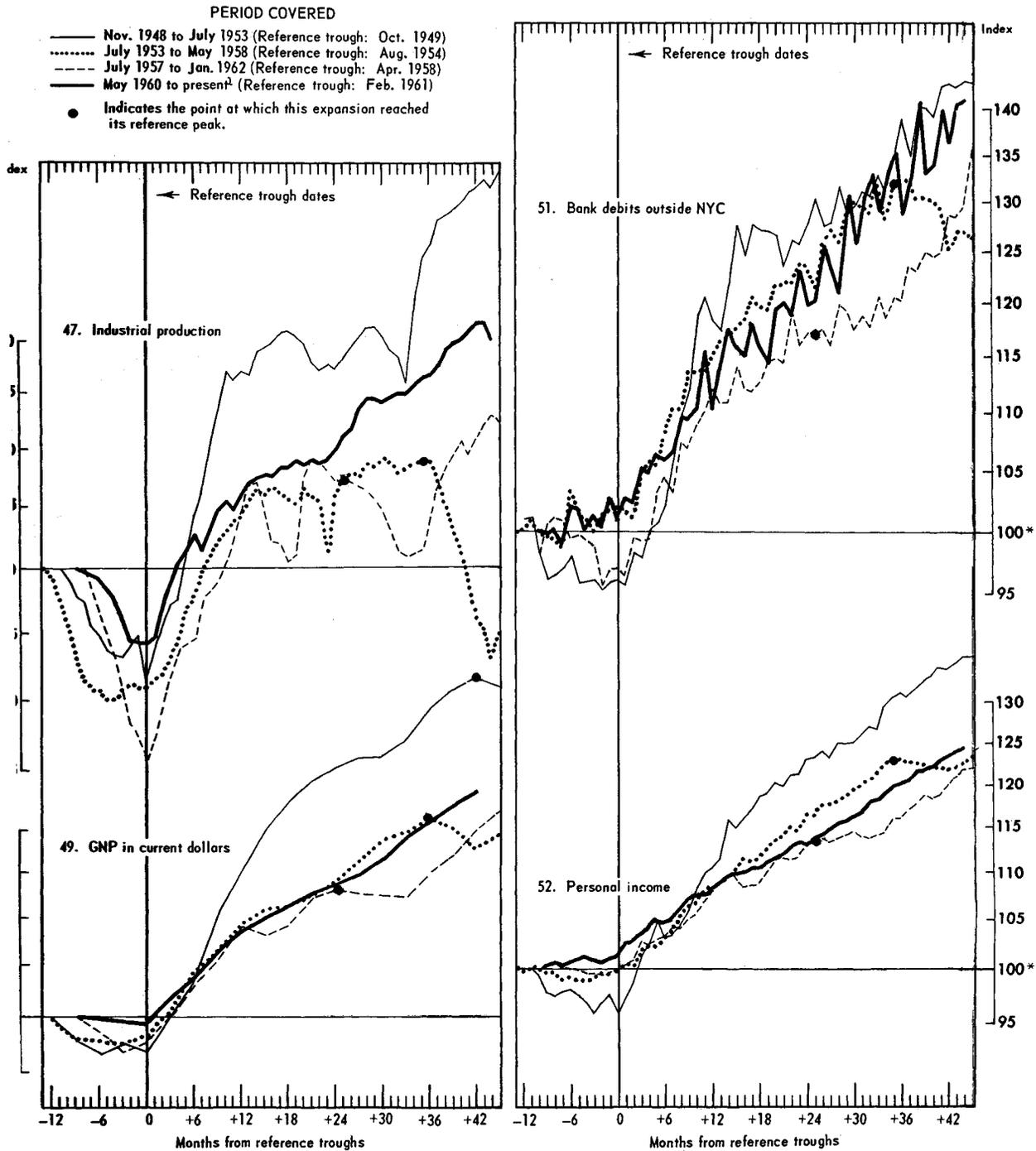


*Reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference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

¹See table 2 for latest month in current period. Percent changes for this month and comparable months of previous expansions are shown in table 7.

CHART 4 COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.

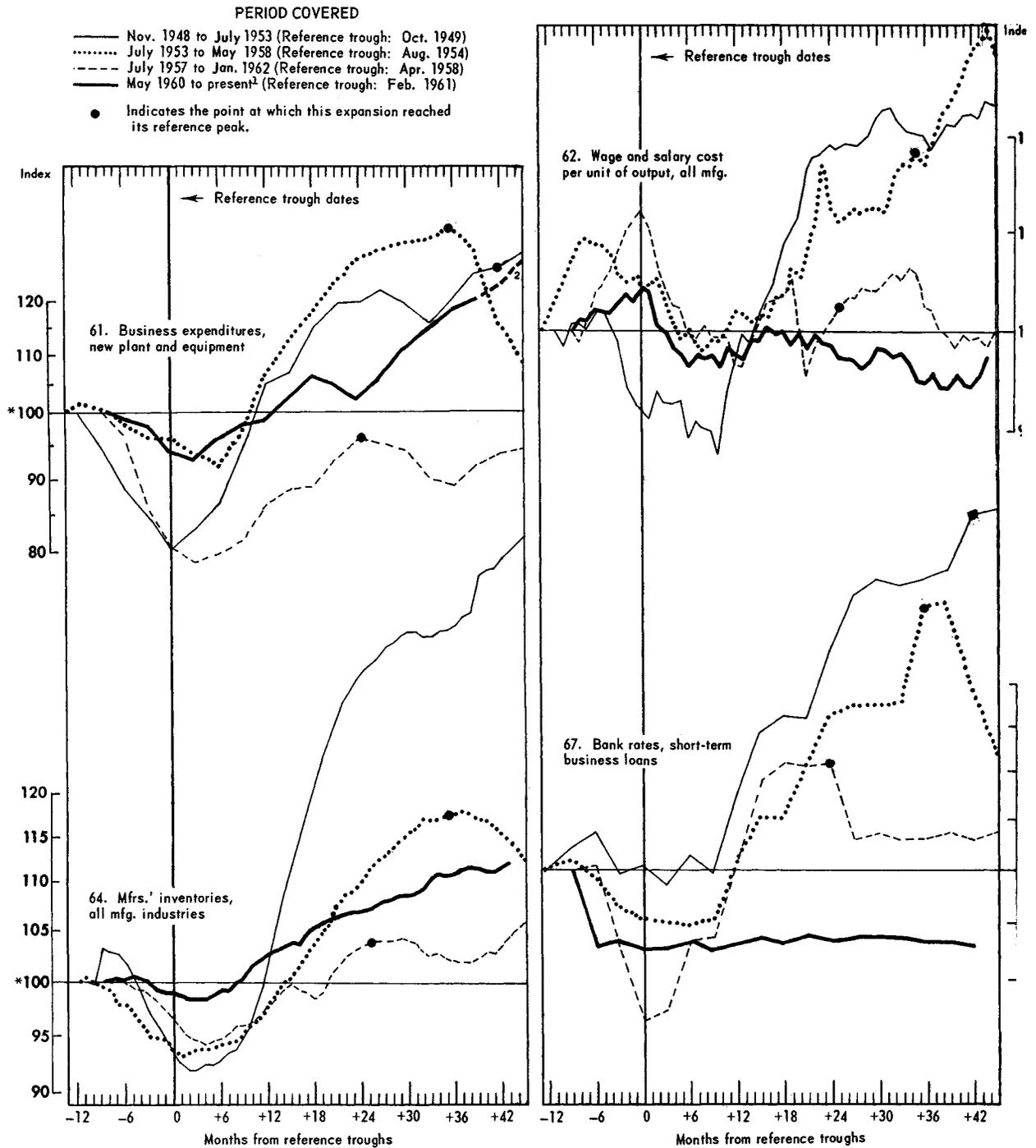
Percent of reference peak levels of selected series compared for 4 business cycles. Period begins with the reference peak date preceding the trough of each cycle.



reference peak level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the reference peak is set at "100". For series an MCD of "3" or more, the average of the 3 months centered on the reference peak month is set at "100". For quarterly series, the reference peak quarter is set at "100". MCD values are shown in appendix C. See table 2 for latest month in current period. Percent changes for this month and comparable months of previous expansions are shown in table 7.

CHART 4 COMPARISONS OF REFERENCE CYCLE PATTERNS--Con.

Percent of reference peak levels of selected series compared for 4 business cycles. Period begins with the reference peak date preceding the trough of each cycle.



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

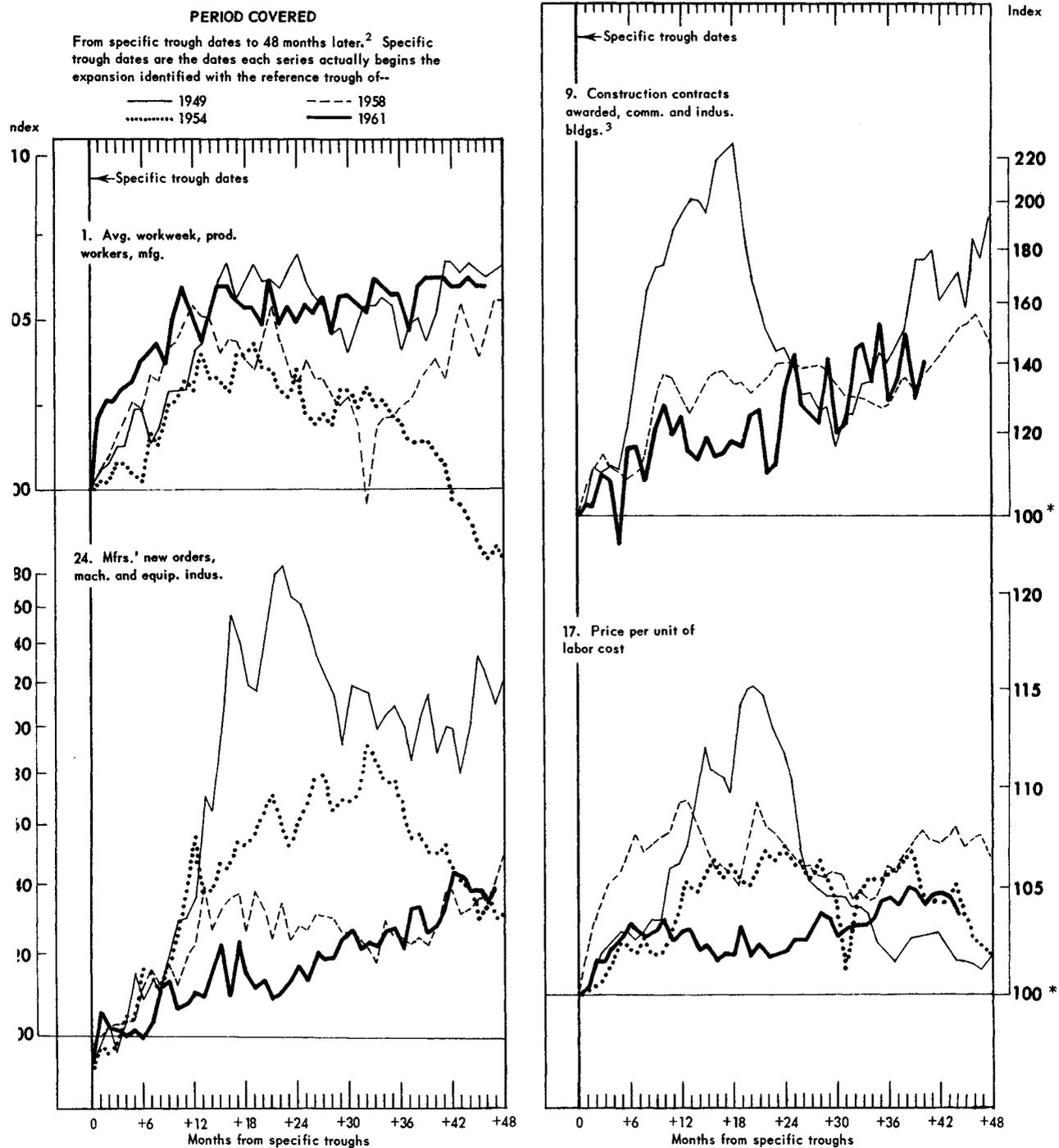
¹See table 2 for latest month in current period. Percent changes for this month and comparable months of previous expansions are shown in table 7.

²Last 2 quarters anticipated.

CHART 5

COMPARISONS OF SPECIFIC CYCLE PATTERNS

Percent of specific trough levels of selected series compared for 4 business expansions. Period begins with the specific trough date¹ of each series for each expansion.



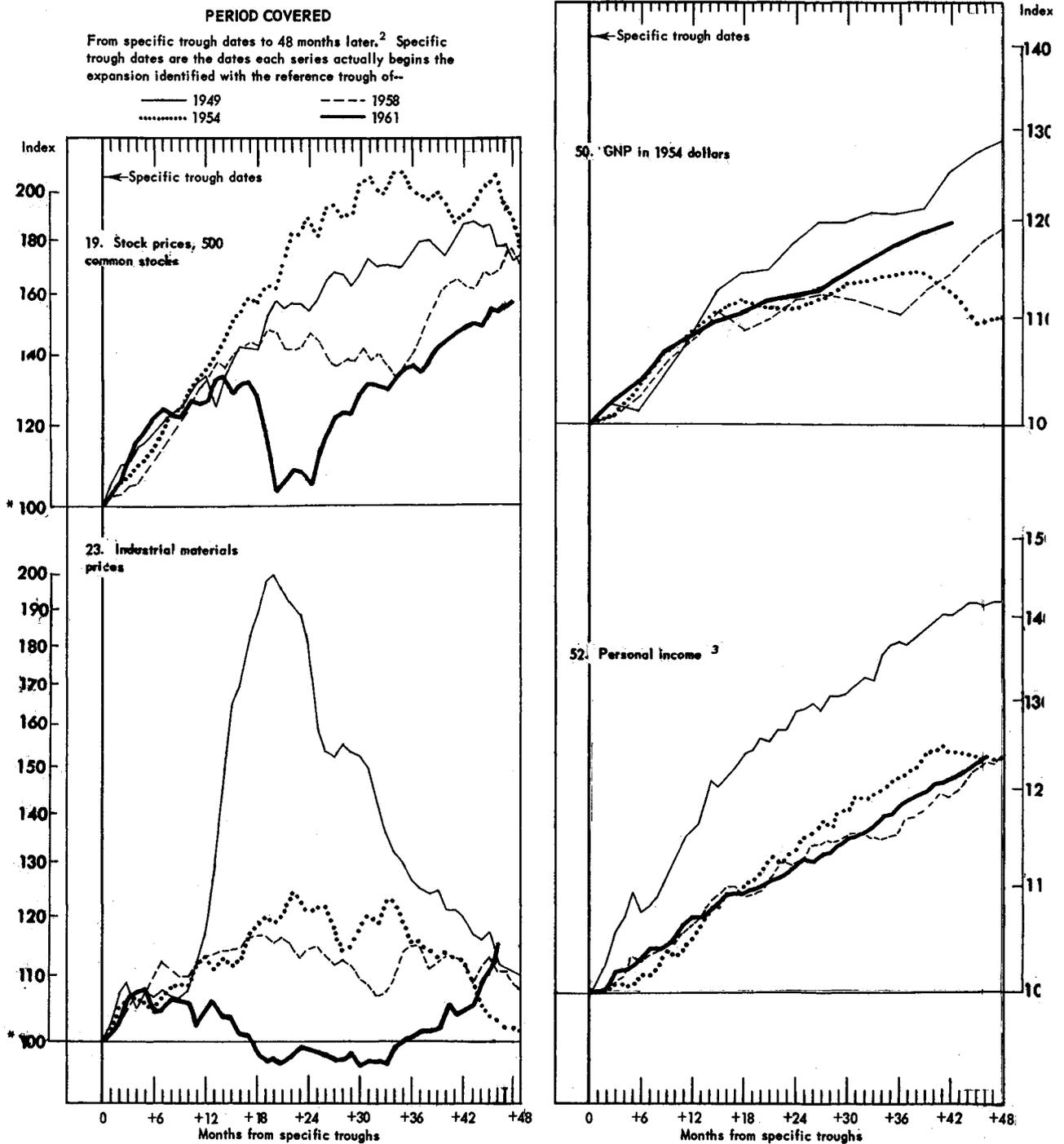
* Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific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

¹ See appendix B for specific dates. ² See table 2 for latest month in current period. Percent changes for this month and comparable months after the specific troughs of previous expansions are shown in table 9. ³ For the 1949 and 1958 cycles, a 3-term moving average is shown.

CHART 5

COMPARISONS OF SPECIFIC CYCLE PATTERNS--Con.

Percent of specific trough levels of selected series compared for 4 business expansions. Period begins with the specific trough date¹ of each series for each expansion.



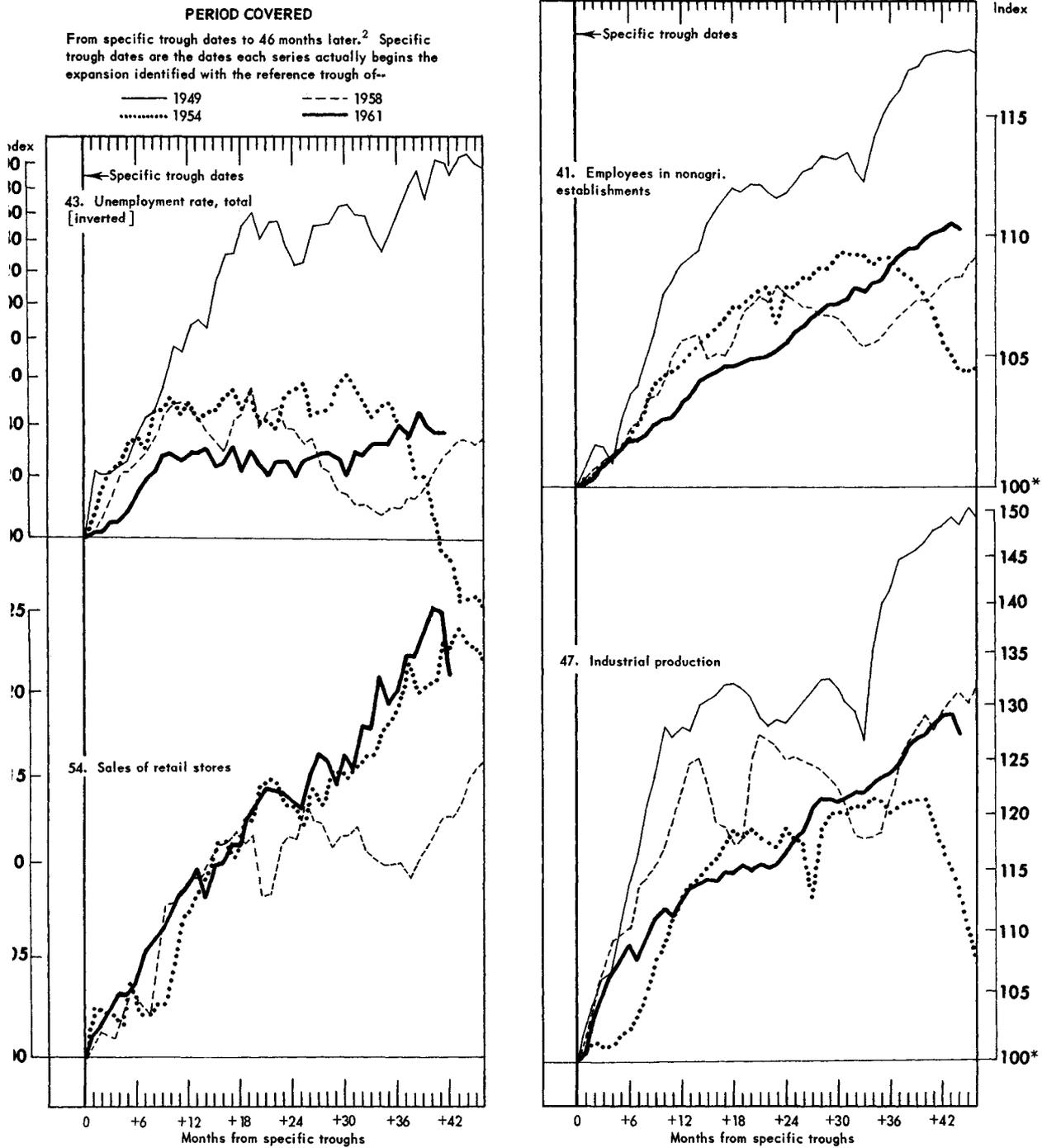
*Specific trough level. For series with a "months for cyclical dominance" (MCD) of "1" or "2", the figure for the specific trough is set at "100". For series with an MCD of "3" or more, the average of the 3 months centered on the specific trough month is set at "100". For quarterly series, the specific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

¹See appendix B for specific dates. ²See table 2 for latest month in current period. Percent changes for this month and comparable months after the specific troughs of previous expansions are shown in table 9. ³For the current cycle, changes are based on the low (L) shown in table 2.

CHART 5

COMPARISONS OF SPECIFIC CYCLE PATTERNS--Con.

Percent of specific trough levels of selected series compared for 4 business expansions. Period begins with the specific trough date¹ of each series for each expansion.



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

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

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

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 1, 17, 19, 23, 41, 43, 47, 52, 54, 56, 62, 64, and 66), the figure for the reference peak month is used as the base. For series with an MCD of "3" or more (series 2, 3, 6, 7, 9, 13, 14, 24, 29, and 51), the average of the 3 months centered on the reference peak month is used as the base. The base for quarterly series (series 16, 49, 50, 61, and 67) is the reference peak quarter. See also MCD footnote to appendix C.

Selected series	Months after reference trough ¹	Percent of reference peak prior to reference expansion beginning in--								
		July 1921	July 1924	Nov. 1927	Mar. 1933	June 1938	Oct. 1949	Aug. 1954	Apr. 1958	Fel 1961
NBER LEADING INDICATORS										
1. Average workweek of production workers, manufacturing.....	44	(NA)	95.6	83.5	76.2	106.3	102.3	94.8	101.0	101
2. Accession rate, manufacturing.....	43	37.1	26.3	31.9	52.3	162.0	107.0	65.8	117.3	97
3. Layoff rate, manufacturing (inverted).....	43	23.3	29.5	35.4	80.0	119.6	141.0	41.2	105.6	160
6. Value of manufacturers' new orders, durable goods industries.....	44	156.3	112.0	39.0	85.4	(NA)	164.0	96.2	124.2	121
7. New private nonfarm dwelling units started..	44	184.4	152.0	38.3	67.4	263.1	114.9	85.5	111.6	126
9. Construction contracts awarded for commercial and industrial bldgs., floor space ² ...	43	38.6	106.7	32.0	40.2	213.2	122.2	101.5	108.9	127
13. Number of new business incorporations.....	43	72.0	110.0	100.5	68.1	52.7	124.8	130.2	138.3	108
14. Current liabilities of bus. failures (inv.)..	44	28.9	99.5	48.3	(NA)	152.7	82.4	47.7	67.8	88
16. Corporate profits after taxes (Q).....	42	90.0	84.6	1.9	54.4	204.7	97.0	83.7	108.4	141
17. Price per unit of labor cost index.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	96.8	94.4	102.2	101
19. Index of stock prices, 500 common stocks....	44	117.7	210.5	110.1	57.7	53.2	156.6	174.3	147.9	155
23. Index of industrial materials prices.....	44	68.3	80.0	56.9	82.8	110.0	79.6	93.7	97.3	107
24. Value of manufacturers' new orders, machinery and equipment industries.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	135.1	115.8	116.7	130
29. Index of new private housing units authorized by local building permits.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	112.5	117
NBER ROUGHLY COINCIDENT INDICATORS										
41. Number of employees in nonagricultural establishments.....	44	84.8	92.8	77.1	92.6	120.2	111.7	100.9	103.6	108
43. Unemployment rate, total (inverted).....	44	(NA)	(NA)	(NA)	(NA)	(NA)	147.1	35.5	70.6	100
47. Index of industrial production.....	44	109.2	104.7	79.5	99.7	150.8	135.7	93.5	113.3	116
49. Gross national product in current dollars(Q)	42	(NA)	119.6	85.6	80.2	149.8	138.7	117.4	119.8	121
50. Gross national product in 1954 dollars (Q)..	42	(NA)	121.7	100.7	99.0	(NA)	125.5	105.3	112.5	117
51. Bank debits outside NYC, 343 centers.....	44	102.1	129.5	81.9	65.6	131.8	143.4	126.7	129.8	142
52. Personal income.....	44	(NA)	115.0	81.8	81.0	144.9	135.4	122.1	121.4	121
54. Sales of retail stores.....	44	109.4	105.9	86.5	90.8	124.7	126.8	117.4	112.4	117
55. Index of wholesale prices, all commodities other than farm products and foods.....	44	65.8	86.9	74.6	88.8	110.0	108.8	108.9	101.3	106
NBER LAGGING INDICATORS										
61. Business expenditures on new plant and equipment, total (Q): ³										
a.....	39	48.0	90.8	54.3	55.4	(NA)	125.1	128.9	91.9	117
b.....	45	54.8	100.2	41.4	64.7	(NA)	129.5	107.9	94.6	127
62. Index of labor cost per unit of output, total manufacturing.....	44	75.6	88.7	83.3	81.7	117.0	111.9	116.1	99.2	91
64. Manufacturers' inventories, book value.....	43	(NA)	(NA)	(NA)	85.3	(NA)	152.8	114.4	104.6	111
66. Consumer installment debt.....	43	(NA)	(NA)	(NA)	111.3	148.1	(NA)	152.0	129.5	141
67. Bank rates on short-term business loans, 19 cities (Q).....	42	79.3	88.6	91.5	54.7	(NA)	141.3	120.4	102.7	91

NOTE: For the expansions beginning in July 1921, July 1924, November 1927, August 1954, and April 1958, the peak had been passed and a reference contraction was underway by the month indicated in the first column. See appendix A for the reference peak dates and earlier issues of Business Cycle Developments for the levels reached on those dates.

NA Not available.

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

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

³Comparisons are made for this series on the basis of (a) the period 39 months after the February 1961 trough (actual expenditures) and (b) the period 45 months after the same period (anticipated expenditures for 4th quarter 1964).

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

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

Selected series	Months after reference trough ¹	Percent change from reference trough of expansion beginning in--									
		July 1921	July 1924	Nov. 1927	Mar. 1933	June 1938	Oct. 1949	Aug. 1954	Apr. 1958	Feb. 1961	
NBER LEADING INDICATORS											
Average workweek of production workers, manufacturing.....	44	+5.0	+4.6	-14.9	+13.0	+21.8	+3.0	-2.8	+4.4	+3.0	
Accession rate, manufacturing.....	43	(NA)	+22.6	-56.3	+27.9	+81.3	+20.5	-9.4	+27.7	-10.0	
Layoff rate, manufacturing (inverted).....	43	(NA)	-4.8	-50.0	+116.7	+141.2	+110.3	-36.3	+77.8	+82.2	
Value of manufacturers' new orders, durable goods industries.....	44	+121.4	0.0	-61.0	(NA)	(NA)	+89.3	+7.4	+40.7	+33.2	
New private nonfarm dwelling units started..	44	+88.3	+53.5	-63.1	(NA)	+180.1	-18.0	-27.0	+15.0	+26.5	
Construction contracts awarded for commercial and industrial bldgs., floor space ² ...	43	+41.7	+53.6	-63.2	+235.6	(NA)	+41.6	+4.8	+38.6	+37.2	
Number of new business incorporations.....	43	-0.5	+48.5	-3.2	-14.1	-38.8	+19.4	+10.3	+44.9	+17.1	
Current liabilities of bus. failures (inv.)..	44	+71.4	+10.4	-47.6	(NA)	+107.6	-29.7	-49.9	-9.9	-9.2	
Corporate profits after taxes (Q).....	42	(NA)	+57.1	-97.4	+54.2	(NA)	+24.1	-1.8	+43.3	+64.1	
Price per unit of labor cost index.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	-2.0	-3.9	+8.0	+3.6	
Index of stock prices, 500 common stocks....	44	+59.1	+102.1	-16.0	+178.7	-15.3	+50.7	+37.8	+69.4	+36.5	
Index of industrial materials prices.....	44	+63.2	-4.6	-41.7	+99.6	+62.5	+6.0	-6.3	+12.0	+12.8	
Value of manufacturers' new orders, machinery and equipment industries.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	+54.1	+24.3	+32.1	+38.1	
Index of new private housing units authorized by local building permits.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	-7.8	-23.5	+10.7	+21.6	
NBER ROUGHLY COINCIDENT INDICATORS											
Number of employees in nonagricultural establishments.....	44	+23.1	+6.8	-19.7	+35.4	+34.1	+17.7	+4.5	+8.0	+10.2	
Unemployment rate, total (inverted).....	44	(NA)	(NA)	(NA)	+91.5	(NA)	+207.4	-17.9	+24.3	+32.7	
Index of industrial production.....	44	+59.8	+27.5	-15.6	+106.8	+120.8	+48.2	+2.8	+31.9	+27.1	
Gross national product in current dollars (Q)	42	+34.5	+22.4	-14.7	+59.2	+70.1	+43.5	+19.6	+22.8	+25.3	
Gross national product in 1954 dollars (Q)..	42	+33.5	+22.0	-1.6	+37.4	(NA)	+27.4	+8.5	+17.0	+19.7	
Bank debits outside NYC, 343 centers.....	44	+31.8	+33.7	-24.7	+72.1	+57.9	+49.4	+24.8	+34.0	+38.2	
Personal income.....	44	+37.4	+14.9	-18.9	+64.7	+62.7	+41.6	+22.4	+21.8	+22.7	
Sales of retail stores.....	44	+16.7	+5.9	-13.5	+72.5	+53.0	+26.8	+18.1	+14.2	+19.9	
Index of wholesale prices, all commodities other than farm products and foods.....	44	+4.0	-4.8	-19.8	+22.6	+16.5	+14.6	+9.7	+1.8	+0.3	
NBER LAGGING INDICATORS											
Business expenditures on new plant and equipment, total (Q): ³											
a.....	39	+39.8	+30.2	-38.2	+223.1	(NA)	+56.3	+35.0	+14.4	+28.5	
b.....	45	+59.5	+43.6	-52.9	+276.9	(NA)	+61.8	+13.0	+17.7	+36.3	
Index of labor cost per unit of output, total manufacturing.....	44	-16.0	-13.7	-15.4	+11.4	+12.7	+16.4	+13.7	-6.6	-3.4	
Manufacturers' inventories, book value.....	43	(NA)	(NA)	(NA)	+44.0	(NA)	+63.7	+22.4	+8.5	+13.4	
Consumer installment debt.....	43	(NA)	(NA)	(NA)	+132.8	+58.9	+98.3	+47.1	+28.5	+35.7	
Bank rates on short-term business loans, 19 cities (Q).....	42	-26.4	+1.0	-4.9	-29.7	(NA)	+40.8	+26.1	+18.9	+0.2	

NOTE: For the expansions beginning in July 1921, July 1924, November 1927, August 1954, and April 1958, the peak has been passed and a reference contraction was underway by the month indicated in the first column. See appendix A for reference peak dates and earlier issues of Business Cycle Developments for the levels reached on those dates.

¹NA Not available.

²Based on period from February 1961 (current trough) to latest month for which data are available.

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

⁴Comparisons are made for this series on the basis of (a) the period 39 months after the February 1961 trough (actual expenditures) and (b) the period 45 months after the same period (anticipated expenditures for 4th quarter 1964).

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

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

Selected series	Months after specific trough ¹	July 1921	July 1924	Nov. 1927	Mar. 1933	June 1938	Oct. 1949	Aug. 1954	Apr. 1958	Feb 196
Percent of specific peak prior to reference expansion beginning in year shown										
NBER LEADING INDICATORS										
1. Average workweek of production workers, manufacturing.....	46	(NA)	*97.8	*100.0	71.0	98.8	(NSC)	*99.8	*99.0	100
9. Construction contracts awarded for commercial and industrial bldgs., floor space ² ...	40	*45.2	*114.6	*108.2	28.6	191.6	55.6	(NSC)	92.6	12 ³
13. Number of new business incorporations.....	44	*86.3	*106.8	*110.5	+70.4	43.7	71.6	(NSC)	*138.1	10 ³
17. Price per unit of labor cost index.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	*107.2	*90.3	*101.0	9 ³
19. Index of stock prices, 500 common stocks.....	48	*99.2	176.9	(NSC)	46.9	43.3	*155.6	*186.3	*122.5	14 ³
23. Index of industrial materials prices.....	46	*71.3	*100.8	*76.6	71.9	106.6	*135.1	*65.1	*92.9	10 ³
24. Value of manufacturers' new orders, machinery and equipment industries.....	47	(NA)	(NA)	(NA)	(NA)	(NA)	*211.6	*106.2	*99.2	12 ³
29. Index of new private housing units authorized by local building permits.....	46	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	*96.5	9 ³
NBER ROUGHLY COINCIDENT INDICATORS										
41. Number of employees in nonagricultural establishments.....	44	*91.3	*96.6	*105.6	92.6	119.6	111.6	*105.4	*103.0	10 ³
43. Unemployment rate, total (inverted).....	41	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	*67.5	*78.2	9 ³
47. Index of industrial production.....	44	*112.3	*108.2	*116.2	81.5	148.9	133.5	*109.2	*109.0	11 ³
49. Gross national product in current dollars(Q)	42	(NA)	(NSC)	(NSC)	80.2	142.6	134.9	*121.6	*112.4	12 ³
50. Gross national product in 1954 dollars (Q)..	42	(NA)	(NSC)	(NSC)	92.1	(NA)	121.9	*110.1	*107.6	11 ³
52. Personal income.....	46	(NA)	*111.1	*112.9	81.5	146.1	134.7	*122.6	121.1	12 ³
53. Labor income in mining, mfg., and construc..	46	(NA)	(NA)	(NA)	79.8	184.4	*147.3	*116.1	*108.3	11 ³
54. Sales of retail stores.....	42	102.9	(NSC)	(NSC)	84.6	128.4	(NSC)	116.5	*109.4	11 ³
Percent change from specific trough related to reference expansion beginning in year shown										
NBER LEADING INDICATORS										
1. Average workweek of production workers, manufacturing.....	46	*+15.4	*+7.9	*+4.5	+4.9	+18.4	+6.0	*+4.1	*+5.2	+
9. Construction contracts awarded for commercial and industrial bldgs., floor space ² ...	40	*+118.5	*+82.6	*+40.1	+196.2	(NA)	+78.3	(NSC)	+35.4	+4
13. Number of new business incorporations.....	44	*+23.6	*+42.9	*+20.5	+12.8	-45.2	+21.0	(NSC)	*+51.7	+1
17. Price per unit of labor cost index.....	44	(NA)	(NA)	(NA)	(NA)	(NA)	*+15.2	*+6.8	*+9.4	+
19. Index of stock prices, 500 common stocks.....	48	*+46.2	+107.7	(NSC)	+208.0	-20.7	*+87.4	+109.6	*+48.1	+5
23. Index of industrial materials prices.....	46	*+75.0	*+36.7	*+7.3	+93.3	+65.0	*+100.3	*+24.7	*+17.4	+1
24. Value of manufacturers' new orders, machinery and equipment industries.....	47	(NA)	(NA)	(NA)	(NA)	(NA)	*+180.1	*+89.9	*+36.7	+3
29. Index of new private housing units authorized by local building permits.....	46	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	*+56.3	+2
NBER ROUGHLY COINCIDENT INDICATORS										
41. Number of employees in nonagricultural establishments.....	44	*+32.6	*+12.0	*+11.5	+35.4	+34.1	+17.7	*+9.1	*+7.6	+1
43. Unemployment rate, total (inverted).....	41	(NA)	(NA)	(NA)	+85.3	(NA)	+202.7	*+61.9	*+54.2	+3
47. Index of industrial production.....	44	*+66.1	*+31.7	*+24.9	+74.9	+120.3	+48.2	*+21.3	*+27.2	+2
49. Gross national product in current dollars(Q)	42	(NA)	(NSC)	(NSC)	+59.2	+70.1	+39.9	*+24.9	*+16.4	+2
50. Gross national product in 1954 dollars (Q)..	42	(NA)	(NSC)	(NSC)	+36.7	(NA)	+24.8	*+14.3	*+12.5	+1
52. Personal income.....	46	*+32.8	*+15.3	*+15.9	+65.6	+67.2	+41.2	*+24.2	+22.6	+2
53. Labor income in mining, mfg., and construc..	46	(NA)	(NA)	(NA)	+124.3	+152.2	*+68.5	*+25.6	*+17.6	+2
54. Sales of retail stores.....	42	+20.7	(NSC)	(NSC)	+65.0	+58.9	(NSC)	+22.5	*+13.7	+2

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

*Indicates that a specific peak had been passed and a specific contraction was underway for this series by the month indicated in the first column. The figure shown represents the change to the specific peak and the period covered shorter than that of the current expansion (col. 1). See appendix B for specific peak dates.

¹Based on period of the most recent specific expansion for each series; i.e., from the most recent specific trough the latest month shown in table 2. The number of months is the same for each expansion except those indicated by asterisk (*). Specific trough dates are shown in appendix B.

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

³Since no specific trough or peak has been designated, figures are based on the low (L) shown in table 2 and the 1 preceding that low.

Appendixes

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

Business cycle reference dates		Duration in months			
		Contraction (trough from pre- vious peak)	Expansion (trough to peak)	Cycle	
				Trough from previous trough	Peak from previous peak
Trough	Peak				
December 1854	June 1857.....	xxx	30	xxx	xxx
December 1858	October 1860.....	18	22	48	40
June 1861	April 1865.....	8	46	30	54
December 1867	June 1869.....	<u>32</u>	<u>18</u>	78	50
December 1870	October 1873.....	<u>18</u>	34	<u>36</u>	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.....	<u>18</u>	22	<u>28</u>	40
July 1924	October 1926.....	14	27	36	41
November 1927	August 1929.....	13	21	40	34
March 1933	May 1937.....	43	50	64	93
June 1938	February 1945.....	13	<u>80</u>	63	<u>93</u>
October 1945	November 1948.....	8	37	<u>88</u>	45
October 1949	July 1953.....	11	<u>45</u>	<u>48</u>	<u>56</u>
August 1954	July 1957.....	<u>13</u>	35	58	48
April 1958	May 1960.....	<u>9</u>	25	<u>44</u>	34
February 1961		9		34	
Average, all cycles:					
26 cycles, 1854-1961.....		19	30	49	¹ 49
10 cycles, 1919-1961.....		15	35	50	² 54
4 cycles, 1945-1961.....		10	36	46	³ 46
Average, peacetime cycles:					
22 cycles, 1854-1961.....		20	26	45	⁴ 46
8 cycles, 1919-1961.....		16	28	45	⁵ 48
3 cycles, 1945-1961.....		10	32	42	⁶ 42

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.

¹25 cycles, 1857-1960.

⁴21 cycles, 1857-1960.

²9 cycles, 1920-1960.

⁷7 cycles, 1920-1960.

³4 cycles, 1945-1960.

⁶3 cycles, 1945-1960.

Source: National Bureau of Economic Research.

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

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

Selected series	Specific trough dates for reference expansions beginning in--								
	Feb. 1961	Apr. 1958	Aug. 1954	Oct. 1949	June 1938	Mar. 1933	Nov. 1927	July 1924	July 1921
NBER LEADING INDICATORS									
1. Average workweek of production workers, manufacturing.....	Dec.'60	Apr.'58	Apr.'54	Apr.'49	Jan.'38	Jun.'32	Apr.'28	Jul.'24	Feb.'
9. Construction contracts awarded for commercial and industrial bldgs...	May '61	Jun.'58	NSC	Aug.'49	Sep.'38	Oct.'32	Sep.'27	Jul.'24	Mar.'
13. Number of new business incorporations.....	Jan.'61	Nov.'57	NSC	Feb.'49	Sep.'39	Dec.'34	Dec.'26	Jun.'24	Jan.'
17. Price per unit of labor cost index.	Feb.'61	Apr.'58	Dec.'53	May '49	NA	NA	NA	NA	NA
19. Index of stock prices, 500 stocks..	Oct.'60	Dec.'57	Sep.'53	Jun.'49	Apr.'38	Jun.'32	NSC	Oct.'23	Aug.'
23. Index of industrial mat. prices....	Dec.'60	Apr.'58	Feb.'54	Jun.'49	Jun.'38	Jul.'32	Aug.'28	Jun.'24	Jul.'
24. Value of mfrs.' new orders, machinery and equipment industries..	Nov.'60	Feb.'58	Mar.'54	Apr.'49	NA	NA	NA	NA	NA
29. Index of new private housing units authorized by local bldg. permits.	Dec.'60	Feb.'58	NA	NA	NA	NA	NA	NA	NA
NBER ROUGHLY COINCIDENT INDICATORS									
41. Number of employees in nonagricultural establishments.....	Feb.'61	May '58	Aug.'54	Oct.'49	Jun.'38	Mar.'33	Jan.'28	Jul.'24	Jul.
43. Unemployment rate, total (inverted)	May '61	Jul.'58	Sep.'54	Oct.'49	Jun.'38	May '33	NA	NA	NA
47. Index of industrial production....	Feb.'61	Apr.'58	Apr.'54	Oct.'49	May '38	Jul.'32	Nov.'27	Jul.'24	Apr.
49. GNP in current dollars (Q).....	1stQ'61	1stQ'58	2ndQ'54	2ndQ'49	2ndQ'38	1stQ'33	NSC	NSC	4thQ
50. GNP in 1954 dollars (Q).....	1stQ'61	1stQ'58	2ndQ'54	2ndQ'49	1stQ'38	3rdQ'32	NSC	NSC	NA
52. Personal income.....	NSC	Feb.'58	Mar.'54	Oct.'49	May '38	Mar.'33	4thQ'26	2ndQ'24	2ndQ
53. Labor income in mining, manufacturing and construction.....	Dec.'60	Apr.'58	Aug.'54	Oct.'49	Jun.'38	Mar.'33	NA	NA	NA
54. Sales of retail stores.....	Apr.'61	Mar.'58	Jan.'54	NSC	May '38	Mar.'33	NSC	NSC	Mar.
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 1921
NBER LEADING INDICATORS									
1. Average workweek of production workers, manufacturing.....	Apr.'59	Nov.'55	Apr.'53	NSC	Dec.'36	Oct.'29	Nov.'25	Nov.'22	NA
9. Construction contracts awarded for commercial and industrial bldgs...	Jun.'60	Mar.'56	NSC	Mar.'46	Jul.'37	Jan.'29	Sep.'25	Aug.'22	Dec.
13. Number of new business incorporations.....	Apr.'59	Feb.'56	NSC	Jul.'46	Dec.'36	Jan.'29	Oct.'25	Apr.'23	Dec.
17. Price per unit of labor cost index.	May '59	Dec.'55	Feb.'51	Jan.'48	NA	NA	NA	NA	NA
19. Index of stock prices, 500 stocks..	Jul.'59	Jul.'56	Jan.'53	Jun.'48	Feb.'37	Sep.'29	NSC	Mar.'23	Jul.
23. Index of industrial mat. prices....	Nov.'59	Dec.'55	Feb.'51	Jan.'48	Mar.'37	Mar.'29	Nov.'25	Mar.'23	Apr.
24. Value of mfrs.' new orders, machinery and equipment industries..	Jul.'59	Nov.'56	Feb.'51	Apr.'48	NA	NA	NA	NA	NA
29. Index of new private housing units authorized by local bldg. permits.	Nov.'58	Feb.'55	NA	NA	NA	NA	NA	NA	NA
NBER ROUGHLY COINCIDENT INDICATORS									
41. Number of employees in nonagricultural establishments.....	Apr.'60	Mar.'57	Jul.'53	Jul.'48	Jul.'37	Aug.'29	Jan.'26	Jun.'23	Jan.
43. Unemployment rate, total (inverted)	Feb.'60	Mar.'57	Jun.'53	Jan.'48	Jul.'37	NA	NA	NA	NA
47. Index of industrial production....	Jan.'60	Feb.'57	Jul.'53	Jul.'48	May '37	Jul.'29	Mar.'27	May '23	Feb.
49. GNP in current dollars (Q).....	2ndQ'60	3rdQ'57	2ndQ'53	4thQ'48	3rdQ'37	3rdQ'29	NSC	NSC	NA
50. GNP in 1954 dollars (Q).....	2ndQ'60	3rdQ'57	2ndQ'53	4thQ'48	3rdQ'37	3rdQ'29	NSC	NSC	NA
52. Personal income.....	NSC	Aug.'57	Oct.'53	Oct.'48	Jun.'37	Aug.'29	2ndQ'26	1stQ'24	NA
53. Labor income in mining, manufacturing and construction.....	May '60	Jul.'57	Jul.'53	Sep.'48	May '37	Sep.'29	NA	NA	NA
54. Sales of retail stores.....	Apr.'60	Aug.'57	Mar.'53	NSC	Sep.'37	Sep.'29	NSC	NSC	Jul.

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

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

Part 1.--Average Percentage Changes

Monthly series	CI	I	C	I/C	MCD	I/C for MCD span	Average duration of run (ADR)			
							CI	I	C	MCD
NBER LEADING INDICATORS										
. Avg. workweek, production workers, mfg.....	.49	.42	.21	2.00	2	.95	2.15	1.65	10.58	4.06
. Accession rate, manufacturing.....	4.92	4.69	1.72	2.73	3	.89	1.85	1.54	9.00	5.64
. Nonagricultural placements, all industries....	1.82	1.29	1.18	1.09	2	.59	2.27	1.63	9.77	5.25
. Layoff rate, manufacturing.....	9.52	8.05	4.02	2.00	3	.70	2.21	1.73	8.40	5.39
. Temporary layoff, all industries.....	17.76	17.12	3.99	4.29	5	.89	1.63	1.44	6.35	3.08
. Avg. weekly initial claims, State unemploy- ment insurance.....	5.29	4.62	2.49	1.86	2	.86	1.72	1.51	9.77	3.94
. New orders, durable goods industries.....	3.79	3.25	1.61	2.02	3	.59	1.67	1.54	8.33	4.56
. New orders, machinery and equipment indus....	4.47	4.01	1.61	2.49	3	.84	1.76	1.51	12.50	3.62
. Construction contracts, commercial and industrial.....	9.66	9.43	1.67	5.65	6	(¹)	1.70	1.54	6.63	3.03
. Contracts and orders, plant and equipment....	4.93	4.61	1.47	3.14	4	.82	1.82	1.59	10.75	3.71
. Private nonfarm housing starts.....	7.34	7.31	1.14	6.41	6	(¹)	1.53	1.53	6.13	2.32
. New building permits, private housing.....	3.82	3.39	1.48	2.29	3	.68	1.89	1.53	14.38	3.32
. New business incorporations.....	2.68	2.36	1.10	2.15	3	.77	2.10	1.70	6.30	3.02
. Liabilities of business failures.....	16.86	16.36	2.52	6.49	6	(¹)	1.48	1.32	5.77	2.26
. Large business failures.....	13.09	12.81	2.11	6.07	6	(¹)	1.53	1.37	9.77	5.30
. Ratio, price to unit labor cost, manufacturing	.69	.56	.33	1.70	2	.94	2.23	1.74	7.47	3.60
. Stock prices, 500 common stocks.....	2.65	1.86	1.67	1.11	2	.68	2.35	1.67	12.70	3.94
. Purchased materials, percent reporting higher inventories.....	6.81	5.29	3.10	1.71	3	.66	2.54	1.76	10.58	4.63
. Production materials, percent reporting com- mitments 60 days or longer.....	5.81	5.32	2.14	2.49	3	.76	1.87	1.63	12.70	3.91
. Vendor performance, percent reporting slower deliveries.....	7.68	5.54	4.73	1.17	2	.79	3.53	2.12	9.77	4.20
. Industrial materials prices.....	1.32	1.04	.74	1.41	2	.95	2.44	2.05	11.55	4.06
NBER ROUGHLY COINCIDENT INDICATORS										
. Employees in nonagricultural establishments...	.30	.15	.25	.60	1	.60	5.29	2.05	14.11	5.29
. Total nonagricultural employment.....	.36	.29	.19	1.53	2	.79	1.82	1.62	18.71	3.33
. Unemployment rate, total.....	4.19	3.14	2.41	1.30	2	.69	2.67	1.58	8.19	3.33
. Unemployment rate, married males.....	5.98	5.02	2.86	1.76	2	.88	2.53	1.63	10.90	4.91
. Average weekly insured unemployment, State...	4.82	2.56	3.56	.72	1	.72	3.74	2.12	9.07	3.74
. Help-wanted advertising.....	3.11	1.88	2.35	.80	1	.80	3.47	1.60	9.62	3.47
. Industrial production.....	1.09	.58	.79	.73	1	.73	3.53	2.05	9.77	3.53
. Bank debits outside NYC.....	1.48	1.44	.60	2.40	3	.54	1.69	1.53	18.14	4.31
. Personal income.....	.49	.27	.41	.66	1	.66	3.43	1.84	18.14	3.43
. Labor income in mining, mfg., construction...	.81	.53	.61	.87	1	.87	3.43	1.90	11.55	3.43
. Sales of retail stores.....	.78	.63	.44	1.43	2	.85	2.53	1.80	9.54	3.62
. Wholesale prices, except farm prod. and foods.	.17	.10	.13	.77	1	.77	3.53	2.65	11.55	3.53
NBER LAGGING INDICATORS										
. Labor cost per unit of output, manufacturing..	.65	.48	.36	1.33	2	.72	2.27	1.55	9.07	4.34
. Book value of manufacturers' inventories.....	.54	.19	.49	.39	1	.39	8.33	2.02	13.89	8.33
. Book value of manufacturers' inventories of finished goods.....	.80	.54	.49	1.10	2	.53	2.40	1.42	15.63	5.17
. Consumer installment debt.....	.83	.17	.78	.22	1	.22	11.45	2.29	18.00	11.45
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE										
. Federal cash payments to public.....	5.68	5.59	.82	6.82	6	(¹)	1.51	1.41	8.47	2.18
. Federal cash receipts from public.....	5.37	5.20	.95	5.47	6	(¹)	1.74	1.57	7.47	2.60
. Defense Dept. obligations, procurement.....	26.87	26.37	4.09	6.45	6	(¹)	1.51	1.46	5.93	2.27
. Defense Dept. obligations, total.....	15.12	14.78	2.70	5.47	6	(¹)	1.47	1.43	6.61	2.48
. Military contract awards in U.S.....	26.25	26.21	6.12	4.28	6	(¹)	1.58	1.47	5.95	2.86
. New orders, defense products.....	23.00	23.02	3.60	6.39	6	(¹)	1.51	1.45	5.56	2.53
. Treasury bill rate.....	7.33	5.69	4.71	1.21	2	.81	2.47	2.00	9.71	3.55
. Treasury bond yields.....	1.80	1.39	1.04	1.34	2	.95	2.72	2.13	10.46	3.75
. Corporate bond yields.....	1.68	1.50	.58	2.59	4	.93	2.26	1.79	8.67	4.90
. Municipal bond yields.....	2.57	2.17	1.12	1.94	3	.86	2.63	1.90	8.56	3.55
. Mortgage yields.....	.58	.27	.52	.52	1	.52	9.13	2.63	17.13	9.13

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	\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	MC
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE--Con.										
86. Exports, excluding military aid.....	4.59	4.39	1.11	3.95	4	.96	1.77	1.66	7.06	2.
87. General imports.....	3.61	3.47	.97	3.58	4	.85	1.59	1.51	7.53	2.
81. Consumer prices.....	.15	.10	.13	.77	1	.77	6.00	2.25	25.20	6.
94. Construction contracts, value.....	7.03	6.69	1.69	3.96	5	.84	1.52	1.45	7.88	3.
96. Unfilled orders, durable goods industries....	1.51	.57	1.34	.43	1	.43	5.95	1.87	13.89	5.
INTERNATIONAL COMPARISONS OF INDUSTRIAL PRODUCTION										
123. Canada.....	.90	.77	.52	1.48	2	.72	3.47	2.12	15.63	8.
122. United Kingdom.....	1.14	1.09	.47	2.32	3	.81	2.40	1.87	8.93	5.
121. OECD European countries.....	.86	.83	.50	1.66	2	.89	3.47	2.40	31.25	7.
125. West Germany.....	1.42	1.18	.69	1.71	2	.93	2.86	2.14	18.00	5.
126. France.....	1.36	1.20	.68	1.76	2	.89	3.21	2.08	25.00	11.
127. Italy.....	1.44	1.41	.74	1.91	3	.64	2.70	1.82	31.00	6.
128. Japan.....	1.70	1.07	1.23	.87	1	.87	2.91	1.52	17.86	2.
Quarterly series	\bar{C}_I	\bar{I}	\bar{C}	\bar{I}/\bar{C}	QCD	\bar{I}/\bar{C} for QCD span	Average duration of run (ADR)			
							CI	I	C	QC
NBER LEADING INDICATORS										
11. New capital appropriations, manufacturing....	11.65	7.26	7.39	.98	1	.98	2.47	1.45	4.67	2.
16. Corporate profits after taxes.....	6.28	4.03	4.71	.86	1	.86	2.47	1.35	5.25	2.
18. Profits per dollar of sales, manufacturing...	6.76	4.80	4.17	1.15	2	.56	2.47	1.40	5.25	2.
22. Ratio, profits to income originating, corporate, all industries.....	5.10	3.76	3.78	.99	1	.99	3.23	1.40	5.25	3.
NBER ROUGHLY COINCIDENT INDICATORS										
50. GNP in 1954 dollars.....	1.29	.49	1.07	.46	1	.46	3.82	1.45	4.67	3.
49. GNP in current dollars.....	1.54	.50	1.33	.38	1	.38	4.67	1.35	6.00	4.
57. Final sales.....	1.30	.38	1.20	.31	1	.31	6.00	1.45	8.40	6.
NBER LAGGING INDICATORS										
61. Business expenditures, new plant and equip...	3.15	1.26	2.64	.48	1	.48	4.67	1.83	4.67	4.
68. Labor cost per dollar of real corp. GNP.....	.90	.49	.72	.68	1	.68	3.15	1.41	5.86	3.
67. Bank rates on short-term business loans.....	2.31	1.57	2.00	.79	1	.79	2.47	1.56	4.67	2.
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE										
110. Total private borrowing.....	11.61	8.33	7.58	1.10	2	.43	2.59	1.33	4.00	4.
111. Corporate gross savings.....	8.60	5.67	6.55	.87	1	.87	2.32	1.38	4.00	2.
97. Backlog of capital appropriations, mfg.....	5.89	1.56	5.54	.28	1	.28	3.00	1.50	6.00	3.

NOTE: Measures are computed for a period of at least 10 years beginning with January 1953, except for series 7, 86, 87, and 116. The period begins with May 1959 for series 7 and with January 1960 for series 116. For series 86 and 87, the period ends with June 1962.

¹Not computed for series when MCD is "6" or more.

The following are brief definitions of the measures shown in this table. More complete explanations appear in 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).

" \bar{C}_I " is the average month-to-month (or quarter-to-quarter) percentage change, without regard to sign, in the seasonally adjusted series. " \bar{I} " is the same for the irregular component, obtained by dividing the cyclical com-

ponent into the seasonally adjusted series. " \bar{C} " is 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: smooth series and large for irregular series. In deriving MCD, percentage changes are computed separately for irregular component and the cyclical component for 1-month spans (Jan.-Feb., Feb.-Mar., etc.), 2-month spans (Jan.-Mar., Feb.-Apr., etc.), up to 5-month spans. Average without regard to sign, are then computed for the change over each span. MCD is the shortest span in months 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 point at which fluctuations in the seasonally adjusted series become dominated by cyclical rather than irregular.

vements. Since changes are not computed for spans greater than 5 months, 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.

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

"Average Duration of Run" (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, change in the same direction as the preceding change is summed. The ADR is shown for the seasonally adjusted series CI, irregular component I, cyclical component C, and the MCD curve. The MCD curve is a 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 1.67 for series 6, Value of Manufacturers' New Orders, Durable Goods Industries. 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, 1.54 for I and 8.33 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 4.56 for the MCD moving average. This indicates that a 3-month moving average of the seasonally adjusted series (3 months being the MCD span) reverses direction, on the average, about every 4 to 5 months. The increase in the ADR from 1.67 for CI to 4.56 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.

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

Part 2.--Average Unit Changes

Monthly series	Unit of measure	$\bar{C}I$	\bar{I}	\bar{C}	\bar{I}/\bar{C}	MCD ¹	\bar{I}/\bar{C} for MCD span	Average duration of run (ADR)			
								CI	I	C	MCD
NBER LEADING INDICATORS											
1. Change in book value, manufacturing and trade inventories.	Ann. rate, bil. dol...	3.50	3.37	.85	3.96	4	.94	1.47	1.44	7.94	3.22
2. Change in book value, mfrs.' inventories of matls., supplies.	..do.....	1.52	1.45	.37	3.93	5	.92	1.64	1.46	6.05	3.15
3. Change in unfilled orders, durable goods.....	Bil. dol....	.49	.46	.16	2.93	4	.79	1.79	1.58	7.44	3.45
OTHER U.S. SERIES WITH BUSINESS CYCLE SIGNIFICANCE											
4. Fed. cash surplus or deficit....	Ann. rate, bil. dol...	5.60	5.46	.97	5.64	9	.79	1.54	1.47	6.09	3.07
5. Free reserves.....	Mil. dol....	104.23	82.19	52.77	1.56	2	.95	2.03	1.52	10.31	3.17
6. Change in money supply.....	Percent....	.23	.23	.03	6.75	11	.82	1.45	1.48	6.18	3.32
7. Change in money supply and time deposits.....	..do.....	.21	.21	.04	5.29	7	.97	1.51	1.45	6.80	2.60
8. Change, business loans.....	Ann. rate, bil. dol...	1.22	1.19	.26	4.51	5	.93	1.47	1.47	6.22	2.48
9. Change, consumer installment debt.....	..do.....	.85	.75	.34	2.19	3	.78	1.71	1.55	9.00	3.24
10. Merchandise trade balance.....	Mil. dol....	58.96	56.60	17.50	3.23	3	.93	1.82	1.61	11.30	2.64

NOTE: Measures are computed for the period, January 1953 to mid-1964, except for series 88 and 112. For series 88, the period ends with June 1962 and for series 112, the period begins with August 1959.

¹Where MCD is larger than "6", a 6-term moving average used as the MCD curve.

The measures in the above table are computed by an adaptive method to avoid the distortion caused by zero and

negative data. Thus, " $\bar{C}I$ " is the average month-to-month 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 SEASONAL ADJUSTMENT FACTORS FOR BUSINESS CYCLE SERIES ADJUSTED BY BUREAU OF THE CENSUS OR NBE
(NOVEMBER 1963 TO DECEMBER 1964)

Series	1963		1964											
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec
4. Temporary layoff, all industries.	86.7	95.9	144.5	107.7	98.9	86.6	84.0	76.7	98.3	146.0	82.4	90.7	86.6	95.
5. Avg. weekly initial claims, State unemployment insurance....	103.1	133.7	142.1	109.5	94.4	93.8	83.0	82.9	104.7	85.5	78.7	89.0	103.0	134.
13. New business incorporations ¹	82.3	97.5	116.3	96.3	110.0	106.9	102.9	106.7	108.2	90.5	92.5	99.0	82.3	102.
14. Liabilities of business failures.	102.5	78.5	110.3	101.7	103.5	114.6	103.3	94.4	82.7	124.9	91.0	92.0	102.6	77.
15. Large business failures.....	94.3	85.7	111.7	112.8	115.0	109.1	99.7	104.7	87.6	95.9	90.3	93.5	94.3	85.
17. Ratio, price to unit labor cost, manufacturing.....	101.1	97.7	98.0	99.4	100.0	100.3	100.8	102.3	96.2	99.1	101.7	103.3	101.1	97
18. Profits per dol. of sales, mfg. ² .	100.8	...	...	94.7	...	...	106.2	...	...	97.6	...	...	100.8	.
30. Nonagri. placements, all indus. ¹ .	93.1	81.1	82.6	77.4	92.0	103.6	107.4	110.8	105.0	111.0	124.4	112.6	93.3	82
37. Purchased materials, percent re- porting higher inventories.....	95.1	96.7	109.6	107.4	109.3	109.1	106.3	96.7	92.8	91.6	93.7	92.1	95.1	96
55. Wholesale prices, except farm products and foods.....	100.0	100.2	100.2	100.1	100.1	100.0	100.0	99.9	99.9	99.9	99.9	100.1	100.0	100
62. Labor cost per unit of output, manufacturing.....	98.9	102.3	102.3	100.6	99.9	99.4	99.0	97.6	103.9	100.8	97.9	96.9	98.9	102
81. Index of consumer prices.....	100.2	99.9	99.9	100.0	100.0	99.9	99.8	99.9	100.2	100.0	100.2	100.2	100.2	99
82. Federal cash payments to public..	103.1	98.5	91.9	96.2	93.7	99.0	103.7	102.9	96.6	115.0	93.8	105.7	102.9	98
83. Federal cash receipts from pub...	101.9	106.4	69.3	112.1	126.6	79.0	121.6	149.8	48.9	115.1	123.5	46.1	102.0	106
90. Defense Department obligations-- procurement.....	92.8	102.7	85.8	85.7	102.5	79.7	72.3	207.0	89.6	89.2	97.1	95.8	92.9	102
91. Defense Dept. oblig., total.....	90.3	99.6	92.2	85.7	108.0	94.6	86.2	147.1	101.1	94.3	98.1	103.6	90.3	99
92. Military contract awards in U.S..	84.8	94.5	91.5	83.3	124.8	84.0	89.6	197.9	69.9	88.0	99.0	93.9	84.8	94
112. Change, business loans ³	100.8	101.7	100.2	99.4	100.4	100.7	100.1	99.7	99.1	98.7	99.3	99.8	100.9	101
128. Japan, index of industrial pro- duction.....	99.0	102.0	94.7	100.9	108.4	100.3	100.5	99.4	99.1	96.8	99.1	100.3	99.0	102

These data are not published by the source agency in seasonally adjusted form. Seasonal adjustments were made by the Bureau of the Census or the National Bureau of Economic Research, Inc. Seasonally adjusted data prepared by the source agency will be substituted whenever they are published.

¹Factors are a combination of seasonal and trading-day factors.

²Quarterly series; figures are placed in middle month of quarter.

³Factors apply to total series before month-to-month changes are computed.

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		
	41. Em- ployees in non- agri. es- tablish- ments	47. Index of indus- trial pro- duc- tion	50. GNP in 1954 dollars (Q) ¹	49. GNP in cur- rent dollars (Q) ¹	51. Bank debits outside NYC	52. Per- sonal income	54. Re- tail sales	Change in rate, peak to trough	Rate at peak	Rate at trough
Jan. 1920-July 1921.....	NA	-31.6	NA	-19.7	-22.5	-21.9	-6.2	² +7.9	² 4.0	² 11.9
May 1923-July 1924.....	NA	-18.0	-0.3	-2.3	-3.1	0.0	0.0	² +2.3	² 3.2	² 5.5
Oct. 1926-Nov. 1927.....	NA	-5.9	+2.3	+0.4	+8.7	+0.9	0.0	² +2.2	² 1.9	² 4.1
Aug. 1929-Mar. 1933.....	-31.6	-51.8	-28.0	-49.6	-61.9	-50.8	-47.4	+25.4	³ 0.0	25.4
May 1937-June 1938.....	-10.4	-31.7	-8.9	-11.9	-16.5	-10.9	-18.5	+8.8	11.2	20.0
Feb. 1945-Oct. 1945 ⁴	-7.8	-31.4	NA	-10.9	-1.0	-4.0	+9.9	+2.2	1.1	3.3
Nov. 1948-Oct. 1949.....	-5.1	-8.5	-1.4	-3.3	-4.0	-4.3	0.0	+4.1	³ 3.8	7.9
July 1953-Aug. 1954 ⁵	-3.4	-9.1	-3.0	-1.8	+1.6	-0.2	-0.7	+3.5	2.6	6.1
July 1957-Apr. 1958.....	-4.1	-14.1	-3.8	-2.5	-3.1	-0.3	-1.6	+3.2	4.2	7.4
May 1960-Feb. 1961.....	-1.9	-5.7	-1.8	-0.5	+2.4	+1.0	-1.9	+1.7	5.2	6.9
Median: ⁶										
All contractions.....	-5.7	-16.0	-2.4	-2.9	-3.1	-2.2	-1.2	+3.4	3.5	7.2
Excluding postwar con- tractions.....	-6.5	-16.0	-2.3	-2.9	-3.6	-2.3	-1.8	+3.6	3.9	7.6
4 contractions since 1948.....	-3.8	-8.8	-2.4	-2.2	-0.8	-0.2	-1.2	+3.4	4.0	7.2

Expansions: Reference trough to reference peak	Percent change: Reference trough to reference peak							43. Unemployment rate		
	41 Em- ployees in non- agri. es- tablish- ments	47. Index of indus- trial pro- duc- tion	50. GNP in 1954 dollars (Q) ¹	49 GNP in cur- rent dollars (Q) ¹	51. Bank debits outside NYC	52. Per- sonal income	54. Re- tail sales	Change in rate, trough to peak	Rate at trough	Rate at peak
July 1921-May 1923.....	NA	+64.2	NA	+25.1	+23.5	+29.6	+13.3	² -8.7	² 11.9	² 3.2
July 1924-Oct. 1926.....	NA	+30.4	+12.4	+14.7	+18.9	+13.2	+8.8	² -3.6	² 5.5	² 1.9
Nov. 1927-Aug. 1929.....	NA	+24.1	+12.6	+13.3	+20.4	+12.2	+2.7	² -0.9	² 4.1	² 3.2
Apr. 1933-May 1937.....	+40.2	+119.9	+42.1	+73.9	+78.4	+76.3	+85.6	-14.2	25.4	11.2
June 1938-Feb. 1945 ⁴	+45.9	+183.3	NA	+169.6	+131.7	+157.3	+102.0	-18.9	20.0	1.1
Oct. 1945-Nov. 1948.....	+17.2	+21.9	+3.3	+34.9	+51.5	+28.5	+59.7	+0.3	3.3	³ 3.6
Nov. 1949-July 1953 ⁵	+17.7	+50.0	+27.4	+43.5	+49.3	+41.5	+26.3	-5.3	7.9	2.6
Aug. 1954-July 1957.....	+8.9	+19.7	+13.5	+23.8	+28.6	+22.8	+20.0	-1.9	6.1	4.2
Apr. 1958-May 1960.....	+7.2	+25.2	+11.9	+15.3	+21.2	+13.6	+10.8	-2.2	7.4	5.2
Median: ⁶										
All expansions.....	+17.4	+35.2	+12.8	+27.9	+33.8	+27.0	+19.9	-3.7	7.1	3.3
Excluding wartime ex- pansions.....	+13.0	+26.6	+12.5	+21.4	+24.4	+21.6	+14.7	-2.6	6.3	3.7
4 expansions since 1945.....	+13.0	+23.6	+12.7	+29.4	+39.0	+25.6	+23.2	-2.0	6.8	3.9

For series with a "months for cyclical dominance" (MCD) of "1" or "2" (series 41, 43, 47, 52, and 54), the figure for the reference peak (trough) month is used as the base. For series with an MCD of "3" or more (series 51), 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.

¹The 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.

²Based on average for the calendar year.

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

⁴World War II contraction or expansion period.

⁵Korean War contraction or expansion period.

⁶The 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--Continued

Each month historical data are presented for certain series that either have not been shown here previously or have been revised historically. The months of issue for series previously included in this appendix are given in the index. Current data are shown in tables 2, 4, and 5. Data are seasonally adjusted except series 48.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11. Newly approved capital appropriations, 1,000 manufacturing corporations (Bil. dol.)												
1948.....
1949.....
1950.....
1951.....
1952.....
1953.....	...	1.75	...	...	2.02	...	...	2.26	...	...	2.02	...
1954.....	...	1.84	...	...	1.81	...	...	1.83	...	...	2.26	...
1955.....	...	2.66	...	...	3.22	...	...	3.87	...	...	3.99	...
1956.....	...	3.99	...	...	3.70	...	...	3.34	...	...	3.24	...
1957.....	...	3.47	...	...	3.00	...	...	2.37	...	...	2.26	...
1958.....	...	1.91	...	...	1.88	...	...	2.14	...	...	2.19	...
1959.....	...	2.64	...	...	2.88	...	...	3.02	...	...	3.08	...
1960.....	...	2.81	...	...	2.48	...	...	2.20	...	...	2.67	...
97. Backlog of capital appropriations, 1,000 manufacturing corporations (Bil. dol.)												
1948.....
1949.....
1950.....
1951.....
1952.....
1953.....	5.81	...	...	5.62	...	...	5.72	...	...	5.57
1954.....	5.21	...	...	4.84	...	...	4.60	...	...	4.78
1955.....	5.41	...	...	6.54	...	...	8.16	...	...	9.75
1956.....	11.03	...	...	11.73	...	...	11.84	...	...	11.66
1957.....	11.63	...	...	11.04	...	...	9.91	...	...	8.76
1958.....	7.60	...	...	6.89	...	...	6.73	...	...	6.71
1959.....	7.14	...	...	7.74	...	...	8.36	...	...	8.95
1960.....	9.01	...	...	8.59	...	...	7.96	...	...	7.88
111. Gross retained earnings of nonfinancial corporations (Annual rate, mil. dol.)												
1948.....
1949.....
1950.....
1951.....
1952.....	...	20,504	...	...	19,852	...	...	19,944	...	...	22,248	...
1953.....	...	22,184	...	...	21,532	...	...	20,576	...	...	19,280	...
1954.....	...	20,684	...	...	21,436	...	...	21,388	...	...	23,664	...
1955.....	...	26,212	...	...	27,284	...	...	28,152	...	...	28,492	...
1956.....	...	27,740	...	...	26,700	...	...	28,180	...	...	29,208	...
1957.....	...	29,084	...	...	28,960	...	...	29,596	...	...	29,644	...
1958.....	...	25,720	...	...	26,752	...	...	28,364	...	...	32,480	...
1959.....	...	32,588	...	...	34,632	...	...	32,712	...	...	34,848	...
1960.....	...	33,616	...	...	32,816	...	...	32,628	...	...	31,464	...
48. Change in freight carloadings for 19 manuf. commodity groups over 4-quarter intervals (Thous. cars)												
1948.....	...	-21	...	...	-143	...	...	-203	...	...	-271	...
1949.....	...	-541	...	...	-589	...	...	-213	...	...	-10	...
1950.....	...	+354	...	...	+543	...	...	+332	...	...	+151	...
1951.....	...	-42	...	...	-78	...	...	-34	...	...	-291	...
1952.....	...	-178	...	...	-60	...	...	-77	...	...	+209	...
1953.....	...	+129	...	...	-183	...	...	-241	...	...	-358	...
1954.....	...	-329	...	...	-72	...	...	+77	...	...	+235	...
1955.....	...	+296	...	...	+231	...	...	+155	...	...	+94	...
1956.....	...	-190	...	...	-27	...	...	-74	...	...	-170	...
1957.....	...	+24	...	...	-303	...	...	-389	...	...	-426	...
1958.....	...	-325	...	...	-80	...	...	+134	...	...	+321	...
1959.....	...	-173	...	...	-73	...	...	+8	...	...	-146	...
1960.....	...	+96	...	...	-103	...	...	-279	...	...	-212	...

Appendix F.--HISTORICAL DATA FOR SELECTED SERIES--Continued

Each month historical data are presented for certain series that either have not been shown here previously or have been revised historically. The months of issue for series previously included in this appendix are given in the index. Current data are shown in tables 2, 4, and 5. Data are seasonally adjusted except series D48.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
D48. Diffusion index for actual freight carloadings--19 manuf. commodity groups (4-quarter interval)												
1948.....	...	57.9	...	...	42.1	...	...	42.1	...	...	36.8	...
1949.....	...	26.3	...	...	15.8	...	...	36.8	...	...	68.4	...
1950.....	...	89.5	...	...	89.5	...	...	89.5	...	...	63.2	...
1951.....	...	42.1	...	...	31.6	...	...	42.1	...	...	21.1	...
1952.....	...	36.8	...	...	42.1	...	...	52.6	...	...	78.9	...
1953.....	...	78.9	...	...	26.3	...	...	21.1	...	...	21.1	...
1954.....	...	10.5	...	...	42.1	...	...	63.2	...	...	73.7	...
1955.....	...	73.7	...	...	73.7	...	...	63.2	...	...	52.6	...
1956.....	...	26.3	...	...	42.1	...	...	15.8	...	...	21.1	...
1957.....	...	31.6	...	...	5.3	...	...	15.8	...	...	10.5	...
1958.....	...	31.6	...	...	36.8	...	...	68.4	...	...	84.2	...
1959.....	...	52.6	...	...	42.1	...	...	57.9	...	...	26.3	...
1960.....	...	31.6	...	...	31.6	...	...	21.1	...	...	26.3	...
D48. Diffusion index for anticipated freight carloadings--19 manuf. commodity groups (4-quarter interval)												
1948.....	...	73.7	...	...	68.4	...	...	78.9	...	...	36.8	...
1949.....	...	26.3	...	...	36.8	...	...	47.4	...	...	63.2	...
1950.....	...	78.9	...	...	94.7	...	...	89.5	...	...	68.4	...
1951.....	...	68.4	...	...	63.2	...	...	52.6	...	...	36.8	...
1952.....	...	52.6	...	...	68.4	...	...	78.9	...	...	73.7	...
1953.....	...	78.9	...	...	42.1	...	...	31.6	...	...	26.3	...
1954.....	...	26.3	...	...	31.6	...	...	78.9	...	...	84.2	...
1955.....	...	94.7	...	...	89.5	...	...	100.0	...	...	84.2	...
1956.....	...	73.7	...	...	73.7	...	...	63.2	...	...	68.4	...
1957.....	...	68.4	...	...	47.4	...	...	36.8	...	...	21.1	...
1958.....	...	10.5	...	...	52.6	...	...	63.2	...	...	89.5	...
1959.....	...	78.9	...	...	84.2	...	...	89.5	...	...	57.9	...
1960.....	...	68.4	...	...	78.9	...	...	50.0	...	...	42.1	...
D61. Diffusion index for actual new plant and equipment expenditures--16 industries (1-quarter interval)												
1948.....	87.5	...	...	53.1	...	...	62.5	...	...	46.9	...	...
1949.....	25.0	...	...	12.5	...	...	21.9	...	...	28.1	...	...
1950.....	46.9	...	...	59.4	...	...	90.6	...	...	90.6	...	...
1951.....	78.1	...	...	93.8	...	...	75.0	...	...	46.9	...	...
1952.....	65.6	...	...	18.8	...	...	31.2	...	...	71.9	...	...
1953.....	68.8	...	...	59.4	...	...	56.2	...	...	37.5	...	...
1954.....	18.8	...	...	40.6	...	...	31.2	...	...	43.8	...	...
1955.....	28.1	...	...	84.4	...	...	87.5	...	...	100.0	...	...
1956.....	87.5	...	...	81.2	...	...	71.9	...	...	78.1	...	...
1957.....	56.2	...	...	53.1	...	...	43.8	...	...	25.0	...	...
1958.....	0.0	...	...	18.8	...	...	28.1	...	...	50.0	...	...
1959.....	68.8	...	...	81.2	...	...	75.0	...	...	65.6	...	...
1960.....	75.0	...	...	71.9	...	...	56.2	...	...	34.4	...	...
D61. Diffusion index for anticipated new plant and equipment expenditures--16 industries (1-quarter int.)												
1948.....	...	...	...	...	...	...	...	...	...	...	...	...
1949.....	...	...	...	...	...	...	...	...	...	...	...	...
1950.....	...	...	...	...	...	...	...	...	...	...	...	...
1951.....	...	...	...	...	...	...	...	...	...	...	...	...
1952.....	...	...	...	...	...	...	...	...	...	...	...	...
1953.....	...	...	...	...	...	...	...	...	...	...	...	...
1954.....	...	...	...	...	...	...	...	...	...	...	...	...
1955.....	...	...	...	...	...	...	...	...	...	...	...	...
1956.....	...	...	...	...	...	...	...	...	...	...	...	...
1957.....	...	...	...	...	...	...	...	...	...	...	...	...
1958.....	...	...	...	...	...	...	...	...	...	40.6	...	...
1959.....	84.4	...	...	87.5	...	...	84.4	...	...	71.9	...	...
1960.....	84.4	...	...	71.9	...	...	71.9	...	...	43.8	...	...

Appendix

Appendix F.--HISTORICAL DATA FOR SELECTED SERIES--Continued

Each month historical data are presented for certain series that either have not been shown here previously or have been revised historically. The months of issue for series previously included in this appendix are given in the index. Current data are shown in tables 2, 4, and 5. Data are not seasonally adjusted.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
D35. Diffusion index for manufacturers' actual net sales--800 companies (4-quarter interval)												
1948.....	42	...	...	45	...
1949.....	...	43	...	...	51	...	...	63	...	...	70	...
1950.....	...	89	...	...	89	...	...	90	...	...	82	...
1951.....	...	70	...	...	69	...	...	58	...	...	62	...
1952.....	...	70	...	...	NA	...	...	76	...	...	78	...
1953.....	...	72	...	...	61	...	...	50	...	...	50	...
1954.....	...	54	...	...	62	...	...	76	...	...	82	...
1955.....	...	82	...	...	84	...	...	82	...	...	80	...
1956.....	...	79	...	...	74	...	...	69	...	...	69	...
1957.....	...	NA	...	...	52	...	...	39	...	...	48	...
1958.....	...	57	...	...	66	...	...	84	...	...	88	...
1959.....	...	84	...	...	76	...	...	78	...	...	68	...
1960.....	...	61	...	...	53	...	...	50	...	...	60	...
D35. Diffusion index for manufacturers' anticipated net sales--800 companies (4-quarter interval)												
1948.....
1949.....	48	...	...	62	...	...	70	...
1950.....	...	76	...	...	88	...	...	88	...	...	87	...
1951.....	...	84	...	...	78	...	...	68	...	...	72	...
1952.....	...	72	...	...	74	...	...	78	...	...	NA	...
1953.....	...	NA	...	...	76	...	...	66	...	...	62	...
1954.....	...	62	...	...	64	...	...	74	...	...	82	...
1955.....	...	84	...	...	86	...	...	82	...	...	84	...
1956.....	...	80	...	...	80	...	...	79	...	...	81	...
1957.....	...	74	...	...	76	...	...	NA	...	...	58	...
1958.....	...	60	...	...	74	...	...	84	...	...	86	...
1959.....	...	88	...	...	87	...	...	82	...	...	84	...
1960.....	...	82	...	...	74	...	...	70	...	...	68	...
D36. Diffusion index for actual new orders, durable manufactures--400 companies (4-quarter interval)												
1948.....	37	...
1949.....	...	44	...	...	54	...	...	71	...	...	76	...
1950.....	...	88	...	...	92	...	...	92	...	...	86	...
1951.....	...	74	...	...	74	...	...	64	...	...	62	...
1952.....	...	69	...	...	NA	...	...	77	...	...	76	...
1953.....	...	72	...	...	60	...	...	43	...	...	49	...
1954.....	...	52	...	...	61	...	...	74	...	...	83	...
1955.....	...	84	...	...	86	...	...	84	...	...	78	...
1956.....	...	78	...	...	72	...	...	64	...	...	63	...
1957.....	...	NA	...	...	46	...	...	36	...	...	45	...
1958.....	...	57	...	...	66	...	...	84	...	...	85	...
1959.....	...	82	...	...	76	...	...	76	...	...	64	...
1960.....	...	58	...	...	51	...	...	50	...	...	62	...
D36. Diffusion index for anticipated new orders, durable manufactures--400 companies (4-quarter interval)												
1948.....
1949.....	49	...	...	58	...	...	70	...
1950.....	...	78	...	...	86	...	...	81	...	...	80	...
1951.....	...	85	...	...	76	...	...	70	...	...	73	...
1952.....	...	68	...	...	68	...	...	74	...	...	NA	...
1953.....	...	NA	...	...	72	...	...	64	...	...	58	...
1954.....	...	58	...	...	62	...	...	68	...	...	80	...
1955.....	...	80	...	...	84	...	...	79	...	...	83	...
1956.....	...	76	74	74	76	...
1957.....	...	68	68	NA	54	...
1958.....	...	58	72	82	83	...
1959.....	...	84	84	77	82	...
1960.....	...	76	68	68	68	...

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...	10	6	24	58	59	62	65	..	66	11-63
...	10	6	24	62	65	..	66	3-64
...	11	6	24	58	59	63	64	6-64
...	11	51	55	6	24	58	59	60	..	62	62	65	..	68	6-63
...	11	6	24	63	65	..	64	6-64
...	11	51	56	6	24	58	59	60	..	62	62	66	4-64
...	12	6	25	64	64	6-64
...	12	6	24	64	6-64
...	11	6	24	63	65	6-64
...	12	51	56	6	25	58	59	60	..	62	62	66	1-64
...	9	50	55	6	22	58	59	60	..	62	62	66	12-63
...	12	6	25	64	66	12-63
...	12	6	25	62	65	6-64
...	9	50	..	6	23	58	59	60	..	62	62	63	6-64
...	8	6	22	62	65	..	66	10-63
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...	13	6	26	62	66	2-64
...	14	53	57	6	26	58	59	60	..	62	62	..	67	70	9-64
...	14	53	..	6	27	58	59	60	..	62	63	..	67	68	8-64
...	14	56	6	26	58	59	60	..	62	63	..	67	69	8-64
...	15	53	..	6	27	58	59	62	..	67	69	8-64
...	15	53	56	6	27	58	59	60	..	62	62	..	67	69	8-64
...	15	6	27	60	..	62	62	66	10-63
...	15	52	57	6	27	58	59	60	..	62	62	..	67	66	10-63
...	15	52	..	6	27	58	59	62	65	..	69	8-64
...	14	6	27	63	70	8-64
...	66	4-64
...	16	54	..	7	28	58	59	63	65	6-64
...	16	54	..	7	28	58	59	62	65	..	68	6-63
...	16	54	..	7	28	58	59	62	66	6-64
...	16	7	28	62	66	6-64
...	16	7	28	58	59	62	70	8-64
...	16	54	..	7	28	58	59	63	70	8-64
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¹See back cover for series titles and sources.
³Before May 1964, this appendix was "G".

²Page number shown is for August 1964 issue.

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85...	18	7	30	64	73	7-64
86...	20	7	32	63	69	9-64
87...	20	7	32	63	69	9-64
88...	20	7	32	64	69	9-64
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95...	17	7	29	66	10-64
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97...	20	7	32	63	68	11-64
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111..	18	7	30	63	68	11-64	73	7-64
112..	18	7	30	64	65	..	71	7-64	73	7-64
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115..	19	7	31	62	72	7-64	74	7-64
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¹See back cover for series titles and sources.²Before May 1964, this appendix was "G".

TITLES AND SOURCES OF PRINCIPAL BUSINESS CYCLE SERIES AND DIFFUSION INDEXES

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

30 NBER LEADING INDICATORS

Average workweek of production workers, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
Accession rate, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
Layoff rate, manufacturing (M).--Department of Labor, Bureau of Labor Statistics
Number of persons on temporary layoff, all industries (M).--Department of Labor, Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census
Average weekly initial claims for unemployment insurance, State programs (M).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
Value of manufacturers' new orders, durable goods industries (M).--Department of Commerce, Bureau of the Census
New private nonfarm dwelling units started (M).--Department of Commerce, Bureau of the Census
Construction contracts awarded for commercial and industrial buildings, floor space (M).--F. W. Dodge Corporation; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
Contracts and orders for plant and equipment (M).--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.
Newly approved capital appropriations, 1,000 manufacturing corporations (Q).--National Industrial Conference Board; component industries are seasonally adjusted by National Bureau of Economic Research, Inc., and added to obtain seasonally adjusted total
Net change in the business population, operating businesses (Q).--Department of Commerce, Office of Business Economics
Number of new business incorporations (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
Current liabilities of business failures (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
Number of business failures with liabilities of \$100,000 and over (M).--Dun and Bradstreet, Inc.; seasonal adjustment by Bureau of the Census and National Bureau of Economic Research, Inc.
Corporate profits after taxes (Q).--Department of Commerce, Office of Business Economics
Price per unit of labor cost index—ratio, wholesale prices of manufactured goods index to index of compensation of employees (sum of wages, salaries, and supplements to wages and salaries) per unit of output (M).--Department of Commerce, Office of Business Economics; Department of Labor, Bureau of Labor Statistics; and Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census
Profits (before taxes) per dollar of sales, all manufacturing corporations (Q).--Federal Trade Commission and Securities and Exchange Commission; seasonal adjustment by Bureau of the Census
Index of stock prices, 500 common stocks (M).--Standard and Poor's Corporation; no seasonal adjustment
Change in book value of manufacturers' inventories of materials and supplies (M).--Department of Commerce, Bureau of the Census
Change in business inventories, farm and nonfarm, after valuation adjustment (GNP component) (Q).--Department of Commerce, Office of Business Economics
Ratio of profits (after taxes) to income originating, corporate, all industries (Q).--Department of Commerce, Office of Business Economics
Index of industrial materials prices (M).--Department of Labor, Bureau of Labor Statistics; no seasonal adjustment
Value of manufacturers' new orders, machinery and equipment industries (M).--Department of Commerce, Bureau of the Census
Change in manufacturers' unfilled orders, durable goods industries (M).--Department of Commerce, Bureau of the Census
Buying policy—production materials, percent reporting commitments 60 days or longer (M).--National Association of Purchasing Agents; no seasonal adjustment
Index of new private housing units authorized by local building permits (M).--Department of Commerce, Bureau of the Census

30. Nonagricultural placements, all industries (M).--Department of Labor, Bureau of Employment Security; seasonal adjustment by Bureau of the Census
31. Change in book value of manufacturing and trade inventories, total (M).--Department of Commerce, Office of Business Economics
32. Vendor performance, percent reporting slower deliveries (M).--Chicago Purchasing Agents Association; no seasonal adjustment
37. Percent reporting higher inventories, purchased materials (M).--National Association of Purchasing Agents; seasonal adjustment by Bureau of the Census

15 NBER ROUGHLY COINCIDENT INDICATORS

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

7 NBER LAGGING INDICATORS

***61. Business expenditures on new plant and equipment, total (Q).**--Department of Commerce, Office of Business Economics; and the Securities and Exchange Commission
***62. Index of 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).**--Department of Commerce, Office of Business Economics, and the Board of Governors of the Federal Reserve System; seasonal adjustment by Bureau of the Census
***64. Book value of manufacturers' inventories, all manufacturing industries (EOM).**--Department of Commerce, Bureau of the Census
65. Book value of manufacturers' inventories of finished goods, all manufacturing industries (EOM).--Department of Commerce, Bureau of the Census
***66. Consumer installment debt (EOM).**--Board of Governors of the Federal Reserve System. FRS seasonally adjusted net change added to seasonally adjusted figure for previous month to obtain current figure
***67. Bank rates on short-term business loans, 19 cities (Q).**--Board of Governors of the Federal Reserve System; no seasonal adjustment
68. Index of labor cost per dollar of real corporate gross national product (ratio of compensation of employees in corporate enterprises to value of corporate product in 1954 dollars) (Q).--Department of Commerce, Office of Business Economics, National Income Division

Continued on reverse

OFFICIAL BUSINESS
FIRST CLASS MAIL

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

28 OTHER U.S. SERIES WITH BUSINESS
CYCLE SIGNIFICANCE

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

112. **Net change in bank loans to businesses (M).**--Board of Governors of the Federal Reserve System; seasonal adjustment Bureau of the Census
113. **Net change in consumer installment debt (M).**--Board of Governors of the Federal Reserve System
114. **Discount rate on new issues of 91-day Treasury bills (M)** Board of Governors of the Federal Reserve System; no seasonal adjustment
115. **Yield on long-term Treasury bonds (M).** Treasury Department; no seasonal adjustment
116. **Yield on new issues of high-grade corporate bonds (M).**--First National City Bank of New York and Treasury Department; no seasonal adjustment
117. **Yield on municipal bonds, 20-bond average (M).**--The Bond Buyer; no seasonal adjustment
118. **Secondary market yields on FHA mortgages (M).**--Federal Housing Administration; no seasonal adjustment

7 INTERNATIONAL COMPARISONS OF
INDUSTRIAL PRODUCTION

121. **Organization for Economic Cooperation and Development, European Countries, index of industrial production (M).**--Organization for Economic Cooperation and Development
122. **United Kingdom, index of industrial production (M).**--Central Statistical Office (London)
123. **Canada, index of industrial production (M).**--Dominion Bureau of Statistics (Ottawa)
125. **West Germany, index of industrial production (M).**--Deutsche Bundesbank (Frankfurt)
126. **France, index of industrial production (M).**--Statistical Office (Paris)
127. **Italy, index of industrial production (M).**--Organization for Economic Cooperation and Development
128. **Japan, index of industrial production (M).**--Ministry of International Trade and Industry (Tokyo); seasonal adjustment compiler and Bureau of the Census
- ... **United States, index of industrial production (M).**--See series 47.

DIFFUSION INDEXES

- The "D" preceding a number indicates a diffusion index. Diffusion indexes and corresponding business cycle series bear the same number and are obtained from the same sources. See sources at for D1, D5, D6, D11, D19, D23, D41, D47, D54, and D61. Sources of other diffusion indexes are as follows:
- D34. **Profits, Manufacturing, FNCB (Q).**--First National City Bank of New York; no seasonal adjustment of series component Diffusion indexes are seasonally adjusted by National Bureau of Economic Research, Inc.
 - D35. **Net sales, total manufactures (Q).**--Dun and Bradstreet; no seasonal adjustment
 - D36. **New orders, durable manufactures (Q).**--Dun and Bradstreet, Inc.; no seasonal adjustment
 - D48. **Freight carloadings (Q).**--Association of American Railroads; no seasonal adjustment
 - D58. **Wholesale prices, manufacturing (M).**--Department of Labor Bureau of Labor Statistics; seasonal adjustment by Bureau of the Census