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## Appendix B

# List of Series with Acceptable Conformity and Timing, in Three Timing Groups

For an explanation of the criteria met by series in this list, the types of series that did not qualify, and the timing classification see Sections 4 and 5. No attempt has been made to identify series completely, since the list itself can serve only as a rough guide to a choice of useful indicators. Series that in our analysis do not extend as far as the 1938 reference trough are marked with an asterisk. The parenthetic figure following the group title is the number of series in the group.

## Series that Lead at Peaks and Troughs (75)

NEW ORDERS (6)

Locomotives; freight cars; railroad passenger cars; rails;\* steel sheets;\* oak flooring.

PUBLIC AND PRIVATE CONSTRUCTION CONTRACTS AND PERMITS (7) Total contracts, value; total contracts, adjusted for changes in cost; total contracts, New England, value;\* total building contracts, value; same, floor space; total building permits, value; building plans, Manhattan, value.

#### PRIVATE CONSTRUCTION CONTRACTS (10)

Total private, value; total residential, value; same, floor space; 1 and 2 family dwellings, value; commercial and industrial building, value; same, floor space; commercial building, number of projects; industrial building, value; same, floor space; food factories, value.

INVENTORIES (1) Tin, visible supply.

#### **PRODUCTION** (6)

Paper; inner tubes; southern pine lumber; oak flooring (shipments); steel sheets; lead ore (shipments).

TRANSPORTATION AND COMMUNICATION (2)

Operating revenues of railroads, freight; railroad operating expense per traffic unit (inverted).

#### EMPLOYMENT (2)

Percentage employed, all trade union members, Massachusetts;\* same, textile industry.\*

AVERAGE HOURS WORKED PER WEEK, MANUFACTURING (4) All wage earners; all male; male skilled and semi-skilled; male unskilled.

PRICES, WHOLESALE (4) Bradstreet's index;\* inedible tallow; common bricks; slab zinc.

NATIONAL BANK SERIES (6)

Individual deposits, New York City;\* same, central reserve cities;\* bank deposits, New York City;\* same, central reserve cities;\* ratio, loans and discounts to individual deposits, country districts (inverted);\* ratio, loans and discounts to net deposits, country districts (inverted).\*

STOCK EXCHANGE TRANSACTIONS (2) Shares sold, New York Stock Exchange, number; same, value.\*

STOCK PRICE INDEXES (6)

Common stocks, Cowles, S. & P.; same, Frickey;\* preferred stocks, Frickey;\* industrial stocks, Dow-Jones; transportation stocks, Mitchell;\* railroad stocks, Macaulay.\*

SECURITY ISSUES, CORPORATE (3)

Cash obtained thru new issues, Ayres;\* stocks, all corporations; stocks, American and Canadian corporations.

BUSINESS PROFITS (4)

Railroad operating income; net railroad operating income; net revenue from railroad operations; same, per traffic unit.

BUSINESS FAILURES, NUMBER, INVERTED (2)

Large manufacturing companies; suspended banks.\*

BUSINESS FAILURES, LIABILITIES, INVERTED (6)

Total;\* industrial and commercial; all manufacturing companies; large manufacturing companies; trading companies; suspended banks.\*

BANK CLEARINGS AND DEBITS (2) Clearings (to 1919) and debits, total; same, New York City.

BUSINESS ACTIVITY INDEXES (1) Deposits activity, adjusted for trend.

UNCLASSIFIED (1) New incorporations, number.

### Series that Are Roughly Coincident at Peaks and Troughs (29)

RETAIL SALES (1)

Sales, 2 mail order houses, adjusted for trend and changes in prices.

IMPORTS (1) Semi-manufactures, value.

**PRODUCTION, GENERAL INDEXES** (6)

Physical volume of business activity, Babson; industrial production, S. & P.; manufactures, FRB; producer goods, Leong; durable goods, FRBNY; producer durable goods, FRBNY.

PRODUCTION, OTHER (2) Coke; merchant pig iron.

TRANSPORTATION AND COMMUNICATION (5) Freight carloadings; ton-miles per freight car on line; ton-miles per serviceable freight car; ton-miles per freight locomotive; tonmiles per serviceable freight locomotive.

EMPLOYMENT, FACTORY (5) Total, New York state; durable goods; cement, clay, and glass; iron and steel products; machinery.

AVERAGE HOURS WORKED PER WEEK (1) Class I railroad employees, unskilled.

PAYROLLS, FACTORY (3) Boots and shoes; lumber and products; iron and steel products.

PRICES, WHOLESALE (1) Douglas fir lumber.

BUSINESS PROFITS (2) All corporations; mining corporations.

BUSINESS ACTIVITY INDEXES (2) Annalist; AT&T, adjusted for trend.

#### SERIES THAT LAG AT PEAKS AND TROUGHS (30)

1

RETAIL SALES (1) Sales per store, 3 restaurant chains.

IMPORTS (1) Coffee (inverted).

INVENTORIES (1) Cotton, at mills.

PAYROLLS, FACTORY (4) Total; food products; baking; glass.

PRICES, WHOLESALE (4) Fuel and lighting; bleached muslin; ginghams; building materials.

NATIONAL BANK SERIES (8)

Lawful money holdings, central reserve cities (inverted);\* ratio, loans and discounts to individual deposits, total;\* same, New York City;\* same, reserve cities other than central;\* ratio, loans and discounts to net deposits, total;\* same, New York City;\* same, central reserve cities;\* same, reserve cities other than central.\*

OTHER MONETARY SERIES (1) Currency in public circulation.

INTEREST RATES AND BOND YIELDS (7)

Ninety-day time money rates; commercial paper rates; bond yields, 60 high grade; same, 15 industrial; same, 15 public utility; same, railroad; same, municipal.

STOCK EXCHANGE TRANSACTIONS (1) Bond sales, New York Stock Exchange (inverted).

SECURITY ISSUES, CORPORATE (1) Short term bonds and notes, American and Canadian corporations.

UNCLASSIFIED (1) Magazine advertising, lineage.