

UNITED STATES  
DEPARTMENT OF COMMERCE  
WASHINGTON

---

SURVEY OF  
CURRENT BUSINESS

JUNE, 1930

No. 106



ISSUED BY  
BUREAU OF THE CENSUS

---

**IMPORTANT NOTICE**

*In addition to figures given from Government sources, there are also incorporated for completeness of service figures from other sources generally accepted by the trades, the authority and responsibility for which are noted in the "Sources of Data" on pages 139-142 of the February, 1930, semiannual issue*

## INTRODUCTION

The SURVEY OF CURRENT BUSINESS is designed to present each month a picture of the business situation by setting forth the principal facts regarding the various lines of trade and industry. The figures reported are very largely those already in existence. The chief function of the department is to bring together these data which, if available at all, are scattered in hundreds of different publications. A portion of these data are collected by Government departments, other figures are compiled by technical journals, and still others are reported by trade associations.

At semiannual intervals detailed tables are published giving, for each item, monthly figures for the past two years and yearly comparisons, where available, back to 1913; also blank lines sufficient for six months have been left at the bottom of each table, enabling those who care to do so to enter new figures as soon as they appear (see February, 1930 issue). In the intervening months the more important comparisons only are given in the table entitled "Trend of business movements."

### WEEKLY SUPPLEMENT

Realizing that current statistics are highly perishable and that to be of use they must reach the business man at the earliest possible moment, the department has arranged to distribute supplements every week to subscribers in the United States. The supplements are usually mailed on Saturdays and give such information as has been received during the week ending on the preceding Tuesday. The monthly information contained in these bulletins is republished in the SURVEY, and the supplements also contain charts and tables of weekly data.

### RELATIVE AND INDEX NUMBERS

To facilitate comparison between different important items and to chart series expressed in different units, relative numbers (often called "index numbers," a term referring more particularly to a special kind of number described below) have been calculated. The monthly average for 1923-1925 has usually been used as a base equal to 100.

The relative numbers are computed by allowing the monthly average for the base year or period to equal 100. If the movement for a current month is greater than the base, the relative number will be greater than 100, and vice versa. The difference between 100 and the relative number will give at once the per cent increase or decrease compared with the base period. Thus a relative number of 115 means an increase of 15 per cent over the base period, while a relative number of 80 means a decrease of 20 per cent from the base.

Relative numbers may also be used to calculate the approximate percentage increase or decrease in a movement from one period to the next. Thus, if a relative number at one month is 120 and for a later month it is 144 there has been an increase of 20 per cent.

When two or more series of relative numbers are combined by a system of weightings, the resulting series is denominated an index number. The index number, by combining many relative numbers is designed to show the trend of an entire group of

industries or for the country as a whole, instead of for the single commodity or industry which the relative number covers. Comparisons with the base year or with other periods are made in the same manner as in the case of relative numbers.

### RATIO CHARTS

In most instances the charts used in the SURVEY OF CURRENT BUSINESS are of the type termed "Ratio Charts" (logarithmic scale), notably the Business Indicator charts on page 2. These charts show the percentage increase and allow direct comparisons between the slope of one curve and that of any other curve regardless of its location on the diagram; that is, a 10 per cent increase in an item is given the same vertical movement whether its curve is near the bottom or near the top of the chart. The difference between this and the ordinary arithmetic form of chart can be made clear by an example. If a certain item having a relative number of 400 in one month increases 10 per cent in the following month, its relative number will be 440, and on an ordinary chart would be plotted 40 equidistant scale points higher than the preceding months. Another movement with a relative number of, say, 50 also increases 10 per cent, making its relative number 55. On the ordinary (arithmetic) scale this item would rise only 5 equidistant points, whereas the previous item rose 40 points, yet each showed the same percentage increase. The ratio charts avoid difficulty and give to each of the two movements exactly the same vertical rise, and hence the slopes of the two lines are directly comparable. The ratio charts compare percentage changes, while the arithmetic charts compare absolute changes.

### RECORD BOOK

As an aid to readers in comparing present data with monthly statistics in previous years, the department is compiling a Record Book of Business Statistics, in which data now carried in the SURVEY OF CURRENT BUSINESS are shown by months as far back as 1909, if available. Full descriptions of the figures and reports of how the data are used in actual practice by business firms are contained in the Record Book. The sections covering textiles, metals, and fuels, automobiles, and rubber have already been issued and may be obtained for 10 cents per copy from the Superintendent of Documents, Government Printing Office, Washington, D. C. (Do not send stamps.) Notices of other sections will be given in the SURVEY as they are issued.

### METHODS OF USE

Methods of using and interpreting current business statistics have been collected by the department from many business concerns and are described in a booklet entitled "How to Use Current Business Statistics," together with methods of collecting statistics. This booklet may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 15 cents per copy. (Do not send stamps.)

*This issue presents practically complete data for the month of April and contains text covering the early weeks of May (page 1), for which the basic figures in table and chart form are presented regularly in the weekly supplements. As most data covering a particular month's business are not available until from 15 to 30 days after the close of the month, a complete picture of that month's operations can not be presented at an early date, but the weekly supplements give every week the latest data available.*



# SURVEY OF CURRENT BUSINESS



PUBLISHED BY

UNITED STATES DEPARTMENT OF COMMERCE

Subscription price of the SURVEY OF CURRENT BUSINESS is \$1.50 a year; single copies (monthly), 10 cents, semiannual issue, 25 cents. Foreign subscriptions, \$2.25, single copies (monthly issues), including postage, 14 cents; semiannual issues, 36 cents. Subscription price of COMMERCE REPORTS is \$4 a year; with the SURVEY, \$5.50 a year. Make remittances only to Superintendent of Documents, Washington, D. C., by postal money order, express order, or New York draft. Currency at sender's risk. Postage stamps or foreign money not accepted

No. 106

WASHINGTON

June, 1930

## CONTENTS

SUMMARIES		INDEX BY SUBJECTS	
	Page	Text page	Table page
Preliminary summary for May.....	1	9	23-24
Monthly business indicators:		10	25-27
Ratio charts.....	2	11	27, 29
Yearly averages, 1923-1929; monthly averages, 1929-1930 (table).....	3	11	28-30
Business conditions in April.....	4	11	31, 32
Indexes of business.....	15	12	32
DETAILED TABLES		12	33, 34
Sales of the Great Atlantic and Pacific Tea Co.....	18	12	34, 35
Rate of manufacturing operations:		--	35-37
By divisions.....	18	13	37-40
By industries.....	19	14	40-42
Debits to individual accounts at clearing house centers:		5	43, 44
By Federal Reserve districts.....	20	14	44, 45
District totals—seasonal variation eliminated.....	22	14	45-48
		14	48

### PRELIMINARY SUMMARY FOR MAY

Business in May, as seen from figures covering check payments, for the first four weeks, was lower than the corresponding period of 1929. The distribution of commodities through primary channels as reflected by data on car loadings was also lower than in May a year ago.

Activity in steel plants, though showing slight change from April, was on a lower plane than in May, 1929. The production of bituminous coal, while showing a slight gain over April, was lower than for the corresponding period last year. Factory employment in Detroit, reflecting the automobile industry, showed an improvement over the previous month, but was substantially lower than a year ago. The output of crude petroleum was slightly larger than during the preceding month but lower than a year ago. The value of new building contracts awarded during May was larger than during the previous month but was 6 per cent less than during May, 1929.

The general index of wholesale prices was lower than for either the previous month or for May, 1929.

Prices for wheat declined continuously during the month, except for a slight recovery during the last week and were lower than during the corresponding month of last year. Cotton prices were slightly higher than the previous month but materially below the same period a year ago. The prices for iron and steel showed declines from both the month of April and May, 1929.

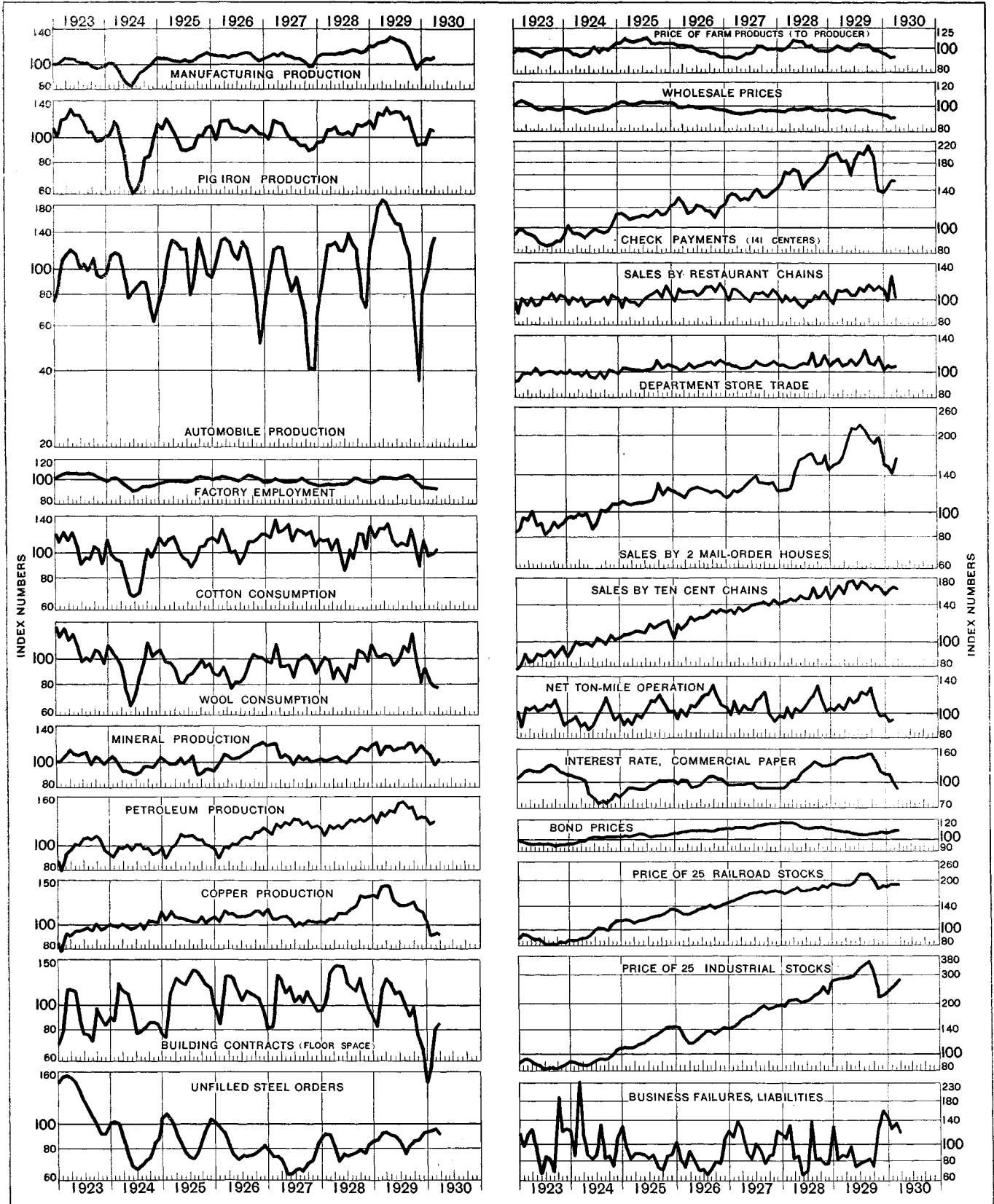
Bank loans and discounts showed little change from the previous month and were slightly larger than a year ago. Interest rates were lower than during either the previous month or the corresponding period a year ago. Brokers loans at the end of May were less than at the end of April or May, a year ago. Prices for stocks averaged lower than during April or May, 1929.

Bond prices were lower than the previous month but showed a gain over the same period of 1929. Business failures were somewhat fewer than in the previous month but more numerous than a year ago. Liabilities of failing firms were smaller than the month of April but higher than a year ago.



# MONTHLY BUSINESS INDICATORS, 1923-1930

[Ratio charts—see explanations on inside front cover. The curves on check payments, wholesale trade, 10-cent chains, and department stores have been adjusted for normal seasonal variations, and manufacturing production for the varying number of working days in the month as well. 1923-1925 monthly average=100]





## MONTHLY BUSINESS INDICATORS

The principal business indicators are shown below, all calculated on a comparable basis, the average for the years 1923 to 1925, inclusive. Thus the table gives a bird's-eye view of the business situation in a concise form, so that trends of the principal indicators may be seen at a glance.

Certain indicators, in which there is a marked seasonal movement, are shown with the average seasonal variations eliminated, as noted below. In this manner a more understanding month-to-month comparison may be made.

ITEM	MONTHLY AVERAGE								1929						1930					
	1923	1924	1925	1926	1927	1928	1929	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	1923-1925 monthly average=100																			
<b>Industrial production:</b>																				
* Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	123.0	124.0	128.0	125.0	124.0	122.0	117.0	105.0	96.0	102.0	106.0	105.0	106.0
* Total minerals.....	105.0	96.0	99.0	107.0	107.0	106.0	115.0	115.0	116.0	112.0	114.0	115.0	118.0	118.0	110.0	116.0	112.0	108.0	96.0	103.0
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	122.6	130.5	124.4	126.7	125.7	117.1	120.1	106.5	94.9	94.0	95.0	108.6	106.5
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.6	142.8	152.5	141.2	139.9	142.5	130.5	130.5	101.6	83.8	109.5	117.7	124.1	119.8
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	188.1	182.9	165.1	151.5	150.8	125.8	114.9	65.8	36.3	83.3	105.0	121.4	133.9
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	110.6	129.9	135.2	139.3	149.5	138.6	134.6	113.1	90.2	68.4	65.7	90.3	108.8
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	123.1	130.3	111.1	106.6	108.7	106.3	124.9	106.0	88.4	112.5	96.5	99.1	103.7
Wool (consumption).....	112.8	94.6	92.6	86.7	97.0	94.7	103.1	103.8	102.9	93.0	99.8	111.1	105.0	125.3	98.5	79.8	92.1	80.9	78.5	77.7
<b>Raw material output:</b>																				
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	99.7	108.9	111.8	116.0	100.0	98.7	102.6	95.2	93.0	94.7	83.8	97.6	100.3
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	57.4	51.1	56.3	91.1	134.5	177.1	246.3	154.6	139.2	78.7	62.6	55.6	53.0
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	90.2	98.6	89.9	88.3	91.8	80.3	89.2	82.0	69.6	63.3	66.5	73.3	81.4
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	130.5	137.5	135.9	148.8	150.3	142.2	143.5	127.3	130.9	129.4	121.2	126.1	125.7
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	100.5	84.7	92.2	87.4	93.3	100.7	102.2	117.6	104.9	107.5	114.3	90.8	82.1	82.3
Copper.....	93.4	100.2	103.4	110.2	104.9	114.9	127.1	143.9	141.6	124.9	120.1	119.6	120.4	125.2	115.1	113.4	102.9	89.8	92.8	91.5
<b>Power and construction:</b>																				
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.7	157.1	161.2	154.9	159.8	166.6	160.7	173.6	164.4	169.8	172.5	151.9	162.9	158.7
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	128.0	122.4	109.7	113.7	100.6	90.2	98.9	76.9	66.3	49.6	57.6	81.1	85.3
<b>Unfilled orders:</b>																				
General index.....	121.7	87.0	91.3	84.6	74.0	76.2	80.8	93.1	88.4	83.4	82.1	76.0	76.8	76.8	73.7	77.7	80.2	79.4	81.7	78.3
U. S. Steel Corporation.....	126.8	83.6	90.6	82.1	71.1	80.7	87.1	92.7	90.1	89.2	85.6	76.6	81.7	85.6	86.4	92.5	93.6	93.8	95.7	91.2
<b>Stocks:</b>																				
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	129.9	122.8	120.2	121.8	127.2	139.2	154.8	156.5	158.0	150.8	147.3	141.8	136.1
Manfd. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	121.5	120.4	121.1	120.3	115.7	113.8	113.9	115.6	118.9	121.5	124.9	125.2	127.6
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	109.9	88.4	70.9	54.2	58.2	106.8	177.5	199.8	206.4	192.5	177.4	158.3	141.1
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	50.8	62.2	73.4	86.3	92.2	83.7	78.1	111.7	151.3	179.7	205.9	226.2	266.2
<b>Employment:</b>																				
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	101.8	101.6	101.2	100.7	102.0	103.4	102.1	98.2	94.8	92.9	92.9	92.7	92.1
<b>Prices:</b>																				
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	100.0	98.6	97.8	101.4	103.6	102.2	101.4	98.6	97.8	97.1	94.9	91.3	92.0
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	96.1	95.1	95.7	97.3	97.0	96.8	95.6	93.7	93.5	92.8	91.5	90.2	90.1
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	101.3	102.4	103.4	105.9	107.0	107.4	107.2	106.7	105.6	103.8	102.2	100.3	102.9
Cost of living (including food).....	98.2	96.4	102.4	102.4	100.0	98.7	98.4	97.0	97.0	97.6	98.8	99.4	99.4	99.4	99.3	98.7	97.4	96.8	95.6	96.2
<b>Distribution (values):</b>																				
* Bank debits, 141 cities.....	91.2	96.7	111.6	119.6	132.5	158.2	184.5	180.6	180.5	159.0	184.8	198.2	192.8	211.1	190.0	139.8	136.7	144.4	153.4	152.1
* Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	105.0	107.0	112.0	106.0	112.0	123.0	109.0	107.0	115.0	102.0	106.0	104.0	106.0
* Mail-order sales, 2 houses.....	89.3	97.2	111.9	120.6	126.2	147.7	188.6	169.1	194.8	215.1	211.2	223.3	212.1	194.7	166.0	199.9	154.7	149.6	140.7	164.0
* 10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	153.0	172.0	174.0	162.0	174.0	168.0	159.0	166.0	165.0	152.0	162.0	164.0	161.0
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	121.1	121.0	109.3	109.1	110.0	114.5	133.5	122.0	153.3	120.9	111.3	121.8	122.3
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	127.1	123.9	109.4	109.6	114.3	108.8	121.1	104.8	96.1	96.3	87.2	93.0	95.4
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	115.2	112.2	101.4	103.6	106.2	100.4	115.3	139.6	116.5	112.4	108.3	91.9	97.4	88.0
<b>Transportation:</b>																				
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	102.7	112.6	109.1	112.5	120.4	118.5	128.1	103.8	96.6	98.3	92.0	94.6	-----
<b>Finance:</b>																				
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	131.3	129.3	135.1	136.2	135.3	139.1	151.1	141.3	140.9	133.1	131.1	135.0	135.4
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	139.2	139.2	139.2	142.2	142.2	145.0	145.0	133.4	116.0	113.2	110.2	98.6	90.0
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	94.9	96.5	94.4	96.4	97.7	94.2	89.9	93.0	90.2	101.4	102.1	103.4	106.9
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	107.6	106.7	105.4	104.9	104.1	103.9	105.2	105.0	107.1	106.8	107.0	109.3	109.2
Price, railroad stocks.....	86.0	91.6	117.9	133.4	162.7	174.5	194.3	183.7	184.4	192.1	213.4	216.3	217.7	203.5	176.2	181.4	180.6	188.6	188.1	187.6
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	285.8	290.3	297.8	330.8	344.5	358.5	316.3	219.4	229.3	235.5	251.9	262.2	279.2
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	83.2	97.2	74.0	76.5	79.6	80.5	73.9	122.8	159.1	144.3	121.1	134.1	115.7

\* Seasonal adjustments

## BUSINESS CONDITIONS IN APRIL

### PRODUCTION

Manufacturing output in April, according to the weighted index of the Federal Reserve Board using adjustments for seasonal variations, was on a higher level than the previous month but showed a decline from a year ago. Gains in the production of iron and steel, food products, leather and shoes, nonferrous metals, rubber tires, and tobacco products more than offset declines in the production of textiles and cement, while the production of automobiles showed no change. As compared with April, 1929, all the groups except leather and shoes and petroleum refining showed a

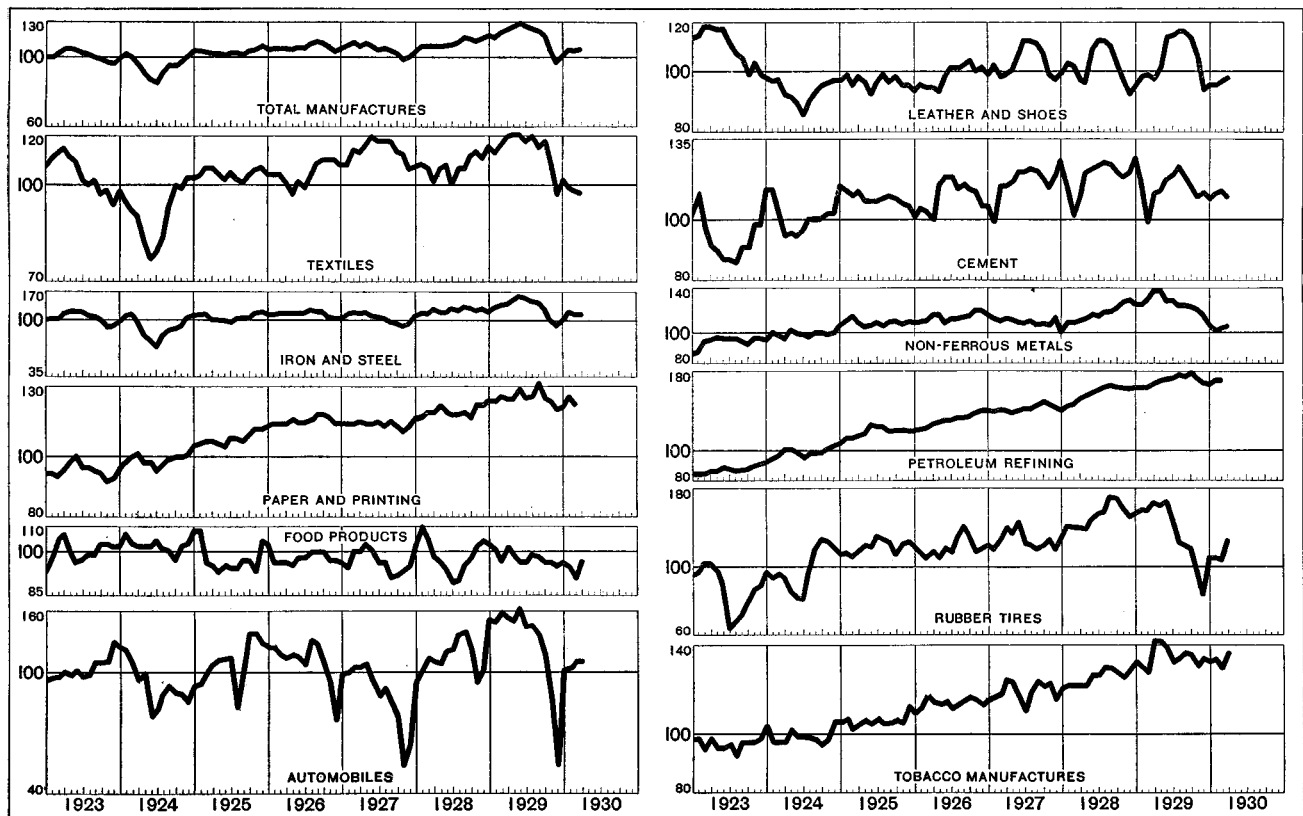
pared with the months of March and April, 1929, declines in unfilled orders occurred in textiles, iron and steel, transportation equipment, and lumber. Contrasted with a year ago unfilled orders for transportation equipment showed but slight changes, while other lines registered declines.

### WHOLESALE TRADE

Wholesale trade in April was slightly less than during April, 1919, declines occurring in the sales of dry goods and hardware, while the sales of groceries and drugs showed no change. For the period of Jan-

### MANUFACTURING PRODUCTION BY MAJOR GROUPS

[Relative numbers, monthly average 1923-1925 taken as 100, adjusted for seasonal variations]



decline in output. Mineral production, after adjustments for seasonal variations, was higher than in March, but was lower than in the corresponding period, a year ago.

### COMMODITY STOCKS

Stocks of commodities held at the end of April, while showing a decline from the month of March, were greater than those held at the end of April, 1929. Stocks of finished goods in the hands of manufacturers showed gains over the preceding month and the same period a year ago.

### SALES

The general index of unfilled orders was lower than the preceding month and April a year ago. As com-

pared with the months of March and April, 1929, declines in unfilled orders occurred in textiles, iron and steel, transportation equipment, and lumber. Contrasted with a year ago unfilled orders for transportation equipment showed but slight changes, while other lines registered declines.

Wholesale trade in April was slightly less than during April, 1919, declines occurring in the sales of dry goods and hardware, while the sales of groceries and drugs showed no change. For the period of Jan-

### IMPORTS AND EXPORTS

Imports of merchandise into the United States during April were greater than in March but considerably less than during the same period in 1929. Exports, however, showed losses when compared with the month of March and the corresponding period in 1929.

## PRICES

The general index of wholesale prices showed only a slight change from the month of March and was 6 per cent lower than April, 1929. Almost all groups included in the index showed declines from a year ago. In comparison with the month of March the following groups registered declines, hides and leather products, textile products, metals and metal products, building materials, and chemicals and drugs. On the other hand, increases were noted in the prices of foods, fuel and lighting materials, and miscellaneous items, while the prices of house-furnishing goods showed no change.

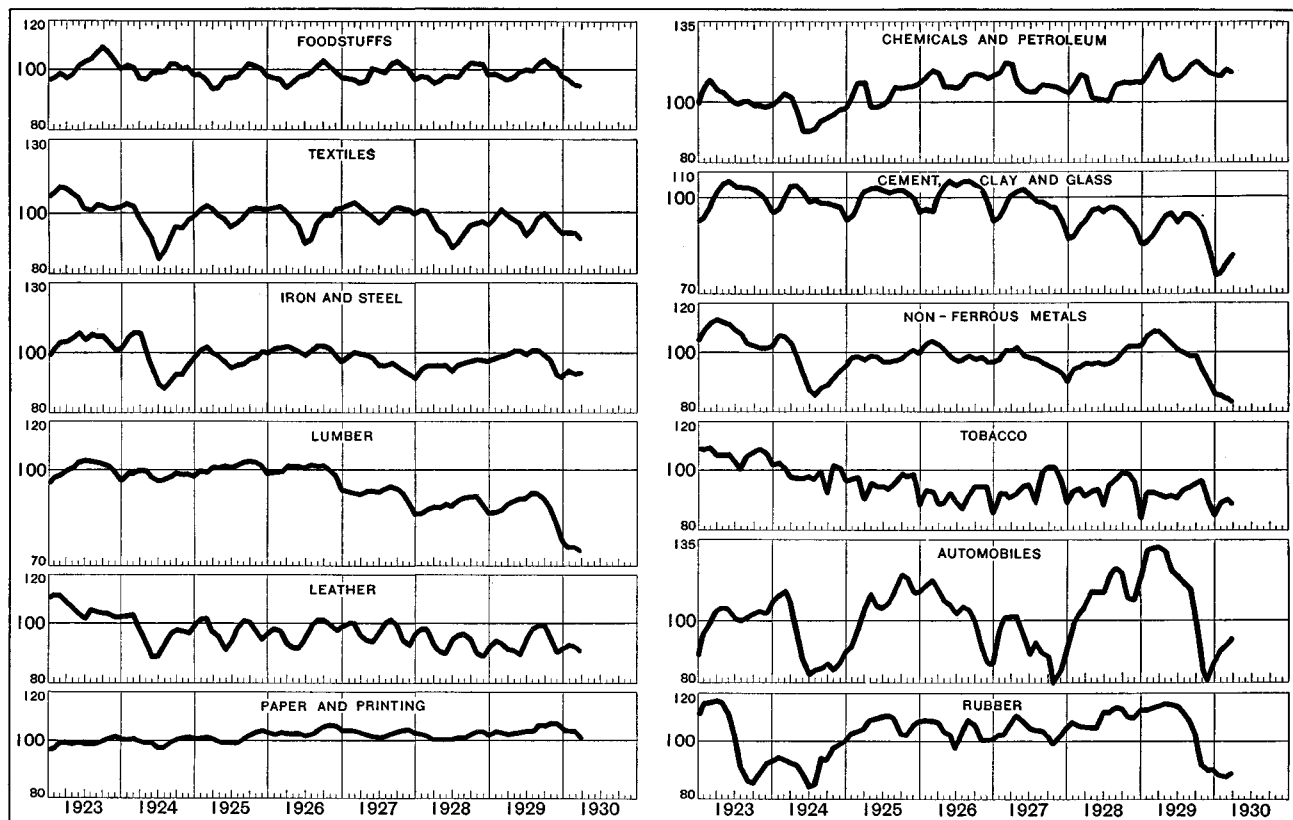
Classified by condition of manufacture, the index showed a decrease of 7 per cent in raw materials, 10

## EMPLOYMENT

Factory employment in April, as measured by the Index of Employment compiled by the Federal Reserve Board, was 1 per cent less than the previous month and was 10 per cent lower than in April, 1929. As compared with the previous month, increases in employment in factories producing iron and steel, automobiles, cement, clay and glass, rubber products, more than offset declines in those producing machinery, textiles, foodstuffs, paper and its products, lumber, leather products, nonferrous metals, chemicals, and tobacco products. Compared with April a year ago, all lines showed losses in employment with the exception of the paper and printing groups

## FACTORY EMPLOYMENT, BY GROUPS

[1926 monthly average=100. April, 1930, is latest month plotted]



per cent in semimanufactured commodities, 6 per cent in finished products, and 6 per cent in nonagricultural commodities.

Prices paid to farmers during April for their products, as shown in the general index, were higher than during the month of March and 11 per cent below what they were in April, 1929. Compared with a year ago, gains in prices paid for fruits and vegetables were more than offset by declines in each of the other groups. As compared with the month of March, gains were noted in the prices of grains, fruits and vegetables, dairy and poultry products, cotton and cottonseed.

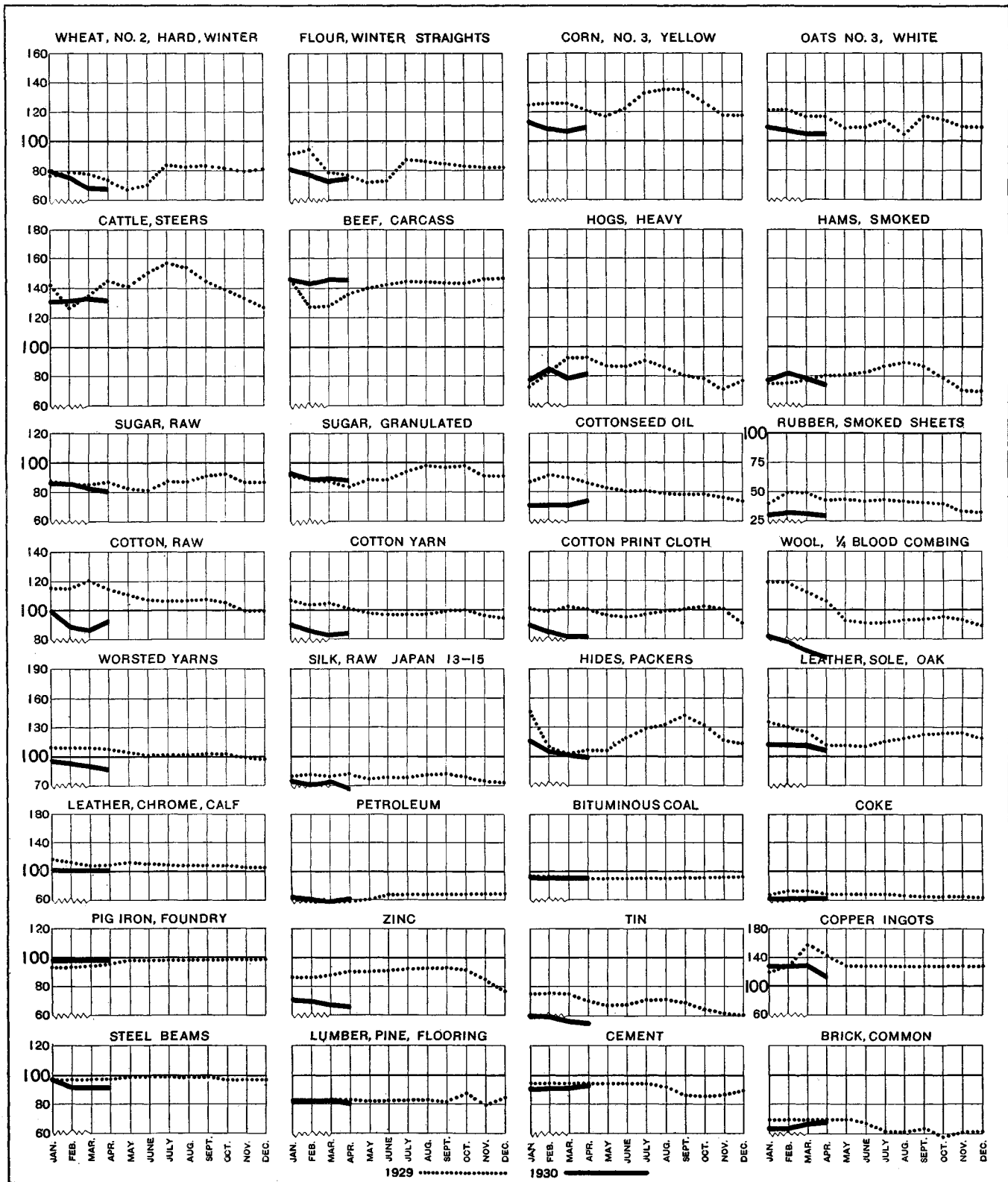
and petroleum refining, declines occurring in employment in the production of machinery, automobiles, cement, clay and glass, nonferrous metals, and rubber products.

Factory pay rolls in April showed only a slight change from March, but were 13 per cent less than a year ago. Declines from the previous month in wage payments were shown in factories producing machinery, textiles, paper and printing, lumber, leather, nonferrous metals, petroleum and tobacco products, but these were offset by increases recorded in factories producing iron and steel, automobiles, cement, clay and glass, and rubber products.



## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

[Relative numbers, 1926 monthly average taken as 100. April, 1930, is latest month plotted. Data from which these charts are drawn are given on the opposite page.]



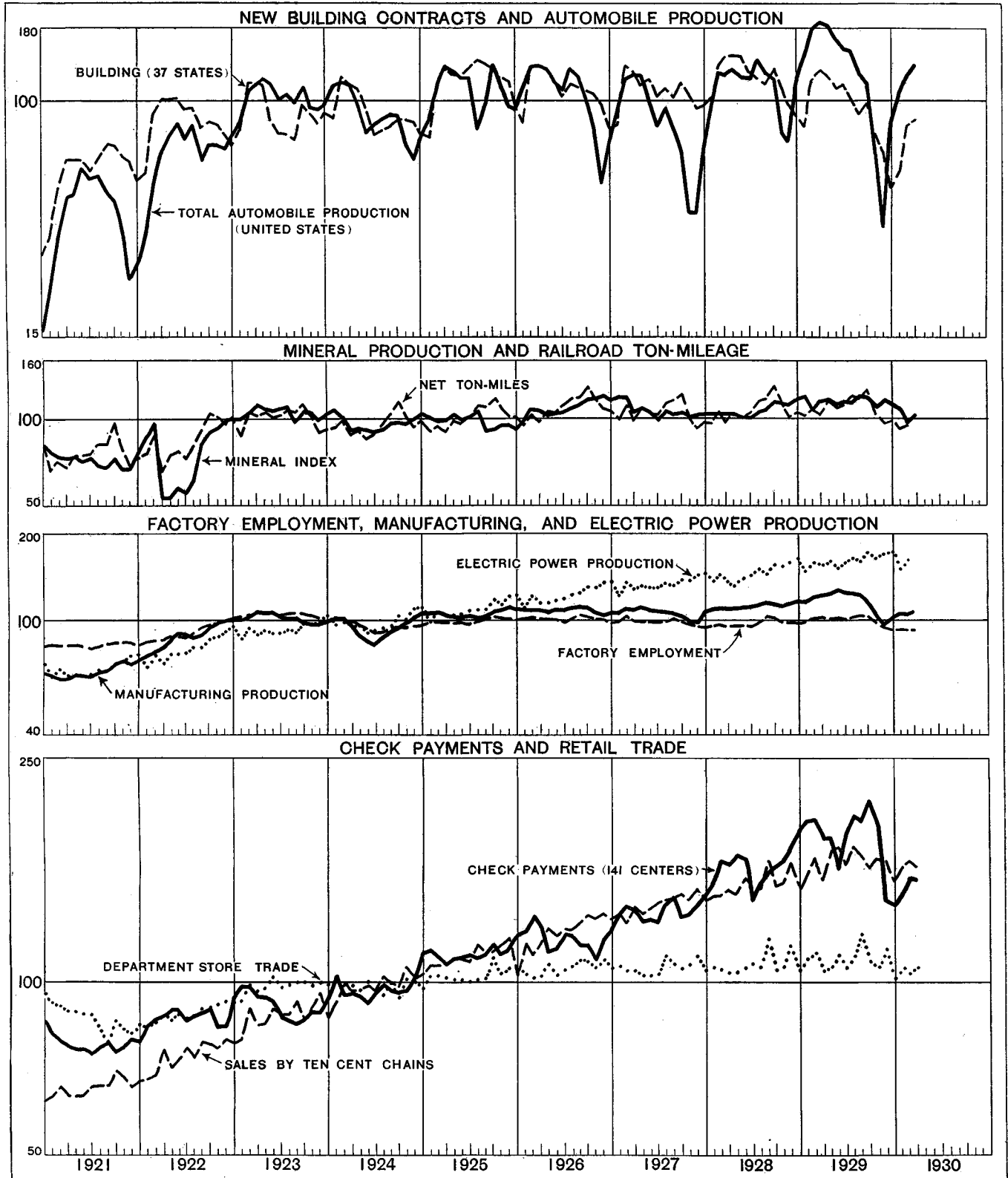
## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

NOTE.—Prices to producer on farm products and market price of wool and grain prices are from U. S. Department of Agriculture, Bureau of Agriculture Economics; nonferrous metals from the Engineering and Mining Journal-Press, except tin, which is from the American Metal Market. All other prices are from U. S. Department of Labor, Bureau of Labor Statistics. So far as possible all quotations represent prices to producer or at mill.

COMMODITIES	Unit	ACTUAL PRICE (dollars)			RELATIVE PRICE					
		March, 1930	April, 1930	April, 1929	1926 average=100					
					Febru- ary, 1930	March, 1930	April, 1930	March, 1929	April, 1929	
<b>FARM PRODUCTS—AVERAGE PRICE TO PRODUCER</b>										
Wheat.....	Bushel.....	0.919	0.934	0.998	75	68	69	78	74	
Corn.....	Bushel.....	.745	.783	.875	111	107	112	127	125	
Potatoes.....	Bushel.....	1.367	1.461	.553	75	74	79	31	30	
Cotton.....	Pound.....	.138	.147	.185	98	91	97	125	123	
Cottonseed.....	Ton.....	28.63	29.74	38.94	106	105	109	145	143	
Cattle, beef.....	Pound.....	.0877	.0865	.0853	134	136	134	142	148	
Hogs.....	Pound.....	.0957	.0917	.1020	80	81	78	85	86	
Lambs.....	Pound.....	.0963	.0902	.1336	90	83	78	113	116	
<b>FARM PRODUCTS—MARKET PRICE</b>										
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	1.12	1.11	1.20	79	71	70	79	76	
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	1.18	1.17	1.25	79	76	76	87	81	
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	1.02	1.01	1.10	78	69	68	78	74	
Corn, No. 3, yellow (Chicago).....	Bushel.....	.80	.82	.90	109	107	109	125	120	
Oats, No. 3, white (Chicago).....	Bushel.....	.43	.43	.48	107	105	105	117	117	
Barley, No. 2 (Minneapolis).....	Bushel.....	.55	.56	.65	89	86	88	105	102	
Rye, No. 2 (Minneapolis).....	Bushel.....	.66	.68	.89	85	72	74	109	97	
Cotton, middling upland (New York).....	Pound.....	.151	.163	.201	90	86	93	121	115	
Wool, 3/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.33	.31	.49	78	72	67	113	107	
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	12.800	12.563	13.875	132	134	132	135	146	
Hogs, heavy (Chicago).....	Cwt.....	9.825	9.975	11.460	84	80	81	92	93	
Sheep, ewes (Chicago).....	Cwt.....	5.135	5.125	9.175	79	78	78	128	139	
Sheep, lambs (Chicago).....	Cwt.....	9.730	8.938	16.450	76	71	65	118	120	
<b>FOOD</b>										
Flour, standard patents (Minneapolis).....	Barrel.....	6.231	6.090	6.405	76	74	72	79	76	
Flour, winter straights (Kansas City).....	Barrel.....	5.260	5.400	5.581	78	73	75	79	77	
Sugar, 96° centrifugal (New York).....	Pound.....	.036	.035	.037	86	82	80	85	84	
Sugar, granulated, in barrels (New York).....	Pound.....	.049	.048	.048	90	89	88	88	88	
Cottonseed oil, prime yellow (New York).....	Pound.....	.084	.087	.102	71	71	74	90	86	
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.240	.239	.224	144	146	145	129	136	
Beef, fresh, carcass, steers (New York).....	Pound.....	.215	.220	.225	130	126	129	127	132	
Pork, smoked hams (Chicago).....	Pound.....	.243	.229	.248	82	79	74	77	81	
Butter, creamery, 92 score (New York).....	Pound.....	.37	.39	.45	80	82	87	107	100	
Oleomargarine, standard, uncolored (Chicago).....	Pound.....	.235	.235	.235	103	103	103	103	103	
<b>TEXTILES</b>										
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound.....	.297	.302	.363	87	83	84	105	101	
Cotton-print cloth 64 x 60-38 1/2"-5.35-yards to pound.....	Yard.....	.062	.061	.076	86	82	81	102	100	
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.078	.076	.089	85	84	82	96	96	
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.300	1.250	1.550	94	91	87	110	108	
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.928	.900	.975	94	90	87	94	94	
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.756	1.756	2.008	90	88	88	100	100	
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.843	1.843	1.959	90	85	85	90	90	
Silk, Japan, 13-15.....	Pound.....	4.531	4.186	5.145	72	73	68	81	83	
Hosiery, women's pure silk, mill.....	Dozen pair.....	8.500	8.500	9.500	78	73	73	82	82	
<b>LEATHER</b>										
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.142	.140	.149	106	101	100	103	107	
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.156	.159	.187	95	90	91	105	108	
Leather, chrome calf, dull or bright "B" grades (Boston).....	Square foot.....	.460	.460	.495	102	102	102	108	109	
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.490	.470	.490	112	112	107	126	112	
Boots and shoes, men's black calf, blucher (Massachusetts).....	Pair.....	6.750	6.750	6.750	106	106	106	106	106	
Boots and shoes, men's dress welt tan calf oxford (St. Louis).....	Pair.....	4.850	4.850	4.850	100	100	100	100	100	
<b>FUEL</b>										
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.911	3.901	3.912	92	91	90	93	91	
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.292	4.083	4.113	93	90	85	92	86	
Coal, anthracite, chestnut (composite price).....	Long ton.....	13.033	12.887	12.654	95	95	94	95	92	
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton.....	2.600	2.600	2.810	63	63	63	73	68	
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.110	1.163	1.110	63	59	62	59	59	
<b>METALS</b>										
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	20.260	20.260	19.760	98	98	98	95	96	
Pig iron, basic, valley furnace.....	Long ton.....	18.500	18.500	17.900	100	100	100	94	97	
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	33.000	33.000	34.800	94	94	94	97	99	
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1778	.1562	.1950	129	129	113	154	141	
Brass, sheets, mill.....	Pound.....	.233	.218	.244	122	122	115	132	128	
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0566	.0543	.0719	74	67	65	89	85	
Tin, straits (New York).....	Pound.....	.3681	.3607	.4597	59	56	55	75	70	
Zinc, slab, western (St. Louis).....	Pound.....	.0493	.0484	.0666	71	67	66	88	91	
<b>BUILDING MATERIAL AND MISCELLANEOUS</b>										
Lumber, pine, southern, yellow flooring; mill.....	M feet.....	37.200	36.390	37.350	83	83	81	83	83	
Brick, common red, domestic building (New York).....	Thousand.....	11.000	11.250	11.500	64	67	68	70	70	
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.617	1.617	1.650	93	93	93	95	95	
Steel beams, mill (Pittsburgh).....	Cwt.....	1.800	1.800	1.900	92	92	92	97	97	
Rubber, smoked sheets (New York).....	Pound.....	.153	.150	.211	33	32	31	50	44	
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15.500	15.500	107	107	107	107	107	
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3.250	3.250	94	94	94	94	94	

# MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

[Relative numbers, monthly average 1923-1925, taken as 100]





## REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

### TEXTILES

Imports of wool during April were smaller than during March and were more than 36 per cent less than during April, 1929. Wool consumption by manufacturers was smaller than during either prior period. Prices for wool and yarns averaged lower than in either the previous month or the same month of last year.

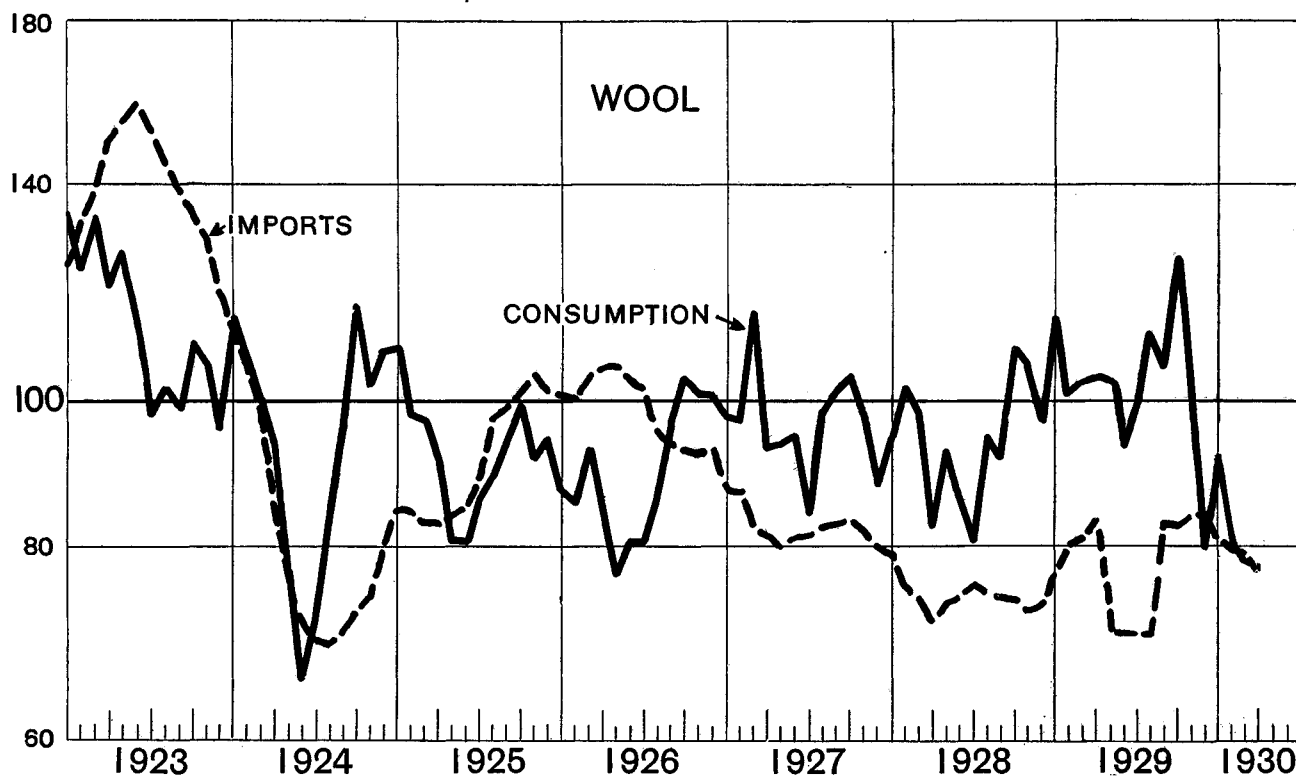
Exports of cotton during April declined seasonably from the previous month and were 22 per cent smaller

of March and 26 per cent greater than in April a year ago. Cotton finishers reported smaller billings than during March or April a year ago. New orders and shipments likewise showed declines from both periods. Stocks of finished goods in the hands of finishers, on the other hand, showed increases over the previous month and the corresponding month of last year.

Imports of raw silk during April were slightly smaller than during the previous month or the corresponding period of 1929. Silk deliveries to consuming establish-

### WOOL CONSUMPTION AND IMPORTS

[Relative numbers, monthly average 1923-1925 taken as 100. Curve covering imports of wool is plotted from 12 months' moving monthly average plotted on the end month]



than a year ago. Consumption of cotton by domestic mills showed an increase of 5 per cent over the month of March, but was 15 per cent less than during April, 1929. Stocks of cotton at mills and public warehouses at the end of April, while less than in March, were substantially greater than a year ago.

Cotton machinery showed a slight decline in activity when compared with March, and was 6 per cent less active than the month of April, 1929. The production and shipments of cotton textiles were also smaller than during the previous month or the corresponding period of last year. Stocks of cotton textiles at the end of April, on the other hand, were larger than in the month

ments were likewise smaller than during either comparative period. Stocks of silk at warehouses at the end of April were considerably greater than a year ago. The activity of broad and narrow silk looms was less than during March or April, 1929. On the other hand, the activity of silk spindles, while less than during March, was greater than a year ago.

Rayon imports during April declined from March and were 46 per cent less than a year ago. Wholesale prices at New York remained unchanged from March, but were below the level of April, 1929. Shipments of pyroxylin-coated textiles registered a gain over March, but were considerably below April, a year ago.

## METALS

The production of pig iron in April fell off slightly from March and was 13 per cent smaller than in April, 1929. Fewer furnaces were in blast than during March or April last year.

The production of steel ingots declined during April from the previous month and was 16 per cent less than the corresponding period a year ago. Unfilled orders of the United States Steel Corporation showed slight declines from March and April, 1929.

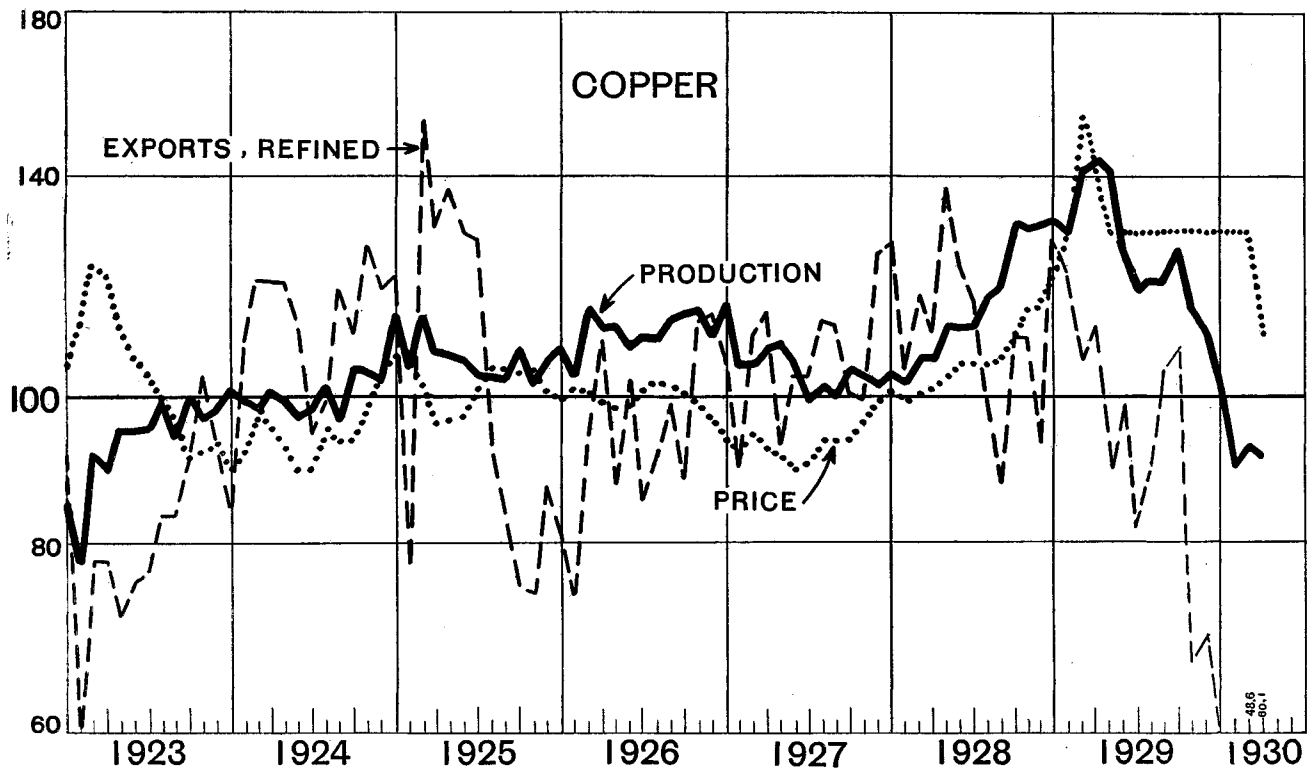
The output of steel sheets by independent mills showed an increase of 19 per cent over the preceding

other hand, registered declines from both prior periods. New orders for both steel and malleable castings were lower in April or in March of the preceding year.

New orders for fabricated steel plate were smaller in April than both comparative periods. Production of steel barrels, while less than in March, showed but a slight change when compared with a year ago. New orders for steel boilers registered a gain of 4 per cent over March, but were considerably less than a year ago. Shipments of woodworking machinery were off from March and April, 1929; new orders, while less than the preceding month, were 3 per cent more than

## COPPER PRODUCTION, EXPORTS, AND STOCKS

[Relative numbers, monthly average 1923-1925=100. April, 1930, is latest month plotted]



month but registered a decline from a year ago. The ratio of production to capacity likewise showed similar trends. Stocks of sheets in the hands of manufacturers at the end of April were greater than the preceding month or a year ago. Unfilled orders while registering an increase over March declined from the same period of last year. Wholesale prices for steel on the whole showed but slight change from March, but were below the level of April, 1929.

The production of steel castings showed but a slight loss from March and were 9 per cent below the month of April, 1929. Malleable castings output, on the

in April, last year. Shipments of electric trucks and tractors were less than during either prior period.

The mine production of copper in April showed but a slight decrease when compared with a month ago, but was materially below the corresponding period a year ago. Exports of refined copper in April were 24 per cent greater than in March, but were below the level of April, 1929. Deliveries of tin showed declines from both March of this year and April of last year. April production of both lead and zinc was less than that of both prior periods.

## FUELS

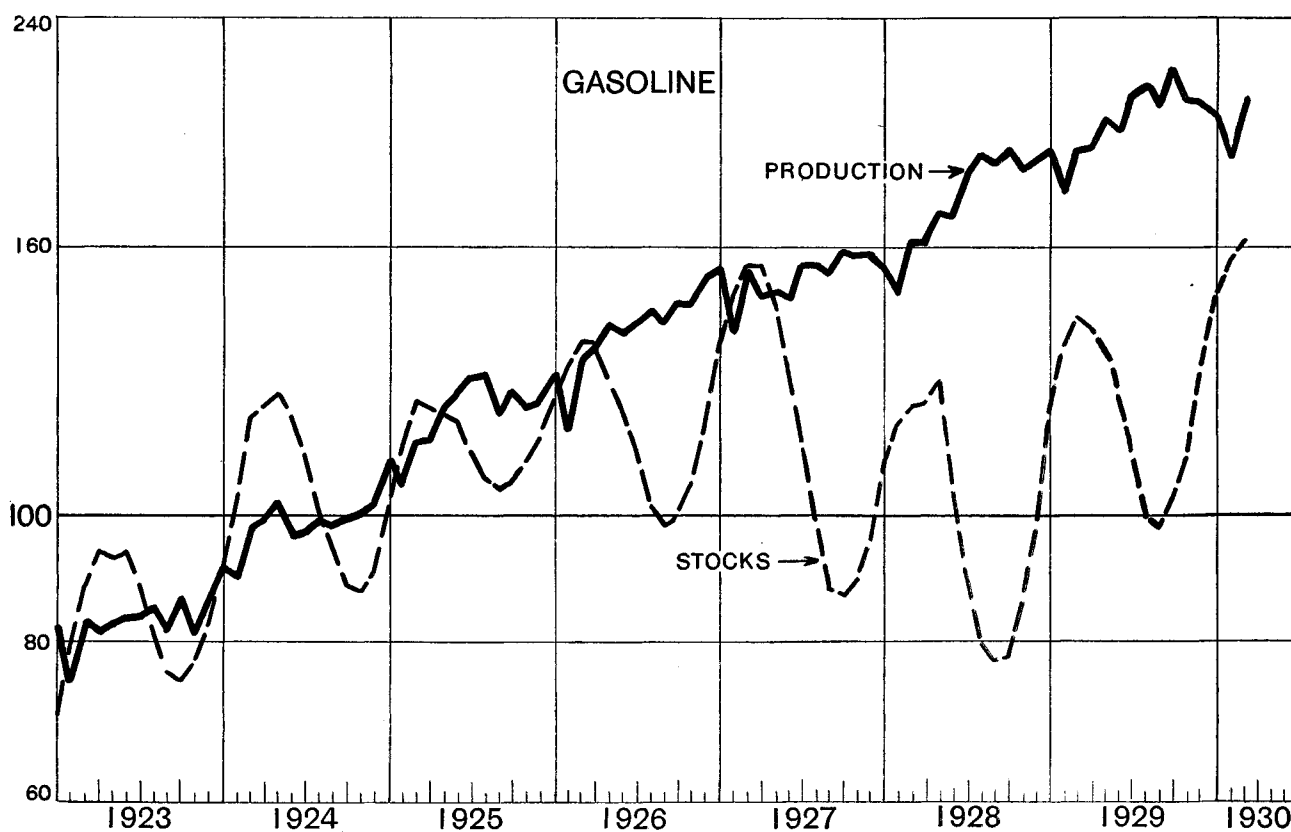
The output of bituminous coal increased seasonally over March and was 4 per cent less than in April, 1929. Anthracite coal production, on the other hand, while registering an increase of 8 per cent over the preceding month, also declined from the corresponding period a year ago. Average coal prices showed but slight change when compared with the preceding month, but were less than in April, 1929. The production of coke in April was less than during the previous month or April a year ago. The price of coke at Connellsville, while showing no change from the preceding month, was 7 per cent below the level of a year ago.

## HIDES AND LEATHER

Imports of hides and skins during April were greater than during the month of March and a year ago. Production of sole leather also was greater than for either previous periods. Exports of sole and upper leather showed declines when compared with the preceding month and with April, 1929. Wholesale prices of hides and leather were generally smaller than either comparative period. Production of shoes, reflecting the changes in style, was greater than in March and slightly less than April, 1929. The exports of shoes declined seasonally from both periods. Shoe prices during April remained unchanged from the month of March and April of last year.

## PRODUCTION AND STOCKS OF GASOLINE

[Relative numbers, monthly average 1923-1925 taken as 100. March, 1930, is latest month plotted]



## AUTOMOBILES AND RUBBER

The production of automobiles, including passenger cars, trucks, and taxicabs, showed an increase of 10 per cent over the previous month, but was 29 per cent below the level of April, 1929. The Canadian output registered similar trends in comparison with both periods, the percentage declined from last year's level being greater than in the United States. The production of tires and tubes in April, following the trend of increased automobile production, showed a gain over the month of March, but declined from a year ago.

## PAPER AND PRINTING

Imports in most cases during April were less than during March, and in every instance below the level of the corresponding period of last year. The domestic production of newsprint showed a decline from March, a year ago. The Canadian production, on the other hand, showed increases over both periods. Stocks of newsprint at the end of April were slightly larger than at the end of the previous month, but were smaller than a year ago. Stocks in Canada, however, exceeded those at either prior period. Publishers' stocks, while smaller than at the end of the preceding month, were 19 per cent greater than a year ago.



### BUILDING AND CONSTRUCTION

Building costs on the whole showed but slight change from the preceding month, but were generally lower than a year ago. The value of new-building contracts awarded in April, while greater than the month of March, registered a decline as compared with April, 1929. April contracts awarded in Canada registered large gains over both this March and April last year. Fire losses in the United States were slightly greater than during the preceding month and April, 1929. Losses by fire in Canada, while less than the month of March, exceeded those of a year ago.

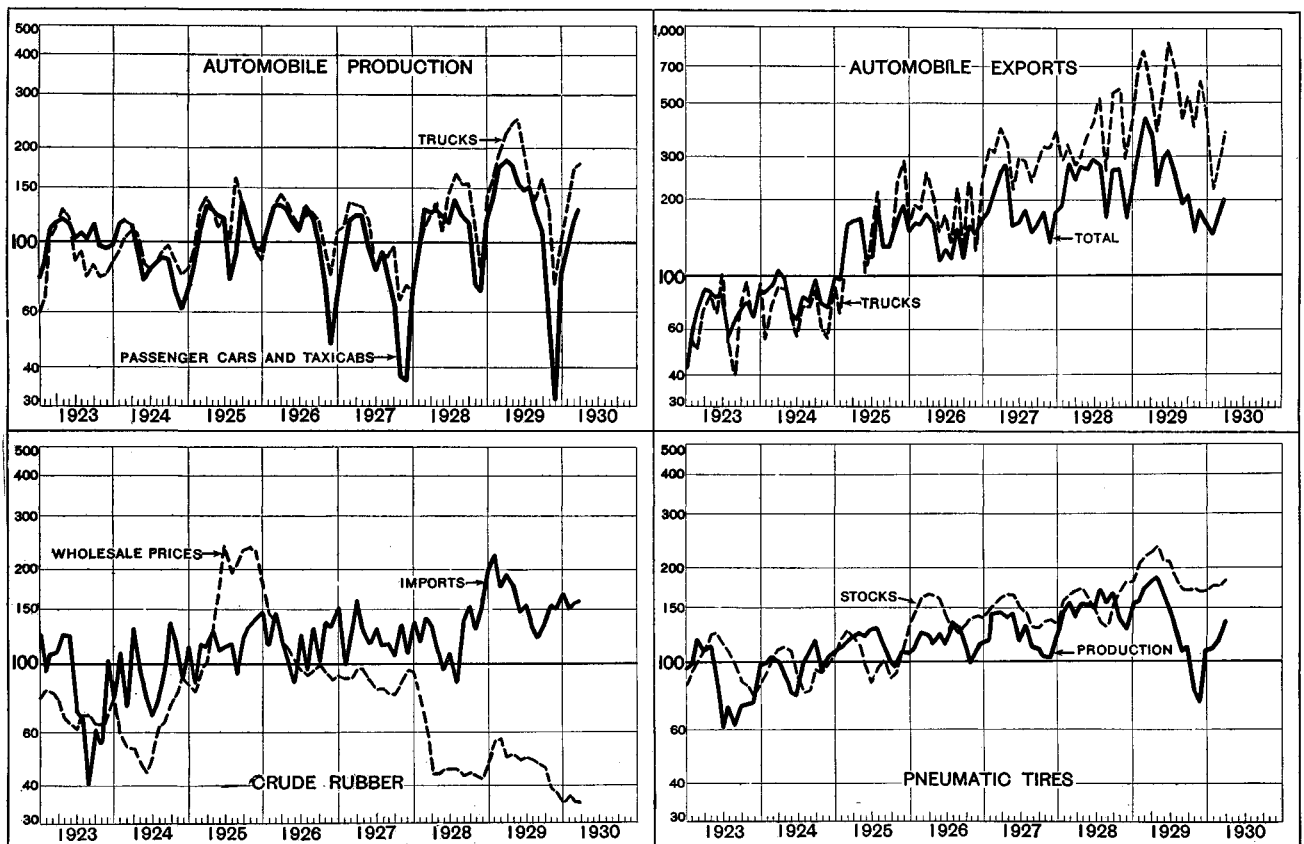
New orders for fabricated-structural steel were fewer than the preceding month or April a year ago. Shipments, on the other hand, showed increases over both periods.

### STONE, CLAY, AND GLASS

The production of cement showed an increase of 21 per cent over the output for March, but was slightly less than a year ago. Shipments during April showed gains over both comparative periods. Stocks of clinker held at the end of April, while greater than those held at the end of March, showed a decline from the same period a year ago. Shipments of common

### THE AUTOMOBILE AND RUBBER INDUSTRIES

[Relative numbers, monthly average 1923-1925 taken as 100. Where available, April, 1930, is latest month plotted]



### LUMBER AND BUILDING EQUIPMENT

The production of lumber was generally larger during April, but was less than the corresponding period in 1929. Marked increases over March were noted in the output of California redwood, California white and sugar pine, Northern pine and Walnut lumber. Shipments also were greater than during the month of March. Stocks held at the end of March, reflecting increased production, showed a marked gain in the case of California white pine, being greater than those held at the end of March and the same month of last year.

The output of maple flooring was 6 per cent greater than during the previous month, but was slightly less than the production during April, 1929.

brick were substantially larger than the previous month, but materially lower than a year ago. Prices for brick at New York showed a slight gain over March, but were lower than a year ago. The output of polished plate glass, in keeping with the gains of other items of building equipment, registered an increase over March, but was lower than a year ago.

Shipments of prepared roofing likewise recorded an increase over the preceding month, but declined from last year.

Shipments and new orders for wooden furniture during April showed declines from the preceding month and the corresponding period a year ago. Steel furniture likewise showed similar declines.

## FOODSTUFFS AND TOBACCO

The visible supply of wheat both in the United States and Canada declined seasonally from the preceding month and was much greater than a year ago. The shipments of wheat at principal markets during April showed an increase over the preceding month and April, 1929. Exports of wheat from the United States were substantially larger than in March, but were lower than a year ago. Wheat prices at various centers on the whole showed slight change from the preceding month, but were lower than last year.

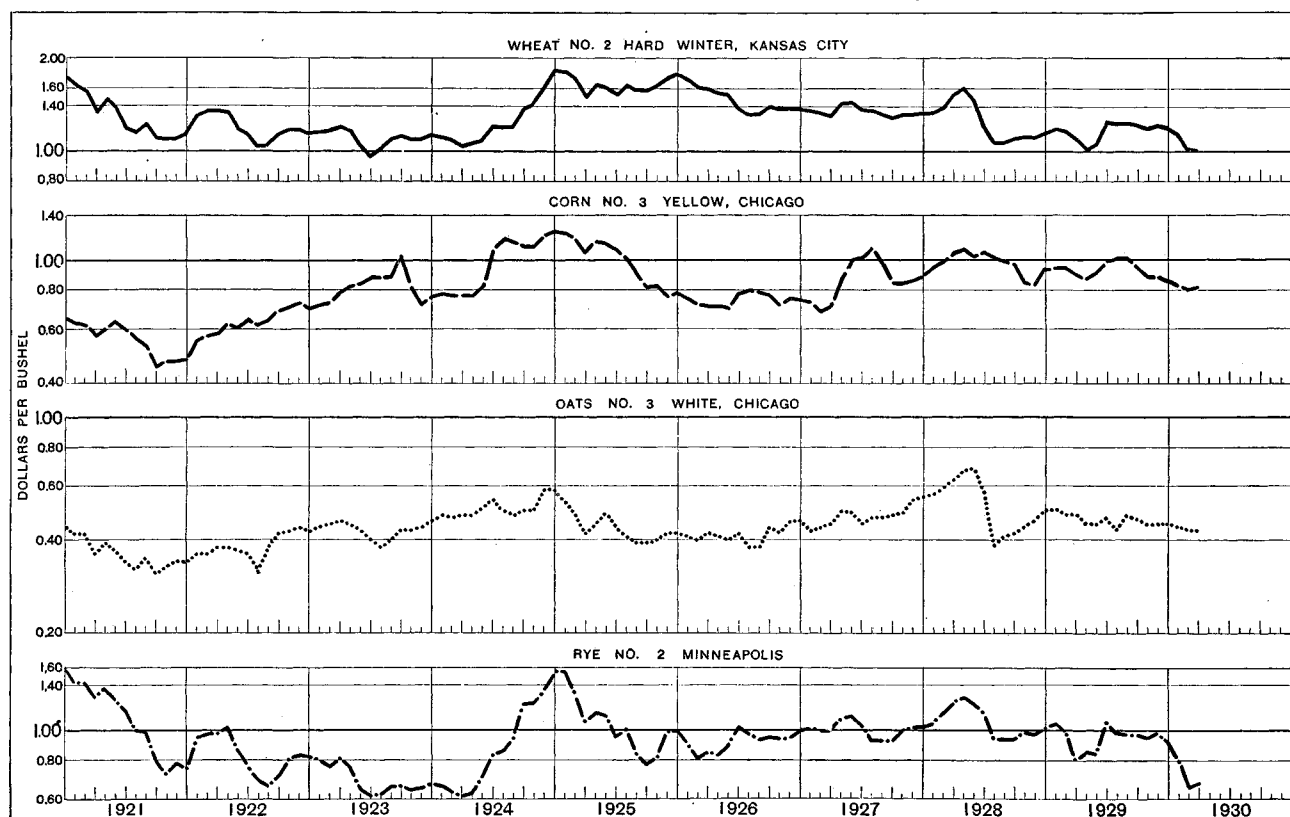
The visible supply of corn registered declines from both the preceding month and the same period a year

a decline from the preceding period. Wholesale prices of 92 score butter at New York showed an increase of 5 per cent over the price that ruled in March.

Receipts of all types of cheese at principal markets during April were 6 per cent greater than a year ago, while storage holdings showed a slight decline. Imports of sugar, while showing a gain over March, were less than the previous year. For the first four months of the year imports of sugar from Hawaii and Porto Rico registered a gain of 35 per cent over the same period of 1929. Stocks of sugar held at refineries showed large gains over March, but fell off from the level of April, 1929.

## MOVEMENT OF GRAIN PRICES

[Weighted price per bushel. April, 1930, is latest month plotted]



ago. Receipts and shipments of corn showed increases over the preceding month and April of last year. The receipts of barley at principal centers declined seasonally from the month of March.

Receipts and shipments of cattle during April at primary markets, while greater than during March, declined from a year ago. Hog receipts and shipments declined seasonally. Storage holdings of pork products were 26 per cent lower than a year ago. Wholesale prices for pork averaged lower in April than in the preceding month or April, 1929. Receipts of poultry at five principal markets registered gains over the preceding month and April a year ago. Storage holdings showed a decline.

Butter production in April was 16 per cent greater than March, cold storage holdings, however, showed

Imports of coffee, while less than the preceding month, were 8 per cent greater than a year ago. Wholesale prices for coffee showed declines from the preceding month and April, 1929. Tea imports during April, while less than in March, were 7 per cent greater than April, last year. The wholesale price of tea at New York declined 9 per cent from last year.

The consumption of cigarettes during April, while showing a gain of 4 per cent over March, was slightly less than the same period a year ago. The consumption of large cigars, however, showed a decline from a year ago. For the first four months of the year cigarette consumption was 2 per cent greater and large cigar consumption 7 per cent less than in the same period a year ago.

### TRANSPORTATION

Freight-car loadings in April showed a decline from the previous month and the corresponding period a year ago. For the first four months of the year total loadings were 7 per cent less than what they were during the corresponding period a year ago. Clearances of vessels engaged in foreign trade showed a marked gain for the first four months of the year over the corresponding period a year ago. Traffic on inland rivers was uniformly larger than in March and, except on the Allegheny River, was smaller than a year ago. New orders for locomotives and freight cars were fewer than for each prior period.

### DISTRIBUTION

Sales by mail-order houses showed a substantial gain over the preceding month and were greater than a year ago. For the first four months of this year the sales of the houses showed but slight difference from a year ago. The volume of business transacted by leading 10-cent chains was 10 per cent greater than during March and 11 per cent over April, 1929. For the year to date the increase in sales was 2 per cent over the same period a year ago. Magazine advertising as measured in lineage showed a gain of 5 per cent over March, but registered a slight loss when compared with April, 1929. Newspaper advertising also increased over the preceding month, while the amount of advertising by radio declined. Postal receipts in principal cities showed a gain over the month of April of last year.

### BANKING AND FINANCE

Bank loans and discounts at the end of April, while showing but a slight change from the end of March, were 3 per cent over a year ago. The Federal reserve ratio registered gains over both prior periods. Interest rates were generally lower than in the month of March and the corresponding period a year ago.

Dividend and interest payments paid during April showed a marked gain of 22 per cent over the month of March and 10 per cent over a year ago, while for the first four months of the year a gain of 16 per cent was registered. Prices for industrial stocks showed a gain of 7 per cent over March, but were lower than a year ago. Bond prices were generally lower than in the preceding month but were higher than a year ago.

New sales of ordinary life insurance showed a seasonal decline from March but were 6 per cent greater than a year ago.

### GOLD, SILVER, AND FOREIGN EXCHANGE

Receipts of domestic gold at the mint during April were greater than during March or the corresponding month a year ago. The Rand production of gold fell off from the month of March and April, 1929. Gold imports of bullion and coin showed marked gains over both prior periods.

Silver production in the United States registered declines from the preceding month and the corresponding period of 1929. Silver imports and exports, contrary to the movement of gold, showed declines from both comparative periods. The price of silver at New York, although increasing over the month of March, was 24 per cent below the level of last year.

Rates for foreign exchange in April were generally the same as in preceding month and in the corresponding period a year ago, the only exception being in the rates with Belgium, the Netherlands, Japan, Canada, Argentina, and Chile, which showed slight increases over March. As compared with a year ago, rates with England, Belgium, the Netherlands, Sweden, Switzerland, Japan and Canada, showed increases, while rates with Argentina and Brazil declined. Rates of exchange with France and Italy remained unchanged from the month of March and April, 1929.



## INDEXES OF BUSINESS

The index numbers presented in this table are designed to show the trend in production, prices, trade, etc., by commodities or groups. They consist in general of weighted combinations of series of individual relative numbers; often the individual relative numbers are also given. The function of index and relative numbers is explained on the inside front cover. All of the index numbers, except where noted, are based on the average of the years 1923 to 1925, while maxima and minima are given only since 1923, thus eliminating the abnormal period prior to 1923. Complete descriptions and figures for earlier years may be found in the following issues of the Survey (later data being available in the latest semiannual issues): Production in the July, 1928, issue (No. 83), pages 18 to 22; stocks in the August, 1928, issue (No. 84), pages 20 to 22; new orders in the September, 1928, issue (No. 85), page 19; unfilled orders in the January, 1928, issue (No. 77), pages 22 and 23; wholesale trade in the January, 1928, issue (No. 77), page 21; mail-order and chain stores in the May, 1928, issue (No. 81), pages 20 and 21; department stores in the April, 1928, issue (No. 80), pages 20 and 21; employment, based on 1923 as 100, in the August, 1928, issue (No. 84), page 108; farm prices in the August, 1928, issue (No. 84), page 27; wholesale prices (Department of Labor) in the November, 1927, issue (No. 75), page 24, and the June, 1928, issue (No. 82), page 23; wholesale prices, commercial, in the August, 1928, issue (No. 84), page 26; cost of living in the August, 1928, issue (No. 84), page 27, and the June, 1926, issue (No. 58), page 24.

Relative to 1923-1925 monthly average as 100	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929			1930			PER CENT INCREASE (+) OR DECREASE (-)	
			February	March	April	February	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929
<b>PRODUCTION</b>										
<b>TOTAL INDUSTRIAL</b>										
Unadjusted, except for working days.....	125	81	120	121	123	109	106	107	+0.9	-13.0
Adjusted for seasonal variations.....	123	83	117	118	122	107	104	106	+1.9	-13.1
<b>MANUFACTURING</b>										
Total (adjusted for working days only).....	127	79	120	125	127	110	109	109	+0.0	-14.2
Total (adjusted for seasonal variations).....	128	82	116	120	123	106	105	106	+1.0	-13.8
Iron and steel.....	155	59	126	132	135	118	112	114	+1.8	-15.5
Textiles.....	121	77	113	116	120	99	98	97	-1.0	-19.2
Food products.....	110	90	101	96	102	94	90	97	+7.8	-4.9
Paper and printing.....	128	91	123	125	124	125	121	124	+2.5	0.0
Lumber.....	110	78	78	83	86					
Automobiles.....	166	47	148	159	153	103	109	109	0.0	-28.8
Leather and shoes.....	134	86	98	99	97	95	97	98	+1.0	+1.0
Cement.....	99	126	115	99	110	110	111	108	-2.7	-5.3
Nonferrous metals.....	137	87	123	129	137	101	104	105	+1.0	-23.4
Petroleum refining.....	178	84	160	160	165	168	168	169	+0.6	+2.4
Rubber tires.....	169	66	152	152	161	107	105	122	+16.2	-24.2
Tobacco manufactures.....	143	93	129	126	142	133	128	136	+6.2	-4.2
<b>MINERALS</b>										
Total (adjusted for working days only).....	128	84	116	101	103	104	91	92	+1.1	-10.7
Total (adjusted for seasonal variations).....	120	90	120	107	115	108	96	103	+7.3	-10.4
Bituminous coal.....	125	77	110	90	100	91	81	97	+19.8	-3.0
Anthracite coal.....	133	1	110	77	95	102	69	73	+5.8	-23.2
Crude petroleum.....	147	88	137	133	132	135	125	125	0.0	-5.3
Iron-ore shipments.....	143	0								
Copper.....	139	82	136	135	141	95	88	90	+2.3	-36.2
Zinc.....	127	93	106	112	116	99	96	91	-5.2	-21.6
Lead.....	125	75	99	112	122	105	108			
Silver.....	123	85	91	93	103	90	93			
<b>ANIMAL PRODUCTS (Marketings)</b>										
Total.....	124	79	80	88	100	84	98	101	+3.1	+1.0
Wool.....	421	14	14	43	49	38	42	64	+52.4	+30.6
Livestock.....	131	76	78	77	87	81	81	83	+2.5	-4.6
Poultry and eggs.....	148	67	67	106	141	85	117	144	+23.1	+2.1
Dairy products.....	160	64	88	98	103	87	100	107	+7.0	+3.9
Fish.....	283	44	138	156	164	155	187	207	+10.7	+26.2
<b>CROPS (Marketings)</b>										
Total.....	252	45	82	73	57	63	56	53	-5.4	-7.1
Grains *.....	218	38	95	80	59	81	62	59	-4.8	0.0
Vegetables *.....	199	60	96	102	104	93	103	95	-7.8	-8.7
Fruits *.....	266	43	69	67	86	55	53	56	+6.7	-33.3
Cotton products *.....	373	11	55	62	46	41	42	39	-7.1	-15.2
Miscellaneous crops *.....	344	18	136	68	33	66	43	44	+2.3	+33.3

\* Fluctuations between maximum and minimum due largely to seasonal conditions: Minerals and Manufacturing are adjusted for seasonal variations except where noted.

## INDEXES OF BUSINESS—Continued

Relative to 1923-1925 monthly average as 100	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929			1930			PER CENT INCREASE (+) OR DECREASE (-)	
			February	March	April	February	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929
<b>PRODUCTION—Continued</b>										
<b>FOREST PRODUCTS</b>										
Total.....	112	62	75	86	92	67	74	79	+6.8	-14.1
Lumber.....	112	59	75	85	87	63	68	73	+7.4	-14.1
Pulpwood.....	151	54	93	108	127	107	127	136	+12.6	+12.6
Gum (rosin and turpentine)*.....	204	18	26	37	115	27	41	101	+146.1	-12.2
Distilled wood.....	148	65	99	106	106	86	96	88	-8.3	-17.0
<b>NEW ORDERS</b>										
Total.....	138	72	98	115	102	71	71	67	-5.6	-34.6
Textiles.....	179	70	99	111	107	75	76	75	-1.3	-29.9
Iron and steel.....	143	71	132	158	147	103	113	106	-6.2	-27.9
Lumber.....	141	50	78	97	84	44	52	50	-3.8	40.5
Paper and printing.....	118	85	113	128	117	109	109	108	-0.9	-7.7
Stone and clay products.....	129	73	93	95	101	68	71	80	+12.7	-20.8
<b>STOCKS</b>										
Grand total.....	158	82	138	134	130	148	140	135	-3.6	+3.8
Total manufactured goods.....	125	88	127	124	122	125	124	126	+1.6	+2.3
Foodstuffs.....	136	79	111	108	109	110	104	104	0.0	-4.6
Textiles.....	138	78	127	123	120	120	120	136	+13.3	+13.3
Iron and steel.....	158	78	150	157	147	158	147	152	+3.4	+3.4
Nonferrous metals.....	181	74	117	114	114	181	185	189	+2.2	+65.8
Lumber.....	125	78	112	105	102	117	114	111	-2.6	+8.8
Stone, clay, etc.....	192	64	185	181	182	187	188	187	-0.5	+2.7
Leather.....	123	66	73	72	72	75	76	75	-1.3	+4.2
Rubber.....	199	77	178	186	191	148	149	156	+4.7	-18.3
Paper.....	156	46	136	117	104	79	92	94	+2.2	-9.6
Chemicals and oils.....	137	84	130	132	129	140	141	148	+5.0	+14.7
Total raw materials.....	186	69	145	141	136	164	152	142	-6.6	+4.4
Foodstuffs.....	230	68	172	181	187	196	186	175	-5.9	-6.4
Textiles.....	204	43	143	128	108	173	154	139	-9.7	+28.7
Metals.....	136	54	83	66	68	94	83	92	+10.8	+35.3
Chemicals and oils.....	153	73	114	105	99	111	104	100	-3.8	+1.0
<b>UNFILLED ORDERS</b>										
Total.....	167	67	80	86	93	79	82	73	-11.0	-21.5
Textiles.....	154	52	81	82	84	54	50	47	-6.0	-44.0
Iron and steel.....	157	66	87	93	92	89	93	87	-12.4	-5.4
Transportation equipment.....	204	49	74	81	104	107	107	103	-3.7	-1.0
Lumber.....	142	56	73	82	102	72	78	86	+10.3	-15.7
<b>RETAIL TRADE</b>										
Mail-order houses (2 houses).....	275	68	142	163	170	143	146	173	+18.5	+1.8
<b>CHAIN STORES:</b>										
Ten-cent.....	308	62	122	156	142	126	144	159	+10.4	+12.0
Restaurant.....	116	87	97	109	107	100	110	108	-1.8	+0.9
<b>DEPARTMENT STORES:</b>										
Sales.....	189	71	86	110	104	83	95	112	+17.9	+7.7
Stocks.....	117	83	95	102	103	93	100	100	0.0	-2.9
<b>COST OF LIVING</b>										
<b>National Industrial Conference Board Indexes</b>										
(Relative to July, 1914)										
All items weighted.....	172	158	161	160	159	159	157	158	+0.6	-0.6
Food (Department of Labor).....	167	141	154	153	152	153	150	151	+0.7	-0.7
Shelter.....	186	158	159	159	160	158	158	157	-0.6	-1.9
Clothing.....	177	160	170	166	168	164	163	162	-0.6	-3.6
Fuel and light (combined).....	179	156	162	162	160	162	162	161	-0.6	+0.6
Fuel.....	208	174	184	184	180	183	183	182	-0.5	+1.1
Light.....	123	118	120	120	120	121	121	121	0.0	+0.8
Sundries.....	176	168	170	170	170	168	167	167	0.0	-1.8

\* Fluctuations between maximum and minimum due largely to seasonal conditions

## INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929			1930			PER CENT INCREASE (+) OR DECREASE (-)	
			February	March	April	February	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929
<b>EMPLOYMENT</b>										
(Relative to 1923-1925 monthly average as 100)										
Number employed, by industries:										
Total, all classes.....	106	91	100	101	102	93	93	92	-1.1	-9.8
Iron and steel.....	108	88	98	99	100	94	93	93	0.0	-7.0
Machinery.....	122	88	110	114	117	109	109	107	-1.8	-8.5
Textiles.....	111	84	98	101	99	93	93	90	-3.2	-9.1
Food products.....	109	93	99	98	96	97	95	94	-1.1	-2.1
Paper and printing.....	107	96	103	03	103	104	104	103	-1.0	0.0
Lumber and products.....	104	74	86	87	88	75	75	74	-1.3	-15.9
Transportation equipment—										
Group.....	110	81	99	101	102	84	83	84	+1.2	-17.6
Automobiles.....	131	79	130	131	131	90	91	94	+3.3	-28.2
Leather and products.....	112	88	94	93	91	99	92	90	-2.2	-1.1
Cement, clay and glass.....	107	75	85	87	91	75	78	81	+3.8	-11.0
Nonferrous metals.....	113	83	106	108	108	85	84	83	-1.2	-23.1
Chemicals—										
Group.....	119	90	111	116	119	110	113	112	-0.9	-5.9
Petroleum refining.....	125	95	107	109	112	121	119	116	-2.5	+3.6
Rubber products.....	117	84	112	113	114	88	87	89	+2.3	-21.9
Tobacco products.....	109	84	92	92	91	89	90	88	-2.2	-3.3
Amount of pay roll by industries:										
Total, all classes.....	112	85	108	111	111	97	98	97	-1.0	-12.6
Iron and steel.....	114	77	107	109	111	98	97	98	+1.0	-11.7
Machinery.....	132	83	121	127	130	115	115	113	-1.7	-13.1
Textiles.....	111	77	104	109	103	94	97	89	-8.2	-13.6
Food products.....	109	94	103	101	100	102	100	100	0.0	0.0
Paper and printing.....	118	92	113	115	113	115	115	114	-0.9	+0.9
Lumber and products.....	107	73	87	88	91	73	75	74	-1.3	-18.7
Transportation equipment—										
Group.....	117	80	111	114	117	90	91	92	+1.1	-21.4
Automobiles.....	152	66	147	148	152	93	97	101	+4.1	-33.6
Leather and products.....	116	80	95	91	88	86	85	82	-3.5	-6.8
Cement, clay, and glass.....	108	67	81	85	89	70	73	77	+5.5	-13.5
Nonferrous metals.....	128	81	124	128	127	92	91	88	-3.3	-30.7
Chemicals—										
Group.....	118	90	111	114	118	110	112	111	-0.9	-5.9
Petroleum refining.....	129	90	110	112	117	125	123	122	-0.8	+4.3
Rubber products.....	150	82	123	124	124	92	90	95	+5.6	-23.4
Tobacco products.....	111	76	82	84	86	80	81	77	-4.9	-10.5
<b>WHOLESALE PRICES</b>										
<b>Department of Labor Indexes</b>										
(Relative to 1926 monthly average as 100)										
All commodities.....	105	91	97	98	97	92	91	91	0.0	-6.2
Farm products.....	114	94	105	107	105	98	95	96	+1.1	-8.6
Food, etc.....	107	85	98	98	98	96	94	95	+1.1	-3.1
Hides and leather products.....	127	98	109	108	108	104	103	103	0.0	-4.6
Textile products.....	114	86	96	96	96	88	87	86	-1.1	-10.4
Fuel and lighting.....	112	77	81	81	81	79	77	78	+1.3	-3.7
Metals and metal products.....	113	97	104	106	106	101	101	99	-2.0	-6.6
Building materials.....	116	90	98	99	98	96	95	95	0.0	-3.1
Chemicals.....	104	91	96	96	95	92	91	91	0.0	-4.2
House-furnishing goods.....	111	97	97	97	97	97	97	96	-1.0	-1.0
Miscellaneous.....	127	78	80	80	79	79	78	79	+1.3	0.0
Classified by condition of manufacture:										
Semimanufactured articles.....	128	88	97	99	97	92	91	88	-3.3	-9.3
Finished products.....	103	92	96	97	97	93	92	92	0.0	-5.2
Raw materials.....	109	89	98	99	97	92	89	90	+1.1	-7.2
Nonagricultural commodities.....	106	89	94	95	95	91	90	89	-1.1	-6.3
<b>Commercial Indexes</b>										
(Relative to 1923 monthly average as 100)										
Dun's.....	106	85	103	102	100	96	95	94	-1.1	-6.0
Bradstreet's.....	112	85	101	100	98	87	87	85	-2.3	-13.3

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929			1930			PER CENT INCREASE (+) OR DECREASE (-)	
			February	March	April	February	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929
<b>PRICE INDEX NUMBERS</b>										
<b>FARM PRICES</b>										
(Relative to 1909-19 4 average as 100)										
All groups.....	152	125	136	140	138	131	126	127	+0.8	-8.0
Grains.....	178	108	123	124	120	115	107	110	+2.8	-8.3
Fruits and vegetables.....	253	108	111	112	110	168	169	187	+10.7	+70.0
Meat animals.....	167	98	150	160	164	150	151	146	-3.3	-11.0
Dairy and poultry.....	166	122	148	144	138	136	123	124	+0.8	-10.1
Cotton and cottonseed.....	252	81	149	155	152	121	113	120	+6.2	-21.1
Unclassified.....	108	78	91	90	88	84	80	78	-2.5	-11.4

SALES OF THE GREAT ATLANTIC & PACIFIC TEA CO.<sup>1</sup>

YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES		YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES	
	Total	Number of weeks	Weekly average	Total	Weekly average		Total	Number of weeks	Weekly average	Total	Weekly average
<b>1928</b>											
September.....	\$69,336	4	\$17,334	309,451	77,363	September.....	\$75,246	4	\$18,811	336,309	84,077
October.....	93,429	5	18,686	419,079	83,816	October.....	105,995	5	21,199	472,644	94,529
November.....	73,844	4	18,461	338,704	84,676	November.....	83,714	4	20,923	381,106	95,276
December.....	74,911	4	18,728	345,595	86,399	December.....	87,260	4	21,815	407,339	101,835
<b>1929</b>											
January.....	91,983	5	18,397	425,590	85,118	January.....	104,271	5	20,854	492,425	98,485
February.....	85,846	4	21,462	398,225	99,056	February.....	86,122	4	21,530	400,568	100,146
March.....	77,712	4	19,428	363,786	90,947	March.....	83,976	4	20,994	395,331	98,834
April.....	77,324	4	19,331	359,129	89,782	April.....	86,138	4	21,534	404,319	101,080

<sup>1</sup> Compiled by the Atlantic & Pacific Tea Co., and represent the sales of identical stores for the periods shown.

RATE OF MANUFACTURING OPERATIONS<sup>1</sup>

(Based on consumption of electrical energy for power purposes)

ACTIVITY BY GEOGRAPHICAL DIVISIONS<sup>1</sup>

(1923-25 monthly average = 100)

MONTH	UNITED STATES							New England							North Central										
	1923	1924	1925	1926	1927	1928	1929	1923	1924	1925	1926	1927	1928	1929	1923	1924	1925	1926	1927	1928	1929				
January.....	101.7	100.4	102.9	118.4	111.5	118.4	132.5	113.4	108.7	109.3	105.9	117.2	115.2	127.6	97.5	98.0	100.2	111.8	105.5	117.0	138.8				
February.....	110.6	109.3	112.3	123.7	120.7	127.7	140.4	114.9	103.1	112.5	114.0	120.4	125.2	132.8	98.3	109.2	104.0	122.6	117.4	127.7	149.5				
March.....	105.3	99.9	108.0	118.5	116.8	118.2	135.7	108.3	94.3	104.1	111.8	113.4	116.9	130.8	104.2	106.2	106.2	118.2	117.4	122.3	141.9				
April.....	111.4	97.9	111.2	114.1	116.9	119.3	136.4	123.2	95.7	104.6	105.5	114.0	113.8	125.4	118.2	105.5	112.4	118.9	118.9	129.0	146.5				
May.....	110.8	81.7	106.8	111.3	120.7	119.0	136.9	117.8	81.5	99.3	105.8	115.2	109.1	123.3	118.6	87.2	107.0	122.4	124.7	127.2	148.9				
June.....	105.5	74.0	99.7	106.6	112.5	116.4	135.2	116.5	78.4	92.2	98.6	112.0	108.4	123.5	115.2	83.3	100.7	111.0	110.9	124.6	142.0				
July.....	102.5	70.8	99.2	106.7	110.6	120.2	129.0	108.3	68.3	90.5	92.9	109.3	102.4	113.4	111.8	74.5	99.2	104.1	115.5	131.8	141.3				
August.....	99.6	76.9	94.3	110.9	110.6	120.8	128.2	98.8	69.5	92.1	100.7	105.4	102.2	108.7	110.0	82.6	92.9	117.2	112.5	132.4	135.5				
September.....	107.2	90.0	98.1	118.6	118.4	134.5	135.8	113.1	84.6	96.7	111.5	114.0	115.3	118.2	107.2	87.1	101.0	121.2	116.4	149.7	140.6				
October.....	104.5	89.7	107.3	119.0	119.9	132.0	134.6	103.8	88.6	100.5	117.8	114.0	119.3	126.2	100.4	86.1	106.3	123.4	115.0	143.5	136.9				
November.....	103.3	93.4	112.8	111.9	115.2	133.3	122.9	106.5	99.8	108.5	113.3	109.7	126.0	118.1	94.0	85.3	105.7	107.2	111.4	145.7	122.2				
December.....	96.1	94.6	110.3	101.7	109.8	127.3	116.4	106.6	98.3	107.7	116.0	103.9	120.2	107.0	92.8	88.0	103.2	95.2	107.8	133.8	109.0				
Mo. av.....	104.9	89.9	105.2	113.5	115.3	123.9	132.0	111.0	87.5	101.5	107.8	112.4	114.5	121.3	105.6	91.1	103.3	114.4	114.5	132.1	137.8				
<b>Middle Atlantic</b>												<b>Southern</b>							<b>Western</b>						
January.....	112.8	104.5	108.4	119.1	114.0	116.2	126.7	95.5	96.3	102.9	120.0	132.8	124.8	120.5	92.5	104.6	110.6	117.8	118.7	115.0	131.9				
February.....	113.6	109.5	111.4	118.3	112.5	126.6	130.7	104.3	104.3	112.9	119.3	123.4	134.8	137.7	92.0	108.0	105.5	116.5	116.1	116.7	140.8				
March.....	106.0	98.2	104.7	114.9	109.6	114.2	130.4	97.9	96.2	110.0	113.5	117.2	115.4	125.4	87.4	101.3	102.5	110.6	100.1	110.4	138.2				
April.....	109.9	96.5	104.6	108.4	105.9	112.0	128.0	103.8	93.7	105.0	114.3	119.3	115.2	126.3	95.7	93.5	96.4	117.5	122.1	117.8	137.0				
May.....	113.1	83.1	98.3	104.7	108.8	112.9	130.4	108.4	86.2	100.6	109.7	123.0	110.6	128.1	103.6	94.7	102.3	122.2	126.8	112.9	144.7				
June.....	107.4	78.9	96.9	98.4	101.9	113.4	129.5	100.7	78.7	95.7	106.8	120.0	114.6	128.4	101.4	97.0	98.4	121.2	117.2	118.5	134.2				
July.....	100.9	69.6	91.2	92.9	96.0	110.8	120.5	102.2	75.7	94.9	102.6	112.7	112.0	114.7	108.7	97.5	98.5	114.2	125.4	116.5	129.4				
August.....	92.7	71.4	91.0	103.8	97.4	118.3	127.9	93.7	76.6	92.4	105.7	121.0	112.8	132.7	105.7	108.5	84.5	119.8	115.3	127.5	127.0				
September.....	103.7	82.5	98.9	111.0	111.6	136.0	138.0	108.4	98.1	104.1	115.2	136.8	127.5	126.3	109.0	96.5	103.1	120.2	124.6	150.8	143.1				
October.....	102.0	89.4	106.2	112.8	111.5	133.4	133.0	103.5	100.0	104.2	122.5	134.4	129.7	131.2	97.5	94.5	101.1	116.7	125.7	148.7	133.8				
November.....	105.0	105.6	115.4	109.3	110.4	138.9	124.3	103.9	108.5	113.2	134.2	137.8	127.6	122.8	93.8	97.7	102.0	112.8	117.0	156.7	142.6				
December.....	99.0	103.7	114.0	107.3	109.9	126.8	120.5	97.8	104.7	125.0	126.1	128.0	121.2	130.4	100.0	98.8	105.2	108.0	116.9	124.0	126.0				
Mo. av.....	105.5	91.0	103.5	108.4	107.5	121.6	128.3	101.7	93.1	105.2	115.8	125.5	120.5	127.0	99.0	99.3	101.7	116.5	118.8	126.3	135.7				

<sup>1</sup> See footnote on p. 19.

RATE OF MANUFACTURING OPERATIONS<sup>1</sup>—Continued

(Based on consumption of electrical energy for power purposes)

## ACTIVITY IN LEADING INDUSTRIES THROUGHOUT THE COUNTRY

(1923-1925 monthly average=100)

MONTH	ALL INDUSTRY							Chemicals and allied products							Food and kindred products						
	1923	1924	1925	1926	1927	1928	1929	1923	1924	1925	1926	1927	1928	1929	1923	1924	1925	1926	1927	1928	1929
January.....	101.7	100.4	102.9	118.4	111.5	118.4	132.5	95.5	95.3	110.3	122.2	95.1	124.2	129.2	94.0	99.5	100.2	101.7	95.3	102.4	128.0
February.....	110.6	109.3	112.3	123.7	120.7	127.7	140.4	89.8	92.6	112.0	115.6	105.3	129.1	138.7	94.4	102.9	95.4	98.9	98.5	115.6	127.5
March.....	105.3	99.9	108.0	118.5	116.8	118.2	135.7	86.4	92.7	109.7	113.3	103.1	126.8	133.0	98.7	97.5	90.8	87.3	83.8	108.4	122.2
April.....	111.4	97.9	111.2	114.1	116.9	119.3	136.4	88.7	92.3	106.8	111.2	108.0	131.7	131.7	103.1	94.2	94.5	98.2	104.2	105.9	121.2
May.....	110.8	81.7	106.8	111.3	120.7	119.0	136.9	89.4	89.7	109.2	120.8	111.8	126.3	129.2	106.7	97.1	100.8	102.8	115.8	103.9	122.6
June.....	105.5	74.0	99.7	106.6	112.5	116.4	135.2	84.8	86.0	103.5	111.1	101.7	122.6	133.8	109.6	104.5	108.0	98.9	113.4	116.8	121.8
July.....	102.5	70.8	99.2	106.7	110.6	120.2	129.0	85.9	80.0	104.7	115.7	104.9	128.5	127.0	103.6	108.6	105.2	112.4	121.2	129.2	129.9
August.....	99.6	76.9	94.3	110.9	110.6	120.8	128.2	78.8	86.2	108.8	122.7	97.8	119.2	125.0	102.6	100.3	98.6	120.4	111.6	128.3	132.2
September.....	107.2	90.0	98.1	118.6	118.4	134.5	135.8	94.9	95.4	109.2	113.8	122.6	132.0	139.9	104.6	102.4	98.6	112.8	127.4	142.0	141.2
October.....	104.5	89.7	107.3	119.0	119.9	132.0	134.6	106.4	109.9	122.7	120.2	115.8	129.4	145.0	104.2	97.1	103.9	107.9	120.8	138.0	131.7
November.....	103.3	93.4	112.8	111.9	115.2	133.3	122.9	98.1	120.0	128.5	99.9	115.5	135.7	147.3	102.9	93.5	96.2	104.0	117.9	130.0	127.9
December.....	96.1	94.6	110.3	101.7	109.8	127.3	116.4	98.3	113.6	123.9	106.2	109.0	132.8	148.0	98.5	91.0	96.3	95.2	104.6	113.7	121.1
Mo. av.....	104.9	89.9	105.2	113.5	115.3	123.9	132.0	91.4	96.2	112.4	114.4	107.6	128.2	135.7	101.88	99.1	99.1	103.4	109.5	119.5	127.3
	<b>Rolling mills and steel plants</b>							<b>Metal-working plants</b>							<b>Metals</b>						
January.....					120.5	131.3	153.5	115.4	102.7	114.0	131.5	114.0	117.4	135.8	115.4	102.7	114.0	131.5	117.7	124.4	142.6
February.....					126.8	133.8	163.3	126.4	119.3	122.5	129.9	114.3	127.6	153.7	126.4	119.3	122.5	129.9	130.2	130.7	157.3
March.....					125.6	124.5	160.3	115.6	109.5	112.5	121.8	108.3	117.4	151.4	115.6	109.5	112.5	121.8	117.0	121.0	154.9
April.....					123.5	125.4	152.3	118.9	102.6	111.5	116.0	106.3	121.7	148.3	118.9	102.6	111.5	116.0	114.9	123.2	149.9
May.....					122.5	125.0	172.2	118.3	73.0	100.8	109.3	109.0	123.7	144.2	118.3	73.0	100.8	109.3	116.7	123.6	154.8
June.....				109.9	116.3	121.2	154.3	109.8	58.9	90.6	110.0	105.6	122.7	143.4	109.8	58.9	90.6	109.9	110.9	122.7	147.9
July.....				109.0	113.0	121.2	144.4	113.0	53.7	91.3	107.4	104.4	126.3	144.4	113.0	53.7	91.3	108.2	108.6	124.2	144.2
August.....				108.2	106.4	125.4	150.9	108.0	63.6	91.1	110.4	103.0	125.8	134.6	108.0	63.6	91.1	109.3	104.6	125.5	140.7
September.....				120.8	109.6	141.2	152.3	110.9	76.4	92.6	118.5	105.2	144.2	147.4	110.9	76.4	92.6	119.7	107.4	143.0	149.2
October.....				123.2	111.8	144.7	144.8	106.3	74.7	97.4	122.9	109.7	144.5	145.0	106.3	74.7	97.4	123.0	110.8	144.6	145.1
November.....				113.5	108.9	148.8	123.2	102.9	83.5	108.1	114.8	106.3	140.5	128.7	102.9	83.5	108.1	114.2	107.7	143.5	126.7
December.....				106.2	110.6	142.2	120.5	94.3	91.3	118.6	113.1	101.2	137.5	127.2	94.3	91.3	118.6	109.6	105.9	139.2	124.9
Mo. av.....				112.9	116.3	132.1	149.4	111.7	84.1	104.2	117.1	107.3	129.1	142.0	111.7	84.1	104.2	116.9	111.9	130.5	144.9
	<b>Leather and its products</b>							<b>Lumber and its products</b>							<b>Paper and pulp</b>						
January.....	114.2	95.9	93.1	90.8	102.5	112.2	94.3	80.3	102.3	107.2	126.2	118.8	107.7	107.4	104.1	110.0	101.4	122.7	128.7	121.3	126.2
February.....	121.4	100.8	106.7	111.2	105.6	118.4	102.1	83.3	115.0	116.9	132.8	116.0	113.3	107.6	92.9	99.1	100.4	117.9	130.2	124.2	125.2
March.....	126.4	99.0	109.0	93.9	99.7	107.0	93.4	81.3	98.3	112.4	123.0	105.7	106.0	104.2	103.0	91.2	104.7	108.4	116.0	120.2	123.2
April.....	126.4	94.2	111.2	87.3	101.3	98.8	82.0	98.5	100.5	112.2	122.2	111.4	115.4	108.0	105.7	104.1	110.9	108.4	124.2	120.5	136.0
May.....	117.3	83.9	97.9	87.3	96.3	98.1	95.2	97.7	94.4	107.7	117.5	136.8	110.8	111.1	115.1	104.4	112.7	100.0	124.8	136.4	129.9
June.....	101.6	74.2	88.5	86.6	97.8	100.2	98.7	98.9	89.3	102.0	108.4	113.4	109.2	113.8	113.2	98.4	102.9	101.9	119.8	133.7	137.3
July.....	105.3	71.3	91.9	86.2	96.3	99.0	82.0	100.5	80.0	100.5	106.0	112.9	108.8	103.2	104.1	78.8	93.0	109.6	115.8	127.3	127.0
August.....	110.9	84.2	99.2	100.0	97.0	94.7	102.2	96.0	88.4	101.6	116.4	128.0	111.6	102.3	99.8	78.9	93.9	118.6	117.3	129.1	127.6
September.....	110.8	98.7	99.3	102.9	105.9	106.9	105.4	105.3	102.2	163.4	117.8	141.3	111.3	111.4	97.5	88.2	91.8	128.2	122.7	132.0	127.0
October.....	109.9	104.0	109.0	103.3	111.0	103.8	93.0	101.7	93.5	102.1	118.8	139.2	109.3	109.8	92.4	94.7	107.7	133.4	127.7	133.3	141.0
November.....	92.6	93.5	95.2	105.8	104.5	94.0	97.6	105.1	98.2	114.2	112.9	135.8	111.8	111.8	100.1	97.9	111.4	118.5	125.5	135.2	133.7
December.....	87.2	83.2	86.1	101.2	98.2	93.7	89.0	100.8	109.0	97.6	103.7	123.3	107.3	92.8	97.6	94.2	103.8	118.2	122.0	127.4	132.1
Mo. av.....	110.8	90.4	98.8	96.4	101.3	102.2	94.6	95.9	97.6	106.5	117.1	123.6	110.2	107.0	102.2	95.0	102.8	115.5	123.0	128.4	130.3
	<b>Rubber and its products</b>							<b>Shipbuilding</b>							<b>Stone, clay and glass</b>						
January.....	91.6	102.4	110.2	113.2	111.2	120.4	148.2	88.2	90.5	114.2	112.8	129.2	94.2	108.2	101.1	95.4	89.5	114.2	98.4	105.2	137.4
February.....	105.4	108.6	115.7	125.9	118.4	137.0	154.7	98.6	109.6	118.1	119.4	120.4	98.8	95.5	117.7	103.2	102.5	118.8	105.8	127.3	148.7
March.....	102.5	98.3	107.8	111.4	115.0	126.2	155.8	93.6	103.9	106.9	109.9	117.7	75.4	99.7	97.6	96.4	99.1	105.2	110.2	121.1	138.0
April.....	133.8	99.1	110.0	115.4	115.7	121.7	155.7	111.2	88.7	97.9	127.7	129.8	93.3	116.1	98.8	95.4	100.4	109.7	117.4	133.6	145.0
May.....	125.0	71.0	104.3	109.3	120.4	128.5	157.6	119.5	74.8	103.4	125.0	134.5	84.0	135.2	92.2	87.2	115.8	117.9	130.2	129.3	143.5
June.....	123.5	60.5	96.7	107.0	114.9	131.7	158.1	115.0	72.4	98.7	128.4	130.5	85.3	109.9	92.8	87.3	109.0	127.2	107.4	129.8	170.3
July.....	106.2	58.3	99.9	97.3	109.0	135.3	136.7	121.6	77.7	97.5	130.8	116.7	67.2	107.7	97.5	84.1	111.9	122.0	111.3	128.8	154.7
August.....	96.6	64.6	93.7	98.5	117.8	138.4	120.2	125.6	85.2	100.8	110.8	112.2	67.3	96.3	92.1	91.4	101.7	124.5	114.1	135.3	157.7
September.....	118.4	85.8	102.7	114.0	114.4	151.2	133.7	113.4	87.3	110.9	111.3	106.6	72.3	114.9	103.4	101.3	105.0	129.0	118.2	152.0	165.7
October.....	97.3	79.1	111.1	113.8	115.6	146.4	135.1	92.7	83.7	103.8	117.0	117.2	73.8	134.4	94.4	94.8	106.4	130.7	111.0	144.7	159.2
November.....	101.4	85.6	123.2	112.8	117.0	143.8	113.1	87.0	89.7	105.3	115.4	100.8	102.2	114.0	100.8	102.4	115.6	118.5	109.7	149.1	146.2
December.....	94.6	99.6	114.5	101.5	96.7	124.8	108.4	96.1	100.0	106.5	141.0	94.6	91.8	120.4	96.4	95.6	121.0	122.5	93.8	136.6	146.2
Mo. av.....	108.0	84.5	107.5	110.0	113.8	133.8	139.8	105.3	89.4	105.3	120.8	117.5	83.8	112.4	98.8	94.8	106.4	120.0	111.0	132.7	151.1
	<b>Textiles</b>							<b>Automobiles, including repair parts</b>							<b>Metal working industry<sup>3</sup></b>						
January.....	113.6	102.1	102.3	119.7	127.7	116.7	129.4	71.1	94.6	69.5	99.1	78.1	135.2	149.4	107.2	100.5	103.3	122.5	108.0	120.2	135.4
February.....	127.2	103.8	118.7	117.5	136.0	127.5	133.0	101.9	118.6	95.8	122.4	103.4	148.7	161.5	116.8	119.0	106.7	126.8	112.7	134.8	153.7

RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS <sup>1</sup>

## GROUPED BY FEDERAL RESERVE DISTRICTS

[Table continued on p. 21]

YEAR AND MONTH	U. S. TOTAL 141 CEN- TERS	BOSTON DISTRICT					NEW YORK DISTRICT					PHILADELPHIA DISTRICT				
		Total, 11 centers	Boston	Hart- ford	Provi- dence	New Haven	Total, 7 centers	Albany	Buffalo	Roches- ter	New York	Total, 10 centers	Phila- delphia	Scran- ton	Tren- ton	
1919 av., mills. dolls....	37,446	1,769	1,245	92	144	72	20,917	87	263	120	20,354	1,625	1,373	53	43	
1919 monthly average...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average...	106.0	109.2	105.9	117.4	118.7	118.1	99.4	111.5	114.8	119.2	98.8	113.3	112.4	124.5	125.6	111.6
1921 monthly average...	88.7	102.4	106.7	98.9	93.0	98.6	85.2	119.5	92.8	103.3	84.8	95.8	93.8	122.7	111.6	118.6
1922 monthly average...	97.8	105.5	109.3	103.3	95.1	104.2	98.4	119.5	99.6	110.0	98.2	102.5	101.7	109.4	118.6	137.2
1923 monthly average...	103.2	117.1	120.2	119.6	105.5	122.2	98.2	118.3	114.8	124.2	97.6	114.3	111.9	139.6	137.2	146.5
1924 monthly average...	109.5	120.9	125.6	131.3	104.4	125.8	108.3	134.8	115.0	129.0	107.9	116.8	114.3	142.3	146.5	159.6
1925 monthly average...	126.8	136.7	143.9	141.7	114.9	134.6	128.7	147.7	133.3	144.3	128.3	129.5	128.1	138.9	159.6	168.5
1926 monthly average...	135.3	141.6	157.0	152.3	113.4	139.6	139.0	154.0	136.9	146.3	138.8	134.6	133.1	144.2	168.5	175.6
1927 monthly average...	150.0	158.1	168.9	202.5	113.2	148.6	160.1	168.3	140.6	152.2	160.3	140.0	138.6	145.5	175.6	187.4
1928 monthly average...	179.5	161.3	169.1	232.7	115.5	162.4	203.7	179.0	166.0	157.8	204.8	156.2	155.8	146.6	187.4	201.6
1929 monthly average...	208.2	176.5	184.3	279.4	137.4	173.8	245.4	208.0	199.0	164.6	246.9	171.5	171.5	144.8	201.6	
<b>1928</b>																
September.....	168.7	142.4	148.8	210.9	110.4	152.8	189.4	139.0	102.7	148.3	190.3	146.6	146.1	134.0	172.1	
October.....	194.7	172.2	180.4	231.5	142.3	176.4	220.9	156.3	190.5	165.0	222.0	169.7	169.4	145.3	195.4	
November.....	190.6	166.8	176.5	217.4	124.3	159.7	220.0	157.4	180.2	155.0	223.4	163.6	164.7	137.8	188.4	
December.....	220.1	178.5	187.5	259.8	137.5	172.2	257.2	198.8	196.6	180.0	259.0	189.3	191.2	154.7	230.3	
<b>1929</b>																
January.....	221.3	181.3	187.9	295.7	143.7	195.8	266.7	186.1	191.2	175.0	268.8	170.1	178.9	151.0	200.0	
February.....	189.1	151.2	159.5	220.7	117.3	144.5	225.4	157.4	149.8	141.7	227.4	156.1	155.9	137.8	216.3	
March.....	223.2	171.4	178.4	267.4	134.0	172.2	270.0	233.2	180.2	165.8	272.3	175.1	177.7	143.4	181.4	
April.....	199.7	166.0	168.8	301.1	131.9	172.2	234.4	241.3	181.4	153.3	235.7	178.4	179.9	141.5	193.1	
May.....	204.5	167.4	173.7	254.4	133.3	166.7	244.0	282.7	176.0	149.2	245.0	166.7	167.1	141.5	183.8	
June.....	186.1	162.5	166.5	250.0	137.5	170.8	211.9	212.6	188.2	164.2	212.6	177.1	178.7	139.6	193.1	
July.....	207.4	182.1	189.8	300.0	140.2	180.6	240.8	204.5	217.1	176.7	241.8	175.5	175.3	139.6	227.9	
August.....	206.7	186.7	200.7	287.0	128.4	168.1	239.9	196.5	226.2	159.2	240.9	154.2	153.2	135.9	186.1	
September.....	207.4	174.5	179.5	341.3	127.1	173.6	246.2	178.1	232.3	182.5	247.3	154.0	152.5	135.9	190.7	
October.....	2 5.3	217.5	231.9	322.8	166.6	201.4	308.9	209.1	256.3	193.3	311.1	186.2	185.6	171.7	211.7	
November.....	219.4	186.3	195.1	273.9	152.1	179.2	261.5	191.9	213.3	158.3	263.4	180.1	181.8	152.8	204.7	
December.....	178.4	171.4	180.2	238.1	136.8	161.1	195.3	202.2	176.4	155.8	195.8	175.5	171.1	147.2	230.3	
<b>1930</b>																
January.....	161.5	172.4	181.4	254.4	131.9	176.4	170.5	176.9	160.4	151.7	170.6	160.6	150.6	143.4	211.7	
February.....	140.6	131.7	136.1	203.3	109.0	141.7	152.7	183.8	143.0	122.5	152.9	137.4	153.8	120.8	216.3	
March.....	175.6	147.8	150.3	257.6	118.7	175.0	199.4	263.1	161.2	136.7	200.2	154.2	153.9	128.3	162.8	
April.....	168.2	152.5	158.6	248.9	116.6	163.9	189.3	237.8	161.6	140.8	189.8	139.9	137.4	130.2	169.8	
May.....																
June.....																
July.....																
<b>ATLANTA DISTRICT</b>																
YEAR AND MONTH	Total, 15 centers	Atlanta	Bir- ming- ham	New Or- leans	Jack- son- ville	Nash- ville	Au- gusta	CHICAGO DISTRICT								
								Total, 21 centers	Chi- cago	Detroit	Indian- apolis	Mil- wau- kee	Des Moines	Grand Rapids	Sioux City	
1919 av., mills. dolls....	928	123	59	304	48	93	37	4,242	2,800	525	136	237	83	75	63	
1919 monthly average...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average...	115.1	108.9	128.8	115.4	125.0	120.4	110.8	116.0	113.0	125.2	123.5	124.0	114.5	128.0	109.5	
1921 monthly average...	84.2	85.4	103.4	82.2	91.7	105.4	64.9	92.0	91.7	91.2	100.0	97.5	84.4	109.3	63.5	
1922 monthly average...	86.0	90.2	133.9	89.5	97.9	71.0	70.3	96.8	96.2	101.3	104.4	101.7	83.1	81.3	101.6	
1923 monthly average...	100.0	108.9	183.1	97.4	112.5	78.5	83.8	108.8	105.0	125.7	115.4	115.6	97.6	89.3	119.0	
1924 monthly average...	105.3	113.1	199.3	106.4	126.5	79.2	74.6	110.8	106.3	130.6	110.9	110.5	103.2	89.2	123.4	
1925 monthly average...	125.0	129.2	226.7	118.2	206.2	87.6	78.2	124.9	120.4	158.3	115.4	119.4	89.8	114.1	136.9	
1926 monthly average...	128.1	132.7	243.8	113.7	232.6	89.7	72.6	132.0	127.5	166.4	135.2	127.3	98.1	115.5	129.1	
1927 monthly average...	123.9	127.8	253.5	114.8	181.6	97.6	74.8	137.9	136.8	162.8	136.2	130.1	98.9	110.3	114.7	
1928 monthly average...	123.1	137.7	255.4	112.6	156.4	108.5	75.0	155.3	152.3	213.2	139.6	131.5	100.2	118.0	92.5	
1929 monthly average...	128.2	173.0	252.1	112.2	157.8	118.8	74.1	174.6	174.8	234.3	153.4	133.5	102.5	123.1	99.7	
<b>1928</b>																
September.....	114.4	122.8	242.4	107.6	133.3	100.0	64.9	151.7	144.1	237.2	127.9	121.5	95.2	116.0	95.2	
October.....	134.0	145.5	294.9	120.7	152.1	120.4	89.2	165.8	160.5	236.8	146.3	138.4	106.0	126.6	101.6	
November.....	129.9	167.5	261.0	119.4	143.7	120.4	73.0	155.9	153.1	216.2	143.4	127.0	100.0	124.0	74.6	
December.....	145.5	204.9	279.7	134.2	172.9	111.8	86.5	184.6	176.9	301.4	156.6	131.2	100.0	130.6	90.5	
<b>1929</b>																
January.....	143.6	186.2	281.4	129.6	168.7	146.2	75.7	173.7	170.1	255.3	155.1	128.3	101.2	133.3	98.4	
February.....	120.2	169.9	215.3	105.6	158.3	119.3	64.9	153.3	154.9	201.4	140.4	115.2	86.8	104.0	88.9	
March.....	134.3	195.9	252.6	117.4	175.0	129.0	75.7	180.3	185.7	220.2	150.7	130.8	100.0	126.6	101.6	
April.....	132.3	188.6	255.9	112.2	183.3	119.3	75.7	163.4	158.9	234.9	143.4	122.8	101.2	118.6	106.3	
May.....	126.3	187.0	252.6	104.3	162.5	109.7	70.3	166.5	160.0	252.4	151.5	117.3	106.0	128.0	104.7	
June.....	120.5	165.9	232.2	95.7	152.1	145.1	62.2	163.7	158.7	233.0	156.6	128.3	103.6	122.6	96.8	
July.....	126.7	180.5	244.1	107.9	162.5	111.8	62.2	178.4	176.6	242.3	165.4	142.6	103.6	126.6	106.3	
August.....	121.4	179.7	239.0	101.6	141.6	112.9	64.9	187.8	192.8	234.5	159.6	143.9	104.8	130.6	101.6	
September.....	117.5	143.9	244.1	102.0	131.2	106.4	78.4	179.9	177.2	260.8	147.8	140.1	103.6	132.0	95.2	
October.....	142.0	171.5	296.6	131.2	158.3	118.3	100.0	206.4	214.6	253.0	164.0	151.9	118.1	134.6	104.7	
November.....	123.8	152.0	254.3	114.5	143.7	101.1	75.7	179.7	185.3	215.1	157.4	147.7	103.6	113.3	90.5	
December.....	129.4	154.5	257.6	125.0	156.2	106.4	83.8	162.5	162.8	208.8	148.5	132.9	97.6	106.6	101.6	
<b>1930</b>																
January.....	130.5	165.0	272.9	118.1	170.8	105.4</										



RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS—Continued

GROUPED BY FEDERAL RESERVE DISTRICTS—Continued

[Table continued on p. 22]

YEAR AND MONTH	CLEVELAND DISTRICT									RICHMOND DISTRICT					
	Total, 13 centers	Akron	Cincinnati	Cleveland	Pittsburgh	Yngstown	Toledo	Columbus	Dayton	Total, 7 centers	Baltimore	Norfolk	Richmond	Greenville	
1919 average millions of dollars...	1,963	90	247	653	746	60	116	116	50	718	404	84	16	37	
1919 monthly average	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1920 monthly average	16.4	115.6	113.0	115.9	118.5	110.0	117.2	111.2	104.0	111.8	115.6	102.3	108.7	102.7	
1921 monthly average	89.6	63.3	107.7	81.9	94.9	78.3	100.0	102.6	110.0	95.5	104.9	71.4	98.3	67.6	
1922 monthly average	94.6	63.3	117.4	84.1	97.2	83.3	123.8	112.1	112.0	89.6	89.1	78.5	100.9	67.6	
1923 monthly average	110.9	80.0	133.6	99.2	112.7	103.4	153.5	128.5	138.0	98.6	93.3	88.1	112.9	78.4	
1924 monthly average	109.4	81.4	128.0	96.8	113.2	101.6	155.7	116.0	136.0	96.3	93.4	82.2	109.1	69.4	
1925 monthly average	122.0	100.0	142.7	106.6	126.4	117.0	179.2	126.9	156.0	106.7	104.6	85.8	122.9	73.0	
1926 monthly average	127.4	104.5	150.3	115.9	126.7	118.0	189.5	138.3	176.5	108.4	107.4	94.2	121.5	76.2	
1927 monthly average	136.6	112.9	167.2	124.9	137.1	118.5	205.2	144.8	188.8	107.1	104.2	89.0	120.2	75.0	
1928 monthly average	141.4	124.5	181.2	130.0	136.1	124.1	241.0	148.3	194.5	105.4	102.0	85.4	123.6	64.2	
1929 monthly average	152.9	133.7	184.8	145.9	150.9	137.4	198.9	166.6	216.2	108.9	107.6	81.8	127.4	61.3	
<b>1928</b>															
September	135.3	125.5	159.1	124.3	129.6	123.4	230.2	138.8	182.0	93.6	86.4	72.6	128.5	51.4	
October	156.1	141.1	188.3	150.0	147.1	136.7	271.6	151.7	202.0	112.7	104.0	94.0	146.6	70.3	
November	140.5	116.7	169.7	123.4	142.3	118.4	240.5	146.6	168.0	102.8	95.8	83.3	130.2	64.9	
December	169.9	141.1	214.2	162.1	159.6	151.7	277.6	186.2	228.0	120.1	112.6	107.1	144.8	67.6	
<b>1929</b>															
January	154.2	136.7	202.5	138.9	147.1	138.4	244.0	174.1	242.0	113.3	106.2	94.0	133.6	73.0	
February	139.6	125.5	176.5	134.1	139.9	115.0	170.7	150.0	190.0	96.4	93.3	73.8	114.7	62.2	
March	160.0	133.3	184.2	140.4	148.7	135.0	199.1	158.6	232.0	108.4	104.4	85.7	125.0	64.9	
April	158.5	140.0	201.2	153.1	154.0	138.4	219.0	173.3	216.0	110.3	109.1	80.9	121.6	59.5	
May	145.7	134.4	172.5	135.8	147.7	120.0	185.4	159.5	198.0	104.9	101.2	82.1	115.5	59.5	
June	148.1	136.7	179.0	141.3	143.6	143.4	190.5	163.8	214.0	105.0	106.9	80.1	117.2	56.8	
July	165.4	148.9	184.6	151.1	167.9	151.7	219.8	175.0	248.0	109.1	111.6	83.3	123.3	56.8	
August	152.3	127.8	165.2	149.6	148.7	143.4	191.4	164.7	210.0	113.9	120.3	80.1	134.5	54.1	
September	145.7	130.0	166.0	145.6	138.6	135.0	175.0	156.0	214.0	101.5	103.0	73.8	120.7	51.4	
October	170.4	140.0	206.5	165.5	170.2	155.0	218.1	187.1	220.0	120.5	117.8	89.3	146.6	73.0	
November	152.1	124.4	189.5	140.9	161.6	125.0	179.3	160.4	198.0	112.1	110.1	88.1	141.4	64.9	
December	153.1	126.7	189.5	154.9	143.0	148.4	194.8	176.7	212.0	110.9	107.2	90.4	134.5	59.5	
<b>1930</b>															
January	144.0	125.5	183.4	141.8	131.6	135.0	184.5	167.2	228.0	108.7	107.7	80.9	126.7	73.0	
February	118.4	100.0	133.6	110.4	116.7	100.0	148.3	139.7	176.0	91.1	92.1	70.2	105.2	54.1	
March	135.9	112.2	146.6	131.5	135.5	113.4	157.8	162.1	190.0	106.4	113.4	77.4	112.9	54.1	
April	139.2	122.2	175.7	138.9	131.7	130.0	162.1	172.4	190.0	105.3	105.9	75.0	109.5	51.4	
May															
June															
July															
YEAR AND MONTH	DALLAS DISTRICT				ST. LOUIS DISTRICT					MINNEAPOLIS DISTRICT					
	Total, 11 centers	Dallas	Houston	Fort Worth	Summary for 5 centers	Louisville	St. Louis	Memphis	Little Rock	Total, 9 centers	Duluth	Minneapolis	St. Paul	Helena	Billings
1919 av., mill. dolls.	521	161	138	92	965	156	617	136	36	659	90	354	162	11	9
1919 monthly average	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average	117.4	114.3	115.2	119.6	105.4	92.3	106.5	107.4	125.0	108.5	120.0	109.6	98.2	100.0	111.1
1921 monthly average	94.2	90.7	86.2	109.8	89.0	82.0	91.9	73.5	116.7	82.7	84.4	84.2	75.3	100.0	88.9
1922 monthly average	97.9	96.9	81.2	119.6	94.5	87.8	94.2	87.5	127.8	88.0	82.2	85.0	97.5	90.9	77.8
1923 monthly average	101.3	107.5	89.0	93.5	110.4	101.9	108.4	106.6	169.5	94.8	85.5	91.5	106.8	81.8	88.9
1924 monthly average	101.5	112.7	91.2	78.0	110.6	106.7	108.2	101.1	156.1	104.2	117.7	103.8	101.6	85.6	78.7
1925 monthly average	112.4	130.8	103.6	82.4	124.2	120.8	120.8	111.7	204.9	114.3	118.2	119.4	104.7	85.6	84.3
1926 monthly average	119.1	131.5	126.0	92.1	127.3	128.7	122.7	111.5	226.4	104.9	88.3	110.3	102.2	82.6	88.0
1927 monthly average	124.5	135.6	131.9	108.2	127.4	123.6	129.9	119.6	230.8	110.0	103.0	113.9	106.7	83.3	92.6
1928 monthly average	134.6	148.5	140.1	115.8	133.8	131.3	139.0	117.0	230.4	117.5	101.3	124.6	110.6	87.9	110.2
1929 monthly average	147.1	162.2	153.2	124.7	138.5	134.8	132.9	134.6	236.8	128.2	101.1	141.5	116.3	93.9	111.1
<b>1928</b>															
September	141.8	163.3	147.8	116.3	122.9	128.2	114.4	110.3	233.4	131.8	142.2	139.3	109.9	90.9	122.2
October	163.5	188.8	176.8	127.2	147.1	134.6	136.5	155.1	300.0	155.0	181.1	159.3	125.9	127.3	166.7
November	145.5	169.6	147.1	119.6	134.3	128.2	122.7	146.3	261.1	127.3	130.0	131.9	113.6	100.0	133.3
December	167.0	185.1	173.9	153.3	157.8	148.7	150.4	155.9	277.8	127.3	101.1	134.2	125.3	109.0	111.1
<b>1929</b>															
January	154.7	178.3	149.3	132.6	146.8	150.6	137.5	144.9	236.1	113.0	74.4	122.3	113.0	90.9	100.0
February	131.8	146.0	136.2	104.4	125.6	133.3	117.2	120.6	200.0	100.0	66.7	107.4	103.1	72.7	77.8
March	147.6	168.3	152.9	117.4	140.7	136.5	133.2	136.0	238.9	113.0	75.5	120.9	117.3	81.8	100.0
April	142.2	154.0	145.6	120.7	134.6	127.6	131.5	121.3	225.0	112.0	77.8	119.8	111.1	100.0	100.0
May	140.3	145.3	157.2	115.2	132.1	136.5	128.2	114.7	216.7	116.1	91.1	126.8	105.6	81.8	111.1
June	129.3	134.8	136.9	115.2	141.2	135.3	145.7	108.1	191.7	120.0	97.8	130.0	111.7	81.8	100.0
July	139.9	139.1	152.9	142.4	136.9	138.5	138.3	102.9	211.1	138.7	122.2	154.8	117.3	100.0	100.0
August	138.7	147.8	147.8	122.8	126.5	123.1	125.3	110.3	211.1	150.2	132.2	171.8	120.4	100.0	111.1
September	150.3	165.8	160.9	118.5	134.0	128.8	125.6	141.2	258.4	147.8	127.8	169.8	116.1	100.0	122.2
October	179.4	208.1	188.4	142.4	163.7	153.2	147.5	202.2	338.9	154.0	125.5	172.3	130.3	109.1	166.7
November	155.8	175.8	161.6	131.5	142.5	136.5	131.5	165.4	263.9	138.4	116.7	151.7	124.7	109.1	122.2
December	154.9	182.6	148.5	133.7	137.9	117.9	133.9	147.8	250.0	135.0	105.5	150.0	124.7	100.0	111.1
<b>1930</b>															
January	142.2	155.3	149.3	110.9	132.7	127.6	129.0	130.1	225.0	113.9	71.1	128.0	111.1	81.8	88.9
February	124.0	131.1	130.4	98.0	108.8	109.6	104.1	107.4	188.9	100.7	66.7	111.9	99.4	72.7	77.8
March	140.9	173.9	134.8	105.4	123.1	116.0	119.3	119.9	222.2	110.7	76.7	120.3	112.3	72.7	88.9
April	130.7	147.8	132.6	103.3	120.1	114.1	118.7	105.1	211.1	110.7	68.9	123.7	107.4	90.9	88.9
May															
June															
July															

See footnote on p. 22.

## RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS—Continued

## GROUPED BY FEDERAL RESERVE DISTRICTS—Continued

YEAR AND MONTH	KANSAS CITY DISTRICT							SAN FRANCISCO DISTRICT					
	Total, 14 centers	Denver	Kansas City, Mo.	Omaha	St. Joseph, Mo.	Oklahoma City	Tulsa	Total, 15 centers	Los Angeles	Portland, Oreg.	San Francisco	Seattle	Oakland, Calif.
1919 average, millions of dolls.	1,231	146	413	264	85	68	94	1,909	314	181	760	206	63
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	109.8	139.7	94.9	95.5	97.6	153.0	131.9	123.2	139.2	108.8	124.6	96.1	160.3
1921 monthly average.....	82.0	98.6	74.6	67.4	81.1	129.4	88.3	104.4	143.0	82.3	101.9	67.0	128.5
1922 monthly average.....	84.2	102.7	74.3	73.1	69.4	119.2	105.3	107.2	165.0	76.2	94.8	73.3	144.4
1923 monthly average.....	90.6	111.6	84.3	77.7	72.9	114.7	104.3	126.3	223.6	86.2	104.0	83.0	192.0
1924 monthly average.....	85.7	112.9	81.4	69.7	71.6	112.1	89.5	128.9	236.7	89.4	107.1	87.7	196.3
1925 monthly average.....	95.5	121.5	90.1	76.9	72.7	127.4	112.6	142.9	251.1	92.0	126.1	98.0	227.3
1926 monthly average.....	100.4	123.2	93.4	75.4	73.4	139.1	136.0	155.7	278.1	101.0	138.2	103.2	273.0
1927 monthly average.....	102.3	120.4	93.8	76.0	66.9	154.6	139.2	172.3	297.2	94.2	165.0	105.8	356.7
1928 monthly average.....	108.9	125.4	102.4	82.1	70.0	167.1	147.0	198.7	342.7	101.4	201.6	119.7	399.1
1929 monthly average.....	120.5	138.9	115.0	87.4	68.9	192.3	177.0	203.7	388.1	109.1	186.3	133.3	376.5
<b>1928</b>													
September.....	110.7	129.4	105.1	89.4	70.6	163.3	151.1	192.7	325.8	102.8	194.1	116.5	369.8
October.....	122.7	145.2	117.7	88.6	72.9	203.0	168.1	206.1	369.5	114.9	192.7	134.9	409.4
November.....	107.0	128.1	99.5	75.8	65.9	167.7	155.3	190.6	357.4	116.0	194.2	108.7	349.1
December.....	120.9	131.5	113.1	77.7	74.1	207.4	207.5	222.5	372.6	111.1	221.1	130.1	533.2
<b>1929</b>													
January.....	117.1	136.3	107.3	84.1	74.1	185.3	184.1	209.4	404.2	101.1	189.1	133.0	407.9
February.....	102.3	118.5	94.4	75.8	61.2	175.0	147.9	187.4	371.4	97.2	172.3	112.1	349.1
March.....	117.9	148.6	111.6	89.4	69.4	176.5	159.6	223.3	435.1	110.5	210.6	140.3	417.4
April.....	116.0	145.2	104.8	86.0	68.2	185.3	172.4	191.5	383.8	98.3	164.0	128.6	336.6
May.....	112.7	135.6	105.3	83.0	65.9	186.8	161.7	197.7	394.9	111.6	174.0	125.7	372.9
June.....	115.3	133.6	110.4	83.7	65.9	183.9	169.2	190.3	365.0	105.0	167.4	125.7	385.6
July.....	140.4	137.7	145.3	96.6	78.8	216.2	202.2	196.7	365.0	108.8	175.9	138.3	385.6
August.....	128.1	149.3	127.1	98.1	76.4	182.4	170.2	208.3	393.3	115.5	191.0	141.7	382.5
September.....	116.7	130.1	112.6	87.5	65.9	189.8	173.4	197.3	366.3	114.9	184.2	133.0	325.3
October.....	135.8	166.4	129.5	98.1	71.7	216.2	197.9	241.6	433.2	121.0	244.8	159.7	388.8
November.....	124.5	139.7	118.1	85.2	62.3	208.9	190.5	209.8	394.0	121.6	191.2	140.3	358.7
December.....	119.8	125.3	113.1	81.1	67.0	201.5	194.7	191.2	351.0	103.9	171.3	121.4	377.7
<b>1930</b>													
January.....	114.5	121.9	103.9	84.9	68.2	208.9	174.5	186.9	352.9	96.7	170.3	122.3	319.0
February.....	99.3	107.5	90.3	77.3	56.4	170.6	143.6	161.9	308.6	82.9	150.4	105.8	269.8
March.....	109.5	123.3	101.7	85.6	57.6	191.2	157.5	198.2	346.5	100.0	201.5	126.7	353.9
April.....	106.8	124.7	99.7	79.9	56.4	179.5	158.5	183.0	344.0	98.3	171.2	123.3	301.5
May.....													
June.....													
July.....													
<b>DISTRICT TOTALS—SEASONAL VARIATIONS ELIMINATED</b>													
YEAR AND MONTH	U. S. total	Boston	New York	Philadelphia	Cleveland	Richmond	Atlanta	Chicago	St. Louis	Minneapolis	Kansas City	Dallas	San Francisco
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	106.0	109.5	99.3	105.1	116.4	112.1	115.1	116.1	105.5	108.5	109.8	118.0	123.4
1921 monthly average.....	88.7	101.9	85.1	95.9	89.8	97.6	84.4	92.0	89.1	82.9	82.1	94.3	105.4
1922 monthly average.....	97.8	105.4	98.5	102.5	94.5	89.5	85.9	96.8	94.2	87.9	84.1	97.9	107.1
1923 monthly average.....	103.3	117.1	98.0	114.4	111.1	98.8	99.9	109.0	110.3	95.0	89.7	101.1	126.4
1924 monthly average.....	109.5	121.1	108.3	116.8	109.5	96.5	105.3	110.8	110.5	103.1	87.0	101.2	129.4
1925 monthly average.....	126.7	136.6	128.6	129.4	122.0	106.8	124.8	123.8	124.1	114.4	95.4	112.4	142.9
1926 monthly average.....	135.4	146.0	139.0	132.1	127.4	108.5	128.4	132.1	127.3	105.3	100.3	119.4	156.2
1927 monthly average.....	150.0	158.1	160.2	140.0	136.7	107.3	124.1	137.9	127.3	109.5	102.1	124.5	172.4
1928 monthly average.....	179.1	161.3	203.1	155.9	141.3	105.6	123.2	155.1	133.3	117.3	108.5	134.5	199.7
1929 monthly average.....	208.8	177.1	246.5	171.7	154.0	109.1	128.5	174.8	138.6	128.2	120.4	147.5	204.2
<b>1928</b>													
September.....	177.6	156.7	204.5	151.6	138.9	98.0	118.7	153.5	129.4	119.3	109.3	137.0	190.8
October.....	182.3	158.0	208.2	159.9	152.3	103.7	120.8	157.0	134.3	130.9	115.8	138.9	189.3
November.....	186.9	158.1	216.8	165.8	144.1	98.7	122.2	158.4	131.8	118.2	107.4	131.6	190.6
December.....	195.1	157.7	226.4	167.5	147.9	104.3	126.6	170.0	140.0	114.7	116.6	141.0	194.8
<b>1929</b>													
January.....	212.0	170.7	252.8	175.2	148.1	109.3	132.4	170.6	136.8	112.3	113.2	144.4	211.3
February.....	219.9	175.8	263.6	181.9	160.8	112.5	135.4	175.6	139.1	125.9	116.5	149.6	223.6
March.....	220.8	171.9	265.5	174.6	152.7	112.2	133.2	176.4	140.1	120.5	115.5	151.1	218.3
April.....	204.4	171.1	237.2	183.0	159.8	117.3	139.1	168.3	140.1	119.3	121.1	157.0	200.5
May.....	204.3	168.2	239.6	168.2	150.4	108.7	130.7	167.8	134.8	121.3	114.2	150.9	204.7
June.....	180.0	156.2	203.0	168.3	142.3	102.3	124.6	160.0	139.9	122.3	115.5	138.0	191.8
July.....	209.3	180.1	244.5	174.5	160.3	108.4	133.6	176.1	140.8	145.7	140.0	156.1	199.1
August.....	224.4	211.9	267.1	162.7	160.0	117.5	134.6	192.6	138.7	156.9	125.5	154.3	214.5
September.....	218.3	192.0	265.9	159.3	158.1	106.3	121.9	182.1	141.1	133.8	115.2	145.2	195.3
October.....	239.0	199.5	291.1	175.5	166.2	110.9	128.0	195.5	149.5	130.1	128.1	152.4	221.9
November.....	215.1	176.6	255.4	182.5	156.0	107.6	116.5	182.6	139.8	128.5	125.0	140.9	201.9
December.....	158.2	151.4	171.9	155.3	133.2	96.4	112.6	149.6	122.7	121.6	115.5	130.8	167.4
<b>1930</b>													
January.....	154.7	162.3	161.6	157.1	138.3	104.8	120.3	152.0	123.7	113.2	110.7	132.8	188.6
February.....	163.5	153.1	178.6	160.1	136.4	106.3	122.5	148.2	120.5	126.8	113.1	140.7	193.2
March.....	173.7	148.2	196.1	153.7	138.4	100.1	114.2	153.0	122.6	118.0	107.2	144.2	193.7
April.....	172.2	157.2	191.6	143.5	140.3	112.0	119.3	157.5	125.0	117.9	111.5	144.3	191.6
May.....													
June.....													
July.....													

<sup>1</sup> Compiled from data collected by the Federal Reserve Board, this table supplements similar data published in Nos. 26, 35, 56, 62, 67, 75, and 87 of this publication. The district total table represents the data of 141 identical centers.

<sup>2</sup> Greenville, S. C., substituted for Charleston, S. C., since May, 1928.

## TREND OF BUSINESS MOVEMENTS

The following table contains a summary of the monthly figures, designed to show the trend in important industrial and commercial movements. These data represent continuations of the figures presented in the latest semiannual number (February, 1930), in which monthly figures for 1929 and 1930 may be found, together with explanations as to the sources and exact extent of the figures quoted. The figures given below should always be read in connection with those explanations. Data on stocks, unfilled orders, etc., are given as of the end of the month referred to. For explanations or relative numbers, including base periods, see introduction on inside front cover.

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929	1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930	
<b>TEXTILES</b>												
<b>Wool</b>												
Receipts at Boston:												
Total.....thous. of lbs..	15,272	15,828	12,163	14,986	17,163	23,189	15,390	+14.5	+11.5	75,454	60,143	-20.3
Domestic.....thous. of lbs..	9,344	6,500	5,012	5,628	8,501	5,738	6,442	+51.0	+32.0	18,548	25,641	+38.2
Foreign.....thous. of lbs..	5,928	9,328	7,154	9,358	8,662	17,451	8,948	-7.4	-3.2	56,906	34,502	-39.4
Imports:												
In condition imported.....thous. of lbs..	20,246	26,464	18,498	20,049	17,816	32,743	28,165	-11.1	-36.7	130,829	82,827	-36.7
Grease equivalent.....thous. of lbs..	24,565	29,423	20,221	21,463	19,384	37,682	30,941	-9.7	-37.4	144,844	90,491	-37.5
Consumption by textile mills, grease equivalent.....thous. of lbs..	37,802	43,627	38,330	37,195	36,794	47,955	49,205	-1.1	-25.2	199,184	155,946	-21.7
Stocks, grease equivalent, end of quarter:												
Total.....thous. of lbs..	2 317,978			2 249,564		2 279,211		-21.5	-10.6			
Held by manufacturers.....thous. of lbs..	2 147,434			2 145,458		2 161,139		-1.3	-9.7			
Held by dealers.....thous. of lbs..	2 170,545			2 104,106		2 118,072		-39.0	-11.8			
Machinery activity, hourly:												
Looms—												
Wide.....per ct. of hours active..	54	53	52	46	45	67	70	-2.2	-35.7			
Narrow.....per ct. of hours active..	53	50	41	39	41	60	64	+5.1	-35.9			
Carpet and rug.....per ct. of hours active..	55	51	51	49	49	69	70	0.0	-30.0			
Sets of cards.....per ct. of hours active..	63	63	65	61	61	86	87	0.0	-29.9			
Combs.....per ct. of hours active..	72	79	86	64	60	82	81	-6.2	-25.9			
Spinning spindles—												
Woolen.....per ct. of hours active..	61	62	61	58	58	83	84	0.0	-31.0			
Worsted.....per ct. of hours active..	57	55	59	50	43	68	70	-14.0	-38.6			
Prices:												
Raw, territory, fine, scoured.....dolls. per lb..	.84	.81	.79	.77	.76	1.05	1.04	-1.3	-26.9			
Raw, Ohio and Pa. fleeces.....dolls. per lb..												
1/4 blood, combing, grease.....dolls. per lb..	.41	.38	.36	.33	.31	.52	.49	-6.1	-36.7			
Worsted, yarn.....dolls. per lb..	1.40	1.38	1.35	1.30	1.25	1.58	1.55	-3.8	-19.4			
Women's dress goods, French serge, 39-in.....dolls. per yd..	.98	.98	.98	.93	.90	.98	.98	-3.2	-8.2			
Suiting, 13-oz.....dolls. per yd..	1.901	1.838	1.800	1.756	1.756	2.008	2.008	0.0	-12.5			
<b>Cotton</b>												
Receipts into sight.....thous. of bales..	2,105	840	417	466	457	743	559	-1.9	-18.2	3,066	2,180	-28.9
Imports, unmanufactured.....bales..	36,190	51,474	23,643	28,279	67,397	37,124	84,621	+138.3	-20.4	216,309	170,793	-21.0
Exports, unmanufactured (excl. linters).....bales..	910,321	728,737	402,074	477,678	349,762	555,986	447,838	-26.8	-21.9	2,405,813	1,958,251	-18.6
Consumption by textile mills.....bales..	453,892	577,235	495,204	508,576	532,382	631,669	631,802	+7.7	-15.7	2,526,477	2,113,397	-16.4
Stocks, domestic, end of month:												
Totals, mills and w'houses.....thous. of bales..	7,759	7,237	6,670	5,952	5,304	4,131	4,208	-10.9	+28.4			
Mills.....thous. of bales..	1,844	1,830	1,812	1,763	1,667	1,730	1,606	-5.4	+3.8			
Warehouses.....thous. of bales..	5,915	5,407	4,858	4,189	3,636	3,177	2,525	-13.2	+44.0			
Stocks, world visible, end of month:												
Total.....thous. of bales..	8,098	8,059	7,854	7,339	6,659	6,749	6,053	-9.5	+10.0			
American.....thous. of bales..	5,960	5,576	5,150	4,612	3,975	4,469	3,680	-13.8	+8.0			
Machinery activity of spindles:												
Active spindles.....thousands..	29,070	29,198	28,927	28,898	28,860	31,103	30,911	-0.1	-6.6			
Total activity.....millions of hours..	6,770	8,173	7,091	7,350	7,503	8,911	8,861	+2.1	-15.3			
Activity per spindle.....hours..	196	236	205	214	219	252	251	+2.3	-12.7			
Ratio to capacity.....per cent..	88.2	100.3	97.7	92.8	96.3	109.4	110.3	+3.8	-12.7			
Prices:												
To producer.....dolls. per lb..	.160	.158	.148	.138	.147	.188	.185	+6.5	-20.5			
In New York, middling.....dolls. per lb..	.173	.173	.157	.151	.163	.212	.201	+7.9	-18.9			
<b>Cotton Yarn</b>												
Carded sales yarn:												
Production.....thous. of lbs..	13,364	17,571	13,086	13,707	15,485	23,373	18,269	+13.0	-15.2	78,671	59,849	-23.9
Stocks, end of month.....thous. of lbs..	9,865	10,773	11,775	12,487	13,116	8,328	8,446	+5.0	+55.3			
Unfilled orders, end of month.....thous. of lbs..	35,776	35,056	36,165	39,072	34,457	43,476	40,345	-11.8	-14.6			
Prices:												
22/1 cones, Boston.....dolls. per lb..	.340	.323	.310	.297	.302	.377	.362	+1.7	-16.6			
40/1s, southern spinning.....dolls. per lb..	.494	.500	.486	.477	.480	.527	.510	+0.6	-5.9			
<b>Cotton Goods</b>												
Cotton textiles:												
Production.....thous. of yds..	243,735	323,287	266,849	261,403	257,243	297,994	283,878	-1.6	-9.4	1,217,551	1,108,782	-8.9
New orders.....thous. of yds..	302,934	292,034	243,861	292,249	223,225	358,333	202,520	-23.6	+10.2	1,218,640	1,051,369	-13.7
Shipments.....thous. of yds..	214,148	331,481	274,543	265,675	253,360	325,633	277,098	-4.6	-8.6	1,257,203	1,125,059	-10.5
Stocks, end of month.....thous. of yds..	461,013	452,819	445,125	440,853	444,736	345,311	352,091	+0.9	+26.3			
Unfilled orders, end of mo.....thous. of yds..	431,018	391,571	360,889	387,463	357,328	504,876	430,298	-7.8	-17.0			
Fine cotton goods, production.....pieces..	367,706	420,190	356,334	402,322	351,580	464,539	425,925	-12.6	-17.5	1,704,136	1,530,426	-10.2
Cotton cloth:												
Imports.....thous. of sq. yds..	4,508	4,455	3,505	3,781	5,076	5,362	5,334	+34.3	-4.8	21,615	16,817	-20.5
Exports.....thous. of sq. yds..	34,657	39,153	32,045	36,171	36,821	58,474	49,233	+1.8	-25.2	214,385	144,190	-32.7
Fabric for tire manufacture:												
Consumption.....thous. of lbs..	8,677	14,559	13,767	14,656		21,238	23,620			2 61,344	2 42,982	-29.9

<sup>1</sup> Quarter ending in month indicated.

<sup>2</sup> Cumulative through Mar. 31

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>TEXTILES—Continued</b>													
<b>Cotton Goods—Continued</b>													
Elastic webbing, shipments...thous. of dolls.	1,149	1,444	1,421	1,496	1,347	1,869	1,766	-10.0	-23.7	6,619	5,708	-13.8	
Prices:													
Print cloth, 64 x 60.....dolls. per yd.	.069	.068	.065	.062	.061	.077	.076	-1.6	-19.7				
Sheeting, brown.....dolls. per yd.	.084	.083	.079	.078	.076	.089	.089	-2.6	-14.6				
<b>Cotton Finishing</b>													
White, dyed and printed (outside mills):													
Billings, finished goods.....thous. of yds.	61,816	63,457	64,271	66,246	65,364	98,495	96,707	-1.3	-32.4	358,296	259,338	-27.6	
New orders, gray yardage.....thous. of yds.	54,172	71,723	57,834	60,526	56,641	94,872	90,469	-6.4	-37.4	360,103	246,724	-31.5	
Shipments, finished goods.....cases	36,521	41,793	37,014	39,459	34,308	65,112	57,030	-13.1	-39.8	229,729	152,574	-33.6	
Stocks, finished goods, end mo.....cases	33,220	35,428	32,967	32,528	40,741	35,478	34,920	+25.2	+16.7				
Operating activity.....per ct. of capacity	50	57	62	59	56	77	74	-5.1	-24.3				
Unfilled orders, end of month.....days	3.6	4.3	4.2	4.2	2.9	6.3	6.4	-31.0	-54.7				
Printed only (mills and outside):													
Production.....thous. of yds.	57,548	60,091	60,939	72,634	72,721	92,544	88,635	+0.1	-18.0	341,745	266,385	-22.1	
Stocks, end of month.....thous. of yds.	80,825	73,239	72,642	77,763	84,808	79,361	82,106	+9.1	+3.3				
<b>Silk</b>													
Imports, raw.....thous. of lbs.	9,164	7,346	6,644	6,103	6,047	6,476	6,220	-0.9	-2.8	28,893	26,140	-9.5	
Deliveries (consumption).....bales	44,159	57,683	49,852	50,863	41,584	49,878	53,855	-18.2	-22.8	207,310	199,982	-3.5	
Stocks, end of month:													
At warehouses.....bales	90,772	76,264	68,646	57,773	53,704	45,218	39,125	-7.0	+37.3				
At manufacturing plants.....bales	27,017	29,100	24,591	24,728	25,280	25,892	23,108	+2.2	+9.4				
Silk machinery activity:													
Broad looms.....per cent of normal	98.3	105.6	109.7	111.1	101.3	100.2	101.1	-8.8	+0.2				
Narrow looms.....per cent of normal	54.1	59.6	56.2	57.7	57.2	66.3	68.8	-0.9	-16.9				
Spinning spindles.....per cent of normal	64.5	67.0	69.3	69.2	68.8	66.3	66.9	-0.6	+2.8				
Prices:													
Raw, Japanese, 13-15, N. Y. dolls. per lb.	4.580	4.630	4.433	4.531	4.186	4.998	5.145	-7.6	-18.6				
Silk goods, composite.....dolls. per yd.	1.18	1.17	1.17	1.16	1.14	1.19	1.18	-1.7	-3.4				
<b>Rayon</b>													
Imports.....thous. of lbs.	1,162	1,159	954	928	901	1,901	1,683	-2.9	-46.5	6,558	3,942	-39.9	
Stocks, bonded, end of month.....thous. of lbs.	3,082	3,087	3,061	3,093		2,863	2,736						
Price, 150 denier, A grade, N. Y. dolls. per lb.	1.15	1.15	1.15	1.15	1.15	1.30	1.30	0.0	-11.5				
<b>Clothing</b>													
<b>Men's and boys' garments cut:</b>													
Suits.....thous. of garments	2,091	2,522	2,336	2,294		2,932	2,304			\$ 8,743	\$ 7,152	-18.2	
Separate trousers.....thous. of garments	1,810	2,293	2,179	2,363		2,669	2,670			\$ 7,644	\$ 6,835	-10.6	
Overcoats.....thous. of garments	290	307	335	352		475	296			\$ 1,373	\$ 994	-27.6	
Overalls:													
Cut.....thous. of dozen garments	246	319	321	326		377	361			\$ 1,050	\$ 966	-8.0	
Net shipments.....thous. of dozen garments	226	289	304	297		352	315			\$ 939	\$ 890	-5.2	
Unfilled orders, end of mo.....thous. of dozen garments	112	147	117	116		194	189						
Hosiery:													
Production.....thous. of dozen pairs	3,054	3,474	+ 3,189	2,943		3,753	3,651			\$ 10,570	\$ 9,606	-9.1	
Net shipments.....thous. of dozen pairs	3,063	2,742	+ 2,711	2,727		3,722	3,507			\$ 10,039	\$ 8,180	-18.5	
Stocks, end of month.....thous. of dozen pairs	7,648	8,308	+ 8,814	8,623		8,215	8,022						
New orders.....thous. of dozen pairs	2,848	2,662	+ 2,598	2,687		3,789	3,991			\$ 10,062	\$ 7,847	-22.0	
Unfilled orders, end of month.....thous. of dozen pairs	3,327	3,035	+ 2,852	2,577		4,269	4,680						
Knit underwear:													
Production.....thous. of dozen garments	1,020	1,109	+ 1,128	1,192	1,139	1,251	1,274	-4.4	-10.6	4,651	4,568	-1.8	
Net shipments.....thous. of dozen garments	991	944	+ 981	1,044	997	1,166	1,112	-4.5	-10.3	4,221	3,966	-6.0	
Stocks, end of month.....thous. of dozen garments	1,345	1,436	+ 1,530	1,590	1,728	1,368	1,523	+8.7	+23.5				
New orders.....thous. of dozen garments	893	1,199	+ 1,041	1,036	897	1,330	1,071	-13.4	-16.2	5,204	4,173	-19.8	
Unfilled orders, end of month.....thous. of dozen garments	1,383	1,632	1,677	1,658	1,545	2,501	2,444	-6.8	-36.8				
<b>Burlaps and Fibers</b>													
Imports:													
Burlaps.....thous. of lbs.	45,738	73,098	71,053	52,854	54,863	52,550	69,787	+3.8	-21.4	241,181	251,868	+4.4	
Fibers (unmanufactured).....long tons	24,950	30,262	23,640	33,312	23,126	26,655	30,389	-30.6	-23.9	134,677	110,340	-18.1	
<b>Pyroxylin-Coated Textiles</b>													
Pyroxylin spread.....thous. of lbs.	2,460	3,098	3,093	1 3,474	4,033	6,629	5,554	+16.1	-27.4	23,645	13,698	-42.1	
Shipments billed.....thous. of linear yards	2,050	2,786	2,708	3,111	3,261	5,638	4,822	+4.8	-32.4	19,366	11,866	-38.7	
Unfilled orders, end of month.....thous. of linear yards	1,747	2,373	2,404	2,332	2,421	4,302	4,061	+3.8	-40.4				
<b>Fur</b>													
Sales by dealers.....thous. of dollars	2,262	2,968	7,667	8,327		21,228	12,994			\$ 45,573	\$ 18,962	-58.4	
<b>Buttons</b>													
<b>Fresh-water pearl buttons:</b>													
Production.....ratio to capacity	48.7	42.3	49.3	48.3	47.1	52.9	52.6	-2.5	-10.5				
Stocks, end of month.....thous. of gross	10,694	9,700	9,698	9,838	9,878	11,034	11,114	+0.4	-11.1				
Imports:													
Buttons—													
Product of Philippines.....thous. of gross	64	64	71	63	59	46	66	-6.3	-10.6	212	257	+21.2	
All other.....thous. of gross	17	261	5	5	6	4	14	+20.0	-57.1	214	277	+29.4	
Shells—													
Mother of pearl.....thous. of pounds	1,225	866	443	531	171	526	649	-67.8	-73.7	2,197	2,011	-8.5	
All other.....thous. of pounds	124	32	516	69	104	35	40	+50.7	+160.0	598	721	+20.6	
Taqua nuts.....thous. of pounds	1,667	1,149	477	1,186	1,607	1,921	2,390	+35.5	-32.8	9,778	4,419	-54.8	

\* Cumulative through Mar. 31.

† Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>IRON AND STEEL</b>													
<b>Iron</b>													
Manganese ore, imports...thous. of long tons..	15	38	22	30	26	18	31	-13.3	-16.1	85	116	+36.5	
Iron ore:													
Imports.....thous. of long tons..	286	293	203	301	313	244	284	+4.0	+10.2	949	1,110	+17.0	
Consumption.....thous. of long tons..	4,076	4,101	4,062	4,628	4,576	5,465	5,417	-1.1	-15.5	20,896	17,367	-16.9	
Stocks, end of month:													
Total.....thous. of long tons..	37,646	33,528	29,475	24,877	20,285	20,005	15,930	-18.5	+27.3				
At furnaces.....thous. of long tons..	31,503	27,674	23,939	19,785	15,950	15,782	12,283	-19.4	+29.9				
On Lake Erie docks.....thous. of long tons..	6,143	5,854	5,536	5,092	4,335	4,223	3,647	-14.9	+18.9				
Pig-iron production:													
Total, United States.....thous. of long tons..	2,837	2,827	2,839	3,246	3,182	3,714	3,663	-2.0	-13.1	14,026	12,094	-13.8	
Merchant furnaces.....thous. of long tons..	724	613	555	645	617	755	837	-4.3	-26.3	3,060	2,430	-21.4	
Canada.....thous. of long tons..	83	87	71	76	72	86	79	-5.3	-8.9	347	306	-11.8	
Furnaces in blast, end of month:													
Furnaces.....number	157	172	179	185	183	212	215	-1.1	-14.9				
Capacity.....long tons per day	88,250	96,370	102,250	106,080	104,770	120,740	122,980	-1.2	-14.8				
Ohio gray-iron foundries:													
Meltings—													
Actual.....long tons	13,782	15,419	16,012	15,778	20,101	20,662	23,703	+27.4	-15.2	87,112	67,310	-22.7	
Normal.....long tons	18,726	18,693	17,751	16,633	20,188	18,985	20,949	+21.4	-3.6	81,139	73,265	-9.7	
Ratio to normal.....per cent of normal	73.5	82.4	90.2	94.8	99.0	108.8	113.1	+4.4	-12.5				
Stocks, end of month.....per cent of normal	118	129	145	126	125	133	122	-0.8	+2.5				
Receipts.....per cent of normal	73	88	101	87	96	107	102	+10.4	-5.9				
Malleable castings:													
Production.....short tons	46,029	61,381	+65,942	+62,733	59,837	83,365	+83,744	-4.6	-28.5	314,109	249,893	+20.4	
Operating activity.....per ct. of capacity	47.3	61.6	+67.4	+63.9	60.9	87.7	+88.1	-4.7	-30.9				
Shipments.....short tons	47,689	57,820	+59,971	+64,108	58,854	81,063	+80,968	-8.2	-27.3	310,355	240,753	-22.4	
New orders.....short tons	43,475	58,009	+61,606	+59,960	52,369	86,744	+80,777	-12.3	-35.2	322,284	231,674	-28.1	
Wholesale prices:													
Foundry, No. 2,													
northern.....dolls. per long ton	20.26	20.26	20.26	20.26	20.26	19.51	19.76	0.0	+2.5				
Basic (valley furnace).....dolls. per long ton	18.50	18.50	18.50	18.50	18.50	17.50	17.90	0.0	+3.4				
Composite pig iron.....dolls. per long ton	19.10	19.08	18.99	18.77	18.75	19.11	19.25	-0.1	-2.6				
<b>Cast-iron Boilers and Radiators</b>													
Round boilers:													
Production.....thous. of lbs.	8,972	10,356	10,659	9,858	9,934	12,248	10,184	+0.8	-2.5	46,168	40,807	-11.6	
Shipments.....thous. of lbs.	10,453	7,304	5,616	4,935	5,853	7,208	8,603	+18.6	-32.0	33,092	23,608	-28.7	
New orders.....thous. of lbs.	9,184	6,366	5,158	4,805	4,988	6,151	7,920	+3.8	-37.0	29,366	21,317	-27.4	
Stocks, end of month.....thous. of lbs.	65,855	67,836	73,404	78,787	76,232	80,526	87,971	-3.2	-13.3				
Square boilers:													
Production.....thous. of lbs.	17,398	20,933	21,355	21,008	21,988	28,429	20,014	+4.7	+0.9	113,012	84,384	-25.3	
Shipments.....thous. of lbs.	20,010	13,836	10,191	8,854	9,433	11,476	12,264	+6.5	-23.1	53,897	42,314	-24.3	
New orders.....thous. of lbs.	17,972	13,345	10,415	10,163	8,923	11,844	13,616	-12.2	-34.5	54,437	42,846	-21.3	
Stocks, end of month.....thous. of lbs.	126,800	132,837	143,638	155,335	173,605	170,212	177,755	+11.8	-2.3				
Radiators:													
Production.....thous. sq. ft. heating surface	6,821	9,253	9,222	8,518	7,898	13,182	10,653	-7.3	-25.9	52,701	34,891	-33.8	
Shipments.....thous. sq. ft. heating surface	9,905	6,047	4,433	3,912	4,259	6,116	6,443	+8.9	-33.9	29,282	18,651	-36.3	
New orders.....thous. sq. ft. heating surface	8,681	6,276	4,845	5,085	4,411	6,062	8,238	-13.3	-46.5	30,613	20,617	-32.7	
Stocks, end of month.....thous. sq. ft. heating surface	46,371	49,717	54,589	59,064	62,747	66,903	71,284	+6.2	-12.0				
Gas-fired boilers:													
Production.....thous. dollars	188,063	118,418	111,401	175,912	323,434	239,879	262,914	+83.9	+23.0	747,859	729,165	-2.5	
Shipments.....thous. B. t. u.	164,635	100,030	91,644	151,380	259,442	171,048	202,358	+71.4	+28.2	562,737	602,496	+7.1	
New orders.....thous. B. t. u.	87,949	215,939	188,190	182,837	169,036	177,375	350,409	-7.5	-51.7	916,629	756,052	-17.5	
Stocks, end of month.....thous. B. t. u.	702,144	845,210	917,929	856,070	715,889	825,707	916,004	-16.4	-21.8				
<b>Crude Steel</b>													
Steel ingots, production:													
United States, total.....thous. of long tons..	2,896	3,786	4,068	4,289	4,143	5,058	4,938	-3.4	-16.1	18,812	16,236	-13.4	
Ratio to capacity.....per cent	59	72	86	84	81	99	97	-3.6	-16.5				
Canada.....thous. of long tons..	82	115	107	117	103	137	122	-12.0	-15.6	492	442	-10.2	
U. S. Steel Corporation:													
Unfilled orders, end of month.....thous. of long tons..	4,417	4,469	4,480	4,571	4,354	4,411	4,428	-4.7	-1.7				
Earnings.....thous. of dolls.	15,952	15,404	16,108	18,104		22,265	22,362			60,105	49,616	-17.5	
Steel castings:													
Production—													
Total.....short tons	106,569	109,296	107,897	+113,737	110,999	115,163	121,941	-2.4	-9.0	428,085	441,929	+3.2	
Ratio to capacity.....per cent	73	76	75	79	77	79	84	-2.5	-8.3				
Railroad specialties.....short tons	34,667	48,292	44,652	+47,813	45,778	49,562	53,458	-4.3	-14.4	178,991	186,535	+4.2	
Miscellaneous.....short tons	71,902	61,004	63,245	+65,924	65,221	65,601	68,483	-1.1	-4.8	249,094	255,394	+2.5	
New orders—													
Total.....short tons	90,287	101,728	114,727	+122,658	93,208	130,836	144,616	-24.0	-35.5	515,404	432,321	-16.1	
Ratio to capacity.....per cent	62	70	80	85	65	99	99	-23.5	-34.3				
Railroad specialties.....short tons	33,980	42,502	55,310	+54,063	35,530	60,743	75,625	-34.3	-53.0	260,080	187,405	-27.9	
Miscellaneous.....short tons	56,307	59,226	59,417	+68,595	57,678	70,093	68,991	-15.9	-16.4	255,324	244,916	-4.1	
Sheets, black, blue, galvanized, and full finished:													
Production—													
Total.....net tons	181,916	291,529	275,952	259,658	308,988	364,202	375,256	+19.0	-17.7	1,457,330	1,136,127	-22.0	
Ratio to capacity.....per cent	60.0	77.6	83.9	73.7	84.0	115.2	115.2	+14.0	-27.1				
Stocks, end of month—													
Total.....net tons	173,619	191,532	201,609	192,317	208,374	189,050	175,306	+8.3	+18.9				
Unsold.....net tons	72,611	73,948	75,771	75,847	81,671	63,397	54,142	+7.7	+50.8				
Shipments.....net tons	17,575	241,677	241,441	275,235	291,601	363,648	377,274	+5.9	-22.7	1,428,999	1,049,954	-26.5	
New orders.....net tons	234,599	382,122	203,315	299,764	300,036	464,297	398,206	+0.1	-24.6	1,690,389	1,185,287	-29.9	
Unfilled orders, end of month.....net tons	443,127	558,412	517,215	524,230	526,827	791,615	835,801	+0.5	-37.0				
Wholesale prices:													
Steel billets, Bessemer.....dolls. per long ton	34.60	34.00	33.00	33.00	33.00	34.00	34.80	0.0	-5.2				
Iron and steel comp.....dolls. per long ton	35.95	35.64	35.24	35.01	34.48	36.37	36.81	-1.5	-6.3				
Structural steel beams.....dolls. per 100 lbs.	1.90	1.90	1.80	1.80	1.80	1.90	1.90	0.0	-5.3				
Composite finished steel.....dolls. per 100 lbs.	2.50	2.46	2.43	2.43	2.39	2.56	2.56	-1.6	-6.6				

\* Cumulative through Mar. 31.

\* Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in-crease (+) or de-crease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>													
<b>IRON AND STEEL—Continued</b>													
<b>Fabricated Steel Products</b>													
Steel barrels:													
Production.....barrels	624,365	650,764	648,709	842,186	769,061	742,165	771,584	-8.7	-0.3	2,639,639	2,910,720	+10.3	
Ratio to capacity.....per cent	54.7	49.2	45.7	58.0	57.4	61.0	64.8	-1.0	-11.4				
Shipments.....barrels	618,003	643,120	643,324	846,451	766,617	743,407	775,481	-9.4	-1.1	2,631,001	2,899,512	+10.2	
Stocks, end of month.....barrels	66,883	74,527	79,912	65,647	68,091	59,000	55,103	+3.7	+23.6				
Unfilled orders, end of month.....barrels	1,340,028	1,696,286	1,592,982	1,897,913	1,691,461	1,470,258	1,269,044	-10.9	+33.3				
Track work, production.....short tons	10,826	11,830	12,524	13,096	13,508	14,927	16,815	+3.1	-19.7	54,266	50,958	-6.1	
Iron, steel, and heavy hardware sales, rel. to Jan., 1921	169	160	149	177		217	226						
Lock washers, shipments.....thous. of dolls.	175	287	295	315	310	353	370	-1.6	-16.2	1,330	1,207	-9.2	
Steel plate, fabricated, new orders:													
Total.....short tons	23,535	50,076	28,332	48,051	36,640	57,628	42,063	-3.7	-12.9	191,180	153,099	-19.9	
Ratio to capacity.....per cent	30	64	36	48	47	72	53	-2.1	-11.3				
Oil storage tanks.....short tons	3,669	7,432	7,865	6,593	7,509	21,951	9,984	+13.9	-24.8	59,083	29,399	-50.2	
Steel bars, cold finished, shipments.....short tons	23,705	35,845	37,745	36,487	38,557	62,179	60,486	+5.7	-36.3	225,875	148,634	-34.2	
Steel boilers, new orders:													
Quantity.....number	1,029	942	873	972	1,017	1,466	1,706	+4.6	-40.4	5,289	3,804	-28.1	
Area.....thous. of sq. ft.	880	1,082	939	1,262	1,070	1,558	1,769	-15.2	-39.5	5,775	4,353	-24.6	
Iron and steel:													
Exports.....long tons	215,242	225,090	197,426	238,333	208,640	270,925	277,580	-12.5	-24.8	1,082,512	869,489	-19.7	
Imports.....long tons	39,022	34,710	35,830	49,284	45,358	39,888	43,936	-8.0	+3.2	174,730	165,182	-5.5	
<b>Machinery</b>													
Water-softening apparatus, shipments.....units	831	1,240	1,141	1,391	1,554	1,510	1,604	+11.7	-3.1	5,700	5,326	-6.6	
Water systems, shipments.....units	7,237	8,307	7,881	8,930	10,104	9,322	11,030	+13.1	-8.4	34,737	35,222	+1.4	
Pumps:													
Domestic shipments—													
Pitcher, hand, etc.....units	37,849	44,389	49,127	42,936	35,986	48,081	44,922	-16.2	-19.9	191,861	172,438	-10.1	
Power, horizontal type.....units	1,601	1,449	1,965	2,562	2,396	1,988	2,841	-6.5	-15.7	9,179	8,372	-8.8	
Steam, power, and centrifugal—													
New orders.....thous. of dolls.	1,580	1,437	1,362	1,465	1,467	1,878	2,175	+0.1	-32.6	7,180	5,731	-20.2	
Shipments.....thous. of dolls.	1,763	1,330	1,410	1,483	1,558	1,608	1,740	+5.1	-10.5	6,407	5,781	-9.8	
Unfilled orders, end mo. thous. of dolls.	3,787	3,842	3,794	3,825	3,722	3,912	4,343	-2.7	-14.3				
Foundry equipment:													
New orders.....rel. to 1922-24	208.0	160.1	166.4	164.1	122.8	209.4	172.6	-25.2	-28.9				
Shipments.....rel. to 1922-24	201.9	223.6	169.6	194.5	274.8	197.5	220.3	+41.8	+24.7				
Unfilled orders, end mo. rel. to 1922-24	473.2	395.6	424.7	411.1	244.1	414.4	363.4	-40.6	-32.8				
Stokers, mechanical, sales:													
Quantity.....number	79	53	73	85	102	117	141	+20.0	-27.7	435	313	-28.0	
Power.....horsepower	44,976	13,198	22,648	27,951	34,790	42,432	48,749	+24.5	-28.6	165,127	98,587	-40.4	
Machine tools:													
New orders.....rel. to 1922-24	166	182	170	181	179	334	320	-1.1	-44.1				
Shipments.....rel. to 1922-24	243	183	214	227	234	329	311	+3.1	-24.8				
Unfilled orders, end of mo. rel. to 1922-24	561	565	541	454	407	687	718	-10.4	-43.3				
Electric hoists:													
New orders—													
Quantity.....number	392	369	387	402	432	595	508	-7.5	-15.0	2,386	1,590	-33.4	
Value.....dollars	227,897	194,832	184,502	200,167	220,132	285,465	246,673	+10.0	-10.8	1,132,142	799,633	-29.4	
Shipments.....dollars	198,500	220,678	222,107	232,968	206,013	247,348	232,483	-11.6	-11.4	894,898	881,766	-1.5	
Electric overhead cranes:													
Shipments.....thous. of dolls.	1,380	977	773	1,059	825	773	748	-22.1	+10.3	2,959	3,634	+22.8	
New orders.....thous. of dolls.	734	406	832	851	882	1,919	1,194	+3.6	-26.1	5,669	2,971	-47.6	
Unfilled orders, end mo. thous. of dolls.	4,429	3,765	3,836	3,525	3,739	4,300	4,587	+6.1	-18.5				
Woodworking machinery:													
New orders.....thous. of dolls.	1,013	1,111	1,120	950	716	1,850	1,718	-24.6	-58.3	7,410	8,897	+47.4	
Cancellations.....thous. of dolls.	20	12	64	46	31	29	30	-32.6	+3.3	166	153	-7.8	
Unfilled orders, end of mo. thous. of dolls.	1,208	1,347	1,488	1,101	763	2,839	582	-30.7	-70.4				
Shipments.....thous. of dolls.	1,074	967	934	1,290	1,026	1,560	2,130	-20.5	-51.8	6,600	4,217	-36.1	
Shipments.....number of machines	754	759	536	833	603	1,179	1,420	-27.6	-57.5	4,600	2,731	-40.6	
Electric industrial trucks and tractors:													
Shipments, domestic—													
Total.....number of vehicles	124	123	106	109	101	201	182	-7.3	-44.2	646	439	-32.0	
Exports.....number of vehicles	27	17	7	14	5	10	13	-64.3	-61.5	45	43	-4.4	
Fire-extinguishment, shipments:													
Motor vehicles.....number	127	91	82	94	92	107	108	-2.1	-14.8	381	359	-5.8	
Hand types.....number	34,330	43,651	47,096	44,168	57,983	55,303	58,696	+31.3	-1.2	206,983	192,898	-6.8	
Oil burners:													
Shipments, total.....number of burners	4,780	3,469	2,954	3,376	3,923	4,137	3,903	+16.2	+0.5	14,190	13,722	-3.3	
Stocks, end of mo. number of burners	5,938	5,445	6,349	6,568	6,386	4,898	5,880	-2.8	+8.6				
New orders.....number of burners	3,933	3,481	3,479	3,182	3,718	4,510	4,596	+16.8	-19.1	15,815	13,860	-12.4	
Unfilled orders, end of mo. number of burners	919	931	1,456	1,262	1,057	1,783	2,476	-16.2	-57.3				
Patents issued:													
Total, all classes.....number	4,634	3,163	3,592	3,349	4,645	3,357	4,267	+38.7	+8.9	14,586	14,749	+1.1	
Agricultural implements.....number	49	40	38	56	60	42	62	+7.1	-3.2	192	194	+1.0	
Internal-combustion engines.....number	62	42	57	81	73	50	54	-9.9	+35.2	203	253	+24.6	
<b>NONFERROUS METALS</b>													
<b>Copper</b>													
Production:													
Mines.....short tons	74,772	67,838	59,196	61,216	60,338	93,698	94,902	-1.4	-3.64	350,660	248,588	-30.9	
Smelter.....short tons	89,789	84,451	74,094	78,514	76,777	107,253	110,313	-2.2	-30.4	413,951	313,836	-24.2	
Refined (N. and S. America).....short tons	138,203	132,374	121,195	127,064	124,513	163,561	161,285	-2.0	-22.8	620,703	505,164	-18.6	
World production, blister.....short tons	165,728	154,331	139,629	148,005	143,798	192,792	196,820	-2.8	-26.9	735,485	585,763	-20.4	
Domestic shipments, refined.....short tons	58,150	69,932	61,879	73,644	50,017	105,860	99,051	-32.1	-49.5	403,817	255,472	-36.7	
Exports.....short tons	28,807	24,808	24,427	20,034	24,796	43,745	45,842	+23.8	-45.9	192,006	94,065	-51.0	
Stocks (N. and S. America), end of mo.:													
Refined.....short tons	171,320	203,404	233,123	256,020	301,338	52,968	57,494	+17.7	+424.1				
Blister.....short tons	268,406	270,209	264,249	266,561	268,675	242,341	253,509	+0.8	+6.0				
Wholesale price, electrolytic.....dolls. per lb.	.1778	.1778	.1778	.1778	.1562	.2126	.1950	-12.1	-19.9				

\* Revised.



## TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in-crease (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>													
<b>NONFERROUS METALS—Continued</b>													
<b>Tin</b>													
Deliveries (consumption)..... long tons..	5,740	5,815	4,940	8,675	6,780	8,175	8,435	-21.8	-19.6	32,155	26,210	-18.5	
Stocks, end of month:													
World visible supply..... long tons..	28,140	29,032	33,581	32,972	36,595	26,632	26,353	+11.0	+38.9				
United States..... long tons..	2,820	3,081	3,626	3,566	5,687	2,550	3,603	+59.5	+57.8				
Imports..... long tons..	5,253	7,079	5,460	8,589	8,209	7,435	8,838	-4.4	-7.1	33,096	29,337	-11.4	
Wholesale price, Straits, N. Y. ....dolls. per lb..	.3979	.3891	.3867	.3681	.3607	.4885	.4597	-2.0	-21.5				
<b>Zinc</b>													
Retorts in operations, end of month.....number..	57,375	58,849	57,289	50,412	49,150	67,519	73,319	-2.5	-33.0				
Production..... short tons..	48,590	51,133	44,924	47,573	43,080	55,471	54,653	-9.4	-21.2	207,987	186,710	-10.2	
Stocks, end of month..... short tons..	77,262	87,933	90,703	94,033	96,453	37,962	34,588	+2.6	+178.9				
Ore, Joplin district:													
Shipments..... short tons..	39,641	38,031	35,095	51,611	27,214	72,206	54,821	-47.3	-50.4	226,652	151,951	-33.0	
Stocks, mines, end of month..... short tons..	47,637	29,313	25,531	21,950	28,486	20,969	26,448	+29.8	+7.7				
Price, slab, prime western.....dolls. per lb..	.0567	.0523	.0518	.0493	.0484	.0646	.0666	-1.8	-27.3				
<b>Lead</b>													
Production..... short tons..	55,025	48,308	51,362	56,541	52,074	59,298	62,476	-7.9	-16.6	228,635	208,285	-8.9	
Ore shipments:													
Joplin district..... short tons..	6,434	2,847	3,477	6,770	2,450	13,329	11,615	-63.8	-78.9	39,970	15,544	-61.1	
Utah..... short tons..	76,421	87,569	69,489	66,473	64,966	101,763	75,935	-2.3	-14.4	320,392	288,497	-10.0	
Receipts in U. S. Ore..... short tons..	53,286	47,862	49,009	57,441		57,197	57,449			162,032	154,312	-4.8	
Stocks, U. S. and Mexico, end mo. ....short tons..	151,586	149,403	140,845	144,414		158,149	156,888						
Price, pig, desilverized, N. Y. ....dolls. per lb..	.0625	.0625	.0624	.0566	.0543	.0745	.0719	-4.1	-24.5				
<b>Other Metal Products</b>													
<b>Babbitt metal, consumption:</b>													
Total apparent..... thous. of lbs..	3,343	4,408	3,427	5,052	3,868	6,466	6,046	-23.4	-36.0	24,325	16,755	-31.1	
Direct by producers..... thous. of lbs..	949	1,003	901	1,012	1,030	1,346	1,189	+1.8	-13.4	4,777	3,946	-17.4	
Sale to consumers..... thous. of lbs..	2,394	3,405	2,526	4,039	2,839	5,120	4,857	-29.7	-41.5	19,549	12,809	-34.5	
<b>Copper wire cloth:</b>													
Production..... thous. of sq. ft..	437	486	423	421	418	473	509	-0.7	-17.9	1,854	1,748	-5.7	
Shipments..... thous. of sq. ft..	377	437	351	395	395	439	441	0.0	-10.4	1,597	1,578	-1.2	
Stocks, end of month..... thous. of sq. ft..	1,021	1,051	1,099	1,108	1,130	1,085	1,137	+2.0	-0.6				
New orders..... thous. of sq. ft..	336	435	423	342	453	247	247	+32.5	+83.4	2,205	1,653	-25.0	
Unfilled orders, end of mo. ....thous. of sq. ft..	402	246	303	243	220	789	497	-9.5	-55.7				
Make and hold orders, end of month..... thous. of sq. ft..	546	485	561	564	555	743	689	-1.6	-19.4				
<b>Pails and tubs, galvanized:</b>													
Production..... dozens..	112,962	145,588	119,739	135,178	131,015	211,252	165,155	-3.1	-20.7	678,532	531,520	-21.7	
Shipments..... dozens..	107,733	154,731	129,853	135,602	120,552	211,516	171,722	-11.1	-29.8	719,796	540,738	-24.9	
<b>Other galvanized ware:</b>													
Production..... dozens..	33,114	33,982	35,121	37,963	44,058	50,055	55,778	+16.1	-21.0	206,953	151,124	-27.0	
Shipments..... dozens..	25,441	29,165	31,536	38,160	44,276	49,549	55,632	+16.0	-20.4	185,406	143,137	-22.8	
<b>Enameled sheet-metal ware:</b>													
Shipments..... dozen pieces..	391,523	332,146	331,915	341,372	318,431	449,425	463,577	-6.7	-31.3	1,731,450	1,323,864	-23.5	
<b>Electrical Equipment</b>													
<b>Electrical porcelain, shipments:</b>													
Standard..... dollars..	58,354	135,413	87,952	69,511		105,716	109,558			349,328	292,876	-16.2	
Special..... dollars..	121,308	127,830	116,754	136,901		185,908	148,280			458,232	381,485	-16.7	
Glazed nail knobs..... thous. of pieces..	1,750	4,454	2,701	3,146		3,683	3,821			11,797	10,301	-12.7	
Unglazed nail knobs..... thous. of pieces..	1,186	2,309	1,863	1,232		2,576	2,458			7,585	5,404	-28.8	
Tubes..... thous. of pieces..	717	1,627	1,291	1,093		1,380	1,345			4,759	4,011	-15.7	
<b>Laminated phenolic products, shipments:</b>													
Motors (direct current):													
New orders..... dollars..	999,790	910,301	878,612	833,183		942,665	1,258,364			2,691,934	2,622,096	-2.6	
Billings (shipments)..... dollars..	907,048	800,654	755,074	942,556		708,848	922,220			2,207,996	2,498,284	+13.1	
Power switching equipment, new orders:													
Indoor..... dollars..	146,189	159,869	135,513	155,095		162,578	200,564			445,954	450,477	+1.0	
Outdoor..... dollars..	364,769	464,069	346,035	465,117		521,874	400,397			1,217,606	1,275,221	+4.7	
Outlet boxes and covers, shipments..... pieces..	1,465,610	2,448,375	1,921,846	1,949,055	2,217,558	2,688,191	3,005,179	+13.8	-26.2	11,136,056	8,536,834	-23.3	
<b>Vulcanized fiber:</b>													
Shipments, total..... thous. of dolls..	599	723	613	614		828	812			2,354	1,950	-17.2	
Consumption, sales..... thous. of lbs..	2,770	2,770	2,492	2,405		3,006	3,144			9,511	7,667	-19.4	
Industrial reflectors, sales..... units..	132,476	130,309	106,021	108,210	107,040	134,751	126,948	-1.1	-15.7	548,036	451,640	-17.6	
<b>Welding sets, new orders:</b>													
Single operator..... units..	247	256	280	251		443	371			1,052	787	-25.2	
Multiple operator..... units..	9	1	5	5		7	7			22	11	-50.0	
Nonmetallic conduits, shipments..... thous. of ft..	4,727	6,110	4,383	8,505	7,660	6,397	6,829	-9.9	+12.2	25,749	26,658	+3.5	
Electric furnaces, new orders..... kilowatts..	2,991	6,630	4,015	2,620	12,458	7,218	14,542	+375.5	-14.3	44,621	27,723	-37.9	
<b>Mica, manufactured:</b>													
Shipments..... thous. of dolls..	149	227	206	199	241	335	292	+21.1	-17.5	1,201	873	-27.3	
Unfilled orders, end of mo. ....thous. of dolls..	224	219	230	196	178	308	332	-9.2	-46.4				
<b>Delinquent accounts, electrical trade:</b>													
Amount..... dollars..	184,652	240,428	233,176	223,048	203,572	207,896	199,949	-8.7	+1.8				
Delinquent firms..... number..	1,170	1,486	1,465	1,526	1,493	1,351	1,279	-2.2	+16.7				
<b>AUTOMOBILES</b>													
<b>Production:</b>													
<b>United States—</b>													
Total..... number of cars..	120,007	275,507	347,071	401,382	442,630	585,455	621,910	+10.3	-28.8	2,074,820	1,466,590	-29.3	
Passenger cars..... number of cars..	91,011	236,279	296,595	335,789	374,606	511,577	535,878	+11.6	-30.1	1,797,063	1,243,269	-30.8	
Taxicabs..... number of cars..	1,483	572	1,022	1,389	565	2,079	1,686	-59.3	-66.5	7,937	3,548	-55.3	
Trucks..... number of cars..	27,513	38,562	49,454	64,204	67,459	71,799	84,346	+5.1	-20.0	269,820	219,773	-18.5	
<b>Canada—</b>													
Total..... number of cars..	5,495	10,388	15,548	20,730	24,257	40,621	41,901	+17.0	-42.1	135,310	70,923	-47.6	
Passenger cars..... number of cars..	4,426	8,856	13,021	17,165	20,872	32,833	34,392	+21.6	-39.3	109,973	59,914	-45.5	
Trucks..... number of cars..	1,069	1,532	2,527	3,565	3,385	7,788	7,509	-5.0	-54.9	25,337	11,009	-56.5	

\*Cumulative through Mar. 31.

\*Revised

## TREND OF BUSINESS MOVEMENTS—Continued

	1929					1930					PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in-crease (+) or de-crease (-) cumulative 1930 from 1929	
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930					
<b>AUTOMOBILES—Continued</b>																
<b>Exports (assembled):</b>																
<b>From United States—</b>																
Total.....number of cars.....	24,741	28,169	25,482	31,090	35,238	76,382	64,437	+13.3	-45.3	233,542	119,979	-48.6				
Passenger cars.....number of cars.....	13,831	15,293	18,732	22,129	23,777	51,504	47,732	+7.4	-50.2	159,120	79,931	-49.8				
Trucks.....number of cars.....	10,910	12,876	6,750	8,961	11,461	24,878	16,705	+27.9	-31.4	74,422	40,048	-46.2				
<b>From Canada—</b>																
Total.....number of cars.....	4,866	2,953	4,237	6,308	3,272	15,528	6,586	-48.1	-50.3	41,934	16,770	-60.0				
Passenger cars.....number of cars.....	3,015	1,317	2,498	5,029	2,304	10,194	4,164	-54.2	-44.7	27,692	11,148	-59.7				
Trucks.....number of cars.....	1,851	1,636	1,739	1,279	968	5,334	2,422	-24.3	-60.0	14,242	5,622	-60.5				
<b>Sales (General Motors Co.):</b>																
<b>Total to dealers, incl. Canadian and overseas.....number of cars.....</b>																
	40,222	106,509	126,196	135,930	150,661	220,391	227,718	+10.8	-33.8	750,837	519,296	-30.8				
<b>To consumers, U. S.....number of cars.....</b>																
	74,167	88,742	88,742	123,781	142,004	166,942	173,201	+14.7	-18.0	524,280	428,694	-18.2				
<b>To dealers, U. S.....number of cars.....</b>																
	94,458	110,904	110,904	118,081	132,365	176,510	176,634	+12.1	-25.1	589,807	455,808	-22.7				
<b>Accessories and parts, shipments:</b>																
Original equipment.....rel. to Jan., 1925.....	34	135	141	167	175	275	287	+4.8	-39.0							
Replacement parts.....rel. to Jan., 1925.....	132	137	131	139	150	148	174	+7.9	-13.8							
Accessories.....rel. to Jan., 1925.....	90	79	66	67	74	85	91	+10.4	-18.7							
Service parts.....rel. to Jan., 1925.....	119	135	151	175	180	224	227	+2.9	-20.7							
Rim production.....thous. of rims.....	879	1,601	1,653	2,062	2,340	2,613	2,730	+13.5	-14.3	9,443	7,656	-18.9				
<b>New passenger-car registration:</b>																
Total.....Number of cars.....	138,732	180,094	211,645	298,904		377,802										
<b>FUELS</b>																
<b>Coal and Coke</b>																
<b>Bituminous:</b>																
<b>Production—</b>																
United States.....thous. of short tons.....	46,814	49,778	39,555	35,733	35,860	39,870	37,380	+0.4	-4.1	176,606	160,966	-8.9				
Canada.....thous. of short tons.....	1,488	1,630	1,185	1,130		1,370	1,393									
Exports.....thous. of long tons.....	1,084	953	835	726	858	878	851	+18.2	+0.8	3,645	3,372	-7.5				
<b>Consumption—</b>																
By vessels.....thous. of long tons.....	268	283	263	278	292	283	361	+5.0	-19.1	1,195	1,116	-6.6				
By electric-power plants.....thous. of short tons.....	4,025	4,006	4,418	4,441	3,233	3,576	3,415	-6.0	-5.3	14,850	14,098	-5.1				
By railroads.....thous. of short tons.....	8,011	8,210	7,117	7,376		8,183	7,393			25,064	22,703	-9.4				
<b>By coke plants—</b>																
United States.....thous. of short tons.....	6,575	6,588	6,248	6,841	6,645	7,486	7,156	-2.9	-7.1	28,256	26,322	-6.8				
Canada.....thous. of short tons.....	317	312	281	309		315	306									
<b>Stocks, end of month, held by consumers.....thous. of short tons.....</b>																
	40,300	37,700		33,100		36,900										
<b>Prices—</b>																
Mineaver. (spot).....dolls. per short ton.....	1.88	1.86	1.79	1.74	1.76	1.78	1.69	+1.1	+4.1							
Wholesale, comp.....dolls. per short ton.....	3.980	3.982	3.951	3.911	3.901	4.000	3.912	-0.3	-0.3							
Retail, composite.....dolls. per short ton.....	9.05	9.11	9.04	9.32	8.84	9.06	8.76	-5.2	+0.9							
<b>Anthracite:</b>																
Production.....thous. of short tons.....	7,658	7,038	6,157	4,551	4,916	5,044	4,441	+8.0	-23.7	25,492	22,662	-11.1				
Exports.....thous. of long tons.....	313	271	262	149	123	151	169	-17.4	-23.1	883	805	-8.8				
<b>Stocks, end of mo. in yards of dealers.....no. of days.....</b>																
	44	35		31		34	55									
<b>Prices—</b>																
Wholesale, comp.....dolls. per long ton.....	12.999	13.033	13.033	13.033	12.887	13.077	12.654	-1.1	+1.8							
Retail, composite.....dolls. per long ton.....	15.00	15.00	15.00	15.00	14.99	15.07	14.71	-0.1	+1.9							
<b>Coke:</b>																
<b>Production, U. S.—</b>																
Beehive.....thous. of short tons.....	345	309	281	291	392	534	468	+3.8	-35.5	1,921	1,183	-38.4				
By-product.....thous. of short tons.....	4,181	4,196	4,004	4,394	4,246	4,613	4,457	-3.4	-4.7	17,520	16,840	-3.9				
Production, Canada.....thous. of short tons.....	222	225	204	224		228	220									
Exports.....thous. of long tons.....	111	101	75	58	73	87	60	+25.9	+21.7	327	307	-6.1				
<b>Price, furnace, Connellsville.....dolls. per short ton.....</b>																
	2.64	2.59	2.60	2.60	2.60	2.99	2.81	0.0	-7.5							
<b>Petroleum</b>																
<b>Crude petroleum:</b>																
Production.....thous. of bbls.....	80,339	79,453	74,427	77,384	77,175	82,515	80,110	-0.3	-3.7	320,297	308,439	-3.7				
<b>Stocks at end of month—</b>																
Total (comparable).....thous. of bbls.....	381,391	379,826	381,306	380,007	379,875	379,659	380,706	0.0	-0.2							
<b>Tank farms and pipe lines.....thous. of bbls.....</b>																
	335,084	335,318	335,728	334,082	332,487	333,110	332,691	-0.5	-0.1							
Refineries.....thous. of bbls.....	46,307	44,508	45,578	45,925	47,388	46,549	48,015	+3.2	-1.3							
<b>California—</b>																
Light.....thous. of bbls.....	41,044	41,868	44,241	44,710	44,166	25,167	27,774	-1.2	+59.0							
Heavy.....thous. of bbls.....	106,499	107,123	107,739	107,414	105,636	100,255	101,128	-1.7	+4.5							
Imports.....thous. of bbls.....	5,887	5,450	4,321	4,827	5,781	6,790	7,828	+20.0	-26.1	29,709	20,379	-31.4				
Consumption (run to stills).....thous. of bbls.....	80,663	80,163	72,414	80,253	80,434	80,708	80,459	+0.2	0.0	312,023	313,264	+0.4				
Refinery operations.....per ct. of capacity.....	72	71	71	71	73	78	80	+2.8	-8.7							
Price, Kansas-Oklahoma.....dolls. per bbl.....	1.300	1.229	1.181	1.110	1.163	1.110	1.110	+4.8	+4.8							
Oil wells completed.....number.....	1,060	1,020	969	1,090	1,151	1,081	1,163	+5.6	-1.0	4,445	4,270	-3.9				
<b>Mexico—</b>																
Production.....thous. of bbls.....	3,926	3,719	3,271			3,526	3,504									
Export.....thous. of bbls.....	1,705	1,517	1,648			2,169	2,150									
<b>Venezuela—</b>																
Production.....thous. of bbls.....	12,182	11,518	10,809	11,920		10,694	11,351			32,541	34,337	+5.5				
Exports.....thous. of bbls.....	11,929	10,781	10,266	10,821		9,438	9,661			28,452	31,868	+12.0				
<b>Gasoline:</b>																
<b>Production—</b>																
Raw (at refineries).....thous. of bbls.....	37,464	36,654	33,949	37,727	38,157	34,829	34,636	+1.1	+10.2	135,064	146,487	+8.5				
Natural gas (at plants).....thous. of bbls.....	4,457	4,410	4,248	4,576	4,429	4,324	4,264	-3.2	+3.9	16,307	17,663	+8.3				
Exports.....thous. of bbls.....	5,890	5,291	4,809	5,735	5,662	4,609	4,518	-1.3	+25.3	17,430	21,497	+23.3				
Consumption.....thous. of bbls.....	26,881	25,731	26,509	31,029	34,549	27,495	32,019	+11.3	+7.9	105,217	117,818	+12.0				
<b>Stocks, end of month—</b>																
Raw (at refineries).....thous. of bbls.....	43,132	49,676	53,229	55,239	54,435	48,224	47,039	-1.5	+15.7							
Natural gas (at plants).....thous. of bbls.....	604	611	672	673	709	995	1,166	+5.3	-39.2							
Retail distribution, 41 States.....thous. of gals.....	850,147	728,102				809,483	894,014									

\* Cumulative through Mar. 31.

† Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>FUELS—Continued</b>													
<b>Petroleum—Continued</b>													
<b>Gasoline—Continued.</b>													
<b>Prices—</b>													
Wholesale, New York...dolls. per gal.	0.165	0.165	0.158	0.143		0.170	0.170						
Retail, wagon, 50 cities.dolls. per gal.	.155	.154	.145	.143	0.152	.149	.150	+6.3	+1.3				
<b>Kerosene:</b>													
Production.....thous. of bbls.	4,848	4,489	4,398	4,762	4,435	4,515	4,434	-6.7	0.0	18,084	18,074	-0.1	
Exports.....thous. of bbls.	1,676	1,938	1,198	1,730	1,529	1,872	1,620	-11.6	-5.6	6,970	6,395	-8.2	
Consumption.....thous. of bbls.	3,513	2,997	3,205	3,118	3,240	2,976	3,156	+3.9	+2.7	12,607	12,560	-0.4	
Stocks at refineries, end mo.thous. of bbls.	9,039	8,571	8,565	8,455	8,068	7,855	7,497	-4.6	+7.6				
Price, 150° water white.....dolls. per gal.	.067	.064	.062	.064	.063	.077	.084	-1.6	-25.0				
<b>Gas and fuel oils:</b>													
Production.....thous. of bbls.	36,261	33,213	31,185	32,111	32,236	37,456	37,533	+0.4	-14.1	146,158	128,745	-11.9	
<b>Consumption—</b>													
By vessels.....thous. of bbls.	4,100	4,223	4,065	4,077	4,234	4,183	4,179	+3.9	+1.3	16,529	16,599	+0.4	
By electric pow. plants.thous. of bbls.	1,112	1,095	4,706	4,633	588	743	647	-7.1	-9.1	3,189	3,022	-5.2	
By railroads.....thous. of bbls.	4,413	4,556	4,065	4,328		4,467	4,266			13,176	12,949	-1.7	
Stocks at refineries, end mo.thous. of bbls.	34,425	35,873	34,280	32,998	33,650	30,195	33,404	+2.0	+0.7				
Price, Okla. 24-26, refineries.dolls. per bbl.	.920	.950	.913	.805	.788	.675	.665	-2.1	+18.5				
<b>Lubricating oil:</b>													
Production.....thous. of bbls.	2,765	2,880	2,727	3,120	3,193	2,943	2,899	+2.3	+10.1	11,299	11,920	+5.5	
Consumption.....thous. of bbls.	1,716	1,288	1,525	2,122	2,116	1,581	2,442	-0.3	-13.3	7,295	7,051	-3.3	
Stocks at refineries, end mo.thous. of bbls.	8,269	8,956	9,289	9,561	9,649	8,853	8,527	+0.9	+13.2				
Price, cylinder oil.....dolls. per gal.	.362	.351	.345	.345	.343	.293	.363	-0.6	-5.5				
<b>Asphalt:</b>													
Production.....thous. of short tons.	188	191	181	210	273	228	283	+30.0	-3.5	907	855	-5.7	
Stocks, end of month.thous. of short tons.	240	244	261	288	293	250	249	+1.7	+17.7				
Imports.....thous. of short tons.	10	5	3	7	1	3	6	-85.7	-83.3	31	16	-48.4	
<b>Coke:</b>													
Production.....thous. of short tons.	171	146	140	161	151	129	131	-6.2	+15.3	525	598	+13.9	
Stocks, end of month.....thous. of short tons.	745	741	756	786	817	402	445	+3.9	+82.8				
<b>Wax:</b>													
Production.....thous. of lbs.	49,104	52,360	50,960	61,320	54,040	56,372	57,976	-11.9	-6.8	223,260	218,680	-2.1	
Stocks, end of mo.....thous. of lbs.	187,990	206,249	213,487	232,241	241,853	158,404	170,687	+4.1	+41.7				
<b>RUBBER</b>													
<b>Crude Rubber</b>													
World shipments, plantation.....long tons.	74,748	77,291	74,909			71,644	73,547						
Imports (including latex).....long tons.	43,232	47,904	42,998	45,254	45,648	50,610	55,730	+0.9	-18.1	228,212	181,804	-20.3	
Consumption by tire mfrs.....thous. of lbs.	26,728	42,108	40,379	43,911		61,335	65,673						
<b>World stocks, end of month:</b>													
World total.....long tons.	307,670	334,809	358,131			262,676	266,379						
United States.....long tons.	106,138	120,649	131,748			100,537	107,659						
Europe.....long tons.	75,432	82,417	87,357			33,484	36,789						
Producing countries.....long tons.	36,200	36,915				32,955	30,731						
Afloat.....long tons.	90,840	94,828				95,700	91,200						
<b>Consumption (quarterly):</b>													
Total.....long tons.	278,082			293,481		118,280							
For tires.....long tons.	261,584			277,280		102,091							
<b>Stocks, end of quarter:</b>													
Total.....long tons.	2103,120			2137,410		95,110							
Manufacturers.....long tons.	261,525			282,223		65,615							
Dealers.....long tons.	241,595			255,187		29,495							
Afloat.....long tons.	252,350			253,928		51,336							
<b>Wholesale price, smoked sheets,</b>													
New York.....dolls. per pound.	.160	.150	.158	.153	.150	.244	.211	-2.0	-28.9				
<b>Tires and Tubes</b>													
<b>Pneumatic tires:</b>													
Production.....thousands.	2,446	3,589	3,645	3,891	4,495	5,639	5,913	+15.5	-24.0	21,778	15,620	-28.3	
Stocks, end of month.....thousands.	9,470	9,539	9,929	10,010	10,599	12,264	12,697	+5.9	-16.5				
<b>Shipments—</b>													
Domestic.....thousands.	2,448	3,348	3,150	3,587	3,655	4,804	5,242	+1.9	-30.3	18,517	13,740	-25.8	
Export.....thousands.	142	178	206	186	175	227	229	-5.9	-23.6	916	745	-18.7	
<b>Inner tubes:</b>													
Production.....thousands.	2,787	3,685	3,707	3,953	4,383	5,600	5,726	+10.9	-23.5	21,291	15,728	-26.1	
Stocks, end of month.....thousands.	10,245	10,163	10,429	10,543	10,951	13,313	13,601	+3.9	-19.5				
<b>Shipments—</b>													
Domestic.....thousands.	2,620	3,778	3,344	3,682	3,750	4,889	5,220	+1.8	-28.2	19,195	14,554	-24.2	
Export.....thousands.	103	107	126	99	101	164	153	+2.0	-34.0	620	433	-30.2	
<b>Solid and cushion:</b>													
Production.....thousands.	28	25	22	19	17	36	39	-10.5	-56.4	137	83	-39.4	
Stocks, end of month.....thousands.	122	127	128	123	117	143	139	-4.9	-15.8				
<b>Shipments—</b>													
Domestic.....thousands.	19	20	19	22	22	38	40	0.0	-45.0	139	83	-40.3	
Export.....thousands.	2	2	2	2	2	2	3	0.0	-33.3	9	8	-11.1	
<b>Other Rubber Products</b>													
<b>Reclaimed rubber (quarterly):</b>													
Production.....long tons.	239,635			242,437		53,552							
Stocks, end of quarter.....long tons.	222,220			219,519		17,727							
<b>Scrap rubber (quarterly):</b>													
Stocks at reclaimers.....long tons.	275,251			264,968		59,135							
Consumption by reclaimers.....long tons.	252,502			251,919		71,001							
<b>Rubber-proofed fabrics, production:</b>													
Total.....thous. of yds.	2,291	3,281	3,441	3,570	4,029	3,952	4,000	-12.8	+0.7	13,808	14,321	+3.7	
Auto fabrics.....thous. of yds.	488	966	885	727	1,368	878	917	+85.2	+49.2	3,292	3,946	+19.9	
All other.....thous. of yds.	882	1,076	1,081	1,211	1,071	1,344	1,194	-11.6	-10.3	4,790	4,439	-	
Raincoat fabrics.....thous. of yds.	921	1,239	1,475	1,632	1,590	1,730	1,889	-2.6	-15.8	5,726	5,936	+	

<sup>2</sup> Quarter ending in month indicated.<sup>3</sup> Cumulative through Mar. 31.<sup>4</sup> Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929	
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930			
												1929		1930
<b>RUBBER—Continued</b>														
<b>Other Rubber Products—Continued</b>														
Rubber heels:														
Production.....thous. of pairs.....	14,781	15,470	14,172	15,439	-----	17,226	17,256	-----	-----	-----	3 56,180	3 45,081	-19.8	
Shipments—														
To shoe manufacturers.....thous. of pairs.....	8,639	10,989	8,837	8,458	-----	8,798	11,028	-----	-----	-----	3 31,861	3 28,284	-11.2	
To repair trade.....thous. of pairs.....	4,148	5,106	6,511	7,189	-----	7,925	6,506	-----	-----	-----	3 21,471	3 18,806	-12.4	
For export.....thous. of pairs.....	956	1,049	1,031	956	-----	1,230	1,072	-----	-----	-----	3 3,710	3 3,036	-18.2	
Stocks, end of month.....thous. of pairs.....	41,544	40,528	38,250	36,546	-----	49,571	47,209	-----	-----	-----	-----	-----	-----	
Rubber soles:														
Production.....thous. of pairs.....	3,003	3,496	2,338	2,582	-----	2,746	2,601	-----	-----	-----	3 9,491	3 8,416	-11.3	
Shipments—														
To shoe manufacturers.....thous. of pairs.....	2,372	3,261	1,973	2,055	-----	1,862	1,967	-----	-----	-----	3 7,013	3 7,289	+3.9	
To repair trade.....thous. of pairs.....	449	491	392	407	-----	705	623	-----	-----	-----	3 2,321	3 1,290	-44.4	
For export.....thous. of pairs.....	88	138	56	54	-----	34	23	-----	-----	-----	3 224	3 248	+10.7	
Stocks, end of month.....thous. of pairs.....	3,545	3,227	3,171	3,349	-----	4,243	4,184	-----	-----	-----	-----	-----	-----	
Mechanical rubber goods:														
Shipments—														
Total.....thous. of dolls.....	4,751	5,169	5,376	5,981	-----	7,013	7,035	-----	-----	-----	3 19,181	3 16,526	-13.8	
Belting.....thous. of dolls.....	1,086	1,150	1,281	1,379	-----	1,546	1,688	-----	-----	-----	3 4,264	3 3,810	-10.6	
Hose.....thous. of dolls.....	1,895	2,034	2,190	2,500	-----	2,753	2,730	-----	-----	-----	3 7,402	3 6,724	-9.2	
All other.....thous. of dolls.....	1,770	1,984	1,905	2,101	-----	2,735	2,636	-----	-----	-----	3 7,537	3 5,990	-20.5	
Rubber bands, shipments.....thous. of lbs.....	189	226	230	248	-----	197	231	-----	-20.6	-14.7	-----	978	901	-7.9
Rubber flooring, shipments.....thous. of sq. ft.....	618	459	530	533	-----	570	603	-----	+6.9	-4.4	-----	2,049	2,092	+2.1
Calendered rubber clothing:														
Production.....no. coats and sundries.....	49,093	56,949	64,934	78,858	-----	86,471	77,740	-----	+9.7	-5.2	-----	286,888	287,212	+0.1
Net orders.....no. coats and sundries.....	16,095	31,638	39,568	97,612	-----	89,862	32,967	-----	-7.9	-12.3	-----	197,180	258,680	+31.2
<b>HIDES AND LEATHER</b>														
<b>Hides</b>														
Imports:														
Total hides and skins.....thous. of lbs.....	41,932	39,094	35,116	40,097	50,966	34,063	39,505	+27.1	+29.0	-----	144,166	165,273	+14.6	
Calfskins.....thous. of lbs.....	2,624	2,953	2,318	2,408	2,815	1,462	3,379	+16.9	-16.7	-----	9,400	10,494	+11.6	
Cattle hides.....thous. of lbs.....	26,060	19,145	18,885	21,109	31,007	16,161	16,155	+46.5	+91.9	-----	69,997	90,206	+28.9	
Goatskins.....thous. of lbs.....	6,293	6,728	6,087	9,670	7,827	8,768	10,869	-19.1	-28.0	-----	33,389	30,292	-9.7	
Sheepskins.....thous. of lbs.....	3,350	5,473	3,715	2,971	6,180	4,892	6,406	+108.2	-3.4	-----	20,143	18,345	-8.9	
Stocks, end of month:														
Total hides and skins.....thous. of lbs.....	269,892	269,925	265,248	268,158	-----	240,740	246,359	-----	-----	-----	-----	-----	-----	
Cattle hides.....thous. of lbs.....	220,509	221,718	216,251	218,308	-----	203,947	206,248	-----	-----	-----	-----	-----	-----	
Calf and kip skins.....thous. of lbs.....	26,584	25,480	25,626	25,478	-----	20,265	22,058	-----	-----	-----	-----	-----	-----	
Sheep and lamb skins.....thous. of lbs.....	22,799	22,727	23,371	24,372	-----	16,528	18,053	-----	-----	-----	-----	-----	-----	
Prices:														
Green salted, packers' heavy native steers.....dolls. per lb.....	.160	.163	.148	.142	.140	.145	.149	-1.4	-6.0	-----	-----	-----	-----	
Calfskins, country, No. 1.....dolls. per lb.....	.174	.176	.164	.156	.159	.187	.183	+1.9	-13.1	-----	-----	-----	-----	
Inspected slaughter of livestock:														
United States—														
Cattle.....thous. of animals.....	658	713	561	615	635	632	662	+3.3	-4.1	-----	2,599	2,524	-2.9	
Calves.....thous. of animals.....	346	374	329	388	455	409	460	+17.3	-1.1	-----	1,549	1,546	-0.2	
Swine.....thous. of animals.....	5,083	5,001	4,034	3,392	3,480	3,645	3,761	+2.6	-7.5	-----	17,622	15,907	-9.7	
Sheep.....thous. of animals.....	1,091	1,225	1,187	1,358	1,387	1,006	1,119	+2.1	+23.9	-----	4,228	5,157	+22.0	
Canada—														
Cattle and calves.....thous. of animals.....	71	68	57	74	100	74	105	+35.1	-4.8	-----	307	299	-2.6	
Swine.....thous. of animals.....	221	207	168	168	162	215	208	-3.6	-22.1	-----	880	705	-19.9	
Sheep.....thous. of animals.....	50	31	20	24	27	21	19	+12.5	+42.1	-----	96	102	+6.3	
<b>Leather</b>														
Sole and belting leather:														
Production—														
Sole only.....thous. of backs, bends, sides.....	1,235	1,359	1,239	1,293	1,326	1,140	1,185	+2.6	+11.9	-----	3 4,711	3 5,217	+10.7	
Sole and belting.....thous. of lbs.....	23,894	25,444	23,552	24,451	-----	22,191	23,119	-----	-----	-----	67,071	73,447	+9.5	
Stocks, end of month—														
In process of tanning.....thous. of lbs.....	84,197	84,624	84,709	84,300	-----	79,524	79,487	-----	-----	-----	-----	-----	-----	
Finished.....thous. of lbs.....	64,084	65,846	67,452	69,876	-----	78,772	76,444	-----	-----	-----	-----	-----	-----	
Exports.....thous. of sq. ft.....	500	757	430	579	450	1,336	1,080	-22.3	-58.3	-----	4,199	2,216	-47.2	
Price oak, scoured backs.....dolls. per lb.....	.52	.50	.49	.49	.47	.55	.55	-4.1	-4.1	-----	-----	-----	-----	
Upper leather:														
Production.....thous. of sq. ft.....	72,672	68,296	63,220	68,875	-----	66,132	65,152	-----	-----	-----	3 195,510	3 200,391	+2.5	
Stocks, end of month—														
In process of tanning.....thous. of sq. ft.....	143,576	146,077	144,022	139,763	-----	133,335	130,430	-----	-----	-----	-----	-----	-----	
Finished.....thous. of sq. ft.....	244,428	246,185	249,806	256,867	-----	249,373	246,992	-----	-----	-----	-----	-----	-----	
Exports.....thous. of lbs.....	7,776	8,763	8,320	10,375	8,684	11,991	10,818	-16.3	-19.7	-----	43,171	36,142	-16.3	
<b>Leather Products</b>														
Shoes:														
Production.....thous. of pairs.....	22,475	26,534	25,898	28,554	-----	30,900	29,382	-----	-----	-----	4 85,853	4 80,986	-5.7	
Exports.....thous. of pairs.....	294	290	189	293	275	435	372	-6.1	-26.1	-----	1,597	1,047	-34.4	
Wholesale prices—														
Men's black calf blucher, Boston.....dolls. per pair.....	6.75	6.75	6.75	6.75	6.75	6.75	6.75	0.0	0.0	-----	-----	-----	-----	
Men's dress welt, tan calf oxford, St. Louis.....dolls. per pair.....	4.85	4.85	4.85	4.85	4.85	4.85	4.85	0.0	0.0	-----	-----	-----	-----	
Women's black kid, dress welt lace oxford.....dolls. per pair.....	4.25	4.25	4.25	4.25	4.25	4.25	4.25	0.0	0.0	-----	-----	-----	-----	
Gloves, cut.....dozen pairs.....	213,861	265,407	280,143	264,372	251,140	256,691	258,301	-5.0	-2.8	-----	969,934	1,061,062	+9.4	

3 Cumulative through Mar. 31.

4 Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>PAPER AND PRINTING</b>													
<b>Wood Pulp</b>													
Groundwood:													
Production..... short tons.....	126,523	142,617	136,898	163,392	160,102	147,640	162,042	-2.0	-1.2	585,625	603,009	+3.0	
Consumption and shipments..... short tons.....	129,623	144,498	131,389	135,389	136,066	136,880	142,920	+0.5	-4.8	549,603	547,342	-0.4	
Stocks, end of month..... short tons.....	67,588	65,706	71,215	99,218	123,254	141,557	160,875	+24.2	-23.4				
Imports..... short tons.....	36,186	28,423	39,105	27,329	20,644	16,481	23,314	-24.5	-11.5	79,855	115,501	+44.6	
Sulphite, unbleached:													
Production..... short tons.....	21,010	21,550	20,604	21,638	22,090	19,266	20,276	+2.1	+8.9	79,072	85,882	+8.6	
Consumption and shipments..... short tons.....	20,520	22,114	20,440	22,160	21,382	19,532	20,522	-3.5	+4.2	80,044	86,096	+7.6	
Stocks, end of month..... short tons.....	4,450	3,886	4,050	3,528	4,236	3,384	3,138	+20.1	+35.0				
Imports..... short tons.....	56,302	97,570	85,163	45,624	41,621	38,447	54,766	-8.8	-24.0	237,353	269,978	+13.7	
Sulphite, bleached:													
Production..... short tons.....	50,790	58,884	51,220	57,088	54,134	53,640	54,308	-5.2	-0.3	210,524	221,306	+5.1	
Consumption and shipments..... short tons.....	51,238	58,252	52,174	56,620	53,686	53,560	54,092	-5.2	-0.8	210,784	220,832	+4.7	
Stocks, end of month..... short tons.....	6,310	6,942	5,968	6,436	6,884	5,042	5,318	+7.0	+20.4				
Imports..... short tons.....	36,028	29,593	35,999	32,545	30,153	23,390	31,432	-7.3	-4.1	119,102	128,290	+7.7	
Total sulphite:													
Production..... short tons.....	142,784	157,476	146,474	156,194	147,198	150,490	151,374	-5.8	-2.8	598,338	607,342	+1.5	
Consumption and shipments..... short tons.....	142,054	158,620	146,978	153,332	144,752	150,226	153,386	-5.6	-5.6	601,546	603,682	+0.4	
Stocks, end of month..... short tons.....	24,466	23,322	22,818	25,680	28,126	25,838	23,886	+9.5	+17.8				
Sulphate:													
Production..... short tons.....	35,176	40,276	41,564	44,100	44,188	42,768	44,136	+0.2	+0.1	168,874	170,128	+0.7	
Consumption and shipments..... short tons.....	35,858	40,556	41,164	42,604	44,948	43,473	44,392	+5.5	+1.3	171,196	169,272	-1.1	
Stocks, end of month..... short tons.....	7,840	8,020	8,530	10,666	10,484	5,118	5,538	-1.7	+89.3				
Soda:													
Production..... short tons.....	36,028	39,378	35,008	38,158	37,814	38,496	38,150	-0.9	-0.9	148,280	150,358	+1.4	
Consumption and shipments..... short tons.....	34,824	38,132	31,992	34,872	34,976	37,798	36,740	+0.3	-4.8	145,220	139,972	-3.6	
Stocks, end of month..... short tons.....	5,606	5,438	5,710	6,006	5,838	6,606	6,686	-2.8	-12.7				
Other grades:													
Production..... short tons.....	80	96	142	126	110	82	84	-12.7	+31.0	306	464	+51.6	
Consumption and shipments..... short tons.....	144	132	82	118	152	24	120	+28.8	+26.7	312	486	+55.8	
Stocks, end of month..... short tons.....	44	6	56	64	22	76	40	-65.6	-45.0				
Total (all grades):													
Production..... short tons.....	214,068	237,226	223,178	238,578	229,310	231,836	233,744	-3.9	-1.9	915,798	928,292	+1.4	
Consumption and shipments..... short tons.....	212,880	237,440	220,130	230,926	224,828	231,526	234,638	-2.6	-4.2	918,274	913,412	-0.5	
Stocks, end of month..... short tons.....	37,956	36,786	37,414	42,416	44,470	37,638	36,150	+4.8	+23.0				
<b>Newsprint Paper</b>													
Production:													
United States, total..... short tons.....	112,583	124,851	112,394	113,328	109,967	114,586	118,679	-3.0	-7.3	460,731	460,540	0.0	
Ratio to capacity..... per cent.....	80	86	83	83	79	82	82						
Canada..... short tons.....	230,008	206,305	189,154	207,485	228,048	218,147	221,784	+9.9	+2.8	839,322	830,992	-1.0	
Consumption by publishers..... short tons.....	194,907	176,172	171,889	187,594	199,485	198,722	189,986	+6.3	+5.0	743,074	735,140	-1.1	
Shipments:													
United States..... short tons.....	117,131	124,262	110,714	109,686	109,346	120,003	121,548	-0.3	-10.0	470,189	454,008	-3.4	
Canada..... short tons.....	234,100	202,008	178,691	208,629	221,050	119,739	220,270	+6.0	+0.4	735,424	810,378	+10.2	
Imports..... short tons.....	230,579	198,620	154,138	187,513	186,025	182,994	178,076	-0.8	+4.5	723,283	726,296	+0.4	
Exports, Canada..... short tons.....	220,171	199,773	163,204	225,252	159,802	244,167	162,381	-29.1	-1.6	776,064	748,031	-3.6	
Stocks, end of month:													
At mills—													
United States..... short tons.....	19,023	18,778	20,552	24,004	24,546	30,534	27,102	+2.3	-9.4				
Canada..... short tons.....	24,946	29,154	39,598	38,661	45,948	24,045	25,741	+18.8	+78.5				
At publishers..... short tons.....	220,024	231,879	224,155	210,054	197,621	174,750	166,089	-5.9	+19.0				
In transit to publishers..... short tons.....	58,524	48,925	47,174	42,915	44,690	45,673	46,724	+4.1	-4.4				
<b>Box Board</b>													
Operation:													
Thousands of inch-hours.....	7,669	8,623	7,774	8,144		9,417	9,279			27,150	24,541	-9.6	
Per cent of capacity.....	69.9	75.5	73.8	71.3		82.5	81.3						
Production..... short tons.....	186,596	228,314	230,287	229,253		256,118	251,147			732,442	687,854	-6.1	
New orders..... short tons.....	174,570	245,390	217,291	220,543		266,895	250,366			735,576	683,224	-7.1	
Unfiled orders, end of month..... short tons.....	59,334	76,975	71,741	66,870		98,209	98,162						
Consumption of waste paper..... short tons.....	175,957	224,197	215,757	218,340		242,073	231,089			698,167	658,291	-5.7	
Shipments..... short tons.....	180,194	227,854	224,179	225,839		258,604	247,773			733,308	677,872	-7.6	
Stocks, end of month..... short tons.....	64,197	64,242	69,880	68,333		54,982	57,881						
Stocks of waste paper, end of month:													
On hand..... short tons.....	198,099	190,879	190,687	171,361		137,008	142,666						
In transit and unshipped purchases..... tons.....	50,380	59,742				51,520	68,005						
<b>Other Paper</b>													
Binder's board, production..... short tons.....	1,661	2,261	2,054	1,898		2,917	2,994						
Book paper:													
Production..... short tons.....	133,939	148,672	133,805			136,657	138,024						
Ratio to capacity..... per cent.....	98	103	100			93	95						
Shipments..... short tons.....	133,939	144,212	132,333			139,253	139,404						
Stocks, end of month..... short tons.....	85,946	91,103	92,925			71,399	71,399						
New orders—													
Coated..... p. ct. of normal production.....	83	87	90	93	89	104	89	-4.3	0.0				
Uncoated..... p. ct. of normal production.....	75	87	87	83	86	91	84	+3.6	+2.4				
Unfiled orders, end of month—													
Coated..... p. ct. of normal production.....	8	11	11	10	11	10	10	+10.0	+10.0				
Uncoated..... p. ct. of normal production.....	6	7	8	8	7	9	10	-12.5	-30.0				
Wrapping paper:													
Production..... short tons.....	78,872	84,693	77,226	85,958	84,037	91,746	91,286	-2.2	-7.9	371,718	331,914	-10.7	
Ratio to capacity..... per cent.....	77	79	78	88	88	86	85	-1.5	+3.5				
Shipments..... short tons.....	77,295	86,133	78,771	86,732	85,466	96,700	91,377	-1.5	-6.5	375,065	237,102	-36.8	
Stocks, end of month..... short tons.....	84,025	82,616	81,074	80,311	78,909	86,596	86,075	-1.7	-8.3				
Fine paper:													
Production..... short tons.....	35,281	41,234	39,170	42,560	40,911	41,348	41,819	-3.9	-2.2	159,184	163,875	+2.9	
Ratio to capacity..... per cent.....	83	92	95			86	93						
Shipments..... short tons.....	32,176	42,099	38,347	40,006	38,047	43,788	40,564	-4.9	-6.2	163,759	158,499	-3.2	
Stocks, end of month..... short tons.....	53,848	54,573	55,385	57,930	59,633	47,373	50,213	+2.9	+18.8				

3 Cumulative through Mar. 31.

## TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in-crease (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>													
<b>PAPER AND PRINTING—Continued</b>													
<b>Other Paper—Continued</b>													
All other grades:													
Production.....short tons..	88,194	98,057	95,950	90,487	95,235	104,355	104,506	+5.2	-8.9	415,355	279,731	-32.7	
Shipments.....short tons..	84,994	95,211	102,526	87,437	91,415	102,091	102,278	+4.5	-10.6	411,448	376,589	-8.5	
Stocks, end of month.....short tons..	60,700	63,546	59,728	62,771	66,590	53,205	55,486	+6.1	+20.0				
Total paper (inc. newsprint and box board):													
Production.....short tons..	635,465	725,821	686,285			744,810	745,461						
Ratio to capacity.....per cent..	78	87	87			86	88						
Shipments.....short tons..	625,729	719,771	684,458			760,439	742,944						
Stocks, end of month.....short tons..	367,736	501,495	497,458			344,089	348,156						
<b>Paper-board Shipping Boxes</b>													
Production:													
Total.....thous. of sq. ft..	367,533	468,548	508,222	500,061	502,462	510,680	492,272	+0.5	+2.1	1,948,229	1,979,293	+1.6	
Corrugated.....thous. of sq. ft..	296,457	369,950	404,516	414,746	410,812	398,777	387,596	-0.9	+6.0	1,521,585	1,600,024	+5.2	
Solid fiber.....thous. of sq. ft..	71,076	98,598	103,706	85,315	91,650	111,903	104,676	+7.4	-12.4	426,644	379,269	-11.1	
Operating activity:													
Total.....per cent of normal..	63	74	77	77	75	86	82	-2.6	-8.5				
Corrugated.....per cent of normal..	66	75	78	80	78	83	83	-2.5	-6.0				
Solid fiber.....per cent of normal..	55	72	75	69	65	85	79	-5.8	-17.7				
Abrasive paper and cloth:													
Domestic sales.....reams.....													
Foreign sales.....reams.....													
Rope paper sacks, shipments...rel. to 1921-22..	86	103	96	92	90	90	83	-2.2	+8.4				
<b>Printing</b>													
Book publication:													
American manufacture.....no. of titles..	537	449	514	790	646	914	718	-18.2	-10.0	2,821	2,399	-15.0	
Imported.....no. of titles..	228	156	251	338	241	201	108	-28.7	+123.1	572	986	+72.4	
Sales books:													
New orders.....thous. of books..	9,832	13,028	11,684	12,347	13,092	12,317	12,718	+6.0	+2.9	49,658	50,151	+1.0	
Shipments.....thous. of books..	11,819	11,993	11,587	12,176	12,237	12,414	12,176	+0.5	+0.5	48,741	47,993	-1.5	
Blank forms, new orders.....thous. of sets..	57,063	55,321	63,793	72,340	54,901	63,633	62,074	-24.1	-11.6	233,178	246,355	+5.7	
Printing activity.....relative to 1924..	103	110	108	108	124	124	123						
<b>BUILDING CONSTRUCTION AND HOUSING</b>													
<b>Building Costs</b>													
Building materials:													
Frame house, 6-rm. 1st of mo. rel. to 1913..	177	178	178	177	173	176	176	-2.3	-1.7				
Brick house, 6-rm. 1st of mo. rel. to 1913..	181	182	182	181	176	181	181	-2.8	-2.8				
Bldg. costs, 1st of mo. rel. to 1913..	209.5	209.0	206.5	206.8	207.1	207.8	203.4	+0.1	+1.8				
Bldg. costs (A. G. C.), 1st of mo. rel. to 1913..	202	203	203	203	201	204	204	-1.0	-1.5				
Construction costs (Am. Appraisal):													
Frame.....rel. to 1913..	204	204	204	202	202	204	204	0.0	-1.0				
Brick, steel frame.....rel. to 1913..	197	197	198	196	196	197	197	0.0	-0.5				
Brick, wood frame.....rel. to 1913..	214	214	215	213	213	213	214	0.0	-0.5				
Reinforced concrete.....rel. to 1913..	201	202	203	201	200	201	201	-0.5	-0.5				
<b>Contracts and Fire Losses</b>													
Contracts awarded (36 States):													
Commercial buildings.....thous. of sq. ft..	4,746	7,774	10,146	12,156	9,817	12,204	14,506	-19.2	-32.3	53,037	39,893	-24.8	
Industrial buildings.....thous. of sq. ft..	13,340	3,538	3,899	5,948	4,989	9,342	6,844	-16.1	-27.1	31,163	18,374	-41.0	
Residential buildings.....thous. of sq. ft..	17,182	12,914	14,390	19,891	24,405	39,849	49,908	+22.7	-51.1	143,314	71,600	-50.0	
Educational buildings.....thous. of sq. ft..	3,008	2,619	2,933	5,256	5,577	6,241	4,627	+6.1	+20.5	16,899	16,385	-3.0	
Other public and semi-public buildings.....thous. of sq. ft..	3,191	3,149	3,437	6,975	7,796	5,191	5,070	+11.8	+53.8	15,969	21,357	+33.7	
Grand total.....thous. of sq. ft..	41,946	30,601	36,444	50,493	53,471	73,849	81,407	+5.9	-34.3	263,283	171,009	-35.0	
Contracts awarded, value (36 States):													
Commercial buildings.....thous. of dolls..	30,368	50,907	71,237	72,858	68,360	69,064	73,527	-6.2	-7.0	307,161	263,362	-14.3	
Industrial buildings.....thous. of dolls..	66,888	37,857	33,059	71,793	37,763	55,204	67,515	-47.4	-44.1	235,553	180,472	-23.4	
Residential buildings.....thous. of dolls..	111,480	63,117	71,746	98,453	119,596	190,146	249,896	+21.5	-52.1	696,663	352,912	-49.3	
Educational buildings.....thous. of dolls..	18,703	17,708	20,410	32,269	33,821	36,992	28,730	+4.8	+17.7	104,988	104,208	-0.7	
Other public and semi-public buildings.....thous. of dolls..	27,988	33,229	27,517	60,238	60,964	44,843	54,962	+1.2	+10.9	149,417	181,948	+21.8	
Public works and utilities.....thous. of dolls..	48,870	103,041	73,826	98,812	139,600	67,661	148,543	+41.3	-6.0	327,111	415,279	+27.0	
Grand total.....thous. of dolls..	304,297	305,859	309,795	434,424	460,103	463,911	623,174	+5.9	-26.2	1,820,893	1,510,181	-17.1	
Contracts awarded, Canada.....thous. of dolls..	32,549	37,530	28,464	24,263	48,779	27,125	43,328	+101.0	+12.6	140,842	139,036	-1.3	
Building volume (A. G. C.).....rel. to 1913..	169	131	114	131	146	116	178	+11.5	-18.0				
Fire losses:													
United States.....thous. of dolls..	39,726	42,344	43,207	42,964	43,551	41,278	36,846	+1.4	+18.2	164,358	172,066	+4.7	
Canada (Money Times).....thous. of dolls..	4,081	5,100	2,412	3,783	2,331	2,453	1,972	-38.4	+18.2	10,167	13,626	+34.0	
<b>BUILDING MATERIALS</b>													
<b>Softwood Lumber</b>													
Southern pine:													
Exports, lumber.....M ft. b. m..	62,487	52,752	43,535	49,870	44,788	57,116	68,289	-10.2	-34.4	244,913	190,945	-22.0	
Exports, timber.....M ft. b. m..	13,734	9,484	12,068	17,445	12,412	6,255	10,261	-28.9	+21.0	33,603	51,409	+53.0	
Price, flooring.....dolls. per M ft. b. m..	38.00	37.12	37.39	37.20	36.39	37.55	37.35	-2.2	-2.6				
Douglas fir:													
Production (computed).....M ft. b. m..	260,979	199,651	275,751	329,021		350,508	366,624			1,313,339			
Shipments (computed).....M ft. b. m..	228,300	220,690	251,131	297,238		354,537	379,158			1,334,439			
New orders (computed).....M ft. b. m..	240,835	242,178	254,712	290,076		371,548	383,634			1,440,531			
Unfilled orders, end of month.....M ft. b. m..	273,065	293,657	290,702	216,662		331,707	408,255						
Exports, lumber.....M ft. b. m..	74,967	47,487	38,106	45,184	70,343	77,443	65,953	+55.7	+6.7	284,872	201,120	-29.4	
Exports, timber.....M ft. b. m..	33,309	36,064	27,887	37,143	41,912	56,238	60,207	+12.8	-30.4	213,428	143,006	-33.6	
Price, No. 1 common, dolls. per M ft. b. m..	16.84	16.85	16.71	16.75	16.26	19.15	18.76	-2.9	-13.3				
Price, flooring, 1 x 4, "B" and better, V. G., dolls. per M ft. b. m..	41.94	41.63	41.35	41.12	38.87	42.26	42.60	-5.5	-8.8				



## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>BUILDING MATERIALS—Continued</b>													
<b>Softwood Lumber—Continued</b>													
California redwood:													
Production (computed).....M ft. b. m.	30,634	41,084	36,667	34,959	39,146	43,797	39,292	+12.0	-0.4	145,438	151,856	+4.4	
Shipments (computed).....M ft. b. m.	25,253	30,893	34,173	31,097	38,576	42,315	36,307	+24.1	+6.2	140,566	134,739	-4.1	
New orders (computed).....M ft. b. m.	23,230	35,633	36,106	29,768	36,401	47,059	43,363	+22.3	-16.1	158,654	137,908	-13.1	
Unfilled orders, end of month (computed).....M ft. b. m.	36,636	27,029	37,210	32,403	31,080	37,898	45,871	-4.1	-32.2	-----	-----	-----	
California white pine:													
Production.....M ft. b. m.	60,651	29,185	30,660	38,906	62,446	67,401	87,238	+60.5	-28.4	268,951	161,197	-40.1	
Shipments.....M ft. b. m.	57,767	64,837	68,659	81,599	79,924	102,908	106,018	-2.1	-24.6	407,230	295,019	-27.6	
Stocks, end of month.....M ft. b. m.	623,554	568,607	526,140	457,060	505,578	437,089	427,396	+25.9	+34.7	-----	-----	-----	
New orders.....M ft. b. m.	54,835	65,322	66,385	72,947	75,243	95,848	101,387	+3.1	-25.8	378,030	279,897	-26.0	
Unfilled orders, end of month.....M ft. b. m.	189,732	151,560	148,691	155,699	145,317	161,865	195,268	-6.7	-25.6	-----	-----	-----	
Northern pine:													
Lumber—													
Production.....M ft. b. m.	11,682	14,935	15,549	15,549	30,690	22,654	42,363	+97.4	-27.6	110,889	76,723	-30.8	
Shipments.....M ft. b. m.	19,496	23,200	26,144	28,127	26,548	40,159	44,043	-5.6	-39.7	149,671	104,019	-30.5	
New orders.....M ft. b. m.	14,459	22,670	21,257	23,858	25,629	39,732	44,379	+7.4	-42.2	148,872	93,414	-37.3	
Lath—													
Production.....thousands..	653	527	517	571	3,215	2,938	7,722	+463.0	-58.4	18,338	4,830	-73.7	
Shipments.....thousands..	2,783	3,251	3,543	3,524	4,861	7,316	8,003	+37.9	-39.3	27,456	15,179	-44.7	
North Carolina pine:													
Production (computed).....M ft. b. m.	40,138	41,097	42,497	43,526	-----	71,610	64,841	-----	-----	249,100	-----	-----	
Shipments (computed).....M ft. b. m.	38,038	36,946	38,031	39,683	-----	67,543	57,029	-----	-----	223,895	-----	-----	
Northern hemlock:													
Production.....M ft. b. m.	10,839	11,153	8,515	11,213	10,700	14,876	13,112	-4.6	-18.4	61,667	41,581	-32.6	
Shipments.....M ft. b. m.	4,922	7,860	5,241	8,919	8,616	9,814	12,625	-3.4	-31.8	45,314	30,636	-32.4	
<b>Hardwood Lumber</b>													
Walnut lumber:													
Production.....M ft. b. m.	3,745	2,363	1,838	2,599	2,654	2,993	3,724	+2.1	-28.7	12,471	9,454	-24.2	
Shipments.....M ft. b. m.	2,301	2,070	1,771	1,860	2,069	3,926	4,003	+11.2	-48.3	14,525	7,770	-46.5	
Stocks, end of month.....M ft. b. m.	18,601	18,727	18,079	18,905	19,503	10,711	10,544	+3.2	+85.0	-----	-----	-----	
New orders.....M ft. b. m.	1,607	2,071	1,445	1,732	1,638	4,104	4,078	-5.4	-49.8	15,151	6,886	-54.6	
Unfilled orders, end of month.....M ft. b. m.	5,590	4,418	3,704	3,886	3,408	6,804	7,126	-12.3	-52.2	-----	-----	-----	
Walnut logs:													
Purchased.....M ft. log measure..	2,404	1,701	2,009	1,788	1,820	2,213	2,899	+1.8	-37.2	9,418	7,318	-22.3	
Made into lumber and veneer.....M ft. log measure..	2,288	2,021	1,818	2,138	2,011	2,539	2,799	-5.9	-28.2	10,002	7,988	-20.1	
Stocks, end of month.....M ft. log measure..	2,790	2,510	2,682	2,364	2,093	1,048	1,152	-11.5	+18.7	-----	-----	-----	
Northern hardwoods:													
Production.....M ft. b. m.	21,303	29,484	24,694	25,788	23,851	42,865	29,755	-7.5	-19.8	154,906	103,817	-33.0	
Shipments.....M ft. b. m.	12,969	17,119	17,773	18,513	18,201	32,605	26,755	-1.7	-32.0	118,968	71,606	-39.8	
Lower Michigan hardwoods:													
Production.....M ft. b. m.	3,542	3,075	2,883	-----	-----	6,795	5,961	-----	-----	-----	-----	-----	
Shipments.....M ft. b. m.	3,716	2,210	1,686	-----	-----	6,732	5,053	-----	-----	-----	-----	-----	
Stocks, end of month.....M ft. b. m.	26,639	15,063	15,512	-----	-----	27,443	28,286	-----	-----	-----	-----	-----	
Gum:													
Stocks, total, end of month.....mill. ft. b. m.	512	534	534	552	-----	489	468	-----	-----	-----	-----	-----	
Stocks, unsold, end of month.....mill. ft. b. m.	387	404	408	422	-----	532	318	-----	-----	-----	-----	-----	
Unfilled orders, end of month.....mill. ft. b. m.	125	130	126	130	-----	157	151	-----	-----	-----	-----	-----	
Oak:													
Stocks, total, end of month.....mill. ft. b. m.	1,049	1,040	1,052	1,055	-----	914	909	-----	-----	-----	-----	-----	
Stocks, unsold, end of month.....mill. ft. b. m.	869	877	865	865	-----	751	739	-----	-----	-----	-----	-----	
Unfilled orders, end of month.....mill. ft. b. m.	181	174	187	-----	189	163	-----	-----	-----	-----	-----		
All hardwoods:													
Production.....mill. ft. b. m.	210	251	255	270	-----	315	319	-----	-----	-----	-----	-----	
Shipments.....mill. ft. b. m.	169	203	233	221	-----	341	330	-----	-----	-----	-----	-----	
New orders.....mill. ft. b. m.	165	199	244	203	-----	334	323	-----	-----	-----	-----	-----	
Stocks, total, end of month.....mill. ft. b. m.	2,997	3,061	3,086	3,141	-----	2,672	2,670	-----	-----	-----	-----	-----	
Stocks, unsold, end of month.....mill. ft. b. m.	2,383	2,440	2,451	2,500	-----	2,024	1,982	-----	-----	-----	-----	-----	
Unfilled orders, end of month.....mill. ft. b. m.	614	614	635	641	-----	648	648	-----	-----	-----	-----	-----	
Exports, planks, joists, etc.....M ft. b. m.	200,816	151,906	129,070	152,156	171,344	200,790	201,858	+12.6	-15.1	820,714	604,476	-26.3	
<b>Flooring</b>													
Maple flooring:													
Production.....M ft. b. m.	6,107	6,589	5,992	5,382	5,719	6,794	5,759	+6.3	-0.7	27,346	23,682	-13.4	
Shipments.....M ft. b. m.	3,060	4,625	3,771	4,761	4,768	6,141	7,583	+0.1	-37.1	24,891	17,925	-28.0	
Stocks, end of month.....M ft. b. m.	26,523	28,314	30,150	31,017	31,122	25,494	24,443	+0.3	+27.3	-----	-----	-----	
New orders.....M ft. b. m.	3,053	4,245	3,696	3,953	4,204	6,604	8,616	+6.3	-51.2	29,536	16,098	-45.5	
Unfilled orders, end of month.....M ft. b. m.	5,579	5,827	6,008	5,418	5,353	11,106	13,337	-1.2	-59.9	-----	-----	-----	
Oak flooring:													
Production.....M ft. b. m.	22,667	28,617	27,943	32,038	-----	28,497	36,578	-----	-----	131,144	-----	-----	
Shipments.....M ft. b. m.	47,506	26,317	28,272	34,829	-----	40,902	41,837	-----	-----	143,289	-----	-----	
Stocks, end of month.....M ft. b. m.	83,233	87,391	87,251	85,861	-----	80,603	75,744	-----	-----	-----	-----	-----	
New orders.....M ft. b. m.	21,775	35,286	29,874	43,893	-----	52,642	40,244	-----	-----	154,383	-----	-----	
Unfilled orders, end of month.....M ft. b. m.	45,272	51,026	57,602	68,188	-----	54,644	68,925	-----	-----	-----	-----	-----	
<b>Fabricated Structural Steel</b>													
New orders (prorated).....short tons..	319,550	252,000	280,000	248,000	236,000	358,050	334,950	-4.8	-29.5	1,232,000	1,016,000	-17.5	
Ratio to capacity.....per cent..	83	63	70	62	59	93	87	-4.8	-32.2	-----	-----	-----	
Shipments (prorated).....short tons..	265,650	244,000	296,000	280,000	308,000	277,200	304,150	+10.0	+1.3	1,101,100	1,128,000	+2.4	
Ratio to capacity.....per cent..	69	61	74	70	77	72	79	-----	-----	-----	-----	-----	
<b>Portland Cement</b>													
Production.....thous. of bbls..	11,215	8,498	8,162	11,225	13,521	9,969	13,750	+20.5	-1.7	42,122	41,406	-1.7	
Operation.....per ct. of capacity..	51.5	38.8	41.5	51.5	64.0	47.4	67.1	+24.3	-4.6	-----	-----	-----	
Shipments.....thous. of bbls..	5,951	4,955	7,012	8,905	13,387	10,113	13,325	+50.3	+0.5	34,593	34,259	-1.0	
Stocks, end of month.....thous. of bbls..	23,550	27,081	28,244	30,563	30,697	29,724	30,151	+0.4	+1.8	-----	-----	-----	
Stocks, clinker, end of month.....thous. of bbls..	7,526	9,646	11,572	13,503	15,115	14,948	15,479	+11.9	-2.4	-----	-----	-----	
Wholesale prices, composite.....dolls. per bbl..	1.555	1.576	1.617	1.617	1.617	1.650	1.650	0.0	-2.0	-----	-----	-----	

## TREND OF BUSINESS MOVEMENTS—Continued

	1929					1930					PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4,		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930					
<b>BUILDING MATERIALS—Continued</b>																
<b>Portland Cement—Continued</b>																
Common brick:																
Stocks, end of month—																
Burned.....thousands..	475,735	428,508	513,057	368,833	327,657	341,843	315,607	-11.2	+3.8							
Unburned.....thousands..	247,723	234,126	259,889	193,430	177,704	171,545	153,168	-8.1	+16.0							
Shipments.....thousands..	107,241	58,117	75,524	91,903	104,192	76,364	284,793	+13.4	-63.4	551,618	329,736					-40.2
Unfilled orders, end of month.....thousands..	141,143	115,907	140,451	150,396	172,113	102,389	207,649	+14.4	-17.1							
Plants closed down.....number..	132	126	126	83	78	36	19	-6.0	-309.5							
Price, red, New York.....dolls. per thous..	10.00	10.50	10.50	11.00	11.25	11.50	11.50	+2.3	-2.2							
Sand-lime brick:																
Production.....thousands..	9,215	6,586	4,827	4,706	8,705	11,433	16,155	+17.5	-46.1	45,568	27,524					-39.6
Shipments by rail.....thousands..	2,658	2,356	2,489	2,846	3,682	3,945	4,359	+29.4	-15.5	12,933	11,373					-12.1
Shipments by truck.....thousands..	5,246	3,686	3,576	4,900	4,957	9,498	13,580	-0.7	-63.5	35,226	17,209					-51.1
Stocks, end of month.....thousands..	13,859	13,691	10,286	11,959	8,756	14,256	14,236	-26.8	-38.5							
Unfilled orders, end of month.....thousands..	7,008	7,904	9,358	12,793	7,229	12,630	11,587	-43.5	-37.6							
Floor and wall tile:																
Production.....thous. of sq. ft..	3,563	4,355	4,312	3,804	6,162	6,562	6,562			17,475	10,671					-38.9
Shipments, quantity.....thous. of sq. ft..	3,122	3,307	3,155	3,818	5,251	6,178	6,178			13,923	11,373					-26.2
Shipments, value.....thous. of dolls..	1,314	1,339	1,253	1,445	2,044	2,376	2,376			5,414	4,637					-25.4
Stocks, end of month.....thous. of sq. ft..	17,641	17,977	18,148	18,299	18,145	18,609	18,609									
Terra cotta, new orders:																
Quantity.....net tons..	8,307	8,048	5,900	5,656	7,502	9,961	12,949	+32.6	-42.1	44,236	27,106					-38.7
Value.....thous. of dolls..	870	839	636	578	743	1,172	1,472	+28.5	-49.5	4,930	2,796					-43.3
Plate glass:																
Production, polished.....thous. of sq. ft..	8,482	10,018	9,804	10,416	11,430	13,144	12,555	+9.7	-9.0	48,414	41,668					-13.9
<b>Roofing</b>																
Roofing, felt:																
Production, dry felt.....tons..	16,191	21,042	15,743	19,390	28,153	30,177	30,177			102,434						
Stocks, end of month, dry felt.....tons..	4,970	6,382	7,087	6,811	3,102	2,907	2,907									
Prepared roofing, shipments:																
Total.....thous. of sqs..	2,035	2,383	1,356	2,240	2,727	4,239	4,582	+21.7	-40.5	14,615	8,706					-40.4
Smooth roll.....thous. of sqs..	950	1,225	709	1,062	1,191	2,084	2,063	+12.1	-42.3	7,271	4,186					-42.4
Grit roll.....thous. of sqs..	509	493	338	581	676	1,039	1,118	+16.4	-39.5	3,359	2,088					-37.8
Shingles—																
Strip, patented, and hexagon.....thous. of sqs..	482	598	252	484	715	948	1,167	+47.7	-38.7	3,375	2,049					-39.3
Individual and single thickness.....thous. of sqs..	94	67	57	113	144	167	235	+27.4	-38.7	611	381					-37.6
<b>BUILDING EQUIPMENT</b>																
<b>Enamel Ware</b>																
Baths:																
Shipments.....pieces..	46,715	40,967	46,204	59,887	60,072	82,897	93,894	+0.3	-36.0	312,427	207,130					-33.7
Stocks, end of month.....pieces..	163,728	173,523	179,512	179,910	182,616	215,000	208,512	+1.5	-12.4							
New orders.....pieces..	52,592	32,558	64,732	68,672	55,366	99,039	99,070	-19.4	-44.1	339,097	221,328					-34.7
Unfilled orders, end of month.....pieces..	40,568	29,774	49,637	56,420	51,740	54,746	58,015	-8.3	-10.8							
Lavatories:																
Shipments.....pieces..	66,300	53,122	60,603	81,208	74,568	94,321	104,199	-8.2	-28.4	360,641	269,501					-25.3
Stocks, end of month.....pieces..	155,189	163,283	166,201	170,629	176,156	278,137	273,284	+3.2	-35.5							
New orders.....pieces..	60,575	40,936	101,899	85,950	66,634	107,878	114,819	-22.5	-42.0	391,982	295,319					-24.7
Sinks:																
Shipments.....pieces..	65,947	58,343	62,530	79,901	75,113	97,429	109,748	-6.0	-31.6	379,660	275,887					-27.3
Stocks, end of month.....pieces..	234,340	251,446	269,281	248,429	260,472	318,069	312,209	+4.8	-16.6							
New orders.....pieces..	55,271	49,776	91,348	83,230	70,028	107,127	128,629	-15.9	-45.4	411,269	294,382					-28.4
Miscellaneous sanitary ware:																
Shipments.....pieces..	27,642	24,288	26,425	33,174	33,927	36,152	40,544	+2.3	-16.3	151,867	117,814					-22.4
Stocks, end of month.....pieces..	122,228	113,355	117,678	145,803	147,219	149,013	147,990	+1.0	-0.5							
New orders.....pieces..	25,074	23,009	31,128	36,614	33,496	40,050	45,588	-8.5	-26.5	164,810	124,247					-24.6
Small ware (all except baths):																
Unfilled orders, end of month.....pieces..	120,843	86,492	160,775	164,475	151,053	151,113	183,072	-8.2	-17.5							
Vitreous china plumbing fixtures:																
New orders.....pieces..	201,858	200,253	257,783	154,808	134,157	207,681	205,870	-13.3	-34.9	1,176,258	747,001					-36.5
Shipments.....pieces..	170,381	205,673	180,683	206,265	210,616	256,249	251,920	+2.1	-16.4	1,022,506	803,237					-21.1
Unfilled orders, end of month.....pieces..	441,768	436,348	515,340	463,883	399,480	589,428	543,378	-13.9	-26.5							
Stocks, end of month.....pieces..	640,171	632,740	642,888	644,609	635,784	549,410	544,899	-1.4	+16.7							
Porcelain plumbing fixtures:																
Net new orders.....pieces..	6,452	10,330	6,721	9,044	6,469	14,479	13,417	-28.5	-51.8	52,842	32,564					-38.4
Shipments.....pieces..	4,257	5,327	4,240	5,378	6,502	9,483	9,483	+20.9	-46.7	42,471	21,447					-49.5
Unfilled orders, end of month.....pieces..	25,778	30,374	32,781	35,961	35,017	40,047	37,184	-2.6	-5.8							
Stocks, end of month.....pieces..	38,226	37,815	39,352	39,198	38,240	46,980	47,315	-2.4	-19.2							
Plumbing fixtures, 6 pieces.....dollars..	100.58	100.55	103.69	104.51	105.46	98.51	97.90	+0.9	+7.7							
<b>Illuminating Glassware</b>																
Production:																
Total.....number of turns..	3,471	2,847	3,636	2,667	2,532	3,256	3,285	-5.1	-22.9	13,465	10,682					-20.7
Ratio to capacity.....per ct. of capacity..	47.0	35.4	38.1	34.4	37.8	42.9	42.9	+9.9	-11.9							
New orders.....per ct. of capacity..	35.1	35.6	35.6	38.6	41.5	46.8	45.3	+7.5	-8.4							
Shipments.....per ct. of capacity..	40.0	34.8	36.4	37.1	38.8	41.8	44.9	+4.6	-13.6							
Unfilled orders, end of month.....number of weeks' supply..	1.0	1.1	1.1	1.0	1.0	1.1	1.1	0.0	-9.1							
Stocks, end of month.....number of weeks' supply..	5.2	5.4	5.5	6.0	5.8	5.5	5.3	-3.3	+9.4							
<b>Furniture</b>																
Household furniture and case goods:																
Shipments.....dolls., average per firm..	35,891	46,398	56,664	54,203	47,092	64,527	57,081	-13.1	-17.5	229,939	204,357					-11.1
Unfilled orders.....dolls., average per firm..	30,135	46,593	39,067	30,837	22,976	40,469	32,776	-25.5	-29.9							
Grand Rapids district:																
Unfilled orders, end of month.....No. of days' production..	32	29	27	24	18	37	34	-25.0	-47.1							
New orders.....No. of days' production..	11	21	16	15	13	27	18	-13.3	-27.8							
Shipments.....No. of days' production..	18	21	18	16	16	24	19	0.0	-15.8							

<sup>3</sup> Cumulative through Mar. 31.

<sup>4</sup> Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929	1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4.		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930	
<b>BUILDING EQUIPMENT—Continued</b>												
<b>Furniture—Continued</b>												
Grand Rapids district—Continued.												
Outstanding accounts, end of month.....No. of days, sales.....	50	48	31	42	39	49	42	-7.1	-7.1			
Cancellations.....per cent of new orders.....	31.0	17.0	11.0	13.0	22.0	6.0	14.0	+69.2	+57.1			
Plant operation.....per cent of full time.....	89.0	79.0	72.0	70.0	69.0	93.0	94.0	-1.4	-26.6			
Steel furniture:												
Business group—												
Shipments.....thous. of dolls.....	2,782	2,891	2,550	2,727	2,427	2,975	2,895	-11.0	-16.2	12,819	10,595	-17.3
New orders.....thous. of dolls.....	2,583	2,886	2,370	2,627	2,524	2,931	2,933	-3.9	-13.9	12,918	10,407	-19.4
Unfilled orders, end mo.....thous. of dolls.....	2,166	1,962	1,683	1,590	1,680	2,354	2,389	+5.7	-29.7			
Shelving—												
Shipments.....thous. of dolls.....	856	675	683	812	815	1,110	1,131	+0.4	-27.9	4,117	2,985	-27.5
New orders.....thous. of dolls.....	735	725	759	839	796	1,146	1,095	-5.1	-27.3	4,260	3,119	-26.8
Unfilled orders, end mo.....thous. of dolls.....	824	706	782	808	782	802	766	-3.2	+2.1			
<b>PLYWOOD AND VENEER</b>												
Plywood:												
New orders.....thous. of sq. ft. of surface.....	6,465	9,258	4,585	3,911								
Shipments.....thous. of sq. ft. of surface.....	4,150	5,120	4,810	4,289								
Unfilled orders, end of month.....thous. of sq. ft. of surface.....	10,984	14,641	13,416	12,422								
Rotary-cut veneer:												
Receipts.....number of carloads.....	214	149	209	203	181	143	307	-10.8	-41.0	765	742	-3.0
Purchases.....number of carloads.....	161	207	211	120	122	451	256	+1.7	-52.3	1,134	660	-41.8
Bushel baskets:												
Production.....dozens.....	194,958	121,580	152,751			187,881	224,835					
Shipments.....dozens.....	170,138	84,212	101,721			140,205	149,055					
Stocks, end of month.....dozens.....	558,489	395,866	446,004			480,769	565,598					
<b>GLASS CONTAINERS</b>												
Actual production:												
Quantity.....gross.....	1,963	2,336	2,074	2,527	2,419	2,574	2,519	-4.3	-4.0	9,721	9,356	-3.7
Relation to capacity.....per cent.....	62.0	70.1	67.3	75.8	71.9	78.8	79.1	-5.1	-9.1			
New orders.....gross.....	4,171	4,056	2,363	2,165	2,550	2,562	2,408	+17.8	+5.9	10,856	11,134	+2.6
Shipments.....gross.....	1,705	2,110	2,011	2,437	2,564	2,530	2,546	+5.2	+0.7	9,650	9,122	-5.5
Unfilled orders, end of month.....gross.....	11,434	13,011	12,636	12,111	11,922	10,518	10,214	-1.6	+16.7			
Stock, end of month.....gross.....	6,648	6,858	6,868	6,962	6,809	6,595	6,588	-2.2	+3.4			
<b>CHEMICALS AND OILS</b>												
<b>Chemicals</b>												
Sulphuric acid:												
Exports.....thous. of lbs.....	914,769	882,315	344,127	335,773	327,918	704,726	634,959	-2.3	-48.4	2,395,741	1,890,133	-21.1
Price, wholesale.....dolls. per 100 lbs.....	.78	.78	.78	.78	.78	.78	.78	0.0	0.0			
Nitrate of soda:												
Imports.....long tons.....	65,569	89,421	85,837	106,521	69,788	101,297	119,620	-34.5	-41.7	450,919	351,567	-22.0
Production in Chile.....metric tons.....	285,500	280,000	233,900	244,000	205,200	279,100	272,200	-15.9	-24.6	1,081,300	963,100	-10.9
Potash salts:												
Imports (commercial).....long tons.....	23,237	44,077	40,811	39,947	21,036	22,116	21,299	-47.3	-1.2	96,628	145,871	+51.0
Production in France												
(K <sub>2</sub> O content).....metric tons.....	45,000	49,900	45,600	48,650		39,693	38,990			119,599	144,150	+20.5
Sales in Germany												
(K <sub>2</sub> O content).....metric tons.....	99,594	186,000	202,711	180,000		233,000	112,535			542,412	568,711	+4.8
Superphosphate (acid phosphate):												
Production.....short tons.....	354,226	445,128	355,815	335,779		279,889	286,897			929,690	800,943	-13.8
Stocks, end of month.....short tons.....	2,002,935	2,224,138	2,260,145	1,630,094		1,512,072	831,841					
Shipments.....short tons.....	77,269	116,759	189,022	414,378		403,738	468,200			698,978	308,781	-56.3
Fertilizer:												
Exports.....long tons.....	147,483	104,221	163,776	153,539	188,044	165,551	136,937	+22.5	+37.3	502,747	609,580	+21.2
Consumption, Southern States.....short tons.....	94,958	504,440	1,071,004	1,877,961	1,279,874	2,117,969	1,258,114	-31.8	+1.7	4,645,941	4,733,279	+1.9
Crude arsenic:												
Production.....short tons.....	2,049	1,079	1,933	1,692	1,350	1,307	1,382	-20.2	-2.3			
Stocks, end of month.....short tons.....	3,774	3,677	4,576	4,514	4,159	2,418	2,451	-7.9	+69.7	5,087	6,054	+19.0
Refined arsenic:												
Production.....short tons.....	1,063	742	808	864	1,084	945	836	+25.5	+29.7	3,594	3,498	-2.7
Stocks, end of month.....short tons.....	4,131	3,879	3,157	3,131	2,889	3,458	3,316	-7.7	-12.9			
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs.....	193	151	182	119	218	157	160	+83.2	+36.3	597	670	+12.2
Coal tar.....thous. of lbs.....	24	2,052	2,320	3,347	3,349	2,305	26	+0.1		2,418	11,068	+357.7
Price index numbers:												
Crude drugs.....rel. to Aug., 1914.....	172	170	169	167	166	194	187	-0.6	-11.2			
Essential oils.....rel. to Aug., 1914.....	146	133	123	118	115	206	205	-2.5	-43.9			
Drugs and pharmaceuticals:												
.....rel. to Aug., 1914.....	177	177	176	176	176	164	164	0.0	+7.3			
Chemicals.....rel. to 1927.....	100	99	98	98	97	101	100	-1.0	-3.0			
Oils and fats.....rel. to 1927.....	98	94	95	92	94	101	98	+2.2	-4.1			
<b>Wood Chemicals</b>												
Acetate of lime:												
Production—												
United States.....thous. of lbs.....	11,666	11,798	9,683	11,162	9,807	12,397	12,071	-12.1	-18.8	47,863	42,450	-11.3
Canada.....thous. of lbs.....	1,246	1,545	1,164	1,077	1,104	1,150	1,032	+2.5	+7.0	4,535	4,891	+7.9
Shipments—												
United States.....thous. of lbs.....	6,729	3,921	4,616	4,887	6,558	12,230	12,227	-18.9	-46.4	47,090	23,181	-50.8
Canada.....thous. of lbs.....	248	178	593	413	668	1,165	1,066	+61.7	-37.3	4,520	1,852	-59.0
Stocks, end of month—												
United States.....thous. of lbs.....	7,761	15,536	20,814	24,098	27,555	1,932	1,636	+14.3				
Canada.....thous. of lbs.....	1,111	2,498	3,140	3,705	3,845	172	96	+3.8				
Exports.....thous. of lbs.....						17				75		
Price, wholesale.....dolls. per cwt.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	0.0	0.0			

3 Cumulative through Mar. 31.

Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929	1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930	
<b>CHEMICALS AND OILS—Continued</b>												
<b>Wood Chemicals—Continued</b>												
Methanol, crude:												
Production—												
United States..... gallons..	830,331	715,886	615,006	651,438	617,031	725,662	746,007	-5.3	-17.3	2,857,849	2,589,361	-9.0
Canada..... gallons..	57,587	65,090	53,587	46,844	50,498	51,303	42,183	+7.8	+19.7	192,478	216,019	+12.2
Stocks at crude plants, end of month—												
United States..... gallons..	247,360	389,876	507,818	646,181	704,941	275,361	186,036	+9.1	+278.9			
Canada..... gallons..	26,580	38,408	27,033	30,261	14,681	30,003	16,697	-51.5	-12.1			
Stocks at refineries and in transit—												
United States..... gallons..	728,473	903,304	838,421	864,600	807,754	147,531	172,755	-6.6	+367.6			
Canada..... gallons..	11,518	9,038	16,400	17,299	10,763	59,623	66,218	-37.8	-83.7			
Exports..... gallons..	11,791	47,571	15,691	56,113	101,033	28,478	57,134	+80.1	+76.8	166,740	220,408	+32.2
Wood at chemical plants:												
Consumption—												
United States..... cords..	70,279	73,326	60,559	68,045	61,999	74,504	74,936	-8.9	17.3	292,508	263,929	-9.8
Canada..... cords..	6,720	7,625	5,880	5,308	5,426	6,289	5,244	+2.2	+3.5	23,987	24,239	+1.1
Stocks, end of month—												
United States..... cords..	486,236	601,972	490,157	477,011	512,351	457,884	488,969	+7.4	+4.8			
Canada..... cords..	70,756	71,022	80,717	79,267	70,767	73,976	73,496	-10.7	-3.7			
Daily capacity—												
Total..... cords..	3,246	3,246	3,246	3,246	3,246	3,336	3,336	+0.4	-2.3			
Shutdown..... cords..	302	222	416	535	612	324	383	+14.4	+59.8			
Methanol, refined:												
Production—												
United States..... gallons..	432,978	248,723	394,647	398,476	424,295	494,435	502,010	+6.5	-15.5	1,940,746	1,466,141	-25.5
Canada..... gallons..	72,200	41,500	47,100	44,200	55,600	47,500	35,300	+25.8	+57.5	190,300	188,400	-1.0
Stocks, end of month—												
United States..... gallons..	795,868	695,155	705,258	632,705	670,764	681,815	695,180	+6.0	-3.5			
Canada..... gallons..	32,175	28,405	37,630	40,905	57,414	36,149	48,226	+40.4	+19.1			
Shipments—												
United States..... gallons..	478,056	425,071	451,173	522,153	530,584	518,006	568,118	+1.6	-6.6	2,060,269	1,928,981	-6.4
Canada..... gallons..	34,803	41,274	30,484	33,688	26,760	43,885	14,576	-20.6	+83.6	139,713	132,206	-5.4
Price, wholesale, N. Y. ....dolls. per gal..	.51	.47	.46	.43	.40	.58	.58	-7.0	-31.0			
<b>Ethyl Alcohol</b>												
Production..... thous. of gals..	16,262	11,601	10,943	10,151	12,221	14,858	14,709	+20.4	-16.9	58,679	44,916	-23.5
Withdrawn for denaturation..... thous. of gals..	18,861	11,174	9,801	8,881	10,585	13,090	12,003	+19.2	-11.8	50,817	40,441	-20.4
Warehouse stocks, end of month..... thous. of gals..	8,199	7,298	7,496	7,616	8,074	10,424	11,723	+6.0	-31.1			
<b>Explosives</b>												
(Black powder, permissible, and other high explosives)												
Production..... thous. of lbs..	31,015	31,986	33,244	30,221	30,967	34,485	36,077	+2.5	-14.2	139,550	126,418	-9.4
Shipments..... thous. of lbs..	29,236	31,709	31,574	30,534	34,071	33,168	36,458	+11.6	-6.5	139,524	127,888	-8.3
New orders..... thous. of lbs..	29,784	30,828	30,584	30,059	33,204	32,543	34,786	+10.5	-4.5	135,017	124,675	-7.7
Stocks, end of month..... thous. of lbs..	18,311	18,636	20,522	20,295	18,566	20,366	20,119	-8.5	-7.7			
<b>Naval Stores</b>												
<b>Turpentine (gum):</b>												
Net receipts, southern ports..... barrels..	28,921	10,237	5,075	9,779	27,999	8,440	31,610	+186.3	-11.4	52,983	53,090	+0.2
Stocks at port, end of month..... barrels..	68,432	58,485	45,338	40,078	35,053	48,396	52,637	-12.5	-33.4			
Price, southern, New York.....dolls. per gal..	.64	.55	.55	.56	.54	.58	.64	-3.6	0.0			
<b>Rosin (gum):</b>												
Net receipts, southern ports..... barrels..	128,057	50,791	30,605	40,401	86,873	37,733	100,454	+115.0	-13.5	212,674	208,670	-1.9
Stocks at 3 ports, end of month..... barrels..	257,595	221,568	184,451	149,232	135,958	100,722	108,335	-8.9	+25.5			
Price, B. New York.....dolls. per bbl..	8.26	8.05	7.59	7.26	6.78	7.86	7.41	-6.6	-8.5			
<b>Rosin (wood):</b>												
Production..... barrels..	36,628	40,954	39,615	44,964	43,919	37,361	36,150	-2.3	+21.5	144,428	169,452	+17.3
Stocks, end of month..... barrels..	88,909	90,258	88,385	91,498	97,188	128,665	124,192	+6.2	-21.8			
<b>Turpentine (wood):</b>												
Production..... barrels..	7,068	7,510	7,478	8,129	8,363	7,059	6,917	+2.1	+20.0	27,759	31,420	+13.2
Stocks, end of month..... barrels..	8,889	10,581	12,190	14,126	15,854	6,773	5,356	+12.2	+196.0			
<b>Pine oil:</b>												
Production..... gallons..	216,330	254,894	238,944	280,560	253,049	235,445	212,720	-9.8	+19.0	891,568	1,027,447	+15.2
Stocks, end of month..... gallons..	980,202	1,005,571	1,096,756	1,211,827	1,278,382	888,915	895,099	+5.5	+42.8			
<b>Fats and Oils</b>												
<b>Total vegetable oils and copra:</b>												
Exports..... thous. of lbs..	3,828	4,666	3,814	4,618	3,753	2,608	1,575	-18.7	+138.3	10,704	16,851	+57.4
Imports..... thous. of lbs..	80,124	84,194	67,603	84,600	67,133	85,328	106,331	-20.6	-36.9	346,045	303,530	-12.3
Copra, imports..... short tons..	15,022	18,488	26,376	29,748	16,649	31,587	29,878	-44.0	-44.3	107,138	91,261	-14.8
<b>Copra or coconut oil:</b>												
Imports..... thous. of lbs..	39,775	37,699	19,213	32,771	21,943	30,842	30,319	-33.0	-27.6	131,589	111,626	-15.2
Consumption in oleomargarine..... thous. of lbs..	17,917	18,490	14,356	14,164	15,379	15,587	14,932	+8.6	+3.0	61,195	62,389	+2.0
<b>Oleomargarine:</b>												
Production..... thous. of lbs..	32,883	32,540	28,402	26,023	28,627	29,718	28,704	+10.0	-0.3	116,839	115,592	-1.1
Consumption..... thous. of lbs..	32,145	30,309	30,793	23,890	29,654	28,260	27,067	+24.1	+9.6	115,887	114,646	-1.1
Animal glues, shipments..... thous. of lbs..	5,757	6,613	5,214	5,165		6,825	7,259			19,368	16,992	-12.3
<b>Cottonseed</b>												
<b>Cottonseed:</b>												
Receipts at mills..... short tons..	566,192	321,230	287,464	203,048	95,981	107,791	139,172	-52.7	+145.0	722,688	907,723	+25.6
Consumption (crush)..... short tons..	618,821	665,552	520,030	400,478	227,517	366,748	236,096	-43.2	-3.6	1,862,667	1,813,577	-2.6
Stocks at mills, end of month..... short tons..	1,106,566	760,745	528,006	330,560	198,598	388,079	191,155	-39.9	+3.9			
<b>Cottonseed oil, crude:</b>												
Production..... thous. of lbs..	192,001	207,046	163,759	129,753	76,628	120,189	80,497	-40.9	-4.8	603,099	577,186	-4.3
Stocks, end of month..... thous. of lbs..	116,150	126,525	109,070	101,922	62,184	107,121	80,494	-39.0	-22.7			

<sup>3</sup> Cumulative through Mar. 31.<sup>4</sup> Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1929					1930					PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930				
<b>CHEMICALS AND OILS—Continued</b>															
<b>Cottonseed—Continued</b>															
Cottonseed oil, refined:															
Production.....thous. of lbs..	187,050	172,089	160,524	116,965	107,970	126,884	101,603	-7.7	+6.3	600,298	557,548	-7.1			
Stocks, end of month.....thous. of lbs..	422,335	465,226	512,572	535,891	516,700	585,343	570,717	-3.6	-9.5						
Price, yellow, prime,															
New York.....dolls. per lb..	.087	.084	.084	.084	.087	.106	.102	+3.6	-14.7						
Consumption in															
Celmargarine.....thous. of lbs..	3,511	2,629	2,351	2,567	2,483	2,387	2,362	-3.3	+5.1	9,346	10,030	+7.3			
Cottonseed cake and meal:															
Production.....short tons..	272,531	297,234	227,931	179,864	103,894	167,527	106,253	-42.2	-2.2	846,828	808,923	-4.5			
Stocks, end of month.....short tons..	203,554	206,062	205,909	170,184	120,258	238,654	226,210	-29.3	-46.8						
Exports.....short tons..	30,894	25,063	4,918	4,852		23,790	6,675			84,936	34,833	-59.0			
<b>Flaxseed</b>															
Minneapolis and Duluth:															
Receipts.....thous. of bush..	575	251	119	172	146	369	270	-15.1	-45.9	1,354	688	-49.2			
Shipments.....thous. of bush..	592	163	162	133	171	351	219	+28.6	-21.9	1,252	629	-49.8			
Stocks, end of month.....thous. of bush..	882	877	745	705	624	608	478	-11.5	+30.5						
Imports.....thous. of bush..	1,290	1,074	2,279	3,233	2,527	2,737	3,911	-21.8	-35.4	10,588	9,113	-13.9			
Mill receipts at Duluth-															
Superior.....thous. of bush..	4,919		2,938			13	7								
Price No. 1, Minneapolis.....dolls. per bush..	3.22	3.08	3.05	2.92	2.92	2.49	2.45	0.0	+19.2						
Linseed oil:															
Shipments from Minneapolis.....thous. of lbs..	5,043	5,198	5,493		9,141	14,602	14,237								
Price, New York.....dolls. per lb..	.147	.140	.141	.140	.143	.102	.101	+2.1	+41.6						
Linseed cake and meal:															
Shipments from Minneapolis.....thous. of lbs..	18,977	20,859	13,600		8,604	19,427	16,917								
Exports.....thous. of lbs..	48,745	52,833	33,970	52,082	48,716	77,748	472,056	-6.5	-32.4	239,755	187,601	-21.8			
<b>FOODSTUFFS</b>															
<b>Wheat</b>															
Visible supply, end of month:															
United States.....thous. of bush..	185,113	168,925	160,375	153,290	136,358	125,351	117,079	-11.0	+16.5						
Canada.....thous. of bush..	217,903	210,643	202,282	192,754	177,424	181,676	167,837	-8.0	+5.7						
Receipts, principal markets.....thous. of bush..	22,887	17,530	19,920	16,683	13,441	27,220	17,472	-19.4	-23.1	95,927	67,574	-29.6			
Shipments, principal markets.....thous. of bush..	16,402	14,170	11,234	12,160	13,291	16,926	15,697	+9.3	-15.3	64,577	50,855	-21.2			
Production, crop estimate:															
Winter wheat.....thous. of bush..					525,070		578,336								
Exports:															
United States—															
Wheat only.....thous. of bush..	7,067	8,245	5,185	2,414	3,050	3,487	3,492	+26.3	-22.6	14,042	18,894	+34.6			
Including wheat flour.....thous. of bush..	12,121	13,825	9,350	7,113	7,252	9,153	8,930	+2.0	-18.8	36,346	37,540	+3.3			
Canada—															
Including wheat flour.....thous. of bush..	18,684	7,258	8,898	14,657	5,458	27,566	10,544	-62.8	-48.3	82,861	36,271	-56.2			
Prices:															
No. 1, Northern Spring,															
Minneapolis.....dolls. per bush..	1.31	1.27	1.25	1.12	1.11	1.25	1.20	-0.9	-7.5						
No. 2, Red Winter,															
St. Louis.....dolls. per bush..	1.35	1.34	1.23	1.18	1.17	1.35	1.25	-0.8	-6.4						
No. 2, Hard Winter,															
Kansas City.....dolls. per bush..	1.21	1.19	1.13	1.02	1.01	1.16	1.10	-1.0	-8.2						
<b>Wheat Flour</b>															
Grindings of wheat:															
United States.....thous. of bush..	41,062	43,812	40,506	43,083	41,852	42,004	39,475	-2.9	+6.0	168,538	169,253	+0.4			
Canada.....thous. of bush..	4,837	5,201	4,702	5,475	5,429	7,455	7,339	-0.8	-26.0	29,874	20,807	-30.4			
Production:															
United States, actual.....thous. of bush..	8,905	9,510	8,783	9,347	9,070	9,207	8,636	-3.0	+5.0	36,883	36,710	-0.5			
United States, prorated.....thous. of bush..	9,770	9,948	9,323	10,207	9,749	10,360	9,838	-4.5	-1.9	41,132	39,227	-4.6			
Canada.....thous. of bush..	1,073	1,168	1,051	1,219	1,215	1,631	1,606	-0.3	-24.3	6,535	4,653	-28.8			
Grain offal, production.....thous. of lbs..	728,157	772,726	717,926	763,376	742,592	725,848	683,046	-2.7	+3.9	2,918,373	2,996,620	+2.7			
Capacity operated, flour mills.....per cent..	54	56	58	55	53	51	51	-3.6	+3.9						
Consumption (computed).....thous. of bush..	8,043	9,808	8,098	9,163	8,615	9,101	8,530	-6.0	+1.0	35,846	35,684	-0.5			
Stocks, all positions, end of month (computed).....thous. of bush..	9,100	8,000	8,800	8,800	9,000	7,400	7,700	+2.3	+16.9						
Exports:															
United States.....thous. of bush..	1,123	1,240	925	1,044	934	1,259	1,108	-10.5	-15.7	4,956	4,143	-16.4			
Canada.....thous. of bush..	605	503	481	681	451	1,413	720	-33.8	-37.4	4,064	2,116	-47.9			
Wholesale prices:															
Standard patents, Minn.....dolls. per bush..	6.88	6.75	6.39	6.23	6.09	6.67	6.41	-2.2	-5.0						
Winter, straights,															
Kansas City.....dolls. per bush..	5.95	5.84	5.63	5.26	5.40	5.72	5.58	+2.7	-3.2						
<b>Corn</b>															
Exports, including meal.....thous. of bush..	870	819	916	1,122	1,030	5,021	2,560	-8.2	-59.8	28,025	3,887	-86.1			
Visible supply, end of month.....thous. of bush..	8,469	16,286	24,270	25,129	21,452	37,100	30,991	-14.6	-30.8						
Receipts, principal markets.....thous. of bush..	31,221	31,344	29,564	20,679	22,114	21,562	16,433	+10.2	+34.6	107,100	103,701	-3.2			
Shipments, prin. markets.....thous. of bush..	15,493	16,438	13,785	14,133	18,043	13,461	17,677	+27.7	+2.1	64,927	62,399	-3.9			
Grinding (starch, glucose).....thous. of bush..	6,053	7,622	6,568	6,065	6,615	7,085	6,044	+9.1	+9.4	30,212	26,870	-11.1			
Prices:															
No. 3, Yellow, Chicago.....dolls. per bush..	.88	.85	.82	.80	.82	.94	.90	+2.5	-8.9						
No. 3, Yellow,															
Kansas City.....dolls. per bush..	.84	.82	.78	.76	.80	.88	.85	+5.3	-5.9						
No. 3, White, Chicago.....dolls. per bush..	.88	.86	.84	.81	.84	.94	.91	+3.7	-7.7						

<sup>3</sup> Cumulative through Mar. 31.

<sup>4</sup> Revised.

<sup>5</sup> As of May 1.

<sup>6</sup> Final estimate for 1929.

## TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4,		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930	
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>												
<b>FOODSTUFFS—Continued</b>												
<b>Oats</b>												
Receipts, principal markets.....thous. of bush.	7,064	6,741	7,336	8,736	9,544	8,535	9,494	+9.2	+0.5	37,510	32,357	-13.7
Visible supply, end of month.....thous. of bush.	29,314	25,220	22,527	18,929	16,765	14,071	12,204	-11.4	+37.4	-----	-----	-----
Exports, including meal.....thous. of bush.	443	377	389	224	259	839	662	+15.6	-60.9	3,534	1,249	-64.7
Price, No. 3, white, Chicago.....dolls. per bush.	.45	.45	.44	.43	.43	.48	.48	0.0	-10.4	-----	-----	-----
Grindings, Canada.....thous. of bush.	793	661	838	798	706	925	776	-11.5	-9.0	3,450	3,003	-13.0
Production, oatmeal and rolled oats, Canada.....thous. of lbs.	8,891	7,318	10,263	9,650	8,106	12,133	8,987	-16.0	-9.8	42,786	35,337	-17.4
<b>Barley</b>												
Receipts, principal markets.....thous. of bush.	3,848	2,826	3,080	3,153	2,742	3,891	3,450	-13.0	-20.0	16,271	11,801	-27.5
Visible supply, end of month.....thous. of bush.	9,927	4,894	8,545	7,837	6,511	8,459	6,549	-16.9	-4.9	-----	-----	-----
Exports.....thous. of bush.	1,213	734	1,017	569	778	2,209	1,862	+36.7	-58.2	-----	-----	-----
Price, No. 2, Minneapolis.....dolls. per bush.	.59	.58	.57	.55	.56	.67	.65	+1.8	-13.8	-----	-----	-----
<b>Rye</b>												
Receipts, principal markets.....thous. of bush.	5,946	1,250	505	598	337	914	1,064	-43.6	-68.3	4,142	2,690	-35.1
Visible supply, end of month.....thous. of bush.	8,656	9,184	9,389	11,175	13,427	6,725	6,632	+20.2	+102.5	-----	-----	-----
Exports, including flour.....thous. of bush.	26	28	36	64	47	97	32	-26.6	+46.9	452	175	-61.3
Price, No. 2, Minneapolis.....dolls. per bush.	.98	.91	.78	.66	.68	1.00	.89	+3.0	-23.0	-----	-----	-----
Production, crop estimate.....thous. of bush.	-----	-----	-----	-----	46,831	-----	40,629	-----	-----	-----	-----	-----
<b>Total Grains</b>												
Total grains exports, incl. flour.....thous. of bush.	14,673	15,783	11,707	9,093	9,367	17,319	14,046	+3.0	-33.3	77,949	45,950	-41.1
<b>Rice</b>												
Southern paddy, receipts at mills.....bbls.	797,381	869,702	961,209	283,753	-----	439,439	429,389	-----	-----	31,652,213	32,114,664	+28.0
Shipments:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total from mills.....pockets (100 lbs.)	1,023,346	1,073,165	1,005,421	793,008	-----	766,365	745,097	-----	-----	2,555,991	2,871,594	+12.3
New Orleans.....pockets (100 lbs.)	132,592	88,638	81,050	80,506	63,189	116,548	131,246	-21.5	-1.9	516,591	313,383	-39.3
Stocks, end of month.....pockets (100 lbs.)	2,439,182	2,317,594	2,360,083	1,899,421	-----	2,057,678	1,763,837	-----	-----	-----	-----	-----
Exports.....pockets (100 lbs.)	420,212	323,281	221,954	209,915	152,572	428,450	378,971	-27.3	-59.7	1,680,720	907,722	-46.0
Imports.....pockets (100 lbs.)	53,488	34,334	20,273	25,889	19,755	18,647	21,356	-23.7	-7.5	145,947	100,251	-31.3
<b>Fruits and Vegetables</b>												
<b>Apples:</b>												
Cold-storage holdings, end of month.....thous. of bbls.	7,967	6,034	4,259	4,596	1,297	2,718	1,257	-50.0	+3.2	-----	-----	-----
Car-lot shipments.....carloads.	5,729	6,095	6,314	5,166	3,607	5,379	2,918	-30.2	+23.6	23,650	21,182	-10.4
Potatoes, car-lot shipments.....carloads.	14,826	19,857	19,593	21,681	19,350	22,334	19,341	-10.8	-----	81,022	80,481	-0.7
Onions, car-lot shipments.....carloads.	2,232	3,277	2,743	2,260	2,874	1,497	4,141	+27.2	-30.6	9,865	11,154	+13.1
Citrus fruits, car-lot shipments.....carloads.	10,927	10,091	10,187	10,705	9,653	15,144	16,713	-9.8	-42.2	60,421	40,636	-32.7
<b>Hay</b>												
Receipts.....number of cars.	5,048	6,107	6,071	-----	-----	5,981	4,733	-----	-----	-----	-----	-----
<b>Cattle and Beef</b>												
<b>Cattle movements, primary markets:</b>												
Receipts.....thousands.	1,555	1,639	1,326	1,547	1,644	1,450	1,752	+6.3	-6.2	6,036	6,156	+2.0
Shipments, total.....thousands.	627	623	508	592	639	497	647	+7.9	-1.2	2,110	2,362	+11.9
Shipments, stocker and feeder.....thousands.	255	233	201	207	255	162	292	+23.2	-12.7	749	896	+19.6
Local slaughter.....thousands.	923	995	806	619	1,016	928	1,084	+10.6	-6.3	3,863	3,736	-3.3
<b>Beef products:</b>												
Production, inspected.....thous. of lbs.	370,843	408,525	327,527	358,129	373,813	371,942	392,785	+4.4	-4.8	1,513,260	1,467,994	-3.0
Apparent consumption.....thous. of lbs.	364,142	415,507	335,556	371,113	393,799	389,662	415,181	+6.1	-5.2	1,575,022	1,513,975	-3.9
Exports.....thous. of lbs.	1,175	1,292	1,133	1,431	1,360	1,614	1,073	-5.0	+26.7	5,079	5,216	+2.7
Cold-storage holdings, end of month.....thous. of lbs.	103,883	99,020	95,568	88,743	80,374	81,607	70,714	-9.4	+13.7	-----	-----	-----
<b>Prices:</b>												
Cattle, corn-fed, Chicago.....dolls. per 100 lbs.	12.13	12.47	12.53	12.80	12.56	12.84	13.88	-1.9	-9.5	-----	-----	-----
Steer rounds, No. 2.....dolls. per lb.	.240	.240	.236	.240	.239	.211	.224	-0.4	+6.7	-----	-----	-----
Western dressed steers, N. Y.....dolls. per lb.	.235	.235	.223	.215	.220	.217	.225	+2.9	-2.2	-----	-----	-----
<b>Hogs and Pork</b>												
<b>Hog movements, primary markets:</b>												
Receipts.....thousands.	4,256	4,720	3,791	3,294	3,255	3,436	3,582	-1.2	-9.1	16,151	15,060	-6.8
Shipments, total.....thousands.	1,449	1,797	1,491	1,451	1,280	1,365	1,277	-11.8	+0.2	6,008	6,019	+0.2
Shipments, stocker and feeder.....thousands.	53	38	56	58	57	72	73	-1.7	-21.9	241	209	-13.3
Local slaughter.....thousands.	2,801	2,905	2,297	1,853	1,980	2,073	2,291	+6.9	-13.6	10,114	9,035	-10.7
<b>Pork products, total:</b>												
Production, inspected.....thous. of lbs.	851,300	874,334	705,032	589,968	603,184	635,791	655,418	+2.2	-8.0	3,035,365	2,772,518	-8.7
Apparent consumption.....thous. of lbs.	602,470	692,820	489,976	531,873	566,978	551,810	559,351	+6.6	+1.4	2,276,812	2,281,647	+0.2
Exports.....thous. of lbs.	104,377	105,817	97,263	97,898	77,466	102,276	89,813	-20.9	-13.7	408,543	378,444	-7.4
Cold-storage holdings, end of month:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total.....thous. of lbs.	703,084	779,277	897,478	858,063	817,278	1,101,389	1,108,306	-4.8	-26.3	-----	-----	-----
Fresh and cured.....thous. of lbs.	620,986	687,106	785,564	752,996	712,397	921,961	923,558	-5.4	-22.9	-----	-----	-----
<b>Lard (including in pork products):</b>												
Production.....thous. of lbs.	176,607	177,251	147,725	124,129	-----	133,923	137,953	-----	-----	3,512,618	3,449,105	-12.4
Exports.....thous. of lbs.	80,053	73,291	65,953	66,533	50,045	70,572	59,144	-24.8	-15.4	285,777	255,822	-10.5
Cold-storage holdings, end of month.....thous. of lbs.	82,098	92,171	111,914	105,067	104,881	179,428	184,748	-0.2	-43.2	-----	-----	-----
<b>Prices:</b>												
Hogs, heavy, Chicago.....dolls. per 100 lbs.	9.47	9.61	10.41	9.83	9.98	11.39	11.46	+1.5	-12.9	-----	-----	-----
Ham, smoked, Chicago.....dolls. per lb.	.215	.239	.252	.243	.229	.238	.248	-5.8	-7.7	-----	-----	-----
Lard, prime contract, N. Y.....dolls. per lb.	.108	.109	.112	.107	.107	.125	.122	0.0	-12.3	-----	-----	-----

\* Cumulative through Mar. 31.

† Revised.

‡ As of May 1.

§ Final estimate for 1929.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4.		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>FOODSTUFFS—Continued</b>													
<b>Sheep and Lambs</b>													
Sheep movement, primary market:													
Receipts..... thousands..	1,703	1,903	1,796	2,151	2,230	1,527	2,012	+3.7	+10.8	6,960	8,080	+16.1	
Shipments, total..... thousands..	732	786	735	936	975	699	954	+4.2	+2.2	3,173	3,432	+8.2	
Shipments, stocker and feeder..... thousands..	183	126	101	99	134	122	210	+35.4	-36.2	635	460	-27.6	
Local slaughter..... thousands..	967	1,111	1,041	1,210	1,278	836	1,051	+5.6	+21.6	3,768	4,640	+23.1	
Lamb and mutton:													
Production, inspected..... thous. of lbs..	43,742	50,289	49,564	56,494	55,602	40,888	44,575	-1.6	+24.7	169,372	211,949	+25.1	
Apparent consumption..... thous. of lbs..	43,605	50,814	48,762	56,726	55,493	41,330	46,183	-2.2	+20.2	174,560	211,795	+21.3	
Cold-storage holdings, end of month..... thous. of lbs..	7,217	4,667	5,408	5,174	5,191	3,109	2,533	+0.3	+104.9				
Prices:													
Sheep, ewes, Chicago.....dolls. per 100 lbs..	4.94	6.26	5.18	5.14	5.13	8.42	9.18	-0.2	-44.1				
Sheep, lambs, Chicago.....dolls. per 100 lbs..	12.00	12.68	10.44	9.73	8.94	16.19	16.45	-8.1	-45.7				
<b>Miscellaneous Meats</b>													
Cold-storage holdings, end of mo. thous. of lbs..	89,742	89,144	89,970	85,868	83,043	90,129	88,314	-3.3	-6.0				
<b>Total Meats</b>													
Production, inspected..... thous. of lbs..	1,265,885	1,333,148	1,082,124	1,004,590	1,032,598	1,048,621	1,092,778	+2.8	-5.5	4,717,997	4,452,460	-5.6	
Cold-storage holdings, end of mo. thous. of lbs..	902,026	972,108	1,088,454	1,037,848	985,886	1,276,234	1,269,867	-5.0	-22.4				
Apparent consumption..... thous. of lbs..	1,010,217	1,159,141	872,294	959,712	1,016,270	982,802	1,020,718	+5.9	-0.4	4,026,593	4,007,417	-0.5	
<b>Poultry</b>													
Receipts at 5 markets..... thous. of lbs..	77,325	33,386	24,800	16,954	17,847	17,116	16,846	+5.3	+5.9	85,603	92,987	+8.6	
Cold-storage holdings, end of mo. thous. of lbs..	140,723	141,552	133,172	105,708	77,467	68,728	52,901	-26.7	+46.4				
<b>Fish</b>													
Total catch, prin. ports..... thous. of bbls..	18,074	23,918	27,583	33,166	36,799	27,759	29,042	+11.0	+26.7	96,861	121,466	+25.4	
Cold-storage holdings, 15th of mo. thous. of lbs..	75,847	62,428	49,797	35,536	25,186	37,744	31,687	-29.1	-20.5				
Canned salmon:													
Shipments, United States..... cases..	553,078	505,831	371,960	371,070		364,414	109,690			\$1,316,574	\$1,248,861	-5.1	
Exports, Canada..... cases..	159,488	71,285	91,823	85,427	29,183	89,225	49,177	-65.8	-40.7	417,054	277,718	-33.4	
<b>Butter</b>													
Production (factory)..... thous. of lbs..	94,350	103,949	96,206	108,619	126,255	105,171	124,616	+16.2	+1.3	417,041	435,029	+4.3	
Receipts, 5 markets..... thous. of lbs..	39,843	43,507	41,014	47,179	50,595	46,186	48,707	+7.2	+3.9	181,375	182,295	+0.5	
Cold-storage holdings, creamery, end of month..... thous. of lbs..	81,935	60,230	46,530	30,556	22,948	5,532	5,883	-24.9	+290.1				
Apparent consumption..... thous. of lbs..	160,464	160,417	141,901	162,969	177,990	157,670	170,745	+9.2	+4.2	629,080	643,277	+2.3	
Wholesale price, New York.....dolls. per lb..	.41	.37	.36	.37	.39	.48	.45	+5.4	-13.3				
<b>Cheese</b>													
Total, all varieties:													
Production (factory)..... thous. of lbs..	22,542	23,807	22,293	25,282	35,380	34,698	39,880	+39.9	-11.3	132,558	106,762	-19.5	
Receipts, 5 markets..... thous. of lbs..	10,880	12,525	12,467	12,903	13,026	12,261	12,331	+1.0	+5.6	52,251	50,921	-2.5	
Apparent consumption..... thous. of lbs..	35,695	40,424	33,807	36,957	44,680	34,612	39,886	+20.9	+12.0	151,140	155,868	+3.1	
Cold-storage holdings, end of month..... thous. of lbs..	80,623	69,223	61,891	55,343	53,031	58,153	54,618	-4.2	-2.9				
Imports..... thous. of lbs..	7,015	5,361	4,395	5,247	7,125	5,423	5,553	+35.8	+28.3	23,954	22,128	-7.6	
Exports, United States..... thous. of lbs..	241	181	198	171	199	278	242	+16.4	-17.8	958	749	-21.8	
Exports Canada..... thous. of lbs..	4,963	1,552	280	456	229	726	804	-49.8	-71.5	3,744	2,517	-32.8	
American whole milk:													
Cold-storage holdings, end of month..... thous. of lbs..	63,478	53,672	47,818	41,922	39,343	45,105	42,032	-6.2	-6.4				
Wholesale price, New York.....dolls. per lb..	.28	.21	.21	.21	.21	.24	.24	0.0	-12.5				
<b>Eggs</b>													
Receipts, 5 markets..... thous. of cases..	633	917	1,110	2,063	2,631	1,816	2,596	+27.5	+1.3	6,162	6,721	+9.1	
Cold-storage holdings, end of month:													
Case..... thous. of cases..	704	139	84	2,231	5,751	559	3,952	+157.8	+45.5				
Frozen..... thous. of lbs..	53,644	44,080	35,192	49,751	77,134	34,918	51,825	+55.0	+48.8				
<b>Milk</b>													
Condensed milk:													
Total stocks, mfrs., end of mo.—													
Case goods..... thous. of lbs..	25,462	21,740	18,671	17,495	20,590	8,677	12,534	+17.7	+64.3				
Bulk goods..... thous. of lbs..	23,606	23,475	20,495	20,577	20,602	6,633	11,312	+0.1	+82.1				
Unsold stocks, mfrs., end of mo.—													
Case goods..... thous. of lbs..	20,341	16,502	14,077	13,235	16,213	3,841	7,984	+22.5	+103.1				
Bulk goods..... thous. of lbs..	7,600	6,289	4,685	4,773	5,117	2,799	4,012	+7.2	+27.5				
Exports..... thous. of lbs..	3,100	2,623	3,582	3,477	2,710	4,510	3,643	-22.1	-25.6	18,071	12,392	-31.4	
Wholesale price, New York.....dolls. per case..	6.13	6.13	6.13	6.13	6.13	6.18	6.13	0.0	0.0				
Evaporated milk:													
Manufacturers' stocks, end of mo.—													
Total, case goods..... thous. of lbs..	211,954	175,974	153,202	146,571	162,193	111,868	126,314	+10.7	+28.4				
Unsold, case goods..... thous. of lbs..	169,345	143,769	129,580	125,623	140,343	87,491	89,789	+11.7	+56.3				
Exports..... thous. of lbs..	5,339	5,839	5,121	5,369	6,181	7,768	5,963	+15.1	+3.7	26,358	22,510	-14.6	
Wholesale price, New York.....dolls. per case..	3.95	3.95	3.95	3.95	3.95	4.56	4.30	0.0	-8.1				
Production, condensed and evaporated milk..... thous. of lbs..	117,095	125,073	124,835	153,190	190,551	160,428	207,346	+24.4	-8.1	626,851	593,649	-5.3	
Powdered milk:													
Manufacturers' stocks, end mo. .... thous. of lbs..	31,061	29,833	26,199	25,674	25,203	14,022	16,659	-1.8	+51.3				
Exports..... thous. of lbs..	561	944	454	629	636	480	480	+1.1	+32.5	1,794	2,663	+48.4	
Net new orders..... thous. of lbs..	6,845	8,956	8,767	8,832	10,604	8,182	8,520	+20.1	+24.5	31,025	37,159	+19.8	

Cumulative through Mar. 31.

Revised.



## TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"</i>													
<b>FOODSTUFFS—Continued</b>													
<b>Milk—Continued</b>													
Fluid milk:													
Receipts—													
Boston (includ. cream).....thous. of qts.	18,224	19,192	17,149	19,369	19,400	18,443	18,002	+0.2	+7.8	68,636	75,110	+9.4	
Greater New York.....thous. of qts.	113,742	114,235	104,586	117,880	-----	117,885	113,019	-----	-----	335,795	336,701	+0.3	
Production—													
Minneapolis, St. Paul.....thous. of lbs.	28,884	32,554	-----	-----	-----	31,248	30,960	-----	-----	-----	-----	-----	
Consumption in manufacture of oleomargarine.....thous. of lbs.	9,169	9,035	7,714	7,103	7,903	8,133	7,847	+11.3	+0.7	31,851	31,755	-0.3	
<b>Sugar</b>													
Raw:													
Imports—													
From Hawaii, Porto Rico.....long tons.	14,232	77,132	140,019	185,704	188,571	124,704	143,628	+1.5	+31.3	438,391	591,426	+34.9	
From foreign countries.....long tons.	156,031	192,123	166,971	204,318	272,064	601,727	605,003	+33.2	-54.0	1,906,655	835,476	-56.2	
Meltings, 8 ports.....long tons.	235,605	326,416	328,181	410,063	432,111	505,286	502,980	+5.4	-14.1	1,722,037	1,496,771	-13.1	
Stocks at refineries, end month.....long tons.	682,429	616,247	570,970	529,067	574,224	559,993	779,091	+8.5	-26.3	-----	-----	-----	
Refined:													
Shipments, 2 ports.....long tons.	45,152	60,224	42,906	68,838	72,114	73,231	87,466	+4.8	-17.6	274,501	244,082	-11.1	
Stocks, 2 ports.....long tons.	46,243	32,994	32,746	42,405	63,337	49,451	46,341	+49.4	+36.7	-----	-----	-----	
Exports, including maple.....long tons.	3,363	5,637	4,280	4,487	4,830	10,159	9,265	+7.6	-47.9	37,611	19,234	-48.9	
Prices:													
Wholesale, 96° centrif., N. Y. dolls. per lb.	.038	.037	.037	.036	.035	.037	.037	-2.8	-5.4	-----	-----	-----	
Wholesale, granulated, N. Y. dolls. per lb.	.050	.051	.049	.049	.048	.048	.048	-2.0	0.0	-----	-----	-----	
Retail, granulated, N. Y. dolls. per lb.	.059	.059	.059	.055	.055	.057	.056	0.0	-1.8	-----	-----	-----	
Retail average, 61 cities relative to 1913.	120	120	118	116	115	118	116	-0.9	-0.9	-----	-----	-----	
Cuban movement (raw):													
Receipts at Cuban ports.....long tons.	116,101	192,153	659,637	793,762	669,252	1,061,472	809,807	-15.7	-17.4	3,469,593	2,314,804	-33.3	
Exports.....long tons.	192,160	145,189	179,432	153,083	335,529	659,501	583,906	+119.2	-42.5	1,949,372	813,233	-58.3	
Stocks, end of month.....long tons.	181,460	312,187	815,389	1,411,983	1,754,746	1,296,744	1,509,795	+24.3	+16.2	-----	-----	-----	
<b>Candy</b>													
Sales by manufacturers.....thous. of dolls.	33,734	24,538	24,893	27,312	25,660	29,705	25,917	-6.0	-1.0	109,719	102,403	-6.7	
<b>Coffee</b>													
Imports.....thous. of bags.	955	1,036	1,229	1,134	1,065	1,052	988	-6.1	+7.8	4,108	4,464	+8.7	
Visible supply:													
World.....thous. of bags.	5,079	5,119	5,322	5,264	5,264	4,983	5,207	0.0	+1.1	-----	-----	-----	
United States.....thous. of bags.	693	671	852	895	851	822	788	-2.7	+8.0	-----	-----	-----	
Receipts, total, Brazil.....thous. of bags.	1,553	1,455	1,469	1,264	1,152	1,175	1,141	-8.9	+1.0	4,581	5,340	+16.6	
Clearances:													
Total, Brazil, for world.....thous. of bags.	1,199	1,470	1,427	1,169	1,152	1,041	1,119	-1.5	+2.9	4,501	5,218	+15.9	
Total, Brazil, for U. S.....thous. of bags.	587	881	722	590	548	501	511	-7.1	+7.2	2,374	2,741	+15.5	
Price, Rio No. 7, Brazil grades.....dolls. per lb.	.099	.103	.105	.103	.099	.180	.176	-3.9	-43.7	-----	-----	-----	
<b>Tea</b>													
Imports.....thous. of lbs.	8,680	6,537	5,602	6,355	5,796	5,470	5,418	-8.8	+7.0	27,763	24,290	-12.5	
Price, Formosa fine, New York.....dolls. per lb.	.304	.300	.300	.300	.300	.330	.330	0.0	-9.1	-----	-----	-----	
<b>Cocoa</b>													
Shipments from the Gold and Nigerian Coasts, Africa.....long tons.													
Imports.....long tons.	36,748	43,838	29,551	25,543	13,951	35,396	17,670	-45.4	-21.0	152,922	112,883	-26.2	
Spot price, Accra, New York.....dolls.	22,824	25,176	15,082	11,595	12,164	25,041	29,182	+4.9	-58.3	93,212	64,017	-34.8	
Price, Rio No. 7, Brazil grades.....dolls. per lb.	.0931	.0938	.0925	.0875	.0869	.1088	.1044	-0.7	-16.8	-----	-----	-----	
<b>TOBACCO</b>													
Consumption (tax-paid withdrawals):													
Large cigars.....thousands.	410,863	418,900	426,522	454,766	469,969	491,305	550,912	+3.3	-14.7	1,907,409	1,770,157	-7.2	
Small cigarettes.....thousands.	8,261,357	10,208,232	8,465,005	9,165,175	9,535,460	8,689,510	9,608,221	+4.0	-0.8	36,520,493	37,373,872	+2.3	
Manufac. tobacco and snuff.....thous. of lbs.	24,682	33,014	30,308	31,458	31,261	31,663	31,950	-0.6	-2.2	125,856	126,041	+0.1	
Exports:													
Unmanufactured.....thous. of lbs.	66,504	46,885	57,037	54,887	43,364	30,673	39,634	-21.0	+9.4	164,814	202,173	+22.7	
Cigarettes.....thousands.	683,757	465,464	430,886	497,814	366,674	799,935	805,777	-26.3	-54.5	3,542,377	1,760,838	-50.3	
Sales of loose-leaf warehouses.....thous. of lbs.	73,484	60,907	23,079	-----	-----	25,726	3,245	-----	-----	-----	-----	-----	
Stocks, end of quarter:													
Chewing, smoking, snuff, and export.....thous. of lbs.	21,373,859	-----	-----	21,508,876	-----	21,456,391	-----	+9.8	+3.6	-----	-----	-----	
Cigar tobacco.....thous. of lbs.	292,645	-----	-----	358,224	-----	389,439	-----	+22.4	-8.0	-----	-----	-----	
Total, including imported.....thous. of lbs.	21,754,451	-----	-----	21,965,246	-----	21,949,002	-----	+12.0	+1.0	-----	-----	-----	
<b>TRANSPORTATION</b>													
<b>River and Canal Cargo Traffic</b>													
Panama Canal:													
Total cargo traffic.....thous. of long tons.	2,525	2,612	2,378	2,558	2,457	2,744	2,720	-3.9	-9.7	10,873	10,005	-8.0	
In American vessels.....thous. of long tons.	1,219	1,198	1,058	1,272	1,120	1,229	1,194	-11.9	-6.2	4,779	4,648	-2.7	
In British vessels.....thous. of long tons.	718	589	727	611	685	755	735	+12.1	-6.8	3,112	2,612	-16.1	
Sault Ste. Marie canals.....thous. of short tons.	482	-----	-----	-----	410	-----	4,406	-----	-90.7	4,406	410	-90.7	
New York State canals.....thous. of short tons.	-----	60	-----	-----	-----	-----	60	-----	-----	-----	-----	-----	
Cape Cod Canal.....short tons.	189,811	186,172	162,509	151,515	184,002	146,483	166,205	+21.4	+10.7	591,818	684,198	+15.6	
Suez Canal.....thous. of met. tons.	2,919	2,744	2,474	2,634	-----	3,157	3,103	-----	-----	3,829	3,852	+11.1	
Welland Canal.....short tons.	47,603	-----	-----	-----	141,679	-----	299,020	-----	-52.6	299,020	141,679	-52.6	
St. Lawrence Canal.....short tons.	23,942	-----	-----	-----	110,804	-----	215,402	-----	-48.6	215,402	110,804	-48.6	
Mississippi River Govt. barges.....short tons.	72,804	75,739	75,157	71,087	100,700	104,499	134,747	+41.7	-25.3	480,583	322,683	-32.9	
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.....short tons.	757,527	578,224	709,242	838,991	879,401	840,604	976,992	+4.8	-10.0	2,821,561	3,005,858	+6.5	
Allegheny River.....short tons.	156,993	93,825	61,420	174,445	335,262	187,400	232,204	+92.2	+44.4	589,227	664,952	+12.9	
Monongahela River.....short tons.	2,173,207	2,134,161	2,179,305	2,363,728	2,112,586	2,382,405	2,438,939	-10.6	-13.4	9,069,571	8,789,780	-3.1	

<sup>2</sup> Quarter ending in month indicated.

<sup>3</sup> Cumulative through Mar. 31.

<sup>4</sup> Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>TRANSPORTATION—Continued</b>													
<b>Ocean Traffic</b>													
Clearances, vessels in foreign trade:													
Total.....thous. of net tons.....	5,607	5,693	5,368	5,834	6,703	5,933	6,661	+14.9	+0.6	23,386	23,598	+0.9	
American.....thous. of net tons.....	2,078	2,023	1,977	2,116	2,966	2,145	2,738	+40.2	+8.3	8,742	9,082	+3.9	
Foreign.....thous. of net tons.....	3,529	3,670	3,391	3,718	3,738	3,788	3,924	+0.5	-4.7	14,645	14,517	-0.9	
<b>Shipbuilding</b>													
Completed during month:													
Total.....gross tons.....	13,692	23,779	14,241	23,840	16,930	11,128	20,668	-29.0	-18.1	42,532	78,790	+85.2	
Steel seagoing.....gross tons.....	10,633	21,493	12,217	13,088	4,166	3,919	9,468	-68.2	-56.0	18,114	50,964	+181.4	
Building or under contract, end of month:													
Merchant vessels.....thous. of gross tons.....	372	376	341	327	366	187	290	+11.9	+26.2	771	1,410	+82.9	
<b>Freight Cars</b>													
Surplus (daily av. last week of month):													
Total.....cars.....	447,141	392,552	440,275	465,920	427,925	279,107	220,821	-8.2	+93.8				
Box.....cars.....	246,982	217,024	206,531	203,590	203,192	95,429	89,952	-0.2	+125.9				
Coal.....cars.....	144,353	123,469	180,089	206,066	168,930	136,452	87,367	-18.0	+93.4				
Shortage (daily av. last week of month):													
Total.....cars.....		9				40	19						
Box.....cars.....						40							
Coal.....cars.....													
Car loadings:													
Total.....cars.....	3,340,993	3,349,424	3,505,962	4,414,625	3,619,293	4,815,937	3,989,142	-18.0	-9.3	16,142,670	14,889,304	-7.8	
Grain and grain products.....cars.....	159,676	156,665	174,980	201,047	156,454	213,212	143,913	-22.2	+8.7	727,878	689,146	-5.3	
Livestock.....cars.....	101,798	108,036	102,960	118,071	96,373	121,103	106,879	-18.4	-9.8	451,604	425,440	-5.8	
Coal and coke.....cars.....	816,589	828,272	797,867	735,508	571,469	846,691	632,491	-22.3	-9.6	3,234,748	2,933,116	-9.3	
Forest products.....cars.....	181,810	181,810	217,239	294,071	229,747	335,063	278,384	-21.9	-17.5	1,071,302	922,867	-13.9	
Ore.....cars.....	32,877	33,657	33,474	45,119	50,805	57,113	110,678	+12.6	-54.1	240,406	163,055	-32.2	
Merchandise and l. c. l.....cars.....	908,085	890,152	938,429	1,251,013	1,004,425	1,306,178	1,062,048	-19.7	-5.4	4,254,324	4,084,019	-4.0	
Miscellaneous.....cars.....	1,140,158	1,150,832	1,241,013	1,769,796	1,510,020	1,936,577	1,654,749	-14.7	-8.7	6,162,408	5,671,661	-8.0	
<b>Railroad Operations</b>													
Operating revenues:													
Freight.....thous. of dolls.....	340,821	337,993	327,061	345,204		393,862	393,058						
Passenger.....thous. of dolls.....	74,438	70,452	61,254	61,788		71,890	67,509						
Total operating.....thous. of dolls.....	468,879	451,190	427,941	452,717		517,563	513,955						
Operating expenses.....thous. of dolls.....	362,814	356,469	330,579	351,279		377,758	376,494						
Net operating income.....thous. of dolls.....	72,227	55,474	59,452	61,074		97,405	94,204						
Freight carried.....mills. ton-miles.....	36,040	36,664	34,341	35,310		40,228	38,334						
<b>Railway Equipment</b>													
Locomotives (Am. Ry. Assn.):													
Owned, end of month—													
Quantity.....number.....	56,819	56,753	56,654	56,486	56,469	58,322	58,144		-2.9				
Tractive power.....mills. of lbs.....	2,531	2,530	2,530	2,528	2,531	2,553	2,550	+0.1	-0.7				
In bad order, end of month—													
Quantity.....number.....	7,662	7,937	8,342	8,274	8,222	8,042	8,057	-0.6	+2.0				
Per cent of total in use.....per cent.....	13.6	14.1	14.8	14.8	14.7	13.9	14.0	-0.7	+5.0				
Installed.....number.....	158	160	115	142	149	121	130	+4.9	+14.6	476	566	+18.9	
Retired.....number.....	377	227	218	310	166	307	308	-46.5	-46.1	1,065	921	-13.5	
New orders.....number.....	167	163	16	43	29	142	58	-32.6	-50.0	296	251	-15.2	
Shipments, manufacturers' (Census)—													
Total.....number.....	67	48	67	68	97	35	61	+42.6	+59.0	142	280	+97.2	
Steam, domestic.....number.....	62	48	60	64	94	31	57	+46.9	+64.9	114	266	+133.3	
Electric, domestic.....number.....	1		4	2		4	2			13	6	-53.8	
Unfilled orders (railroads), end of mo.—													
From manufacturers.....number.....	336	334	343	310	239	326	308	-22.9	-22.4				
In railroad shops.....number.....	95	107	107	132	123	46	38	-6.8	+23.7				
Unfilled orders, manufacturers' (Census)—													
Total.....number.....	490	587	533	535	464	488	495	-13.3	-6.3				
Steam, domestic.....number.....	435	527	479	485	417	419	419	-14.0	-0.5				
Electric, domestic.....number.....	45	50	46	44	44	24	24	0.0	+83.3				
Exports, steam.....number.....	13	2	8	10	4	22	10	-60.0	-60.0	63	24	-61.9	
Freight cars (Am. Ry. Assn.):													
Owned, end of month—													
Quantity.....thous. of cars.....	2,263	2,265	2,267	2,268	2,270	2,268	2,267	+0.1	+0.1				
Capacity.....mills. of lbs.....	209,516	209,842	210,315	210,315	210,697	208,507	208,569	+0.2	+1.0				
In bad order, end of month—													
Quantity.....cars.....	118,807	124,260	122,327	129,895	129,865	139,538	142,543		-8.9				
Per cent of total in use.....per cent.....	5.4	5.6	5.5	5.9	5.9	6.3	6.5	0.0	-9.2				
New orders.....cars.....	9,785	6,632	15,931	4,464	1,543	11,068	6,983	-65.4	-77.9	44,896	28,570	-36.4	
Shipments—													
Total.....cars.....	7,856	8,095	9,600	6,144	9,087	3,599	5,510	+47.9	+64.9	12,075	32,926	+172.7	
Domestic.....cars.....	7,513	7,426	9,366	6,066	8,874	3,589	5,300	+46.3	+67.4	10,301	31,732	+208.0	
Unfilled orders (railroads)—													
Total.....cars.....	34,085	33,457	30,800	35,181	31,846	41,197	43,486	-9.5	-26.8				
From manufacturers.....cars.....	29,796	28,057	25,722	29,058	26,518	35,360	36,674	-8.7	-27.7				
In railroad shops.....cars.....	4,289	5,400	5,078	6,123	5,328	5,837	6,812	-13.0	-21.8				
Passenger cars:													
New orders.....cars.....	77	58	134	169	70	53	250	-58.6	-72.0	552	431	-21.9	
Shipments—													
Total.....cars.....	116	95	78	61	77	87	86	+26.2	-10.5	374	311	-16.8	
Domestic.....cars.....	116	80	78	51	65	87	78	+27.5	-16.7	364	274	-24.7	

<sup>1</sup> Revised.

TREND OF BUSINESS MOVEMENTS--Continued

	1929					1930					PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4.		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929	
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930					
<b>TRANSPORTATION--Continued</b>																
<b>Highways</b>																
Concrete pavements, new contracts:																
Total.....thous. of sq. yds..	7,462	6,595	6,887	13,700	18,570	6,000	16,654	+35.5	+11.5	33,356	45,752	+37.2				
Road.....thous. of sq. yds..	5,043	5,244	5,357	11,294	14,338	2,826	12,315	+27.0	+16.4	22,919	36,233	+58.1				
Federal-aid highways:																
Completed--																
Cost.....thous. of dolls..	28,326	7,680	9,266	6,185	6,031	4,570	7,410	-2.5	-18.6	41,225	29,162	-29.3				
Distance.....miles..	813	273	358	227	302	151	211	+33.0	+43.1	1,292	1,160	-10.2				
Under construction, end of month.....miles..	7,256	7,054	6,843	6,824	7,230	7,665	7,707	+5.9	-6.2	30,886	27,951	-9.5				
<b>Passenger Travel</b>																
National parks:																
Visitors.....number..	35,762	47,296	48,342	67,306	75,515	72,377	64,807	+12.2	+16.5	226,931	238,459	+5.1				
Automobiles entered.....number..	5,675	19,335	9,926	12,841	14,322	8,498	10,460	+11.5	+36.9	37,266	56,424	+51.4				
Arrivals from abroad:																
Immigrants.....number..	17,842	14,767	13,585	19,759	20,145	20,145	28,565			55,205	48,111	-12.9				
United States citizens.....number..	21,177	23,985	34,234	40,727	40,727	37,375	32,288			94,041	98,946	+5.2				
Departures abroad:																
Emigrants.....number..	4,880	3,947	3,180	2,900	2,449	2,449	3,387			11,273	10,027	-11.1				
United States citizens.....number..	27,404	31,991	33,796	37,930	27,972	27,972	25,277			89,127	103,717	+16.4				
Passports issued.....number..	7,323	8,485	9,899	18,802	33,148	17,066	29,995	+76.3	+10.5	65,462	70,334	+7.4				
Pullman Company operations:																
Revenue.....thous. of dolls..	6,507	7,143	6,331	6,316	6,627	6,627	6,404			20,077	19,790	-1.4				
Passengers carried.....thousands..	2,731	2,760	2,379	2,457	2,726	2,726	2,582			8,117	7,596	-6.4				
Trend of business in hotels:																
Room occupancy.....per ct. of capacity..	67	73	70	67	68	69	71	+1.5	-4.2							
Average sale per occupied room.....dollars..	3.92	4.04	4.05	3.90	4.05	3.94	4.09	+3.8	-1.0							
<b>Warehouses</b>																
Public merchandise warehouses, space occupied.....per ct. of total..	75.9	74.6	71.7	69.6	69.9	71.8										
<b>PUBLIC UTILITIES</b>																
Telephone companies:																
Operating revenues.....thous. of dolls..	78,675	77,845	75,398	79,200	74,899	74,899	74,830			220,721	232,443	+5.3				
Operating income.....thous. of dolls..	18,271	18,012	17,287	17,984	17,825	17,825	17,776			55,362	53,283	-3.8				
Telegraph companies:																
Commercial telegraph tolls.....thous. of dolls..	11,298	10,518	9,844	10,790	11,864	11,864	11,328			33,309	31,152	-6.5				
Operating revenues.....thous. of dolls..	14,572	13,454	12,652	13,865	14,911	14,911	14,344			42,104	39,971	-5.1				
Operating income.....thous. of dolls..	2,304	435	532	1,442	1,951	1,951	1,700			5,005	2,409	-51.9				
Gas and electric companies:																
Gross earnings.....thous. of dolls..	211,500	211,000	199,500	199,000	195,000	195,000	190,000			592,000	609,500	+3.0				
Net earnings.....thous. of dolls..	100,000	92,000	90,000	88,000	85,000	85,000	83,000			263,000	270,000	+2.7				
Electric railways (212 companies):																
Passengers carried.....thous. of persons..	795,643	781,927	705,454	760,269	728,820	820,405	774,517	-4.1	-5.9	3,135,788	2,976,470	-5.1				
Average fare.....cents..	8.272	8.288				8.202	8.202									
<b>ELECTRIC POWER</b>																
Electric power production:																
Total.....mills. of kw.-hours..	8,513	8,652	7,623	8,164	7,989	7,881	7,881			23,659	24,439	+3.3				
By water power.....mills. of kw.-hours..	2,751	2,935	2,704	3,260	3,147	3,285	3,285			8,287	8,899	+7.4				
By fuels.....mills. of kw.-hours..	5,762	5,717	4,919	4,904	4,842	4,596	4,596			15,372	15,540	+1.1				
In street railways, manuf. plants, etc.....mills. of kw.-hours..	402	412	441	511	382	375	375			1,202	1,364	+13.5				
In central stations.....mills. of kw.-hours..	8,111	8,240	7,182	7,653	7,607	7,506	7,506			22,457	23,075	+2.8				
Electric power production (Canada):																
Total.....mills. of kw.-hours..	1,535	1,546	1,391	1,508	1,471	1,409	1,409			4,325	4,445	+2.8				
By water power.....mills. of kw.-hours..	1,497	1,505	1,364	1,484	1,441	1,379	1,379			4,235	4,353	+2.8				
Exported.....mills. of kw.-hours..	102	113	117	127	111	111	111			352	357	+1.4				
Electric power, gross revenue.....thous. of dolls..	192,200	198,300	186,100	177,100	170,500	168,100	168,100			534,300	561,500	+5.1				
Consumption of electrical energy:																
By geographic divisions--																
United States.....rel. to 1923-25..	116.4	121.8	123.5	120.2	120.3	135.7	136.4	+0.1	-11.8							
New England.....rel. to 1923-25..	107.0	120.5	113.3	105.0	102.9	130.8	125.4	-2.0	-17.9							
North Central.....rel. to 1923-25..	109.0	128.0	136.8	128.4	125.7	141.9	146.5	-2.1	-14.2							
Middle Atlantic.....rel. to 1923-25..	120.5	125.8	126.0	122.2	117.2	130.4	128.0	-4.1	-8.4							
Southern.....rel. to 1923-25..	130.4	110.0	118.3	121.7	117.3	125.4	126.3	-3.6	-7.1							
Western.....rel. to 1923-25..	126.0	115.2	127.5	117.4	127.6	138.2	137.0	+8.7	-6.9							
By industry.....rel. to 1923-25..																
All industry.....rel. to 1923-25..	116.4	121.8	123.5	120.2	120.3	135.7	136.4	+0.1	-11.8							
Chemical and allied products.....rel. to 1923-25..	148.0	136.7	139.6	140.0	137.2	133.0	131.7	-2.0	+4.2							
Food and kindred products.....rel. to 1923-25..	121.1	132.3	129.2	129.8	119.4	122.2	121.2	-8.0	-1.5							
Rolling mills and steel plants.....rel. to 1923-25..	120.5	143.1	143.0	136.8	138.3	160.3	153.3	+1.1	-9.8							
Metal working plants.....rel. to 1923-25..	127.2	126.7	130.5	132.0	125.5	151.4	148.3	-4.9	-15.4							
Metal groups.....rel. to 1923-24..	124.9	132.9	135.0	133.7	130.2	154.9	149.9	-2.6	-13.1							
Leather and its products.....rel. to 1923-25..	89.0	92.3	86.5	80.8	91.2	93.4	82.0	+12.9	+11.2							
Lumber and its products.....rel. to 1923-25..	92.8	87.5	94.7	93.7	102.8	104.2	108.0	+9.7	-4.8							
Paper and pulp.....rel. to 1923-25..	132.1	120.8	138.0	135.0	126.7	129.2	136.0	-6.1	-6.8							
Rubber and its products.....rel. to 1923-25..	108.4	144.4	185.4	130.3	138.5	155.8	155.7	+6.3	-11.0							
Shipbuilding.....rel. to 1923-25..	120.4	124.4	125.4	117.7	130.1	99.7	116.1	+10.5	+12.1							
Stone, clay, and glass.....rel. to 1923-25..	146.2	124.2	116.7	117.9	129.9	138.0	145.0	+10.2	-10.4							
Textiles.....rel. to 1923-25..	109.8	112.4	103.3	99.6	102.3	126.6	128.1	+2.7	-20.1							
Automobiles, including repair parts.....rel. to 1923-25..	79.4	9.8	116.6	108.9	112.9	154.5	170.6	+3.7	-33.8							

3 Cumulative through Mar. 31.

4 Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

	1929	1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4,		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
		Decem-ber	January	Febru-ary	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	
<b>EMPLOYMENT AND WAGES</b>												
Employment in factories:												
New York State.....rel. to 1923	84.2	82.3	81.9	81.8	80.3	88.7	88.3	-1.8	-9.1			
Maryland.....rel. to 1924	89.2	86.2	87.2	87.5	88.6	90.9	91.8	+1.3	-3.5			
Iowa.....rel. to 1923	126.8	122.9	125.2	123.0	124.3	125.2	127.4	+1.1	-2.4			
Illinois.....rel. to 1925-27	99.3	97.8	98.0	96.9	95.0	102.2	103.0	-2.0	-7.8			
Wisconsin.....rel. to 1923	90.1	90.0	90.7	90.6		98.5	99.2					
Ohio.....rel. to 1923	102	101				113	115					
Cleveland.....rel. to Jan., 1921	106.2	109.1	107.4	106.7		123.4	123.1					
Detroit.....rel. to 1923-25	98.0	106.5	108.0	108.5	110.5	136.0	136.0	+1.8	-18.7			
New York State.....number	465,915	455,480	453,284	452,472	444,133	490,879	488,390	-1.8	-9.1			
Oklahoma.....number	34,093	33,081	32,938			32,471	34,809					
Total pay roll:												
New York State (weekly).....thous. of dolls.	13,860	13,524	13,304	13,481	13,030	14,897	14,687	-3.3	-11.3			
Oklahoma (weekly).....thous. of dolls.	934	900	916			871	908					
Wisconsin.....rel. to 1923	89.7	87.7	93.0	96.9		110.7	111.5					
New York State.....rel. to 1923	91.9	89.7	88.3	89.4	86.4	98.8	97.4	-3.4	-11.3			
Illinois.....rel. to 1925-27	96.3	91.2	94.0	90.1	89.1	101.6	105.2	-1.1	-15.3			
Employment,:												
Canada.....rel. to calendar year 1926	119.1	111.2	111.6	119.2	107.3	111.4	110.4	-2.2	-2.4			
Ohio construction.....rel. to 1923	112.0	90.4				95.9	107.8					
Employment, trade-unions:												
United States.....per cent of total	84.0	80.0	78.0	79.0	79.0	86.0	88.0	0.0	-10.2			
Canada.....per cent of total	88.6	89.2	93.2	88.5	89.2	94.0	94.5	+0.8	-5.6			
Anthracite mines:												
Employment.....rel. to 1923-25	110.8	105.6	107.8	83.3	84.8	101.3	104.1	+1.8	-18.5			
Pay roll.....rel. to 1923-25	110.3	92.1	103.7	67.1	63.9	79.5	77.4	-4.8	-17.4			
Federal civilian employees,												
Washington, D. C., end month.....number	63,946	64,356	64,662	64,954	65,778	62,926	63,507	+1.3	+3.6			
Average weekly earnings, factories:												
Illinois.....dollars	28.12	28.30	29.24	28.25	28.49	28.92	38.96	+0.8	-1.6			
New York State.....dollars	29.75	29.70	29.36	29.80	29.35	30.35	30.07	-1.5	-2.4			
Wisconsin.....dollars	24.18	24.10	24.84	25.75		26.95	26.94					
Oklahoma.....dollars	27.38	27.21	27.81			26.81	26.08					
New York.....rel. to 1923	109.2	109.0	107.8	109.4	107.7	111.4	110.4	-1.6	-2.4			
Illinois.....rel. to 1925-27	99.1	99.7	103.1	99.6	100.4	101.9	102.1	+0.8	-1.7			
Wisconsin.....rel. to 1923	98.2	95.9	102.0	106.4		112.4	112.4					
Average weekly earnings (National Industrial Conference Board):												
Grand total (both sexes).....dollars	27.53	27.51	27.90	27.59	27.64	28.53	28.53	+0.2	-3.1			
Total male.....dollars	29.83	29.53	29.75	29.37	29.74	31.68	31.61	+1.3	-5.9			
Skilled male.....dollars	31.25	30.87	31.08	30.70	31.09	33.15	33.09	+1.3	-6.0			
Unskilled male.....dollars	24.35	24.31	24.59	24.14	24.41	26.07	25.95	+1.1	-5.9			
Total women.....dollars	17.36	17.02	17.09	16.84	16.59	17.76	17.85	-1.5	-7.1			
Average weekly hours:												
Nominal (both sexes).....hours	49.2	49.2	49.3	49.0	48.8	49.8	49.8	-0.4	-2.0			
Actual (both sexes).....hours	47.4	46.4	46.7	46.3	46.1	49.5	49.3	-0.4	-6.5			
Wages, road labor, by districts:												
New England.....cents per hour	51	52	51	52	51	51	51	-1.9	0.0			
Middle Atlantic.....cents per hour	45	47	44	44	42	44	42	-4.5	0.0			
South Atlantic.....cents per hour	27	25	25	25	27	23	27	+8.0	0.0			
East South Central.....cents per hour	25	25	25	27	25	27	27	-7.4	-7.4			
West South Central.....cents per hour	31	31	29	28	33	33	31	+17.9	+6.5			
East North Central.....cents per hour	39	40	40	38	38	42	38	0.0	0.0			
West North Central.....cents per hour	38	40	39	37	38	37	37	+2.7	+2.7			
Mountain.....cents per hour	50	46	46	46	46	43	44	0.0	+4.5			
Pacific.....cents per hour	53	53	53	53	53	52	53	0.0	0.0			
United States, average.....cents per hour	40	40	39	39	40	37	38	+2.6	+5.3			
Wage rates, U. S. Steel Corp.....cents per hour	50	50	50	50	50	50	50	0.0	0.0			
Wages, steel sheet workers.....per cent of base	127.0	127.0	127.0	127.0	127.0	125.5	125.5	0.0	+1.2			
Applicants per 100 jobs, employment agencies:												
United States.....number	166	201	201	180	162	142	128	-10.0	+26.6			
Eastern States.....number	187	231	213	217	177	144	126	-18.4	+40.5			
Central States.....number	181	231	225	189	177	153	134	-6.3	+32.1			
Southern States.....number	222	250	271	254	217	215	200	-14.6	+8.5			
Western States.....number	77	101	91	83	74	76	73	-10.8	+1.4			
Illinois.....number	177	257	246	209	190	156	134	-9.1	+41.8			
Wisconsin.....number	163	196	186	177	159	138	117	-10.2	+35.9			
Canada.....number	154	160	164	157		148	127					
<b>Factory Labor Turnover</b>												
(Percentage of number on pay roll)												
Departures:												
Total.....per cent (annual basis)	29.3	28.1	33.0	31.9	35.1	49.2	55.7	+10.0	-37.0			
Voluntary quits.....per cent (annual basis)	12.7	13.1	16.0	16.3	17.7	36.8	43.3	+8.6	-59.1			
Lay offs.....per cent (annual basis)	14.2	12.2	13.8	12.1	14.1	5.7	5.5	+16.5	+156.4			
Discharges.....per cent (annual basis)	2.4	2.8	3.2	3.5	3.3	6.7	6.9	-5.7	-32.2			
Accessions.....per cent (annual basis)	14.6	23.7	26.9	23.0	24.3	61.2	70.2	+5.7	-65.4			
Industrial disputes:												
Disputes.....number	23	21	32	32		42	52					
Workers involved.....number	2,401	5,316	6,569	5,171		41,321	52,292					
Man-days lost in month.....number	96,930	182,202	438,587	289,561		1,094,161	1,429,046					
<b>DISTRIBUTION MOVEMENT</b>												
<b>Retail Sales</b>												
Mail-order houses:												
Total sales, 2 houses.....thous. of dolls.	90,019	51,274	46,601	47,582	56,561	53,413	55,619	+18.9	+1.7	202,828	202,108	-0.4
Sears, Roebuck & Co.....thous. of dolls.	54,220	32,943	28,285	26,950	32,785	30,796	34,046	+21.7	-3.7	121,854	120,963	-0.7
Montgomery Ward & Co.....thous. of dolls.	35,799	18,331	18,406	20,632	23,776	22,617	21,573	+15.2	+10.2	80,974	81,145	+0.2

\* Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>DISTRIBUTION MOVEMENT—Contd.</b>													
<b>Retail Sales—Continued</b>													
Ten-cent chain stores:													
Total sales (4 chains).....thous. of dolls.	87,948	34,657	37,523	42,323	46,371	46,135	41,651	+9.6	+11.3	157,650	160,874	+2.0	
Total stores operated (4 chains).....number	2,870	2,880	2,892	2,908	2,922	2,695	2,711	+0.5	+7.8				
F. W. Woolworth & Co.....thous. of dolls.	44,153	18,408	20,030	22,482	24,869	24,525	22,062	+8.4	+10.5	83,622	85,289	+2.0	
Stores operated.....number	1,828	1,829	1,835	1,845	1,853	1,750	1,759	+0.4	+5.3				
S. S. Kresge Co.....thous. of dolls.	24,242	9,352	9,944	11,260	12,724	12,567	11,368	+13.0	+11.9	42,728	43,280	+1.3	
Stores operated.....number	597	604	611	617	624	517	523	+1.1	+10.3				
McCroly Stores Corp.....thous. of dolls.	7,293	2,695	2,907	3,358	3,651	3,735	3,158	+8.7	+15.6	12,428	12,611	+1.5	
Stores operated.....number	242	243	241	241	240	234	235	+0.4	+2.1				
S. H. Kress & Co.....thous. of dolls.	12,260	4,202	4,642	5,225	5,627	5,308	5,069	+7.7	+11.1	18,872	19,696	+4.4	
Stores operated.....number	203	204	205	205	205	194	194	0	+5.7				
Metropolitan.....thous. of dolls.	3,432	971	995	1,133	1,348	1,148	1,132	+19.0	+19.1	3,961	4,447	+12.3	
Stores operated.....number	151	150	149	148	147	111	112	-0.7	+31.3				
W. T. Grant Co.....thous. of dolls.	11,536	3,784	3,911	4,962	5,731	5,141	4,421	+15.5	+29.6	16,407	18,388	+12.1	
Stores operated.....number	276	279	280	283	287	226	226	+1.4	+27.0				
F. & W. Grand.....thous. of dolls.	3,601	1,296	1,326	1,603	1,986	1,712	1,588	+20.8	+21.9	5,371	6,161	+10.6	
Stores operated.....number	94	94	94	94	96	83	86	+2.1	+11.6				
Isaac Silver & Bros.....thous. of dolls.	1,527	457	534	643	751	615	567	+16.8	+32.5	1,988	2,385	+20.0	
Stores operated.....number	45	45	44	45	45	36	36	0	+25.0				
J. C. Penny Co.....thous. of dolls.	29,589	10,611	11,197	14,208	17,452	15,943	14,928	+22.8	+16.9	49,265	53,468	+8.5	
Stores operated.....number	1,395	1,395	1,396	1,416	1,428	1,182	1,207	+0.8	+18.3				
G. C. Murphy Co.....thous. of dolls.	2,649	939	989	1,183	1,291	1,199	1,112	+9.1	+16.1	4,035	4,402	+9.1	
Stores operated.....number	153	154	154	154	155	139	142	+0.6	+9.2				
Restaurant chains:													
Total sales (3 chains).....thous. of dolls.	5,176	4,989	4,580	5,039	4,962	5,027	4,944	-1.5	+0.4	19,148	19,570	+2.2	
Stores operated.....number	375	374	374	374	377	372	372	+0.8	+1.3				
Childs Co., sales.....thous. of dolls.	2,407	2,307	2,148	2,352	2,350	2,355	2,247	-0.9	+3.7	8,930	9,137	+2.3	
Stores operated.....number	111	111	110	110	112	112	112	+1.8	0				
J. R. Thompson Co., sales.....thous. of dolls.	1,320	1,300	1,177	1,307	1,279	1,284	1,359	-2.1	-5.9	5,014	5,063	+1.0	
Stores operated.....number	121	121	121	121	121	124	124	0	-2.4				
Waldorf System (Inc.), sales.....thous. of dolls.	1,449	1,382	1,255	1,380	1,353	1,388	1,338	-2.0	+1.1	5,253	5,370	+2.2	
Stores operated.....number	143	142	143	143	144	136	136	+0.7	+5.9				
Installment sales in New England dept. stores, ratio to total sales.....per cent.	5.4	16.2	10.9			7.1	6.3						
<b>Advertising</b>													
Magazine advertising.....thous. of lines	2,882	1,999	2,382	2,738	3,141	2,870	3,271	+14.7	-4.0				
Magazine advertising, total cost.....thous. of dolls.	18,420	12,411	16,808	18,687	21,862	18,095	21,072	+17.0	+3.7	68,172	69,768	+2.3	
Newspaper advertising.....thous. of lines	100,202	88,873	81,702	97,868	101,259	111,190	107,811	+3.5	-6.1	405,861	369,702	-8.9	
Radio broadcast:													
Cost of facilities.....thous. of dolls.	1,969	1,989	1,873	2,295	2,188	1,610	1,550	-4.7	+41.2	5,790	8,345	+44.1	
National advertising in newspapers:													
Total.....thous. of lines	36,724	47,887	44,996	54,032	52,867	56,099	55,792	-2.2	-5.2	214,469	199,782	-6.8	
Passenger cars.....thous. of lines	2,664	8,000	6,497	6,841	5,817	9,235	9,813	-15.0	-40.7	38,244	27,155	-29.0	
Tires, trucks, and accessories.....thous. of lines	4,279	3,349	3,983	6,105	6,066	4,191	6,003	-0.6	+1.0	17,963	19,503	+8.6	
Financial.....thous. of lines	6,943	9,128	5,221	6,427	7,617	7,975	7,644	+18.5	-0.4	31,936	28,393	-11.1	
Building materials.....thous. of lines	109	129	182	373	615	610	1,268	+64.9	-51.5	2,454	1,299	-47.1	
Electrical appliances, supplies.....thous. of lines	935	664	615	1,329	2,016	1,449	1,484	+51.7	+35.8	4,253	4,624	+8.7	
Foods and beverages.....thous. of lines	3,452	5,355	6,766	7,915	9,220	7,166	7,498	+16.5	+23.0	24,250	29,256	+20.6	
Heating and plumbing equipment.....thous. of lines	344	395	275	377	629	547	624	+66.8	+0.8	2,068	1,676	-19.0	
Medical.....thous. of lines	3,072	6,456	6,206	5,741	3,635	6,563	4,281	-36.7	-15.1	25,802	22,038	-14.6	
Radio.....thous. of lines	4,021	1,603	1,700	1,399	856	2,173	1,386	-38.8	-38.2	8,254	5,588	-32.7	
Tobacco.....thous. of lines	1,515	3,177	3,345	4,497	3,606	3,878	3,146	-19.8	+14.6	13,776	14,625	+6.2	
Toilet requisites.....thous. of lines	1,177	2,432	3,163	4,323	3,674	3,580	3,340	-15.0	+10.0	13,427	13,592	+1.2	
Transportation.....thous. of lines	2,747	2,461	2,175	2,396	2,719	2,305	2,952	+13.5	-7.9	9,591	9,751	+1.7	
All other.....thous. of lines	5,466	4,738	4,866	6,310	6,397	6,428	6,354	+1.4	+0.7	22,472	22,311	-0.7	
<b>Postal Business</b>													
Postal receipts:													
50 selected cities.....thous. of dolls.	40,785	32,199	29,457	32,475	32,644	34,375	32,352	+0.5	+0.9	128,335	126,775	-1.2	
50 industrial cities.....thous. of dolls.	4,565	3,561	3,473	3,562	3,524	3,537	3,454	-1.1	+2.0	13,783	14,120	+2.4	
Money orders:													
Domestic issued (50 cities)—Quantity.....thousands	4,096	3,805	3,597	4,134	3,828	3,959	3,851	-7.4	-0.6	14,916	15,364	+3.0	
Value.....thous. of dolls.	40,876	38,356	35,617	39,827	37,803	38,840	38,188	-5.1	-1.0	147,674	151,603	+2.7	
Domestic paid (50 cities)—Quantity.....thousands	12,850	11,266	10,165	11,791	11,562	12,624	11,825	-1.9	-2.2	65,793	44,784	-31.9	
Value.....thous. of dolls.	101,453	86,593	78,066	88,103	90,646	93,937	90,423	+2.9	+0.2	344,901	343,408	-0.4	
Air mail, weight dispatched.....pounds	618,991	518,398	556,913	625,174	671,391	523,414	508,672	+7.4	+32.0	1,954,736	2,371,876	+21.3	
<b>BANKING AND FINANCE</b>													
Check payments:													
New York City.....mills. of dolls.	39,850	34,732	31,117	40,740	38,631	55,425	47,979	-5.2	-19.5	204,412	145,220	-29.0	
Outside of New York City.....mills. of dolls.	26,932	21,534	21,534	25,014	24,347	28,131	26,803	-2.7	-9.2	107,575	96,618	-10.2	
Canada.....mills. of dolls.	1,858	1,674	1,446	1,627	1,556	1,942	1,873	-4.4	-16.9	7,662	6,303	-17.7	
Federal reserve banks:													
Bills discounted.....mills. of dolls.	632	407	343	241	233	1,030	986	-3.3	-76.4				
Notes in circulation.....mills. of dolls.	1,910	1,702	1,637	1,576	1,507	1,664	1,664	-4.4	-9.4				
Total investments.....mills. of dolls.	915	747	796	840	749	351	343	-10.8	+118.4				
Total reserve.....mills. of dolls.	3,011	3,188	3,187	3,209	3,252	2,893	2,986	+1.3	+8.9				
Total deposits.....mills. of dolls.	2,414	2,369	2,408	2,443	2,434	2,382	2,410	-0.4	+1.0				
Reserve ratio.....per cent.	69.6	78.3	78.8	79.8	82.5	71.5	73.3	+3.4	+12.6				
Federal reserve member banks:													
Total loans and discounts.....mills. of dolls.	17,649	16,676	16,428	16,913	16,964	16,583	16,451	+0.3	+3.1				
Total investments.....mills. of dolls.	5,514	5,529	5,575	5,719	5,791	5,976	5,875	+1.3	-1.4				
Net demand deposits.....mills. of dolls.	14,118	12,949	12,944	13,329	13,581	13,157	13,234	+1.9	+2.6				

\* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>BANKING AND FINANCE—Continued</b>													
Brokers' loans, end of month:													
To N. Y. Stock Ex. members—													
Total.....mills. of dolls.	3,990	3,985	4,168	4,656	5,063	6,804	6,775	+8.7	-25.3				
Ratio to market value.....per cent.	6.17	5.77	5.89	6.12	6.72	9.75	9.19	+9.8	-26.9				
By New York F. R. member banks.....mills. of dolls.	3,424	3,345	3,489	3,968	4,274	5,562	5,532	+7.7	-22.7				
Deposits, New York State savings banks, end of month.....mills. of dolls.	4,392	4,416	4,436	4,509	4,507	4,466	4,439	0.0	+1.5				
Interest rates:													
Time loans, 90 days.....per cent.	4.88	3.88	4.75	4.25	4.13	7.88	8.75	-2.8	-52.8				
Call loans, renewal.....per cent.	4.83	4.64	4.32	3.69	4.00	9.10	8.89	+8.4	-55.0				
Prime com. paper (4-6 mos.).....per cent.	5.00	4.88	4.75	4.25	3.88	5.88	6.00	-8.7	-35.3				
Prime bankers' acceptances.....per cent.	3.88	3.94	3.81	3.13	2.94	5.38	5.50	-6.1	-46.5				
N. Y. Fed. Res. Bank (redis.).....per cent.	4.50	4.00	4.00	3.50	3.50	5.00	5.00	0.0	-30.0				
Federal land banks.....per cent.	5.79	5.79	5.72	5.58	5.58	5.10	5.10	0.0	+9.4				
Intermediate credit banks.....per cent.	5.57	5.34	5.24	5.10	4.98	5.36	5.50	-2.4	-9.5				
<b>Public Finance</b>													
Government debt, gross, end of month.....mills. of dolls.	16,301	16,423	16,460	16,390	16,394	17,237	17,196	0.0	-4.7				
Customs receipts.....thous. of dolls.	39,298	41,278	35,935	42,610	41,071	55,200	50,404	-3.6	-18.5	199,804	160,894	-19.5	
Total ordinary receipts.....thous. of dolls.	742,942	151,193	138,540	674,876	159,053	736,816	173,508	-76.4	-8.3	1,233,007	1,123,664	-8.9	
Expenditures chargeable to ordinary receipts.....thous. of dolls.	443,191	347,351	236,742	362,221	414,147	273,875	335,643	+14.3	+23.4	1,166,607	1,300,461	+16.6	
U. S. money in circulation:													
Daily average.....mills. of dolls.	4,943	4,652	4,556	4,533	4,518	4,709	4,679	-0.3	-3.4				
<b>Gold and Silver</b>													
Gold:													
Domestic receipts at mint.....fine ounces.	82,970	75,955	72,009	73,745	89,694	57,765	65,547	+21.6	+36.8	247,008	311,403	+26.1	
Rand output.....fine ounces.	851,134	882,801	818,188	889,370	868,006	866,529	872,123	-2.3	-0.4	3,430,388	3,458,965	+0.8	
Monetary stock of U. S.—													
daily average.....mills. of dolls.	4,324	4,283	4,319	4,395	4,443	4,166	4,226	+1.1	+5.1				
Imports.....thous. of dolls.	8,121	12,908	60,198	55,768	65,539	26,470	24,687	+17.5	+165.5	126,647	194,413	+53.5	
Exports.....thous. of dolls.	72,547	8,948	207	290	107	1,635	1,594	-63.1	-93.3	6,032	9,552	+58.4	
Silver:													
Production—													
United States.....thous. of fine oz.	4,592	4,753	5,161	4,998	4,704	5,223	5,422	-5.9	-13.2	20,444	19,616	-4.1	
Canada.....thous. of fine oz.	1,761	1,716	1,225	1,714	1,705	1,569	1,151	-0.5	+48.1	5,591	6,360	+13.8	
Stocks, end of month—													
United States.....thous. of fine oz.	529	535	977	338	356	1,274	867	+5.3	-58.9				
Canada.....thous. of fine oz.	827	1,244	1,144	496	690	414	1,032	+39.1	-33.1				
Imports.....thous. of dolls.	4,479	4,756	3,923	4,831	3,469	6,435	3,957	-28.2	-12.3	23,110	16,979	-26.5	
Exports.....thous. of dolls.	6,369	5,892	5,331	5,811	4,557	7,814	5,752	-21.7	-20.8	28,425	21,978	-24.0	
Price at New York.....dolls. per fine oz.	.485	.450	.432	.417	.424	.563	.557	+1.7	-23.9				
<b>Business Failures</b>													
Liabilities (United States):													
Total commercial.....thous. of dolls.	67,465	61,185	51,326	56,846	49,059	36,356	35,270	-13.7	+39.1	159,539	218,416	+36.9	
Manufacturers.....thous. of dolls.	33,266	19,500	20,724	19,414	19,669	15,001	10,423	+1.3	+88.7	54,005	79,307	+46.9	
Trade establishments.....thous. of dolls.	28,550	29,814	20,909	24,293	23,427	17,190	19,102	-3.6	+22.6	86,207	98,443	+14.2	
Agents and brokers.....thous. of dolls.	5,649	11,871	9,693	13,139	5,964	4,165	5,745	-54.6	+3.8	19,329	40,667	+110.4	
Liabilities (Canada).....thous. of dolls.	3,754	6,174	7,539	3,549	2,006	2,531	4,434	-43.5	-17.6	9,940	19,268	+93.8	
Firms (United States):													
Total commercial.....number.	2,037	2,759	2,262	2,347	2,198	1,987	2,021	-6.3	+8.8	8,508	9,566	+12.4	
Manufacturers.....number.	559	680	526	621	534	512	499	-14.0	+7.0	2,103	2,361	+12.3	
Trade establishments.....number.	1,344	1,913	1,605	1,587	1,500	1,349	1,388	-5.5	+8.1	5,894	6,605	+12.3	
Agents and brokers.....number.	134	166	131	139	164	126	134	+18.0	+22.4	521	600	+15.2	
Firms (Canada).....number.	259	265	209	198	177	183	414	-10.6	+22.9	719	849	+18.1	
By groups:													
Manufacturers—													
Metals.....number.	50	32	36	42	42	40	34	0.0	+23.5	144	152	+5.6	
Textiles.....number.	69	106	58	81	61	60	52	-24.7	+17.3	241	306	+27.0	
Lumber.....number.	112	105	94	111	106	103	87	-4.5	+21.8	370	416	+12.4	
Chemicals.....number.	11	14	11	11	9	12	15	-18.2	-40.0	44	45	+2.3	
Printing and engraving.....number.	11	13	17	16	15	10	16	-6.2	-6.2	66	61	-7.6	
Foodstuffs.....number.	28	60	38	42	38	44	48	-9.5	-20.8	178	178	0.0	
Leather, etc.....number.	18	18	13	11	4	11	13	-63.6	-69.2	58	46	-20.7	
Liquors and tobacco.....number.	6	3	4	3	3	8	4	0.0	-25.0	28	13	-53.6	
Stone, clay, and glass.....number.	8	10	3	11	10	9	4	-9.1	+150.0	32	34	+6.3	
All other.....number.	246	319	252	293	246	215	226	-16.0	+8.8	942	1,110	+17.8	
Traders—													
General stores.....number.	102	136	94	124	108	101	88	-12.9	+22.7	416	462	+11.1	
Foods and tobacco.....number.	386	453	376	413	386	429	446	-6.5	-13.5	1,798	1,628	-9.5	
Clothing.....number.	244	437	366	317	270	233	228	-14.8	+18.4	1,058	1,390	+31.4	
Household furniture.....number.	209	380	286	307	277	257	252	-9.8	+9.9	1,149	1,250	+8.8	
Chemicals and paints.....number.	90	97	88	99	80	69	79	-19.2	+1.3	265	364	+37.4	
Books and paper.....number.	6	11	10	13	10	9	15	-23.1	-33.3	54	44	-18.5	
All other.....number.	307	399	385	314	369	251	280	+17.5	+31.8	1,144	1,467	+28.2	
<b>Life Insurance</b>													
(Association of Life Insurance Presidents)													
Policies and certificates, new (44 companies):													
Ordinary.....number of policies.	311,303	254,422	267,344	330,337	310,009	292,232	284,055	-6.2	+9.1	1,035,794	1,162,122	+12.2	
Industrial.....number of policies.	863,763	802,585	783,235	973,678	893,017	1,045,058	964,177	-8.3	-7.4	3,952,862	3,452,515	-12.7	
Group.....number of certificates.	120,316	43,081	34,732	45,913	61,996	35,986	47,028	+35.0	+31.8	167,794	185,722	+10.7	
Total policies and certificates.....number.	1,300,382	1,100,998	1,085,311	1,349,928	1,265,022	1,373,276	1,295,260	-6.3	-2.3	5,156,450	4,800,359	-6.9	
Amount of new insurance (44 companies):													
Ordinary.....thous. of dolls.	841,215	712,855	730,735	884,535	839,531	830,244	793,786	-5.1	+5.8	2,967,415	3,167,656	+6.7	
Industrial.....thous. of dolls.	234,046	218,027	212,813	264,415	241,129	274,824	256,279	-8.8	-5.9	1,027,880	936,384	-8.9	
Group.....thous. of dolls.	160,514	64,313	59,930	73,234	113,514	64,813	72,238	+55.0	+57.1	294,295	310,991	+5.7	
Total insurance.....thous. of dolls.	1,235,775	995,195	1,003,478	1,222,184	1,194,174	1,169,881	1,122,303	-2.3	+6.4	4,289,590	4,415,031	+2.9	

4 Revised.

## TREND OF BUSINESS MOVEMENTS--Continued

	1929					1930					PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 4,		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929	
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930					
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>																
<b>BANKING AND FINANCE--Continued</b>																
<b>Life Insurance--Continued</b>																
<i>(Association of Life Insurance Presidents)--Continued</i>																
Premium collections (44 companies):																
Ordinary.....	thous. of dolls.	190,844	164,920	162,944	183,205	174,280	175,645	172,282	-4.9	+1.2	660,424	685,349	+2.4			
Industrial.....	thous. of dolls.	97,619	58,711	55,659	65,605	53,948	56,159	55,768	-17.8	-3.3	217,689	233,923	+7.5			
Group.....	thous. of dolls.	10,500	9,669	8,099	8,343	7,598	7,515	8,336	-8.9	-8.9	42,449	33,709	-20.6			
Annuities.....	thous. of dolls.	290,023	*14,390	*4,681	*5,249	*5,450	239,319	236,386	+3.9	-8.0	929,562	929,774	+0.2			
Total.....	thous. of dolls.	290,023	*247,690	*231,888	*262,403	*241,280	239,319	236,386	-8.0	+2.1	929,562	982,756	+5.7			
Admitted life insurance assets (40 companies):																
Grand total.....	mills. of dolls.	14,136	14,238	14,329	14,444	14,543	13,173	13,269	+0.7	+9.6						
Mortgage loans--																
Total.....	mills. of dolls.	6,048	6,082	6,100	6,116	6,140	5,675	5,710	+0.4	+7.5						
Farm.....	mills. of dolls.	1,591	1,590	1,588	1,577	1,576	1,597	1,597	-0.1	-1.3						
All other.....	mills. of dolls.	4,457	4,492	4,512	4,539	4,564	4,078	4,113	+0.6	+11.0						
Bonds and stocks (book value):																
Total.....	mills. of dolls.	5,264	5,310	5,344	5,384	5,420	5,007	5,037	+0.7	+7.6						
Government.....	mills. of dolls.	1,053	1,058	1,062	1,061	1,065	1,094	1,017	+0.4	+4.7						
Railroad.....	mills. of dolls.	2,539	2,549	2,554	2,554	2,572	2,472	2,477	+0.7	+3.8						
Public utility.....	mills. of dolls.	1,319	1,348	1,367	1,389	1,398	1,247	1,251	+0.6	+11.8						
All other.....	mills. of dolls.	353	355	361	380	385	284	292	+1.3	+8.8						
Policy loans and premium notes.....																
Total.....	mills. of dolls.	1,842	1,874	1,897	1,922	1,942	1,587	1,608	+1.0	+20.8						
<i>(Life Insurance Sales Research Bureau)</i>																
Sales of ordinary life insurance:																
United States total.....	thous. of dolls.	915,894	755,821	798,709	941,801	897,871	896,333	862,578	-4.7	+4.1	3,222,915	3,394,202	+5.3			
Eastern manuf. dis.....	thous. of dolls.	350,504	325,695	345,320	401,432	370,797	385,309	355,180	-7.6	+4.4	1,372,729	1,443,244	+5.1			
Western manuf. dis.....	thous. of dolls.	211,265	169,279	177,421	215,909	201,268	207,017	196,585	-6.8	+2.4	744,115	763,877	+2.7			
Western agric. district.....	thous. of dolls.	143,354	105,573	107,335	131,342	131,635	122,062	125,988	+0.2	+4.5	449,054	475,885	+6.0			
Southern district.....	thous. of dolls.	110,994	83,228	86,836	98,391	99,928	97,421	98,246	+1.6	+1.7	348,975	368,383	+5.6			
Far western district.....	thous. of dolls.	99,777	72,046	81,797	94,727	94,243	84,524	86,579	-0.5	+8.9	308,042	342,813	+11.3			
Canada total, 15 companies.....	thous. of dolls.	55,350	46,788	45,499	50,327	52,708	49,406	53,333	+4.7	-1.2	201,279	195,322	-3.0			
<b>Dividend and Interest Payments</b>																
Grand total.....	thous. of dolls.	690,947	1,120,014	517,054	608,442	744,881	528,970	*678,800	+22.4	+9.7	2,572,545	2,990,391	+16.2			
Interest payments.....	thous. of dolls.	412,447	557,014	224,154	280,042	419,681	264,170	398,100	+49.9	+5.4	1,377,645	1,480,891	+7.5			
Dividend payments:																
Total.....	thous. of dolls.	278,500	563,000	292,900	328,400	325,200	264,800	*280,700	-1.0	+15.9	1,312,300	1,509,500	+15.0			
Industrial and misc.....	thous. of dolls.	215,500	419,000	220,000	255,000	243,000	204,500	*208,000	-4.7	+16.8	881,800	1,137,000	+28.9			
Steam railroads.....	thous. of dolls.	38,500	54,500	45,200	45,500	40,000	39,300	*34,200	-12.1	+17.0	156,600	185,200	+18.3			
Street railways.....	thous. of dolls.	14,500	17,500	9,700	7,900	10,700	7,800	*10,500	+35.4	+1.9	43,400	45,800	+5.5			
<b>New Security Issues</b>																
Foreign loans in the U. S.....	thous. of dolls.	58,751	75,000	101,000	162,000	165,000	179,691	12,457	+1.9		276,737	503,000	+81.8			
Foreign governments.....	thous. of dolls.	4,000	4,000	40,000	26,000	121,675	10,000		+368.0		35,750	191,675	+436.2			
Corporation, total.....	thous. of dolls.	344,946	702,179	496,209	646,326	679,703	940,780	*720,829	+5.2	-5.7	3,608,061	2,524,417	-30.0			
Purpose of issue--																
New capital.....	thous. of dolls.	261,891	629,083	468,574	630,889	628,444	882,453	*586,657	-0.4	-6.1	3,150,621	2,356,990	-25.2			
Refunding.....	thous. of dolls.	83,055	73,096	27,635	15,437	51,259	58,327	134,172	+232.1	+71.8	457,440	167,427	-63.4			
Type of security--																
Stocks.....	thous. of dolls.	203,594	126,813	156,143	123,388	261,380	565,389	*453,307	+111.8	-39.7	2,305,055	667,724	-71.0			
Bonds and notes.....	thous. of dolls.	141,352	575,366	340,066	522,938	418,323	375,391	287,522	-20.0	+45.5	1,303,006	1,856,693	+43.2			
Class of industry--																
Railroads.....	thous. of dolls.	133,183	60,483	118,225	223,013	178,662	21,500	159,783	-19.9	+11.8	254,591	580,383	+128.0			
Public utilities.....	thous. of dolls.	150,779	492,000	172,445	228,481	130,777	316,262	*127,311	+42.8	-2.7	871,658	1,023,723	+17.4			
Industrials.....	thous. of dolls.	20,897	34,595	141,395	49,931	169,229	215,350	145,118	+238.9	+16.6	700,770	395,150	-48.1			
Oil.....	thous. of dolls.	4,900	2,275	6,500	76,000	63,742	11,594	35,267	-16.1	+80.7	77,528	148,517	+91.6			
Land and buildings.....	thous. of dolls.	12,683	28,193	17,725	17,075	64,541	77,314	33,952	+278.0	+60.1	298,524	127,534	-57.3			
Shipping and misc.....	thous. of dolls.	22,504	84,634	39,119	51,226	72,752	289,395	*202,572	+42.0	-94.1	1,291,960	247,731	-80.8			
States and municipalities:																
Permanent loans.....	thous. of dolls.	286,517	103,851	80,440	*127,028	141,123	109,056	87,343	+11.1	+6.6	358,503	452,442	+26.2			
Temporary loans.....	thous. of dolls.	50,624	96,779	81,724	*102,040	13,030	55,411	105,141	-85.3	-85.4	346,976	295,573	-14.8			
Bond sales (Canada):																
Govt. and provincial.....	thous. of dolls.	33,500	3,358	8,500	4,165	19,820		10,000	+375.9	+98.2	16,417	35,843	+118.3			
Municipal.....	thous. of dolls.	28,139	7,773	12,521	10,821	8,861	5,444	1,420	-18.1	+524.0	30,923	39,976	+29.3			
Corporation.....	thous. of dolls.	31,830	15,000	35,290	15,975	25,400	47,326	2,485	+59.0		91,741	91,665	-0.1			
Tax-exempt securities outstanding, end of month.....																
Total.....	mills. of dolls.	19,040	19,061	19,173	*19,665	19,778	17,221	17,329	+0.6	+14.1						
<b>Agricultural Finances</b>																
Loans outstanding, end mo.:																
Federal farm loan banks.....	thous. of dolls.	1,197,282	1,195,787	1,195,735	1,194,918	1,194,324	1,202,571	1,203,724	0.0	-0.8						
Joint-stock land banks.....	thous. of dolls.	584,824	582,062	580,148	577,195	574,392	604,294	602,421	-0.5	-4.7						
Federal intermediate credit banks.....	thous. of dolls.	76,091	77,129	77,802	81,184	89,507	80,706	77,609	+10.3	+15.3						
<b>Stocks and Bonds</b>																
Stock prices, average daily closing:																
25 industrials, average.....	dolls. per share.	286.95	294.78	315.25	328.24	349.46	355.10	357.70	+6.5	-2.3						
25 railroads, average.....	dolls. per share.	126.84	126.29	131.94	131.55	131.18	129.30	128.49	-0.3	+2.1						
Southern cotton mills.....	dolls. per share.	86.73	85.63	84.90	82.20	80.70	98.10	98.00	-1.8	-17.7						
103 stocks, average.....	dolls. per share.	62.48	63.46	66.56	69.71	64.66	83.61	81.55	-7.2	-20.7						
Stock prices, average weekly closing:																
Industrials, rails, and utilities:																
(402).....	rel. to 1926.	153.8	156.3	165.5	172.4	181.0	189.1	186.6	+5.0	-3.0						
All industrials (335).....	rel. to 1926.	148.9	148.8	155.9	163.0	170.8	196.0	193.4	+4.8	-11.7						
All railroads (33).....	rel. to 1926.	136.3	136.5	142.5	143.2	141.7	140.4	138.3	-1.0	+2.5						
All utilities (34).....	rel. to 1926.	200.9	208.7	236.6	242.1	263.7	203.7	201.4	+8.9	+30.9						

\* Revised.



## TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929		1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 2 THROUGH APR. 2,		Per ct. in-crease (+) or de-crease (-) cumulative 1930 from 1929
	December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	1930		
<b>BANKING AND FINANCE—Continued</b>													
<b>Stocks and Bonds—Continued</b>													
Stock prices, average weekly closing—Contd.													
Automobiles and trucks (13) rel. to 1926	133.6	135.0	145.0	154.9	162.0	284.2	277.6	+4.6	-41.6				
Automobile tires and rubber goods (7) rel. to 1926	99.6	95.9	103.7	111.1	111.1	209.8	200.3	0.0	-44.5				
Airplane (10) rel. to 1926	360.2	363.3	413.8	536.8	647.1	905.1	923.0	+20.5	-29.9				
Agricultural implements (4) rel. to 1926	276.0	296.0	329.1	346.5	393.9	395.0	389.5	+13.7	+1.1				
Chain stores (17) rel. to 1926	106.1	102.3	100.2	99.9	101.1	149.6	148.7	+1.2	-32.0				
Copper and brass (9) rel. to 1926	196.0	192.8	193.3	192.8	174.3	329.3	294.0	-9.6	-40.7				
Food, other than meat (20) rel. to 1926	144.1	146.0	150.6	153.4	159.9	173.9	171.4	+4.2	-6.7				
Machinery and machine equipment (10) rel. to 1926	142.5	145.6	154.4	161.4	172.9	167.2	163.1	+7.1	+6.0				
Oil producing and refining (16) rel. to 1926	131.9	128.8	127.5	140.6	155.7	141.4	147.6	+10.7	+5.5				
Railroad equipment (9) rel. to 1926	123.7	124.1	127.9	126.4	119.8	144.3	142.4	-5.2	-15.9				
Rayon (5) rel. to 1926	96.7	91.2	86.1	84.5	88.0	143.7	143.2	+4.1	-38.5				
Steel and iron (9) rel. to 1926	169.9	177.1	187.8	191.9	196.8	196.6	190.8	+2.6	+3.1				
Textiles (30) rel. to 1926	76.6	78.3	85.0	84.7	83.2	136.2	131.5	-1.8	-36.7				
Theaters, motion pictures, and amusements (7) rel. to 1926	88.6	96.0	121.2	135.5	151.5	146.2	135.8	+11.8	+11.6				
Tobacco and tobacco products (10) rel. to 1926	135.0	139.3	152.3	159.6	157.8	142.5	136.4	-1.1	+15.7				
Traction, motor transportation, etc. (9) rel. to 1926	75.2	78.4	82.4	85.7	85.0	97.4	90.4	-0.8	-6.0				
Stock yields:													
Total common (90) per cent	4.48	4.38	4.14	3.99	3.78	3.31	3.35	-5.3	+12.8				
Industrials (50) per cent	4.83	4.75	4.53	4.36	4.13	3.32	3.32	-5.3	+24.4				
Public utilities (20) per cent	3.08	2.91	2.64	2.55	2.34	2.59	2.65	-8.2	-11.7				
Railroads (20) per cent	5.01	5.03	4.80	4.78	4.84	4.62	4.68	+1.3	+3.4				
Preferred high grade industrial (20) per cent	5.54	5.53	5.52	5.48	5.46	5.44	5.45	-0.4	+0.2				
Stock sales, N. Y. Stock Exch. thous. of shares	83,862	62,308	68,723	96,552	126,910	105,662	82,600	+31.4	+53.6	377,035	354,493	-6.0	
Bond sales:													
Miscellaneous thous. of dolls.	262,174	201,400	195,046	335,934	264,898	201,566	205,649	-21.1	+28.8	817,089	997,278	+22.1	
Liberty-Treasury thous. of dolls.	15,361	7,975	8,136	15,222	9,731	12,149	9,970	-36.1	-2.4	45,395	41,064	-9.5	
Total thous. of dolls.	277,535	209,375	203,182	351,156	274,629	213,715	215,619	-21.8	+27.4	862,484	1,038,342	+20.4	
Bond prices:													
Highest-grade rails p. ct. of par. 4% bond	89.18	89.52	88.81	90.52	89.81	87.87	88.05	-0.8	+2.0				
Second-grade rails p. ct. of par. 4% bond	82.66	82.39	82.66	84.73	84.32	79.13	79.27	-0.5	+6.4				
Public utility p. ct. of par. 4% bond	73.41	73.45	74.10	75.63	75.76	77.68	76.19	+0.2	-0.6				
Industrial p. ct. of par. 4% bond	75.26	74.49	74.59	76.06	76.64	77.49	77.47	+0.8	-1.1				
Comb. price index p. ct. of par. 4% bond	79.65	79.44	79.58	81.27	81.23	80.34	80.00	0.0	+1.5				
Bond prices, 1st of following month:													
5 Liberty bonds p. ct. of par. 50 domestic bonds	103.76	103.08	103.87	104.53	104.16	100.14	101.75	-0.4	+2.4				
40 representative issues p. ct. of par.	97.81	97.90	98.16	99.20	98.87	97.43	98.25	-0.3	+0.6				
Bond yields:													
Total, 60 high grade per cent	4.64	4.64	4.65	4.55	4.54	4.69	4.69	-0.2	-3.2				
Railroads (15) per cent	4.50	4.51	4.53	4.43	4.47	4.59	4.59	+0.9	-2.6				
Industrials (15) per cent	5.03	5.04	5.02	4.95	4.91	5.02	5.02	-0.8	-2.2				
Utilities (15) per cent	4.80	4.79	4.79	4.71	4.69	4.81	4.85	-0.4	-3.3				
Municipal (15) per cent	4.22	4.23	4.24	4.12	4.11	4.32	4.29	-0.2	-4.2				
Municipal bond yield (20) per cent	4.23	4.29	4.27	4.15	4.17	4.34	4.25	+0.5	-1.9				
U. S. Treasury notes and certificates, 3-6 months per cent	3.03	3.39	3.36	2.95	3.00	4.60	4.80	+1.7	-37.5				
Liberty and Treasury bonds per cent	3.46	3.51	3.50	3.40	3.46	3.76	3.67	+1.8	-5.7				
Long-term and real-estate bonds issued:													
Grand total thous. of dolls.	8,100	23,363	15,290	11,350	27,435	68,431	21,711	+141.7	+26.4	185,256	77,438	-58.2	
Purpose of issue—													
Finance construction thous. of dolls.	4,530	17,500	3,050	4,740	8,295	23,250	12,962	+75.0	-36.0	58,767	33,585	-42.9	
Real-estate mortgage thous. of dolls.	215	2,075	3,205	1,360	1,860	31,663	4,529	-86.8	-96.0	55,261	6,820	-87.7	
Acquisitions and improvements thous. of dolls.	300	750	200	850	5,000	9,280	2,000	+488.2	+150.0	40,350	6,800	-83.1	
Kind of structure—													
Office and commercial thous. of dolls.	1,530	17,225	8,800	5,130	7,685	22,340	5,390	+49.8	+42.6	46,965	38,840	-17.3	
Hotels thous. of dolls.		690			110	375	7,810		-98.6	10,400	800	-92.4	
Apartments thous. of dolls.	3,090	235		385	5,000	1,375	1,722		+190.4	8,182	5,620	-31.3	
Interest rates per cent	6.16	6.10	6.01	6.00	6.13	5.87	5.90	+2.2	+3.9				
<b>FOREIGN EXCHANGE RATES</b>													
Europe:													
England dolls. per £ sterling	4.88	4.87	4.86	4.86	4.86	4.85	4.85	0.0	+0.2				
France dolls. per franc	.039	.039	.039	.039	.039	.039	.039	0.0	0.0				
Italy dolls. per lira	.052	.052	.052	.052	.052	.052	.052	0.0	0.0				
Belgium dolls. per franc	.140	.139	.139	.139	.140	.139	.139	+0.7	+0.7				
Netherlands dolls. per guilder	.404	.402	.401	.401	.402	.401	.401	+0.2	+0.2				
Sweden dolls. per krone	.270	.269	.268	.269	.267	.267	.267	0.0	+0.7				
Switzerland dolls. per franc	.194	.194	.193	.194	.194	.192	.193	0.0	+0.5				
Asia:													
Japan dolls. per yen	.490	.491	.491	.493	.494	.445	.446	+0.2	+10.8				
India dolls. per rupee	.364	.363	.362	.361	.361	.364	.363	0.0	-0.6				
America:													
Canada dolls. per Canadian doll.	.991	.989	.992	.998	1.000	.994	.992	+0.2	+0.8				
Argentina dolls. per gold peso	.930	.913	.865	.856	.886	.956	.956	+3.5	-7.3				
Brazil dolls. per milreis	.113	.111	.112	.115	.117	.118	.118	+1.7	-0.8				
Chile dolls. per paper peso	.121	.121	.120	.121	.121	.121	.121	0.0	0.0				

\* Revised.

## TREND OF BUSINESS MOVEMENTS—Continued

	1929	1930				1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH APR. 30		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
		December	January	February	March	April	March	April	April, 1930, from March, 1930	April, 1930, from April, 1929	1929	
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>												
<b>U. S. FOREIGN TRADE</b>												
<b>Imports</b>												
Grand total.....thous. of dolls..	309,809	310,968	281,707	300,469	307,927	383,818	410,666	+2.5	-25.0	1,532,823	1,201,072	-21.6
By grand divisions:												
Europe—												
Total.....thous. of dolls..	86,562	88,783	84,616	87,726	87,726	109,839	113,942			321,295	261,125	-18.7
France.....thous. of dolls..	11,081	10,831	10,442	9,852	9,852	14,522	11,432			42,012	31,125	-25.9
Germany.....thous. of dolls..	15,164	17,667	16,029	18,663	18,663	20,793	24,426			61,640	52,359	-15.1
Italy.....thous. of dolls..	9,030	7,770	6,685	6,821	6,821	8,518	9,819			25,812	21,276	-17.6
United Kingdom.....thous. of dolls..	18,131	18,163	20,014	21,194	21,194	31,458	29,978			84,486	59,371	-19.7
North America—												
Total.....thous. of dolls..	66,393	68,784	61,494	70,636	70,636	92,253	93,639			254,460	200,914	-21.0
Canada.....thous. of dolls..	37,637	37,394	33,289	38,431	38,431	39,938	40,395			118,972	109,114	-8.3
South America—												
Total.....thous. of dolls..	49,099	44,035	46,488	48,669	48,669	60,716	61,284			178,776	139,192	-22.1
Argentina.....thous. of dolls..	9,507	6,572	9,453	12,175	12,175	12,679	13,063			32,702	28,200	-13.8
Asia and Oceania—												
Total.....thous. of dolls..	101,296	97,712	83,471	87,154	87,154	110,470	124,500			339,105	268,337	-20.9
Japan.....thous. of dolls..	39,413	31,106	28,110	23,205	23,205	36,020	28,819			106,602	82,421	-22.7
Africa, total.....thous. of dolls..	7,223	11,653	5,721	6,280	6,280	10,541	17,300			28,521	23,654	-17.1
By economic classes:												
Crude materials.....thous. of dolls..	115,631	109,026	98,581	101,685	105,686	138,645	146,932	+3.9	-28.1	565,620	414,978	-26.6
Foodstuffs, crude, and food animals.....thous. of dolls..	41,249	39,375	39,394	40,136	38,565	48,943	52,172	-3.9	-26.1	198,980	157,470	-20.9
Manufactured foodstuffs.....thous. of dolls..	24,389	23,933	20,414	26,933	31,110	44,330	45,919	+15.5	-32.3	155,785	102,391	-34.3
Semimanufactures.....thous. of dolls..	57,826	68,022	59,034	62,692	61,787	70,525	82,264	-1.4	-24.9	293,250	251,534	-14.2
Finished manufactures.....thous. of dolls..	70,713	70,613	64,288	69,023	70,779	81,375	85,379	+2.5	-15.1	319,187	274,699	-13.9
<b>Exports</b>												
Grand total, including reexports.....thous. of dolls..	426,596	411,314	348,962	369,624	334,000	489,849	425,264	-9.6	-21.5	1,844,887	1,463,900	-20.7
By grand division:												
Europe—												
Total.....thous. of dolls..	211,846	207,209	169,282	174,764	174,764	211,894	172,188			647,669	551,255	-14.9
France.....thous. of dolls..	25,838	25,216	20,877	21,396	21,396	24,621	19,444			75,297	67,489	-10.4
Germany.....thous. of dolls..	41,038	31,391	21,997	27,129	27,129	32,984	26,537			108,482	80,517	-25.8
Italy.....thous. of dolls..	14,506	11,390	11,116	10,518	10,518	15,057	13,065			43,764	33,024	-24.5
United Kingdom.....thous. of dolls..	77,917	79,351	59,442	58,076	58,076	75,659	59,289			235,658	196,869	-16.5
North America—												
Total.....thous. of dolls..	93,959	88,911	90,507	100,359	100,359	130,696	128,038			348,280	279,777	-19.7
Canada.....thous. of dolls..	57,003	54,162	57,696	66,565	66,565	90,634	91,928			232,323	178,423	-23.2
South America—												
Total.....thous. of dolls..	38,618	37,481	28,236	31,292	31,292	53,054	44,384			158,078	97,009	-38.6
Argentina.....thous. of dolls..	15,681	13,919	10,638	11,637	11,637	19,122	15,574			57,886	36,194	-37.5
Asia and Oceania—												
Total.....thous. of dolls..	72,540	67,357	51,995	53,730	53,730	79,809	69,498			230,393	173,082	-24.9
Japan.....thous. of dolls..	27,442	23,997	15,018	15,637	15,637	23,086	20,579			71,672	54,652	-23.7
Africa, total.....thous. of dolls..	9,633	10,357	8,943	9,479	9,479	14,395	11,156			35,202	28,779	-18.2
By economic classes:												
Total domestic exports only.....thous. of dolls..	420,578	404,377	342,964	363,168	326,652	481,710	418,051	-10.1	-21.9	1,814,674	1,437,160	-20.8
Crude materials.....thous. of dolls..	125,995	103,907	67,711	70,429	52,421	86,458	71,255	-25.6	-26.4	370,655	294,468	-20.6
Foodstuffs, crude and food animals.....thous. of dolls..	17,363	17,711	13,253	9,325	9,457	21,632	15,810	+1.4	-40.2	91,190	49,745	-45.4
Manufactured foodstuffs.....thous. of dolls..	41,363	39,839	33,520	34,373	27,719	43,015	37,447	-19.4	-26.0	167,626	135,451	-19.2
Semimanufactures.....thous. of dolls..	54,443	50,784	45,304	49,106	47,689	66,890	65,413	-2.9	-27.1	260,968	192,883	-26.1
Finished manufactures.....thous. of dolls..	181,414	192,136	183,176	199,936	189,366	263,715	228,126	-5.3	-17.0	924,237	764,613	-17.3
Agricultural exports (quantities):												
All commodities.....rel. to 1910-1914..	130	113	79	82	65	102	86	-20.7	-24.4			
All commodities except cotton.....rel. to 1910-1914..	129	123	105	98	83	129	112	-15.3	-25.9			
<b>CANADIAN FOREIGN TRADE</b>												
Total trade:												
Imports.....thous. of dolls..	84,365	84,910	80,922	113,026	71,402	135,287	97,517	-36.8	-26.8	426,805	350,260	-17.9
Exports.....thous. of dolls..	90,477	75,369	68,149	91,692	52,508	117,520	67,154	-42.7	-21.8	365,782	287,718	-21.3

<sup>3</sup> Cumulative through Mar. 31.

<sup>4</sup> Revised.

## PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

Recent publications of the Department of Commerce having the most direct interest to readers of the *Survey of Current Business* are listed below. A complete list may be obtained by addressing the Division of Publications, Department of Commerce, at Washington. Copies of the publications may be purchased from the Superintendent of Documents, Government Printing Office, Washington, at the prices stated. If no price is mentioned, the publication is distributed free.

**Aviation.**—*Air Commerce bulletin.*—Issued semimonthly by the Aeronautics Branch of the Department of Commerce and contains short articles on aviation developments and a list of air transport routes.

—*Airports and Landing Fields.* 16 pages. (Aeronautics Branch, Aeronautics Bulletin No. 5.) This publication lists airports and landing fields now in operation and contains a list of proposed airports.

**Bureau of Standards Journal of Research.**—Published monthly and contains the papers formerly issued as Scientific and Technologic Papers series, which have been discontinued. The articles in the journal are known as the Research Papers series and are issued separately after publication in the journal. Single copies, 40¢; annual subscription, \$2.75.

**Chemicals and drugs.**—*Evolution of Hydrogen Sulphide from Vulcanized Rubber,* by Edward Wolessky. (Bureau of Standards, Research Paper No. 162.) Reprint from Bureau of Standards Journal of Research, vol. 4, Apr., 1930, pp. 501-513. Price, 5¢.

—*German Chemical Developments in 1929.* ii+92 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 690.) Deals with the technical progress made in the chemical industry during 1929, dye trust activities, and fixed nitrogen, potash, and superphosphate industry operations. An appendix contains data on the German dye trust structure. Price, 10¢.

**Color.**—*Reduction of Data on Mixture of Color Stimuli,* by Deane B. Judd. (Bureau of Standards, Research Paper No. 163.) Reprint from Bureau of Standards Journal of Research, vol. 4, Apr., 1930, pp. 515-548, 6 illus. Price, 10¢.

**Commercial standards.**—*Commercial Standards Service and Its Value to Business.* vi+34 pages, 3 illus., 1 plate, 1 chart. (Bureau of Standards, Commercial Standard CSO-30.) Account of the beginning of organized standardization activities, the application of commercial standards, and the work of the Standards Bureau in this service. Examples of standards are given. Price, 10¢.

—*Foundry Patterns of Wood.* ii+18 pages, 1 plate. (Bureau of Standards, Commercial Standard CS19-30.) Price, 10¢.

—*Hickory Golf Shafts.* iv+14 pages, 3 illus. (Bureau of Standards, Commercial Standard CS18-29.) Price, 10¢.

**Commercial Standards Monthly, Review of Progress in Commercial Standardization and Simplification.** Published monthly by the Bureau of Standards. Annual subscription, \$1.

**Employment for Americans in Latin America.** Fifth edition. ii+20 pages. (Bureau of Foreign and Domestic Commerce.) Discussion of the limited opportunities for employment of Americans in Latin American countries.

**Foodstuffs.**—*Salvador as Market for Foodstuffs.* ii+21 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 692.) Brief account of the general economic conditions and the market for specific commodities in Salvador. Price, 10¢.

**Fruit.**—*Fruit Markets in Eastern Asia: Joint Investigation by U. S. Department of Commerce and University of California.* ii+14 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 693.) Study of the fruit market conditions in eastern Asia, selling agencies available, methods of trade promotion, and retail prices. Suggestions are given as to size of packages for shipments. Price, 10¢.

**Hydrography.**—*Slope Corrections for Echo Soundings,* by A. L. Shalowitz. ii+24 pages, 7 illus., 1 plate, 4 charts (Coast and Geodetic Survey, Special Publication No. 165.) Description of method used in taking depth soundings for ocean surveys. Price, 10¢.

**Index to Commerce Reports, Nos. 1-13, Volume 1, Thirty-third Year, Jan.-Mar., 1930.** ii+xxiv pages. This index is issued quarterly and lists all material published in Commerce Reports by subject, country, and author. Single copies, 5¢; annual subscriptions, 20¢.

**Iron and Steel.**—*Physical Properties of Electrically Welded Steel Tubing,* by H. L. Whittemore, J. S. Adelson, and E. O. Seaquist. (Bureau of Standards, Research Paper No. 161.)

**Lumber.**—*Treated Lumber, Its Uses and Economics, Report of Subcommittee on Retail Distribution of Treated Lumber of National Committee on Wood Utilization.* vi+42 pages, 15 illus. Report on the causes of deterioration of wood, such as dampness and insect pests, and the best methods of treatment for its preservation. An appendix gives data regarding amounts, kinds, and quantities of preservatives used in treating different kinds of wood. A bibliography on wood preservation is included. Price, 15¢.

**Machinery.**—*Engine Ignition Shielding for Radio Reception in Aircraft,* by H. Diamond and F. G. Gardner. (Bureau of Standards, Research Paper No. 158.) Reprint from Bureau of Standards Journal of Research, vol. 4, March, 1930, pp. 415-424, 2 illus., 10 pages of plates. Report on experiments to determine requirements for ignition shielding on aircraft. Price, 15¢.

—*Markets for Sawmill and Woodworking Machinery in Scandinavia and Baltic States.* ii+26 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 691.) Price, 10¢.

**Maizolith.**—*Manufacture and Properties of Cellulose Product (Maizolith) from Cornstalks and Corncobs.* ii+10 pages, 2 illus., 7 charts. (Bureau of Standards, Miscellaneous Publication No. 108.) Discussion of the methods and cost of manufacture of maizolith, with suggestions for uses. Price, 5¢.

**Manufactures.**—*Census of Manufactures, 1927: Summary by Industry Groups and by Industries.* 56 pages. (Bureau of the Census.) Price, 10¢.

**Marine Standards.**—*Moorings for Ships, Oval and Circular Types, Compiled and Promulgated by American Marine Standards Committee.* 4 pages, 2 pages of illus. (Bureau of Standards, American Marine Standards H No. 51-1929 and H No. 52-1929.) Price, 5¢.

**Metals and Minerals.**—*Bauxite and Aluminum in 1928.* (Bureau of Mines, Mineral Resources of United States, 1928, Pt. I, pp. 423-427.) Price, 5¢.

—*Bismuth.* ii+41 pages, 26 illus. (Bureau of Standards, Circular No. 382.) Study of the sources and properties of bismuth, the methods of refining, and the uses of this metallic element by itself and with alloys. Price, 10¢.

—*Gold, Silver, Copper, Lead, and Zinc in Nevada in 1928,* by V. C. Heikes. (Bureau of Mines, Mineral Resources of United States, 1928, Pt. I, pp. 441-478.) Price, 10¢.

—*Gold, Silver, Copper, Lead, and Zinc in Utah in 1928,* by C. N. Gerry. (Bureau of Mines, Mineral Resources of United States, 1928, Pt. I, pp. 479-527.) Price, 10¢.

—*International Trade in Mica,* by Joseph Ulmer. iv+70 pages. (Bureau of Foreign and Domestic Commerce, Trade Promotion Series No. 95.) This bulletin deals with the resources and production of mica in different countries of the world and the international trade in this product. A brief bibliography is included. Price, 15¢.

—*Mica in 1928,* by B. H. Stoddard. (Bureau of Mines, Mineral Resources of United States, 1928, Pt. II, pp. 607-614.) Price, 5¢.

**Monthly Summary of Foreign Commerce of United States, Mar., 1930.** Parts I and II. (Bureau of Foreign and Domestic Commerce.) Part I contains statistics of exports of domestic merchandise, and imports by articles for March, 1929 and 1930, and for three months ending March, 1929 and 1930. Part II contains summaries of export and import trade; monthly average import and export prices; and statistics of trade with Alaska, Hawaii, and Porto Rico. Single copies, Part I, 10¢; Part II, 5¢. Annual subscription, \$1.25.

**Motion pictures.**—*European Motion-Picture Industry in 1929.* ii+71 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 694.) Study of motion picture developments in the different European countries during 1929. Price, 10¢.

**Motor Boats.**—*Regulation of Motor Boats.* 4 pages. (Department of Commerce, Circular No. 236.) Text of the law and regulations promulgated thereunder by the Department of Commerce regarding equipment for motor boats.



# CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

R. F. LAMONT, Secretary of Commerce

JULIUS KLEIN, Assistant Secretary of Commerce.

EPHRAIM F. MORGAN, Solicitor

## AERONAUTICS BRANCH

CLARENCE M. YOUNG, Assistant Secretary of Commerce for Aeronautics

Establishment of civil airways and maintenance of aids to air navigation; inspection and registration of aircraft and licensing of pilots; enforcement of air traffic rules; investigation of accidents; encouragement of municipal air ports; fostering of air commerce; scientific research in aeronautics; and dissemination of information relating to commercial aeronautics. (Some of these functions are performed by special divisions of the Lighthouse Service, the Bureau of Standards, and the Coast and Geodetic Survey.)

## BUREAU OF THE CENSUS

WILLIAM M. STEWART, Director

Taking censuses of population, mines and quarries, water transportation, and religious bodies every 10 years; censuses of agriculture and electrical public utilities every 5 years; and a census of manufactures every 2 years.

Compilation of statistics of wealth, public debt and taxation, including financial statistics of local governments, every 10 years; annual compilation of financial statistics of State and municipal governments.

Compilation of statistics of marriage, divorce, births, deaths, and penal and other institutions annually, and of death rates in cities and automobile accidents weekly.

Compilation quarterly or monthly, of statistics on cotton, wool, leather, and other industries; annually of forest products; and publication monthly of Survey of Current Business.

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE

WILLIAM L. COOPER, Director

The collection of timely information concerning world market conditions and openings for American products in foreign countries, through commercial attachés, trade commissioners, and consular officers, and its distribution through weekly Commerce Reports, bulletins, confidential circulars, the news and trade press, and district and cooperative officers in 65 cities.

The maintenance of commodity, technical, and regional divisions to afford special service to American exporters and manufacturers.

The compilation and distribution of lists of possible buyers and agents for American products in all parts of the world and publication of weekly lists of specific sales opportunities abroad.

The publication of statistics on imports and exports.

The study of the processes of domestic trade and commerce.

## BUREAU OF STANDARDS

GEORGE K. BURGESS, Director

Custody, development, and construction of standards of measurement, quality, performance, or practice; comparison of standards used by scientific or other institutions; determination of physical constants and properties of materials; researches and tests on materials and processes; and publication of scientific and technical bulletins reporting results of researches and fundamental technical data.

Preparation of specifications for Government purchases, through the Federal Specifications Board.

Collection and dissemination of information concerning building codes and the planning and construction of houses.

Establishment of simplified commercial practices through cooperation with business organizations in order to reduce the wastes resulting from excessive variety in commodities.

## BUREAU OF MINES

SCOTT TURNER, Director

Technical investigations in the mining, preparation, and utilization of minerals, including the study of mine hazards and safety methods and of improved methods in the production and use of minerals.

Testing of Government fuels and management of the Government Fuel Yard at Washington.

Research on helium and operation of plants producing it.

Studies in the economics and marketing of minerals and collection of statistics on mineral resources and mine accidents.

The dissemination of results of technical and economic researches in bulletins, technical papers, mineral resources series, miners' circulars, and miscellaneous publications.

## BUREAU OF FISHERIES

HENRY O'MALLEY, Commissioner

The propagation and distribution of food fish and shellfish, in order to prevent the depletion of the fisheries; investigations to promote conservation of fishery resources; the development of commercial fisheries and agriculture; study of fishery methods, improvements in merchandising and collection of fishery statistics; administration of Alaska fisheries and fur seals; and the protection of sponges off the coast of Florida.

## BUREAU OF LIGHTHOUSES

GEORGE R. PUTNAM, Commissioner

Maintenance of lighthouses and other aids to water navigation. Establishment and maintenance of aids to navigation along civil airways.

Publication of Light Lists, Buoy Lists, and Notices to Mariners, giving information regarding these aids to navigation.

## COAST AND GEODETIC SURVEY

RAYMOND S. PATTON, Director

Survey of the coasts of the United States and publications of charts for the navigation of the adjacent waters, including Alaska, the Philippine Islands, Hawaii, Porto Rico, the Virgin Islands, and the Canal Zone; interior control surveys; magnetic surveys; tide and current observations; and seismological investigations.

Publication of results through charts, coast pilots, tide tables, current tables, and special publications.

## BUREAU OF NAVIGATION

ARTHUR J. TYREE, Commissioner

Superintendence of commercial marine and merchant seamen. Supervision of registering, enrolling, licensing, numbering, etc., of vessels under the United States flag, and the annual publication of a list of such vessels.

Enforcement of the navigation and steamboat inspection laws, including imposition of fees, fines, tonnage taxes, etc.

## STEAMBOAT INSPECTION SERVICE

DICKERSON N. HOOVER, Supervising Inspector General

The inspection of merchant vessels, including boilers, hulls, and life-saving equipment, licensing of officers of vessels, certification of able seamen and lifeboat men, and the investigation of violations of steamboat inspection laws.

## UNITED STATES PATENT OFFICE

THOMAS E. ROBERTSON, Commissioner

The granting of patents and the registration of trade-marks, prints, and labels after technical examination and judicial proceedings.

Maintenance of library with public search room, containing copies of foreign and United States patents and trade-marks. Recording bills of sale, assignments, etc., relating to patents and trade-marks. Furnishing copies of records pertaining to patents.

Publication of the weekly Official Gazette, showing the patents and trade-marks issued.

## RADIO DIVISION

W. D. TERRELL, Chief

Inspection of radio stations on ships; inspection of radio stations on shore, including broadcasting stations; licensing radio operators; assigning station call letters; enforcing the terms of the International Radiotelegraphic Convention; and examining and settling international radio accounts.