

UNITED STATES
DEPARTMENT OF COMMERCE
WASHINGTON

SURVEY OF CURRENT BUSINESS

MAY, 1930

No. 105



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 month. 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 March and contains text covering the early weeks of April (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



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UNITED STATES DEPARTMENT OF COMMERCE

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No. 105

WASHINGTON

May, 1930

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PRELIMINARY SUMMARY FOR APRIL

Business during the early weeks of April as indicated by the volume of check transactions was larger than during the corresponding period in March, but was lower than a year ago. The volume of new building contracts awarded was running higher than in the preceding month but was somewhat lower than last year. Steel operations, although averaging higher than in March, were lower than in April of last year. Activity in the automobile industry, as reflected by employment data covering Detroit factories, showed little change from the previous month but was substantially less than in April, 1929. Interest rates on time money averaged higher than in March, but below the same period a year ago.

The general level of wholesale prices continued to fall from last month, and was lower than the average for April, 1929. Prices for iron and steel, however, showing a tendency to weaken, were slightly lower than in March, and lower than the same month a year ago. Copper prices, showing a sharp drop in the early weeks of April, were lower than in either prior comparative period. Prices of raw cotton averaged lower

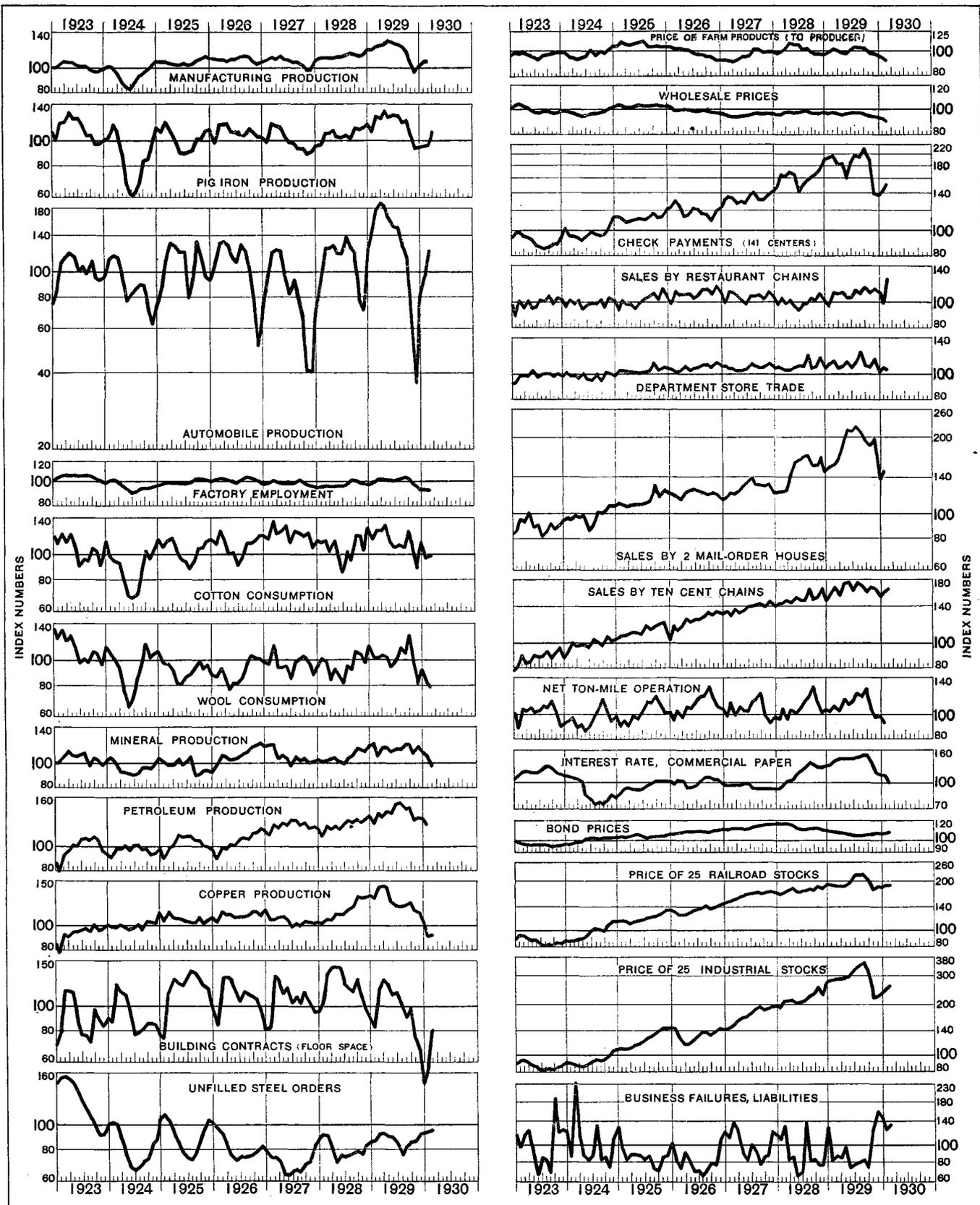
than the previous month, and were less than in April a year ago.

Prices for stocks listed on the New York Stock Exchange averaged higher than last month, but were substantially below the average for the weeks of April, 1929. Bond prices, on the other hand, reflecting stronger interest rates, averaged higher than either prior period. Interest rates on call loans averaged higher than in March, but were considerably lower than a year ago. Business failures were less numerous than in March and showed little change from a year ago.

The production of lumber, although running higher than in March, was below the level of a year ago. Bituminous-coal production declined seasonally from March and was slightly higher than a year ago. The manufacture of beehive coke was greater than a month ago, but declined from the corresponding period of 1929. Car loadings of freight were higher than in March, but lower than a year ago. Petroleum production was lower than in March and a year ago. Receipts of cattle and hogs at primary markets showed declines from March and same comparative period last year.

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	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.		
1923-1925 monthly average=100																						
Industrial production:																						
* Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	120.0	123.0	124.0	128.0	125.0	124.0	122.0	117.0	105.0	96.0	102.0	106.0	106.0		
* Total minerals.....	105.0	96.0	99.0	107.0	107.0	106.0	115.0	107.0	115.0	116.0	112.0	114.0	115.0	118.0	118.0	110.0	116.0	112.0	108.0	97.0		
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	124.3	122.6	130.5	124.4	126.7	125.7	117.1	120.1	106.5	94.9	94.0	95.0	108.6		
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.6	146.3	142.8	152.5	141.2	139.9	142.5	130.5	130.5	101.6	83.8	109.5	117.7	124.1		
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	177.1	188.1	182.9	165.1	151.5	150.8	125.8	114.9	65.8	36.3	82.6	98.0	121.4		
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	80.2	110.6	129.9	135.2	139.3	149.5	138.6	134.6	113.1	90.2	68.4	65.7	90.3		
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	101.2	123.1	130.3	111.1	106.6	108.7	106.3	124.9	106.0	88.4	112.5	96.5	99.1		
Wool (consumption).....	112.8	94.6	92.6	89.7	97.0	94.7	103.1	102.7	103.8	102.9	93.0	99.8	111.1	105.0	125.3	98.5	79.8	92.1	80.9	78.5		
Raw material output:																						
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	88.0	99.7	108.9	111.8	116.0	100.0	98.7	102.6	95.2	93.0	94.7	83.8	98.0		
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	72.5	57.4	51.1	56.3	91.1	134.5	177.1	246.3	154.6	139.2	78.7	62.6	55.1		
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	86.0	90.2	98.6	89.9	88.3	91.8	80.3	89.2	82.0	69.6	63.3	66.5	73.3		
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	134.4	130.5	137.5	135.9	143.8	150.3	142.2	143.5	127.3	130.9	129.4	121.2	126.1		
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	100.5	90.3	84.7	92.0	87.4	93.3	100.7	102.2	117.6	104.9	107.5	114.3	90.8	82.0		
Copper.....	93.4	100.2	106.4	110.2	104.9	114.9	127.1	142.1	143.9	141.6	124.9	120.1	119.6	120.4	125.2	115.1	113.4	102.9	89.8	92.6		
Power and construction:																						
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.7	159.3	157.1	161.2	154.9	159.8	166.6	160.7	173.6	164.4	169.8	172.5	152.0	162.8		
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	117.1	128.0	122.4	109.7	113.7	100.5	90.2	98.9	76.9	66.3	49.6	57.6	81.1		
Unfilled orders:																						
General index.....	121.7	87.0	91.3	84.6	74.0	76.2	80.8	85.5	93.1	88.4	83.4	82.1	76.0	76.8	76.8	73.7	77.7	80.2	79.9	83.5		
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	92.4	92.7	90.1	89.2	85.6	76.6	81.7	85.6	86.4	92.5	93.6	93.8	95.7		
Stocks:																						
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	134.0	129.9	122.8	120.2	121.8	127.2	139.2	154.8	156.5	158.0	150.8	147.3	141.0		
Manuf. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	124.2	121.5	120.4	121.1	120.3	115.7	113.8	113.9	115.6	118.9	121.5	124.9	126.1		
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	130.5	109.9	88.4	70.9	54.2	58.2	106.8	177.5	199.8	206.4	192.5	177.4	158.3		
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	46.8	50.8	62.2	73.4	86.3	92.2	83.7	78.1	111.7	151.3	179.7	205.9	226.2		
Employment:																						
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	101.3	101.8	101.6	101.2	100.7	102.0	103.4	102.1	98.2	94.8	92.9	92.9	92.7		
Prices:																						
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	101.4	100.0	98.6	97.8	101.4	103.6	102.2	101.4	98.6	97.8	97.1	94.9	91.3		
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	96.8	96.1	95.1	95.7	97.3	97.0	96.8	95.6	93.7	93.5	92.8	91.5	90.2		
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	102.2	101.3	102.4	103.4	105.9	107.0	107.4	107.2	106.7	105.6	103.8	102.2	100.3		
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	97.6	97.0	97.0	97.6	98.8	99.4	99.4	99.4	99.3	98.7	97.4	96.8	95.6		
Distribution (values):																						
* Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	158.2	184.5	195.1	180.6	180.5	159.0	184.8	198.2	192.8	211.1	190.0	139.8	136.7	144.4	153.4		
* Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	113.0	105.0	107.0	112.0	106.0	112.0	123.0	109.0	107.0	115.0	102.0	106.0	104.0		
* Mail-order sales, 2 houses.....	89.4	97.2	112.0	120.5	126.2	149.3	188.2	156.1	167.4	192.6	212.6	208.4	220.5	209.9	193.1	184.6	216.8	136.5	148.9	-----		
* 10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	167.4	153.0	172.0	174.0	162.0	174.0	168.0	159.0	166.0	165.0	152.0	162.0	164.0		
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	128.2	121.1	121.0	109.3	109.1	110.0	114.5	133.5	122.0	153.3	120.9	111.3	121.8		
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	118.8	127.1	123.9	109.4	109.6	114.3	108.8	121.1	104.8	96.1	96.3	87.2	92.9		
Exports.....	91.6	100.8	107.8	105.5	106.8	112.6	115.2	129.0	112.2	101.4	103.6	106.2	100.4	115.3	139.6	116.5	112.4	108.3	91.9	98.5		
Transportation:																						
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	107.8	102.7	112.6	109.1	112.5	120.4	118.5	128.1	103.8	96.6	98.3	92.0	-----		
Finance:																						
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	132.4	131.3	129.3	135.1	136.2	135.3	139.1	151.1	141.3	140.9	133.1	131.1	135.0		
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	136.4	139.2	139.2	139.2	139.2	142.2	145.0	145.0	133.4	116.0	113.2	110.2	98.6		
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	92.6	94.9	96.5	94.4	96.4	97.7	94.2	89.9	93.0	90.2	101.4	102.1	103.4		
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	108.0	107.6	106.7	105.4	104.9	104.1	103.9	105.2	105.0	107.1	106.8	107.0	109.3		
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.5	194.3	184.9	183.7	184.4	192.1	213.4	216.3	217.7	203.5	176.2	181.4	180.6	188.6	188.1		
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	283.7	285.8	290.3	297.8	330.8	344.5	358.5	316.3	219.4	229.3	235.5	251.9	262.2		
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	85.7	83.2	97.2	74.0	76.5	79.6	80.5	73.9	122.8	159.1	144.3	121.1	134.1		

* Seasonal adjustments.

BUSINESS CONDITIONS IN MARCH

PRODUCTION

Manufacturing production in March, after adjustments for the usual seasonal changes, registered a slight decline from February and was 11 per cent below the March, 1929, level. All groups showed slight declines from the preceding month, with the exception of automobiles, whose output increased 5 per cent, cement and nonferrous metals. As compared with March, 1929, all the groups except cement and tobacco manufactures showed a decline in output. Mineral production, after adjustments were made showed a lower output than in either the previous month or corresponding period of last year, all groups participating in the decline for both prior periods. As

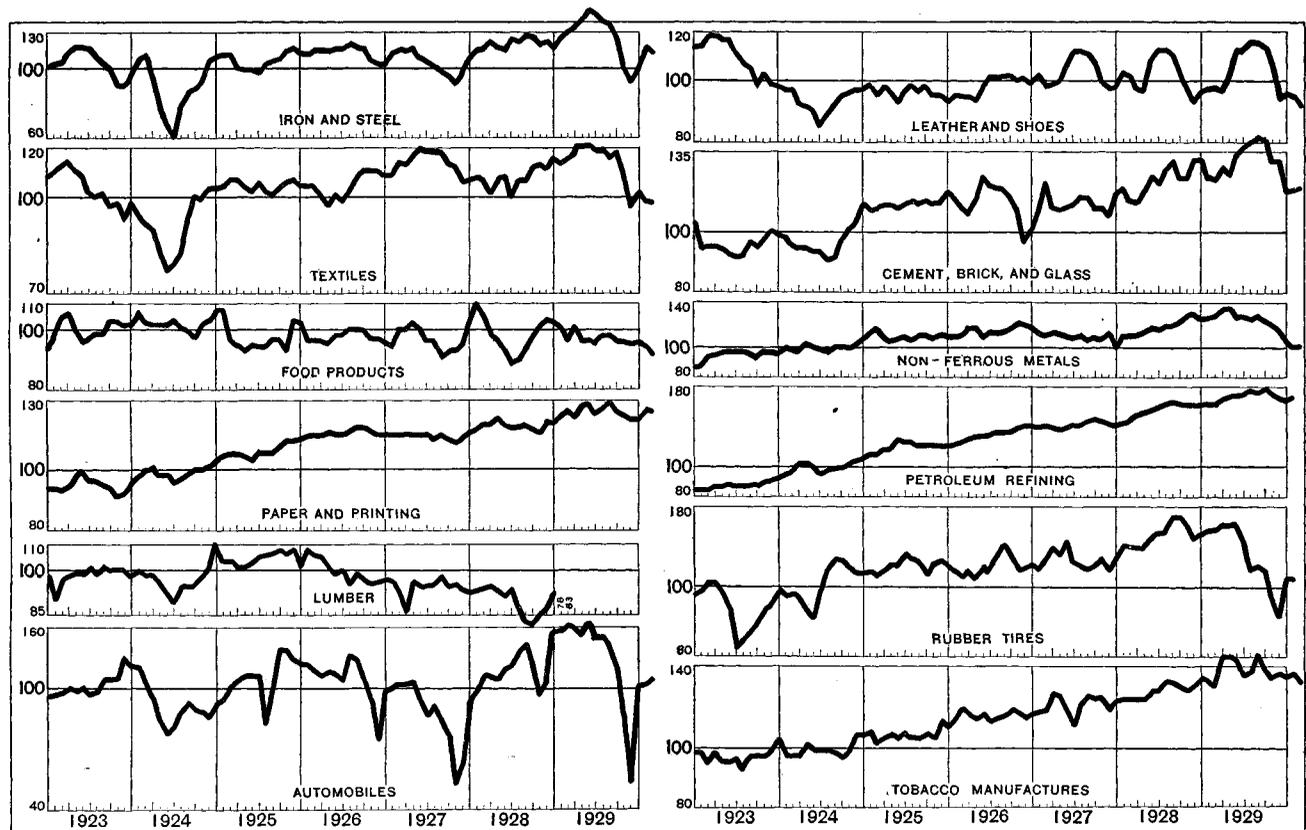
SALES

The general index of unfilled orders for manufactured goods showed a gain over February, but declined from a year ago. As compared with the previous month, declines made in textiles were offset by gains made in lumber, iron and steel, and transportation equipment.

Wholesale trade showed a decrease of 13 per cent from the corresponding month a year ago, declines being registered in sales of piece goods, ready-to-wear accessories, women's wear, men's and boys' wear, and house furnishings. Retail trade as measured by the volume of sales reported by the two principal mail-order houses showed a decline in sales from both February and March a year ago. Chain-store sales,

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



was the case in February, the largest decline was in the production of copper which was 34 per cent lower than in March, 1929.

COMMODITY STOCKS

The index of commodity stocks showed a slight decline from previous month but was higher than a year ago, the increase over a year ago being entirely due to larger stocks of raw materials. Finished goods, in the hands of manufacturers, at the end of March, while slightly larger than at the end of the previous month, were greater than at the end of March, 1929. Gains over last year in stocks of iron and steel, non-ferrous metals, lumber, stone, clay and glass, leather, and chemicals and oils, more than offset declines of foodstuffs, textiles, rubber, and paper.

after adjustments for seasonal variations registered an increase over February but was less than a year ago. Department store sales, on the other hand, were slightly less than the preceding month and showed a loss of nearly 8 per cent from a year ago, almost all sections of the country reporting declines.

Imports of merchandise into the United States showed a considerable gain over February, but were 22 per cent below the March, 1929, level, all economic classes sharing in the general increase over February. Merchandise exports, likewise increased over February but were lower than a year ago. Exports of crude materials, foodstuffs, semi and finished manufactures making gains over the previous month while a slight loss was registered for the exports of crude foodstuffs and food animals for the same period.

PRICES

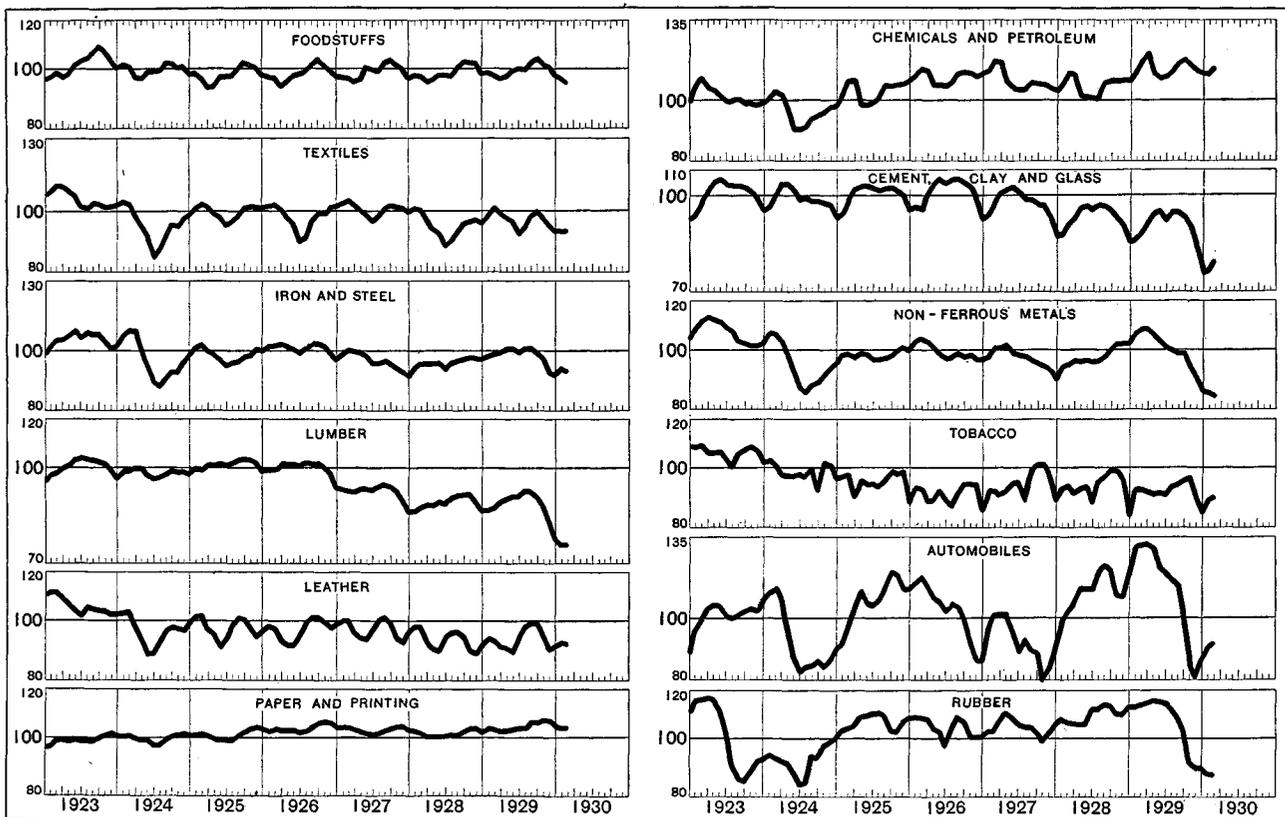
The general index of wholesale prices was lower in March than in either the preceding month or the corresponding month of last year. All groups included within the index showed declines from both periods except house-furnishing goods, which showed no change from a year ago. The largest declines from last year were registered in prices for farm products, textile products, foods, hides and leather products, metals and metal products and chemicals and drugs, for which decreases ranged more than 5 per cent. Classified by the conditions of manufacture, the general index, with a decline of more than 7 per cent from a year ago,

EMPLOYMENT

Factory employment in March, as measured by the general index, while showing no change from the preceding month was 8 per cent lower than in March, 1929. As compared with the previous month, employment in factories producing wearing apparel, automobiles, cement, clay and glass, chemicals, tobacco, showed sufficient increases to offset declines in those producing iron and steel, textile fabrics, food, leather, and petroleum. No change in employment was registered in lumber, transportation equipment, nonferrous metals and rubber products. Contrasted with a year ago, the only gains in employment were

FACTORY EMPLOYMENT, BY GROUPS

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



showed a decrease of 9 per cent in raw materials and semimanufactured articles, 4 per cent in finished products, and 5 per cent in nonagricultural commodities. Commercial indexes also showed declines from the previous month and March, 1929.

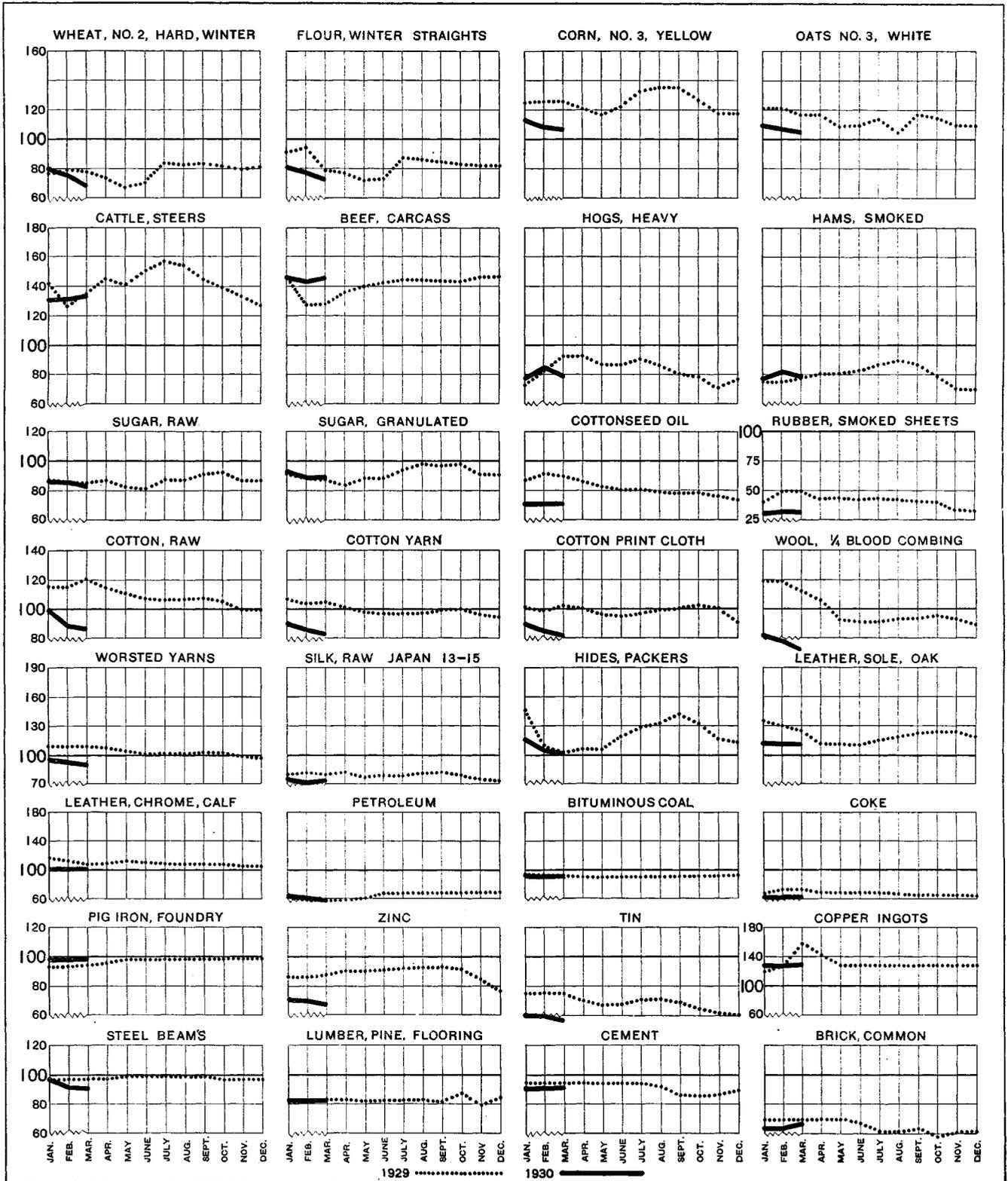
Prices paid to farmers for their products, as shown in the general index, were lower than for the previous month or March, 1929. Compared with a year ago, gains in prices paid for fruits and vegetables were more than offset by declines in each of the other groups. As compared with the preceding month, gains in the prices for fruits and vegetables and meat animals were insufficient to offset lower prices for grains, poultry and dairy products, and cotton and cottonseed.

in paper and printing factories, petroleum refineries, all other types of factories registering declines. The largest declines in employment from a year ago were recorded in automobiles, rubber, nonferrous metals, lumber, cement, brick, and glass which showed declines from 10 to 30 per cent.

Factory pay-roll payments in March, were 1 per cent greater than in February but were 12 per cent less than a year ago. The only declines from the previous month were in food products, leather, petroleum, and rubber, while iron and steel, machinery, lumber, and nonferrous metals showed but a slight change when compared with last month. All groups, except paper and printing establishments and petroleum refineries, showed declines in pay-roll payments.

WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



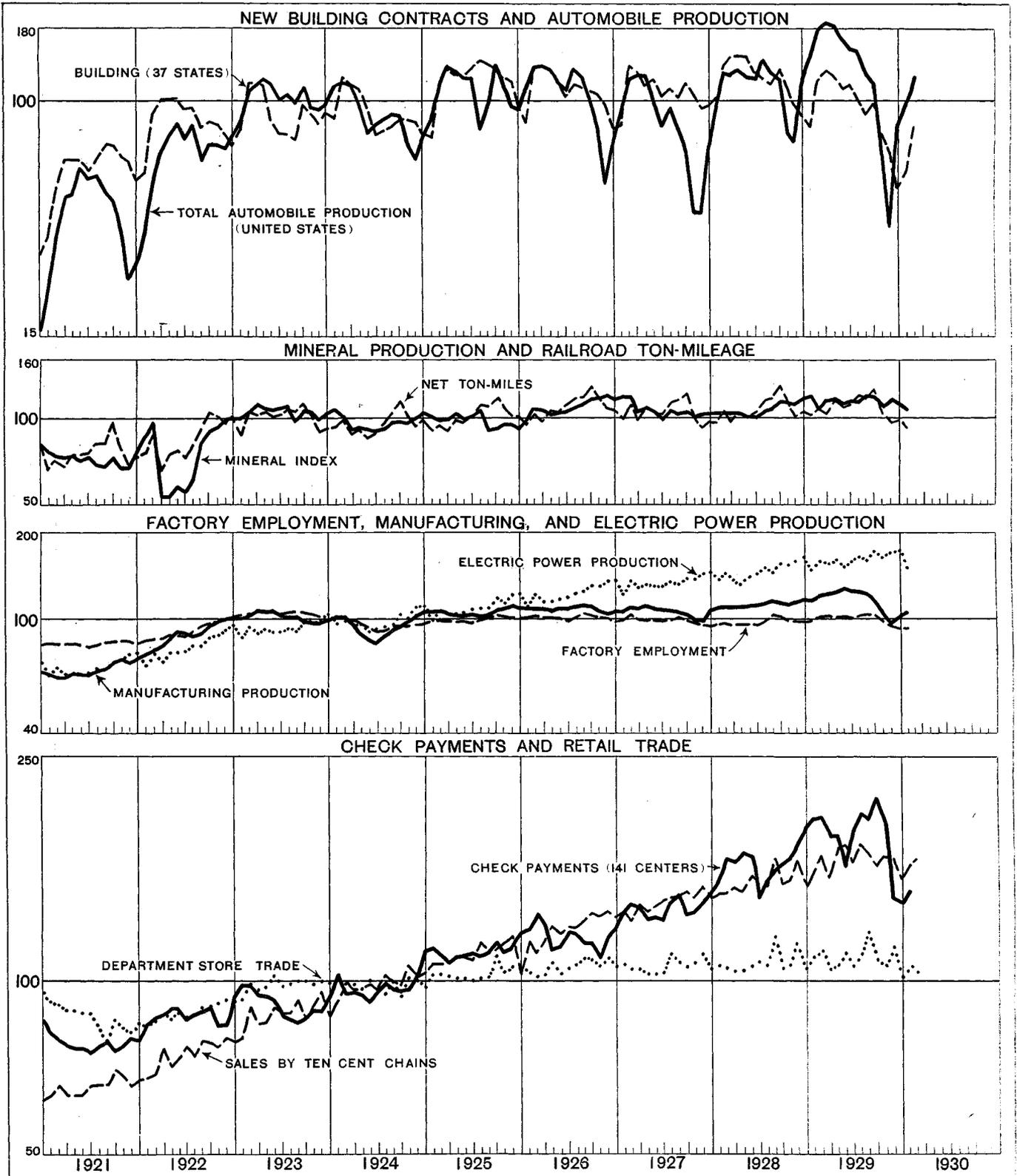
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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				
					1926 average=100				
		February, 1930	March, 1930	March, 1929	January, 1930	February, 1930	March, 1930	February, 1929	March, 1929
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER									
Wheat.....	Bushel.....	1.013	0.919	1.047	80	75	68	77	78
Corn.....	Bushel.....	.774	.745	.887	111	111	107	124	127
Potatoes.....	Bushel.....	1.391	1.367	.584	74	75	74	32	31
Cotton.....	Pound.....	.148	.138	.188	105	98	91	119	125
Cottonseed.....	Ton.....	28.89	28.63	39.36	106	106	105	142	145
Cattle, beef.....	Pound.....	.0868	.0877	.0916	135	134	136	138	142
Hogs.....	Pound.....	.0948	.0957	1.000	75	80	81	75	85
Lambs.....	Pound.....	.1046	.0963	1.312	96	90	83	109	113
FARM PRODUCTS—MARKET PRICE									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	1.25	1.12	1.25	80	79	71	81	79
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	1.23	1.18	1.35	86	79	76	90	87
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	1.13	1.02	1.16	80	76	69	79	78
Corn, No. 3, yellow (Chicago).....	Bushel.....	.82	.80	.94	113	109	107	125	125
Oats, No. 3, white (Chicago).....	Bushel.....	.44	.43	.48	110	107	105	122	117
Barley, No. 2 (Minneapolis).....	Bushel.....	.57	.55	.67	91	89	86	109	105
Rye, No. 2 (Minneapolis).....	Bushel.....	.78	.66	1.00	99	85	72	114	109
Cotton, middling upland (New York).....	Pound.....	.157	.151	.212	99	90	86	115	121
Wool, $\frac{1}{4}$ blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.36	.33	.52	83	78	72	120	113
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	12.531	12.800	12.844	131	132	134	127	135
Hogs, heavy (Chicago).....	Cwt.....	10.406	9.825	11.394	78	84	80	82	92
Sheep, ewes (Chicago).....	Cwt.....	5.175	5.135	8.419	95	79	78	117	128
Sheep, lambs (Chicago).....	Cwt.....	10.438	9.730	16.188	93	76	71	114	118
FOOD									
Flour, standard patents (Minneapolis).....	Barrel.....	6.388	6.231	6.669	80	76	74	81	79
Flour, winter straights (Kansas City).....	Barrel.....	5.631	5.260	5.715	81	78	73	79	79
Sugar, 96° centrifugal (New York).....	Pound.....	.037	.036	.037	86	86	82	86	85
Sugar, granulated, in barrels (New York).....	Pound.....	.049	.049	.048	93	90	89	89	88
Cottonseed oil, prime yellow (New York).....	Pound.....	.084	.084	.106	71	71	71	92	90
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.236	.240	.211	146	144	146	127	129
Beef, fresh, carcass, steers (New York).....	Pound.....	.223	.215	.217	138	130	126	126	127
Pork, smoked hams (Chicago).....	Pound.....	.252	.243	.238	78	82	79	75	77
Butter, creamery, 92 score (New York).....	Pound.....	.36	.37	.48	82	80	82	111	107
Oleomargarine, standard, uncolored (Chicago).....	Pound.....	.235	.235	.235	103	103	103	103	103
TEXTILES									
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound.....	.310	.297	.377	90	87	83	104	105
Cotton-print cloth 64 x 60-38 $\frac{1}{2}$ "-5.35-yards to pound.....	Yard.....	.065	.062	.077	90	86	82	100	102
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.079	.078	.089	89	85	84	96	96
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.350	1.300	1.575	96	94	91	110	110
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.975	.926	.975	94	94	90	94	94
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.700	1.756	2.008	92	90	88	100	100
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.949	1.843	1.959	90	90	85	90	90
Silk, Japan, 13-15.....	Pound.....	4.433	4.531	4.998	75	72	73	82	81
Hosiery, women's pure silk, mill.....	Dozen pair.....	9.000	8.500	9.500	78	78	73	82	82
LEATHER									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.148	.142	.145	116	106	101	109	103
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.164	.156	.183	102	95	90	98	105
Leather, chrome calf, dull or bright "B" grades (Boston).....	Square foot.....	.460	.460	.490	102	102	102	113	109
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.490	.490	.550	113	112	112	130	128
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
FUEL									
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.951	3.911	4.000	92	92	91	93	93
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.450	4.292	4.403	93	93	90	96	92
Coal, anthracite, chestnut (composite price).....	Long ton.....	13.033	13.033	13.077	95	95	95	95	95
Coke, Connellsville, (range of prompt and future), furnace—at ovens.....	Short ton.....	2.600	2.600	2.994	63	63	63	72	73
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.181	1.110	1.110	65	63	59	59	59
METALS									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	20.260	20.260	19.510	98	98	98	93	95
Pig iron, basic, valley furnace.....	Long ton.....	18.500	18.500	17.500	100	100	100	94	94
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	33.000	33.000	34.000	97	94	94	95	97
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1778	.1778	.2126	129	129	129	128	154
Brass, sheets, mill.....	Pound.....	.233	.233	.252	122	122	122	118	132
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0624	.0566	.0745	74	74	67	81	89
Tin, straits (New York).....	Pound.....	.3867	.3681	.4885	60	59	56	76	75
Zinc, slab, western (St. Louis).....	Pound.....	.0518	.0493	.0646	71	71	67	87	88
BUILDING MATERIAL AND MISCELLANEOUS									
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	37.390	37.200	37.550	83	83	83	82	83
Brick, common red, domestic building (New York).....	Thousand.....	10.500	11.000	11.500	64	64	67	70	70
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.617	1.617	1.650	90	93	93	95	95
Steel beams, mill (Pittsburgh).....	Cwt.....	1.800	1.800	1.900	97	92	92	97	97
Rubber, smoked sheets (New York).....	Pound.....	.158	.153	.244	31	33	32	49	50
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 March, while greater than the previous month, were less than the corresponding period of 1929. Receipts at Boston of both foreign and domestic types showed similar trends. Wool consumption was smaller than either prior period. Prices for wool and yarn averaged lower than in either the previous month or the same month of last year.

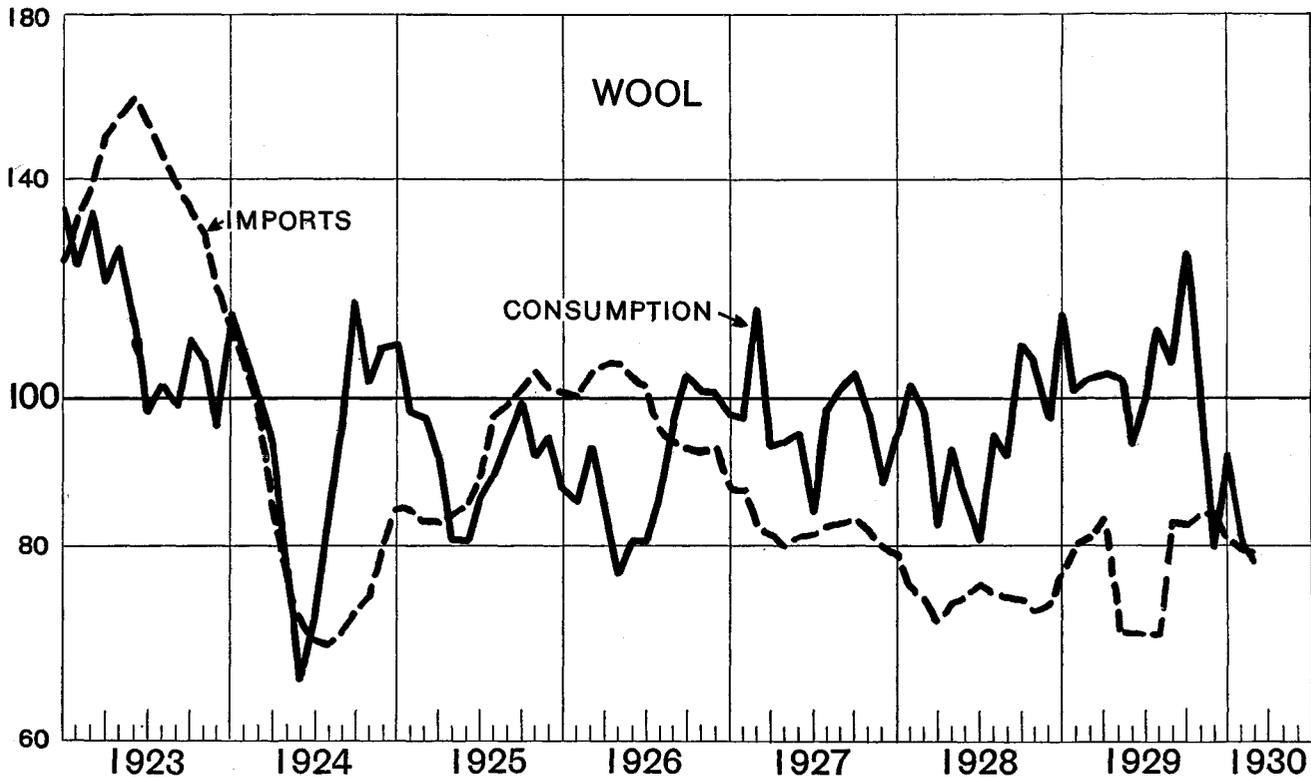
Exports of cotton during March, while still declining seasonally, were greater than in February, but comparatively lower than a year ago. Consumption of cotton by domestic mills, while greater than the previous month, was still lower than in March, 1929. Stocks of cotton held at the end of March, at mills

Billings of finished goods, new orders for gray yardage, and shipments of finished goods for March were reported by cotton finishers as being greater than in February, but substantially less than during March, 1929. Stocks, held at these plants, however, were smaller than at the end of February.

Imports of silk during March were, less than in February or a year ago. Deliveries to manufacturers during the month showed a gain of 2 per cent over February and March, 1929. Stocks held at warehouses at the end of March showed a slight decrease from a month ago but were 28 per cent higher than in the same period of 1929. Stocks in the hands of manufacturers for this period, while showing hardly any change from a month ago,

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]



and warehouses, while declining from the previous month, were substantially greater than a year ago. Cotton prices were lower in March than in either the previous month or the same period of 1929.

Cotton spindle activity in March, while showing only a slight decline from the previous month, was 7 per cent less than a year ago. The production and shipments of cotton textiles were also smaller than during either the previous month or during March, 1929. New orders and unfilled orders, while showing a slight increase over February, were less than a year ago. Stocks of textiles, held at the end of March, on the other hand, while less than at the end of February, were 28 per cent greater than a year ago.

were 5 per cent less than in March, 1929. The activity of broad looms and spinning spindles was greater in the manufacture of silk than in either the month of February or March a year ago. The activity of narrow looms, however, while slightly greater than in February, was 13 per cent less than a year ago. The wholesale price of raw Japanese silk at New York showed a slight increase over February but declined from a year ago.

Rayon imports were lower than in either prior period. Rayon prices in March showed no change from the preceding month but were lower than the same period of 1929. Shipments of pyroxylin-coated textiles showed a gain over the previous month but were much smaller than during March, 1929

METALS

The production of pig iron exceeded that of the previous month but was 12 per cent smaller than a year ago. More furnaces were in blast at the end of the month, than at the end of February, but a decline was registered from a year ago. The number of long tons of iron produced per day by active furnaces increased over February but was less than March, 1929.

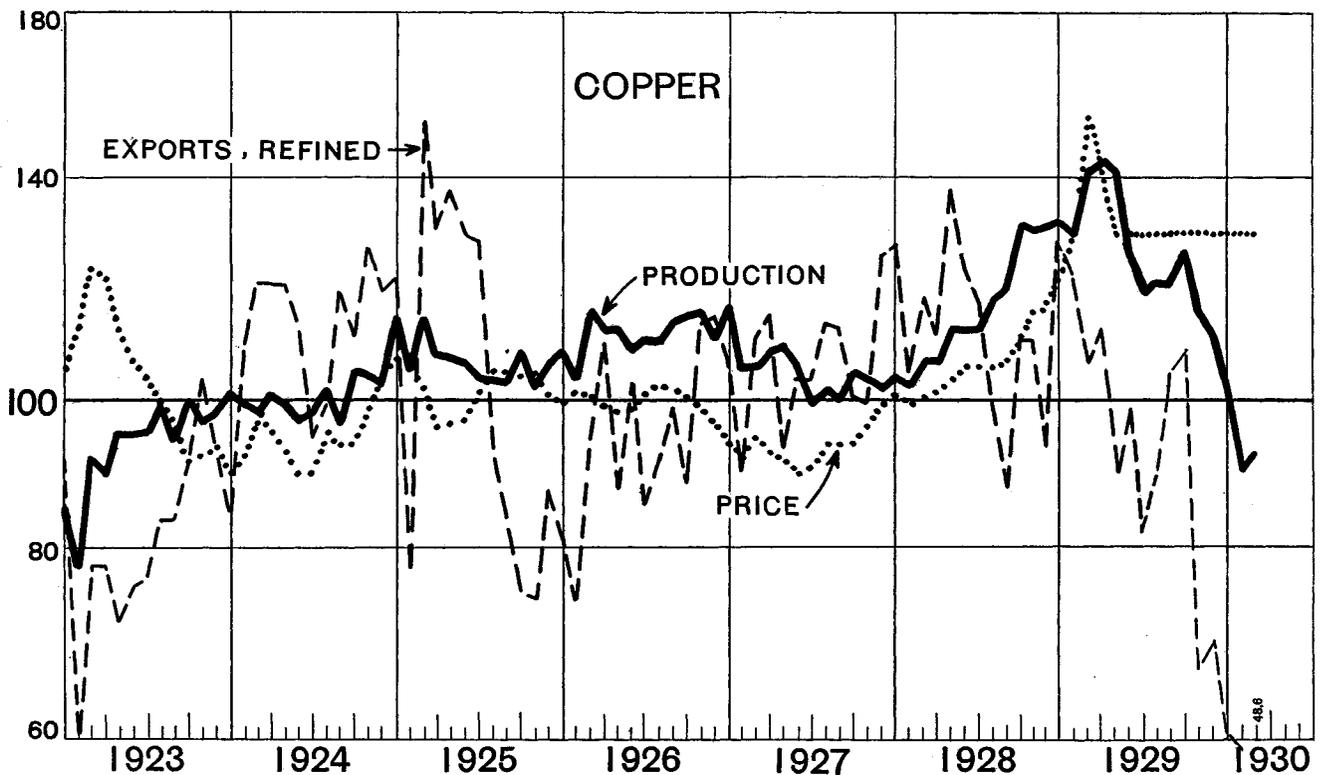
The production of steel ingots continued to increase and showed a total of 4,289,000 long tons for the month of March, however, this was more than 15 per cent less than was produced in March, 1929. Unfilled

steel castings increased over February but were less than a year ago while new orders for malleable castings were less than for both prior periods.

New orders for fabricated-steel plate were considerably smaller than in March, 1929. Production and shipments of steel barrels were larger than in February and also for a year ago. New orders for steel boilers were greater in number and in the area of heating surface than in February but presented declines from a year ago. Shipments of cold-finished steel bars were smaller than in February and also for March, 1929. Iron and steel exports were greater than in February but less than in March, 1929.

COPPER PRODUCTION, EXPORTS, AND STOCKS

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



steel orders at the end of March were larger than at the end of either the previous month or the same period a year ago.

The output of steel sheets by independent mills was smaller than in either the previous month or March, 1929, the ratio of production to capacity likewise showing a decrease from both prior periods. Shipments, new orders, and unfilled orders of sheets showed an upward trend and were all greater than in February but less than a year ago. Total stocks, on the other hand, while declining from February were greater than March, a year ago. Wholesale prices for steel while showing slight changes from the previous month were substantially lower than a year ago.

The production of steel castings showed an upward trend from a month ago but was less than last year. The malleable-castings output, on the other hand, was smaller than either prior period. New orders for

Shipments of enameled-iron sanitary ware were larger than in February but less than a year ago, new orders and unfilled orders showing similar tendencies. New orders for foundry equipment showed declines from February and March, 1929. Sales of mechanical stokers, while greater in the previous month, were less than a year ago.

The production of copper, both mine and smelter, was larger than in February but considerably less than in March, 1929. The output of lead, on the other hand, exceeded that of the previous month. Stocks of refined copper and zinc were substantially greater than at the end of February or the corresponding period of 1929. Copper prices were unchanged from the previous month but were considerably less than a year ago. Prices of zinc and tin showed fractional declines from the previous month and were considerably lower than in March, 1929.

FUELS

Production of bituminous coal declined seasonally and was also smaller than during March, 1929. Exports also showed a decline from both prior periods. Anthracite production was also smaller than February and the corresponding month a year ago. Bituminous-coal prices declined from both prior periods. Anthracite-coal prices, on the other hand, were unchanged from the previous month and only slightly lower than a year ago. The production of coke, both bee-hive and by-product, showed an increase over February but was lower than a year ago. Exports of coke showed declines from both prior periods. The price of coke at Connellsville was lower than a year ago.

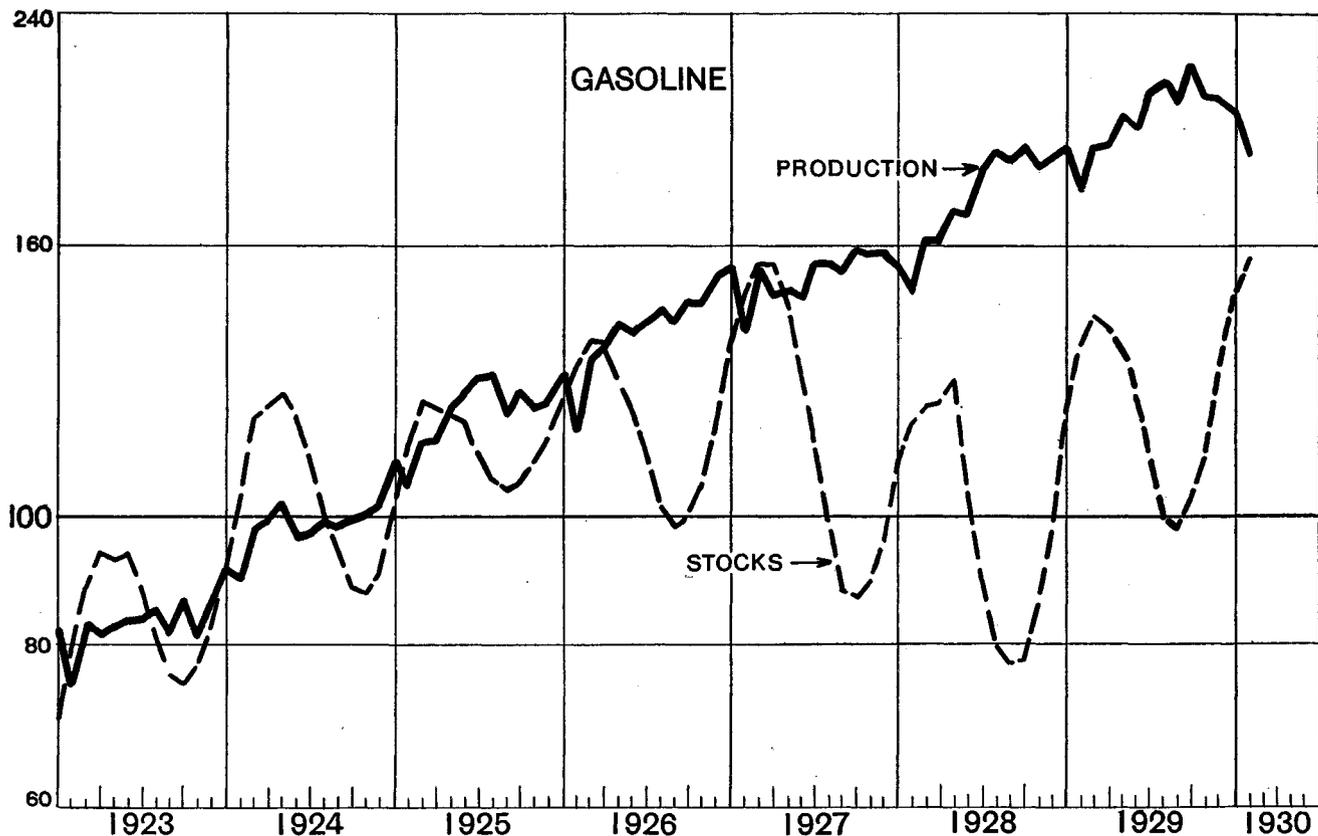
ago. The production of pneumatic tires was slightly higher than during the previous month but was much smaller than a year ago. Shipments, while increasing over February, were less than last year.

HIDES AND LEATHER

Imports of hides and leather were larger than during the previous month and the same period a year ago. Production of sole leather was larger than the previous month and the corresponding period a year ago. Exports of sole and upper leather increased over February but were less than in March, 1929. Production of boots and shoes during March declined seasonally from February and the same period a year ago.

PRODUCTION AND STOCKS OF GASOLINE

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



AUTOMOBILES AND RUBBER

Automobile production in March showed a marked increase over the previous month but was 31 per cent lower than last year. The same trends were apparent for Canada, the decline from last year being in that case 49 per cent. Domestic exports from the United States were greater than in the previous month, but lower than a year ago. Exports of passenger cars and trucks showed marked gains over the month of February but still showed a lag from March, 1929. Canadian exports were larger than in February but much smaller than a year ago.

Imports of rubber, including latex, showed a slight gain over the previous month but still lower than March, 1929. Rubber stocks both in producing countries and in the United States, on the other hand, were seasonally larger than in February and a year

ago. Exports of boots and shoes showed a marked gain over February but were 32 per cent less than the corresponding period of 1929. The wholesale prices of shoes, both men's and women's registered no change from either prior period.

PAPER AND PRINTING

Imports of wood pulp, in most instances, were less than either the previous month or in March, 1929. The domestic production of newsprint paper showed a small gain over February but was slightly less than the same period a year ago. Stocks of newsprint in American mills increased over the preceding month but were 21 per cent less than a year ago. Canadian stocks, however, declining from February were greater than at the end of March, 1929. Publishers' stocks at the end of March while less than in February were more than 20 per cent larger than a year ago.

BUILDING AND CONSTRUCTION

Building contracts awarded during March increased almost 38 per cent over February but were fewer than in March of 1929. Building costs showed only slight changes from either prior period. Fire losses in the United States and Canada were smaller than during the previous month or the corresponding month of last year.

LUMBER

The production of lumber was generally larger than in February but smaller than a year ago. With the exception of the production of California white and

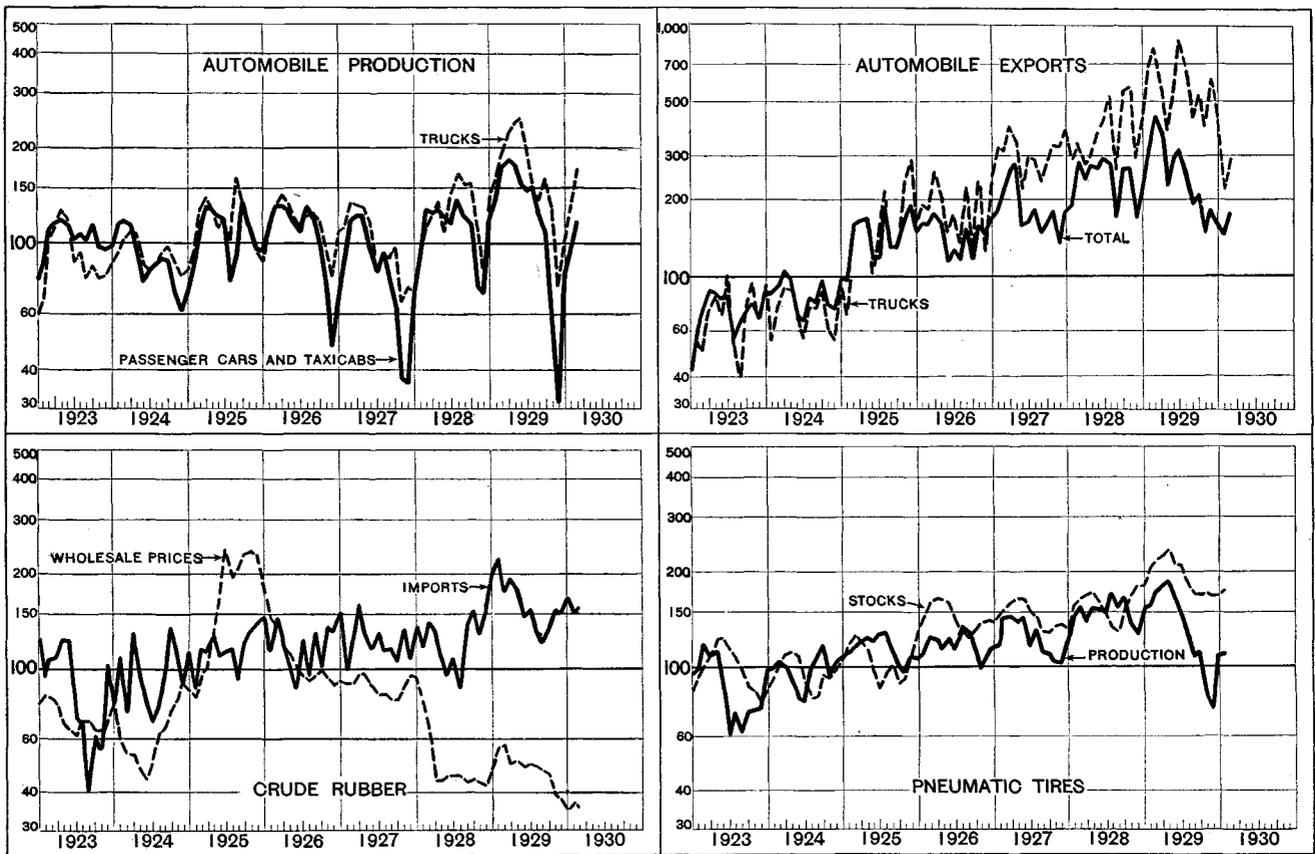
of maple flooring held at the end of March, were slightly greater than those held at the end of the previous month and were 22 per cent greater than a year ago. Stocks of oak flooring while greater than at the end of February were 15 per cent less than in March, 1929. New orders for both maple and oak flooring were greater in March but showed decreases from a year ago.

STONE, CLAY, AND GLASS PRODUCTS

The production of cement showed marked increases for both February and March of 1929, the increase over February being 38 per cent. Shipments in March while greater than in February showed a loss from a

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



sugar pine, all major types showed increases. Lumber shipments, on the other hand, in most cases were greater than the previous month but less than the same month a year ago, declines from February being registered in the case of California redwood and Northern pine, all other types showing decreases from a year ago. Unfilled orders for Douglas fir and California white and sugar pine were smaller in March than in February and also showed a decline from last year, while California redwood showed a slight decline from a year ago.

The production of oak flooring showed a marked increase over both the month of February or March, 1929, while maple flooring declined from both prior periods. Shipments of both types, however, advanced substantially over the previous month but showed a falling off when compared with March, 1929. Stocks

year ago. Stocks held at the end of March showed substantial gains over both prior periods.

New orders, shipments, and unfilled orders of porcelain plumbing fixtures while greater than in February were still below the March, 1929, level. The wholesale prices of 6 types of plumbing fixtures advanced over both February and March of last year.

New orders for terra cotta declined from February and were substantially lower than a year ago. The production of plate glass while greater than the preceding month showed a decline from March, 1929. Production of roofing felt while showing a gain when compared with February was below that of March, 1929; stocks on the other hand while less than those held at the end of February were greater than the corresponding period a year ago.

FOODSTUFFS AND TOBACCO

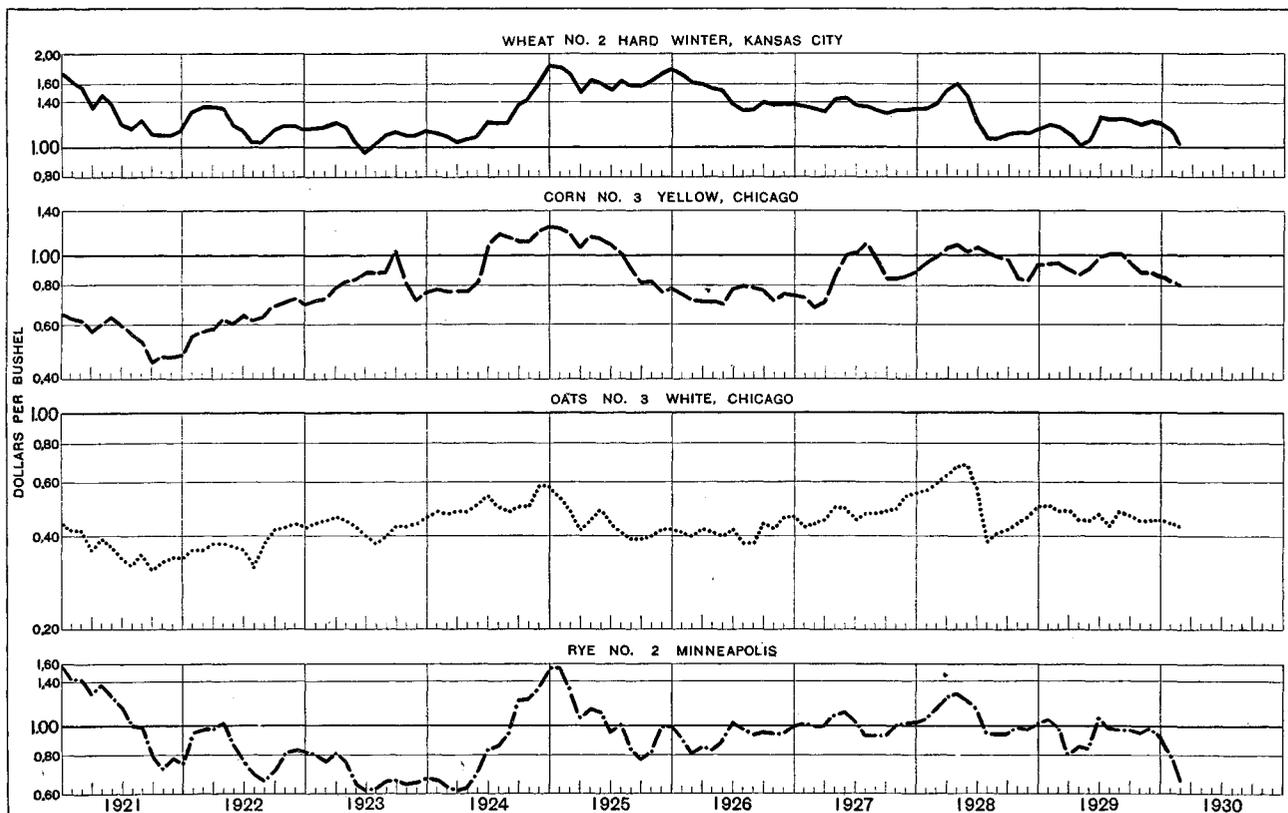
The visible supply of wheat in the United States and Canada at the end of March declined seasonally from the previous month but was more than 22 per cent greater than the supply at the end of March, 1929. Wheat receipts also declined seasonally and were less than a year ago, shipments however were 8 per cent greater than February but declined from a year ago. Exports of wheat from the United States declined from the previous month and the same period of 1929. Exports from Canada, on the other hand, while showing an increase over February were less than March a year ago. Wheat prices declined from both prior periods.

under Federal inspection, was greater than in February but less than in March, 1929. Stocks of this commodity, measured by cold-storage holdings, while declining from the previous month were 9 per cent greater than a year ago. Beef prices in most cases, were uniformly higher than in the previous month and in the corresponding period a year ago.

Receipts of hogs at principal markets were less than in February and in March, 1929. The production of pork, including lard, under Federal inspection, was also less than for either prior period and cold-storage holdings registered declines of 4 per cent from February and were 20 per cent less than a year ago.

MOVEMENT OF GRAIN PRICES

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



The visible supply of corn was greater than at the end of February but 32 per cent less than in March, 1929. Receipts of corn in principal markets declined from both the preceding month and the same period in 1929. Shipments, however, registered small gains over both prior periods. Wholesale prices of corn, in line with the declining prices of grain in general, showed decreases over February, and the same period a year ago. The visible supply of barley showed a falling off from both prior periods. The visible supply of oats, on the other hand, declined from the previous month but exceeded that of March, 1929.

Receipts of cattle and calves at the principal markets registered gains over those shown for February and March a year ago. The production of beef and veal,

Wholesale prices paid for heavy hogs at Chicago declined from the previous month and were 13 per cent less than a year ago.

Receipts of sheep at major markets showed a seasonal gain over February and were 41 per cent greater than the corresponding period a year ago, local slaughter also showed gains over both prior periods. Cold-storage holdings of mutton and lamb at the end of March while less than at the end of February were substantially greater than March of last year. Receipts of poultry declined seasonally from the previous month and were slightly less than in March, 1929. Cold-storage holdings, however, although dropping from the level shown at the end of February, were substantially greater than a year ago.

Butter receipts at major markets were larger than in February and a year ago, with cold-storage holdings showing a very large increase over March of 1929. Butter prices showed a slight increase over February but were less than a year ago.

Cheese receipts at principal markets were greater than in February and 5 per cent higher than in March a year ago, while cold-storage holdings of all types registered declines from both prior periods. Receipts of case eggs were seasonally higher than in February and were 14 per cent greater than a year ago, cold-storage holdings of both case and frozen eggs showing similar tendencies.

Sugar imports from foreign countries, although greater than in February, were much less than a year ago. The receipts of this commodity from Hawaii and Porto Rico, however, showed increases over both prior periods. Stocks of sugar at large refineries continued to decline from those held at the end of February and were 6 per cent less than March, 1929. Prices, both wholesale and retail, in most cases, were generally less than for either prior period. The visible supply of coffee in the United States was larger than at the end of February or March a year ago. Imports declined from the previous month but exceeded those of March, 1929. Prices of coffee, while showing a slight decline from February, were substantially less than the corresponding period a year ago.

The consumption of cigarettes continued to increase over a year ago while cigar consumption declined. Exports of unmanufactured tobacco products declined from the previous month but were much larger than in March a year ago with cigarette exports being greater than in February but less than a year ago.

TRANSPORTATION

Car-loadings of freight when compared with the similar period of 1929 registered a decline of 8 per cent. All groups, in keeping with the total, showed smaller loadings than in March of last year. Surplus freight cars continued to show increases over a year ago. Vessels leaving United States ports to engage in foreign trade were larger than the previous month but smaller than a year ago. Unfilled orders for locomotives registered declines from both February and March, 1929. Merchandise warehouse space at the end of February was 72 per cent filled as against 75 per cent at the end of January, and 68 per cent at the end of February, 1929.

DISTRIBUTION MOVEMENT

Sales by mail-order-house systems were slightly less than in February but showed a substantial loss when compared with March a year ago. Sales by principal

chain stores, on the other hand, were greater than in February but slightly less than a year ago. Advertising in newspapers and magazines was much larger than in the preceding month but less than in March, 1929. Money expended for advertising in selected magazines and by way of radio broadcast was much larger than in February or March a year ago. Postal receipts at the 100 principal cities were greater during February but slightly less than the same period a year ago.

BANKING AND FINANCE

Check payments, both in and outside of New York City, were greater than the preceding month but less than in March, 1929. Loans and discounts of Federal reserve member banks showed increases over both prior periods. Brokers' loans, while much less than a year ago, were well above the level shown at the end of February.

Interest rates on commercial paper averaged lower than in either the previous month or March of last year. Dividend and interest payments scheduled for April were larger than for April, 1929. Business failures had larger liabilities than in either February or in March a year ago. New sales of ordinary life insurance was greater in March than in February or the same period a year ago.

GOLD, SILVER, AND FOREIGN EXCHANGE

Receipts of domestic gold at the mint during March were greater than either in March or the corresponding period a year ago. The Rand production of the metal also registered increases over both prior periods. Gold imports during March showed a decrease from the preceding month but increased over March, 1929.

Silver production in the United States registered increases over February and the corresponding period a year ago. The production in Canada also increased over both prior periods, the increase over February being 40 per cent. Silver imports and exports, while increasing over the month of February, were less than in March, 1929, while stocks held at the end of March were less than at the end of either prior period. The price of silver showed a corresponding decline from both prior periods.

Rates for foreign exchange were generally the same as in the preceding month and the corresponding month a year ago, the only exception being in the rates with Sweden, Switzerland, Canada, Brazil, and Chile which showed slight advances over February. As compared with a year ago, rates with England, Sweden, Switzerland, Japan, and Canada showed increases while rates with India, Argentina, and Brazil declined.

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 (-)	
			January	February	March	January	February	March	March, 1930 from February, 1930	March, 1930 from March, 1929
PRODUCTION										
TOTAL INDUSTRIAL										
Unadjusted, except for working days.....	125	81	116	120	121	103	109	105	-3.7	-13.2
Adjusted for seasonal variations.....	123	83	117	117	118	103	107	105	-1.9	-11.0
MANUFACTURING										
Total (adjusted for working days only).....	127	79	116	120	125	102	110	108	-2.4	-13.6
Total (adjusted for seasonal variations).....	128	82	117	116	120	102	106	106	0.0	-11.7
Iron and steel.....	155	59	117	126	132	99	118	112	-5.1	-15.2
Textiles.....	121	77	116	113	116	103	99	98	-1.0	-15.5
Food products.....	110	90	103	101	96	96	94	91	-3.2	-5.2
Paper and printing.....	128	91	123	123	125	122	125	124	-0.8	-0.8
Lumber.....	110	78	89	78	83					
Automobiles.....	166	47	150	148	159	102	103	109	+5.8	-31.4
Leather and shoes.....	134	86	95	98	99	95	95	91	-4.2	-8.1
Cement.....	99	126	126	115	99	108	110	111	+0.9	+12.1
Nonferrous metals.....	137	87	124	123	129	105	101	104	+3.0	-19.4
Petroleum refining.....	178	84	159	160	160	163	168			
Rubber tires.....	169	66	148	152	152	107	107	105	-1.9	-30.9
Tobacco manufactures.....	143	93	131	129	126	131	133	128	-3.8	+1.6
MINERALS										
Total (adjusted for working days only).....	128	84	113	116	101	107	104	91	-12.5	-9.9
Total (adjusted for seasonal variations).....	120	90	117	120	107	112	108	97	-10.2	-9.3
Bituminous coal.....	125	77	103	110	90	99	91	81	-11.0	-10.0
Anthracite coal.....	133	1	110	110	77	106	102	69	-32.4	-10.4
Crude petroleum.....	147	88	137	137	133	132	135	128	-5.2	-3.8
Iron-ore shipments.....	143	0								
Copper.....	139	82	129	136	135	101	95	88	-7.4	-34.8
Zinc.....	127	93	100	106	112	103	99	96	-3.0	-14.3
Lead.....	125	75	111	99	112	92	105			
Silver.....	123	85	94	91	93	91	90			
ANIMAL PRODUCTS (Marketings)										
Total.....	124	79	96	80	88	95	84	98	+16.7	+11.4
Wool.....	421	14	34	14	43	49	38	42	+10.5	-2.3
Livestock.....	131	76	102	78	77	98	81	81	0.0	+5.2
Poultry and eggs.....	148	67	85	67	106	89	85	157	+84.7	+48.1
Dairy products.....	160	64	95	88	98	92	87	100	+14.9	+2.0
Fish.....	283	44	87	138	156	135	155	187	+20.6	+19.9
CROPS (Marketings)										
Total.....	252	45	113	82	73	79	63	55	-22.7	-24.7
Grains *.....	218	38	100	95	80	79	81	62	-23.5	-22.5
Vegetables *.....	199	60	94	96	102	89	93	96	+3.2	-5.9
Fruits *.....	266	43	72	69	67	53	55	53	-3.6	-20.9
Cotton products *.....	373	11	100	55	62	76	41	42	+2.4	-32.3
Miscellaneous crops *.....	344	18	243	136	68	107	66	43	-34.8	-36.8

* 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 (-)	
			January	February	March	January	February	March	March, 1930 from February, 1930	March, 1930 from March, 1929
PRODUCTION—Continued										
FOREST PRODUCTS										
Total.....	112	62	82	75	86	63	67	73	+9.0	-15.1
Lumber.....	112	59	78	75	37	59	63	68	+7.9	+83.8
Pulpwood.....	151	54	123	93	108	106	90	126	+40.0	+16.7
Gum (rosin and turpentine)*.....	204	18	41	26	37	48	27	41	+51.9	+10.8
Distilled wood.....	148	65	104	99	106	104	86	96	+11.6	-9.4
NEW ORDERS										
Total.....	138	72	99	98	115	94	71	-----	-----	-----
Textiles.....	179	70	105	99	111	84	74	-----	-----	-----
Iron and steel.....	143	71	135	132	158	117	103	113	+9.7	-28.5
Lumber.....	141	50	80	78	97	50	44	-----	-----	-----
Paper and printing.....	118	85	111	113	128	113	109	-----	-----	-----
Stone and clay products.....	129	73	87	93	95	73	68	71	+4.4	-25.3
STOCKS										
Grand total.....	158	82	139	138	134	151	147	141	-4.1	+5.2
Total manufactured goods.....										
Foodstuffs.....	136	79	107	111	108	105	110	102	+0.8	+1.6
Textiles.....	138	78	127	127	123	125	120	119	-0.8	-3.3
Iron and steel.....	158	78	152	150	157	147	158	159	+0.6	+1.3
Nonferrous metals.....	181	74	124	117	114	180	181	185	+2.2	+62.3
Lumber.....	125	78	116	112	105	118	117	114	-2.6	+8.6
Stone, clay, etc.....	192	64	180	185	181	175	187	194	+3.7	+7.2
Leather.....	123	66	76	73	72	75	75	73	-2.7	+1.4
Rubber.....	199	77	160	178	186	144	148	159	+7.4	-14.5
Paper.....	156	46	145	136	117	72	79	92	+16.5	-21.4
Chemicals and oils.....	137	84	126	130	132	130	133	140	+5.3	+6.1
Total raw materials.....										
Foodstuffs.....	230	68	158	172	181	198	196	185	-7.3	+7.8
Textiles.....	204	43	161	143	128	189	171	153	+10.5	+19.5
Metals.....	136	54	89	83	66	100	94	85	-9.6	+28.8
Chemicals and oils.....	153	73	125	114	105	118	111	106	-4.5	+1.0
UNFILLED ORDERS										
Total.....	167	67	77	80	86	80	80	84	+5.0	-2.3
Textiles.....	154	52	75	81	82	55	54	50	-7.4	-39.0
Iron and steel.....	157	66	86	87	93	90	89	93	+4.5	0.0
Transportation equipment.....	204	49	53	74	81	118	112	123	+9.8	+51.8
Lumber.....	142	56	74	73	82	69	72	79	+9.7	-9.6
RETAIL TRADE										
Mail order houses (2 houses).....	275	68	145	142	163	138	141	-----	-----	-----
CHAIN STORES:										
Ten-cent.....	308	62	112	122	156	117	126	144	+14.3	-7.7
Restaurant.....	116	87	102	97	109	108	100	110	+10.0	+0.9
DEPARTMENT STORES:										
Sales.....	189	71	92	86	110	89	83	95	+14.5	-13.6
Stocks.....	117	83	89	95	102	88	93	100	+7.5	-2.0
COST OF LIVING										
National Industrial Conference Board Indexes										
(Relative to July, 1914)										
All items weighted.....	172	158	161	161	160	160	159	157	-1.3	-1.9
Food (Department of Labor).....	167	141	155	154	153	155	153	150	-2.0	-2.0
Shelter.....	186	158	159	159	159	159	158	158	0.0	-0.6
Clothing.....	177	160	169	170	166	166	164	163	-0.6	-1.8
Fuel and light (combined).....	179	156	163	162	162	163	162	162	0.0	0.0
Fuel.....	208	174	184	184	184	184	183	183	0.0	-0.5
Light.....	123	118	121	120	120	121	121	121	0.0	+0.8
Sundries.....	176	168	170	170	170	168	168	167	-0.6	-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 (-)	
			January	February	March	January	February	March	March, 1930 from February, 1930	March, 1930 from March, 1929
EMPLOYMENT *										
(Relative to 1923-1925 monthly average as 100)										
Number employed, by industries:										
Total, all classes.....	106	91	97	100	101	93	93	93	0.0	-7.9
Iron and steel.....	108	88	97	98	99	92	94	93	-1.1	-6.1
Machinery.....	122	88	107	110	114	110	109	109	0.0	-4.4
Textiles.....	111	84	96	98	101	93	93	93	0.0	-7.9
Food products.....	109	93	99	99	98	97	97	95	-2.1	-3.1
Paper and printing.....	107	96	103	103	103	105	104	104	0.0	+1.0
Lumber and products.....	104	75	86	86	87	77	75	75	0.0	-13.8
Transportation equipment—										
Group.....	110	81	94	99	101	83	84	83	-1.2	-17.8
Automobiles.....	131	79	118	130	131	86	90	91	+1.1	-30.5
Leather and products.....	112	88	92	94	93	91	99	92	0.0	-1.1
Cement, clay and glass.....	107	75	84	85	87	75	75	78	+4.0	-10.3
Nonferrous metals.....	113	84	102	106	108	86	85	84	-1.2	-22.2
Chemicals—										
Group.....	119	90	108	111	116	111	110	113	+2.7	-2.6
Petroleum refining.....	125	95	104	107	109	121	121	119	-1.7	+9.2
Rubber products.....	117	84	112	112	113	90	88	87	-1.1	-23.0
Tobacco products.....	109	84	84	92	92	84	89	90	+1.1	-2.2
Amount of pay roll by industries:										
Total all classes.....	112	85	101	108	111	94	97	98	+1.0	-11.7
Iron and steel.....	114	77	101	107	109	91	98	97	-1.0	-11.0
Machinery.....	132	83	112	121	127	114	115	115	0.0	-9.4
Textiles.....	111	77	97	104	109	92	94	97	+3.2	-11.0
Food products.....	109	94	102	103	101	103	102	100	-2.0	-1.0
Paper and printing.....	118	92	111	113	115	115	115	115	0.0	0.0
Lumber and products.....	107	73	83	87	88	73	73	75	+2.7	-14.8
Transportation equipment—										
Group.....	117	80	94	111	114	81	90	91	+1.1	-20.2
Automobiles.....	152	66	115	147	148	74	93	97	+4.3	-34.5
Leather and products.....	116	80	90	95	91	85	86	85	-1.2	-6.6
Cement, clay, and glass.....	108	67	79	81	85	67	70	73	+4.3	-14.1
Nonferrous metals.....	128	81	117	124	128	92	92	91	-1.1	-28.9
Chemicals—										
Group.....	118	90	106	111	114	109	110	112	+1.8	-1.8
Petroleum refining.....	129	90	105	110	112	121	125	123	-1.6	+9.8
Rubber products.....	150	82	112	123	124	89	92	90	-2.2	-27.4
Tobacco products.....	111	76	76	82	84	77	80	81	+1.3	-3.6
WHOLESALE PRICES										
Department of Labor Indexes										
(Relative to 1926 monthly average as 100)										
All commodities.....	105	91	97	97	98	93	92	91	-1.1	-7.1
Farm products.....	114	94	106	105	107	101	98	95	-3.1	-11.2
Food, etc.....	107	85	99	98	98	97	96	94	-2.1	-4.1
Hides and leather products.....	127	98	114	109	108	105	104	103	-1.0	-4.6
Textile products.....	114	87	96	96	96	89	88	87	-1.1	-9.4
Fuel and lighting.....	112	77	83	81	81	80	79	77	-2.5	-4.9
Metals and metal products.....	113	97	104	104	106	101	101	101	0.0	-4.7
Building materials.....	116	90	97	98	99	96	96	95	-1.0	-4.0
Chemicals.....	104	91	96	96	96	93	92	91	-1.1	-5.2
House-furnishing goods.....	111	97	97	97	97	97	97	97	0.0	0.0
Miscellaneous.....	127	78	81	80	80	79	79	78	-1.3	-2.5
Classified by condition of manufacture:										
Semimanufactured articles.....	128	91	97	97	99	93	92	91	-1.1	-8.1
Finished products.....	103	92	97	96	97	93	93	92	-1.1	-5.2
Raw materials.....	109	89	99	98	99	94	92	99	-3.3	-10.1
Nonagricultural commodities.....	106	90	95	94	95	91	91	90	-1.1	-5.3
Commercial Indexes										
(Relative to 1926 monthly average as 100)										
Dun's.....	106	85	103	103	102	98	96	95	-1.0	-6.9
Bradstreet's.....	112	87	101	101	100	89	87	87	0.0	-13.0

* See tables on pp. 19 and 21 of the December, 1929, issue for earlier data

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 (-)	
			January	February	March	January	February	March	March, 1930 from February, 1930	March, 1930 from March, 1929
PRICE INDEX NUMBERS										
FARM PRICES										
(Relative to 1909-1914 average as 100)										
All groups.....	152	125	133	136	140	134	131	126	- 3. 8	- 10. 0
Grains.....	178	108	115	123	124	118	115	107	- 7. 0	- 13. 7
Fruits and vegetables.....	253	108	109	111	112	167	168	169	+ 0. 6	+ 50. 9
Meat animals.....	167	98	146	150	160	146	150	151	+ 0. 7	- 5. 6
Dairy and poultry.....	166	122	149	148	144	146	136	123	- 9. 6	- 14. 6
Cotton and cottonseed.....	252	81	148	149	155	128	121	113	- 6. 6	- 27. 1
Unclassified.....	108	79	92	91	90	87	84	80	- 4. 8	- 11. 1

LIFE-INSURANCE LAPSES ¹

(Relative to 1925-26 average)

	1925										1926									
	Total	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	Total	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
First quarter.....	96	97	92	101	97	98	93	94	93	91	96	90	96	93	97	90	106	99	101	102
Second quarter.....	100	101	103	103	93	98	95	100	92	101	96	86	97	98	92	94	92	95	98	104
Third quarter.....	103	116	106	104	106	96	104	100	105	102	106	106	107	105	104	113	108	103	107	101
Fourth quarter.....	101	106	101	98	100	97	105	111	98	98	102	101	98	97	109	116	96	98	108	101
Yearly average.....	100	105	101	102	99	97	99	101	97	98	100	96	100	98	101	103	101	99	104	102
1927											1928									
First quarter.....	96	89	100	92	94	109	103	95	89	90	94	92	96	98	87	97	91	90	89	99
Second quarter.....	102	102	104	102	97	119	103	94	98	105	94	89	104	98	84	103	93	89	86	90
Third quarter.....	106	108	110	108	102	107	111	105	105	101	98	103	109	104	89	101	101	86	96	94
Fourth quarter.....	107	104	112	114	98	108	103	101	115	112	97	101	100	98	94	107	107	91	93	94
Yearly average.....	103	101	107	104	98	111	105	99	102	102	96	96	102	100	89	102	98	89	91	94
1929											1930									
First quarter.....	86	91	85	87	88	95	92	81	88	86	99	106	113	106	87	96	110	89	94	90
Second quarter.....	95	101	99	95	87	103	109	93	88	90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Third quarter.....	102	110	112	107	96	105	109	91	105	99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fourth quarter.....	104	110	113	107	97	107	121	94	111	103	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yearly average.....	97	103	102	99	92	103	108	90	98	95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Compiled by the Life Insurance Sales Research Bureau from reports of 63 companies until June 30, 1928, and from 62 companies thereafter, based on lapses of ordinary life insurance before the payment of premiums for 2 full years. Details by States are also contained in the bureau's report

AUTOMOBILE PRODUCTION IN THE UNITED STATES¹

[Number of vehicles]

MONTH	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
	TOTAL PASSENGER CARS, TAXICABS, AND TRUCKS																
January	35,662	45,644	31,253	107,402	122,002	92,208	93,779	187,937	53,237	89,374	245,889	318,589	240,579	308,998	238,908	231,728	401,037
February	35,663	48,482	49,309	124,546	144,674	106,962	114,598	188,030	70,599	117,871	278,091	370,569	283,638	363,652	304,735	323,796	466,418
March	45,273	60,211	94,311	162,074	165,622	132,142	146,091	229,212	112,453	171,487	359,476	383,424	374,406	433,467	394,513	413,314	585,455
April	60,335	70,367	101,910	152,529	172,045	153,673	165,229	173,398	152,201	219,394	379,138	375,868	433,792	439,336	406,382	410,104	621,910
May	57,199	56,354	88,390	155,950	185,711	143,003	176,484	210,019	156,805	255,222	395,555	315,177	419,056	425,167	405,648	425,783	604,691
June	53,581	44,975	91,059	139,794	172,656	118,859	166,575	225,677	190,520	278,876	380,110	251,800	398,524	386,269	323,817	396,796	545,932
July	34,808	30,987	65,604	120,755	164,764	118,060	164,831	209,652	176,870	245,755	331,844	269,812	398,947	359,610	269,396	392,086	500,840
August	31,416	48,373	82,082	106,623	146,454	89,542	165,414	205,205	181,270	270,838	348,216	284,693	260,236	426,851	309,994	461,298	498,628
September	29,860	53,523	98,861	140,281	162,883	53,555	180,786	188,514	158,760	203,927	327,720	296,382	325,728	398,938	300,310	415,314	415,912
October	28,537	44,294	89,127	134,939	165,333	50,311	207,222	165,298	148,009	232,824	366,461	294,553	441,981	334,421	219,682	397,284	380,017
November	32,276	32,698	84,769	140,255	156,716	43,244	190,321	134,975	116,644	232,923	314,564	234,611	372,271	256,301	134,630	257,140	270,570
December	40,390	33,176	93,255	133,106	115,079	63,127	162,265	109,432	79,455	225,285	307,008	207,062	316,672	167,924	133,571	234,116	120,004
Total	485,000	569,054	969,930	1,617,708	1,873,949	1,170,686	1,933,595	2,227,349	1,596,823	2,544,176	4,034,012	3,602,540	4,265,830	4,300,934	3,401,326	4,358,759	5,358,414
Mo. av.	40,417	47,421	80,828	134,809	156,162	97,557	161,133	185,612	133,069	212,015	336,168	300,212	355,486	358,411	283,444	363,230	446,835
PASSENGER CARS																	
January	34,483	44,364	28,304	100,806	116,815	81,611	76,422	157,115	45,397	78,317	223,421	286,314	208,725	275,352	197,708	205,035	345,545
February	34,423	46,609	44,919	117,460	138,759	95,202	97,126	158,921	60,326	103,227	252,780	335,356	246,381	322,642	262,021	290,543	404,063
March	43,887	57,972	88,583	153,175	157,882	112,279	124,559	193,641	98,941	149,238	321,453	344,803	325,389	384,091	343,390	370,612	511,677
April	57,584	67,990	95,537	143,371	163,618	130,361	145,359	149,457	137,640	193,927	337,149	334,736	381,023	384,841	356,402	363,649	535,878
May	54,871	53,521	81,054	147,840	175,583	118,638	154,792	182,027	144,097	228,975	347,019	275,196	370,928	374,448	356,614	374,173	514,863
June	51,512	42,991	83,813	133,363	162,926	97,194	144,805	192,826	177,083	249,980	334,596	219,730	356,203	340,478	279,258	355,277	451,371
July	33,165	29,236	59,111	112,810	154,638	93,909	142,135	181,051	163,796	221,367	299,139	239,299	353,523	316,823	237,541	337,157	424,944
August	29,227	46,793	76,246	99,330	132,234	67,058	140,479	176,234	166,292	244,340	313,107	252,108	221,546	380,485	275,377	398,253	440,780
September	27,035	52,095	91,797	132,115	148,572	39,591	154,119	160,520	142,931	184,929	298,504	261,143	265,234	351,783	226,198	357,428	363,471
October	25,902	41,588	80,539	125,889	152,088	30,119	177,270	138,031	132,579	208,977	334,742	257,785	390,483	289,721	182,456	338,224	318,462
November	30,630	30,538	78,193	131,841	140,837	29,941	161,600	118,944	103,485	207,498	285,346	201,960	328,218	219,391	108,938	215,042	167,846
December	38,781	29,982	87,834	127,578	101,840	47,533	138,986	96,793	69,437	203,410	277,461	177,451	279,698	137,608	105,269	203,317	91,011
Total	481,500	543,679	895,930	1,525,578	1,745,792	943,436	1,657,652	1,905,560	1,442,007	2,274,185	3,624,717	3,185,881	3,727,751	3,777,863	2,931,172	3,808,704	4,569,811
Mo. av.	38,458	45,307	74,661	127,132	145,483	78,620	138,138	158,797	120,167	189,515	302,030	265,490	310,646	314,822	244,264	317,392	380,818
TAXICABS																	
January													785	767	449	504	2,064
February													543	497	529	462	2,108
March													526	488	452	671	2,079
April													278	501	421	612	1,686
May													264	341	316	507	1,318
June													492	238	307	408	1,378
July													374	337	270	409	1,054
August													484	556	208	469	1,040
September													469	287	245	276	865
October													789	533	586	659	868
November													1,076	766	774	700	1,646
December													1,340	813	774	1,036	1,483
Total													7,420	6,124	5,361	6,713	17,589
Mo. av.													618	510	447	559	1,466
TRUCKS																	
January	1,179	1,280	2,949	6,596	5,187	10,597	17,357	30,822	7,840	11,057	22,468	32,275	31,069	32,879	40,751	26,189	53,428
February	1,240	1,873	4,390	7,086	5,915	11,760	17,472	29,109	10,273	14,644	25,311	35,213	36,714	42,185	32,791	60,247	60,247
March	1,386	2,237	5,728	8,899	7,740	19,863	21,532	35,571	13,512	22,249	38,023	38,621	48,491	48,888	50,641	42,031	71,799
April	2,751	2,377	6,373	9,158	8,427	23,312	19,870	23,941	14,561	22,467	41,989	41,132	52,491	48,888	50,641	45,843	84,346
May	2,328	2,833	7,336	8,110	10,138	24,365	21,692	27,992	12,708	26,647	48,536	39,981	47,864	50,378	48,718	51,103	88,510
June	2,069	1,984	7,246	6,431	9,730	21,665	21,770	32,851	13,434	28,896	45,514	32,070	41,829	45,553	44,252	41,111	93,183
July	1,643	1,751	6,493	7,945	10,126	24,151	22,696	28,601	13,074	24,388	32,705	30,513	45,050	42,450	31,585	54,526	74,842
August	2,189	1,580	5,836	7,293	14,220	22,484	24,935	28,971	14,978	26,198	35,109	32,585	38,206	45,810	34,409	62,576	56,808
September	2,525	1,428	7,064	8,166	14,311	19,964	26,667	27,994	15,829	18,998	29,216	35,239	60,025	46,865	33,867	57,610	51,676
October	2,635	2,676	8,588	8,504	13,245	20,192	29,952	27,267	15,430	23,847	31,719	36,768	50,309	44,167	36,640	58,401	60,887
November	1,646	2,160	6,576	8,414	15,879	13,303	28,721	16,031	13,159	25,425	29,168	32,651	42,977	35,944	24,658	41,398	48,078
December	1,609	3,194	5,421	5,428	13,239	15,594	23,279	12,639	10,118	21,875	29,547	29,611	35,634	29,503	25,628	29,763	27,510
Total	23,500	25,375	74,000	92,130	128,157	227,250	275,943	321,789	154,816	269,991	409,295	416,659	530,659	516,974	464,793	543,342	771,014
Mo. av.	1,958	2,115	6,167	7,678	10,680	18,938	22,995	26,816	12,901	22,499	34,108	34,722	44,222	43,081	38,733	45,279	64,251

¹ Data through June, 1921, compiled by the *National Automobile Chamber of Commerce* from actual monthly reports from the principal producers, covering close to 90 per cent of the industry, from quarterly reports of other member companies, prorated to monthly figures according to the relative output of the larger companies, and from annual figures of small nonmember companies, covering the balance of the industry, prorated to monthly figures according to the relative output of the companies reporting on a monthly or quarterly basis. Beginning with July, 1921, figures are actual reports from practically the entire industry compiled by the *U. S. Department of Commerce, Bureau of the Census*, including data from the *National Automobile Chamber of Commerce*. Figures for passenger cars include taxicabs prior to 1925 and those for trucks include ambulances, funeral cars, fire apparatus, street sweepers, and busses. All these figures, revising data previously published, represent production or factory sales and cover the United States only.

SALES OF THE GREAT ATLANTIC AND PACIFIC TEA CO.¹

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
1928						1929					
September	\$69,336	4	\$17,334								

FEDERAL INCOME TAX COLLECTIONS FOR THE FIRST NINE MONTHS OF THE FISCAL YEARS, 1929 AND 1930¹

DISTRICTS AND STATES	CORPORATION		INDIVIDUAL		TOTAL INCOME TAX	
	1929	1930	1929	1930	1929	1930
Alabama.....	\$3,152,466.06	\$2,467,775.55	\$2,553,164.52	\$2,773,498.93	\$5,705,630.52	\$5,241,274.48
Arizona.....	748,366.65	988,313.56	923,130.50	1,057,504.41	1,671,467.15	2,045,817.97
Arkansas.....	1,635,004.56	1,635,879.69	1,267,304.97	752,340.73	2,902,369.53	2,388,220.42
First California.....	27,837,814.52	28,955,694.00	23,116,192.32	22,597,651.83	48,954,006.84	51,562,745.83
Sixth California.....	19,824,875.97	20,369,287.55	25,037,397.60	25,125,686.83	44,862,263.57	45,494,974.38
Total, State of California.....	45,662,690.49	49,324,981.55	48,153,590.92	47,723,338.66	93,816,270.41	97,057,720.21
Colorado.....	4,916,174.09	4,906,437.96	3,023,570.59	3,232,974.92	7,939,744.68	8,039,412.88
Connecticut.....	14,348,192.25	15,428,526.77	14,866,193.45	18,323,884.95	29,214,385.70	33,752,411.72
Delaware.....	12,891,186.94	17,969,124.52	7,041,221.91	9,120,621.41	19,932,408.85	27,089,745.93
Florida.....	2,923,516.66	2,319,040.83	6,027,696.99	6,380,925.67	8,951,213.05	8,699,966.50
Georgia.....	6,999,748.51	7,247,026.24	3,415,623.36	2,796,240.96	10,415,371.87	10,043,267.20
Hawaii.....	2,939,800.06	2,926,502.64	1,056,652.96	1,049,822.85	3,996,453.02	3,976,325.49
Idaho.....	572,565.41	436,327.76	258,451.32	187,962.52	831,016.73	624,260.28
First Illinois.....	85,646,680.23	88,644,925.71	64,205,409.48	74,558,633.44	149,853,013.71	163,203,559.15
Eighth Illinois.....	3,329,176.50	3,384,026.81	2,140,239.09	2,378,073.12	5,489,415.59	5,762,099.03
Total, State of Illinois.....	88,975,856.73	92,028,952.52	66,365,648.57	76,936,706.56	155,341,505.30	168,965,658.08
Indiana.....	11,403,888.18	10,374,446.80	8,003,821.71	7,537,819.42	19,407,709.89	17,912,266.22
Iowa.....	5,550,567.71	5,646,945.85	3,817,024.28	4,360,624.63	9,367,591.99	10,007,570.48
Kansas.....	10,289,380.66	9,831,086.90	2,741,576.40	2,374,135.70	13,033,967.06	12,265,222.40
Kentucky.....	7,122,575.19	6,618,700.37	4,073,300.35	4,444,027.81	11,195,875.54	11,092,728.18
Louisiana.....	6,476,721.29	5,061,506.04	3,267,017.10	3,122,197.29	9,743,738.39	8,183,703.33
Maine.....	3,383,352.34	3,140,570.33	2,976,589.19	3,031,321.51	6,359,941.53	6,171,891.84
Maryland, including District of Columbia.....	16,229,211.29	18,506,104.25	17,247,666.57	19,377,344.07	33,476,877.84	37,883,448.32
Massachusetts.....	42,800,599.98	36,176,613.65	39,114,691.80	46,369,055.66	81,915,291.78	82,546,309.81
Michigan.....	69,843,489.89	60,320,826.99	34,716,924.60	36,917,164.69	104,560,414.49	97,237,981.08
Minnesota.....	12,188,994.23	12,989,819.62	7,705,883.03	9,113,912.81	19,894,877.26	22,103,731.83
Mississippi.....	1,057,013.83	977,477.13	812,831.76	584,306.37	1,869,845.59	1,561,783.50
First Missouri.....	18,291,509.31	17,968,571.13	9,787,984.75	10,732,292.15	28,079,584.06	28,700,503.28
Sixth Missouri.....	6,342,925.37	5,429,936.58	3,717,401.10	3,739,545.28	10,060,327.47	9,169,481.86
Total, State of Missouri.....	24,634,525.68	23,398,507.71	13,505,385.85	14,471,777.43	38,139,911.53	37,869,985.14
Montana.....	1,281,587.22	919,301.44	1,013,278.56	1,069,154.97	2,294,865.78	2,018,456.41
Nebraska.....	2,731,494.96	2,349,379.58	1,764,750.36	1,766,344.14	4,436,245.32	4,115,723.72
Nevada.....	487,100.94	641,614.38	257,022.89	333,325.90	744,183.83	974,940.28
New Hampshire.....	984,303.19	1,040,938.33	1,520,437.35	1,470,984.74	2,504,740.54	2,491,923.07
First New Jersey.....	7,272,789.81	4,179,883.33	8,048,283.39	8,468,894.20	15,301,073.20	13,245,777.62
Fifth New Jersey.....	27,884,243.40	27,839,187.67	26,650,293.48	29,394,552.46	54,534,536.88	57,233,740.13
Total, State of New Jersey.....	35,137,033.21	32,619,071.00	34,698,576.87	37,863,446.75	69,835,610.08	70,482,517.75
New Mexico.....	367,415.30	365,915.69	310,879.71	324,871.90	678,295.01	690,786.99
First New York.....	12,517,268.23	11,290,764.48	22,149,905.12	24,338,856.43	34,667,173.35	35,629,620.91
Second New York.....	138,785,186.79	163,989,688.68	143,855,265.57	190,171,647.02	282,640,452.36	354,161,335.60
Third New York.....	65,974,926.48	76,769,776.45	70,954,939.59	81,716,321.24	137,692,876.07	158,486,097.69
Fourth New York.....	13,818,657.09	14,328,873.30	16,590,020.63	18,678,919.95	30,408,677.72	33,007,763.25
Twenty-first New York.....	5,523,391.43	5,350,327.86	4,875,500.44	5,606,648.42	10,398,891.87	10,556,976.28
Twenty-eighth New York.....	15,657,626.39	15,901,700.54	13,294,817.09	14,246,049.21	28,952,644.48	30,147,749.75
Total, State of New York.....	252,277,366.41	287,631,131.21	271,720,349.44	334,758,442.27	523,997,715.85	622,389,873.48
North Carolina.....	10,760,894.50	8,760,599.29	4,174,786.46	4,205,272.15	14,935,686.96	12,965,871.44
North Dakota.....	347,959.72	273,162.23	186,176.76	152,581.22	534,136.48	425,743.45
First Ohio.....	14,880,467.27	13,270,068.40	10,406,747.32	12,673,179.23	25,287,214.59	25,943,247.63
Tenth Ohio.....	6,715,758.96	7,759,587.37	3,653,435.74	4,798,624.47	10,369,194.70	12,558,211.84
Eleventh Ohio.....	4,556,269.43	4,027,711.09	2,209,067.84	2,464,466.70	6,765,337.27	6,492,177.79
Eighteenth Ohio.....	27,354,444.83	31,851,982.37	17,341,555.29	17,320,989.54	44,696,000.12	49,172,971.91
Total, State of Ohio.....	53,506,940.49	56,909,349.23	33,610,806.19	37,257,259.94	87,117,746.68	94,166,009.17
Oklahoma.....	7,114,352.25	7,814,852.38	5,948,842.70	5,403,986.60	13,063,194.95	13,218,838.98
Oregon.....	2,421,441.97	2,386,641.87	1,798,470.94	1,748,274.92	4,219,912.91	4,134,916.79
First Pennsylvania.....	49,288,000.34	48,030,543.73	41,509,799.25	42,176,000.51	90,799,799.59	90,196,544.24
Twelfth Pennsylvania.....	7,383,715.45	7,055,543.17	5,272,180.32	4,829,534.06	12,605,895.77	11,885,077.23
Twenty-third Pennsylvania.....	29,410,898.83	30,375,780.73	23,043,078.77	26,464,487.80	52,455,766.60	56,840,268.57
Total, State of Pennsylvania.....	86,032,614.62	85,451,867.63	69,825,058.34	73,470,022.41	155,857,672.96	158,921,890.04
Rhode Island.....	4,705,973.20	4,369,164.39	5,225,349.19	5,965,972.18	9,931,322.39	10,335,136.57
South Carolina.....	2,174,675.77	1,594,963.45	566,168.94	582,245.06	2,740,844.71	2,177,208.51
South Dakota.....	370,054.53	355,253.24	237,983.34	262,385.67	608,037.87	617,638.91
Tennessee.....	6,181,700.86	5,555,001.28	4,012,884.97	4,091,463.46	10,194,585.83	9,647,064.74
First Texas.....	8,987,028.95	9,095,647.67	6,736,008.34	6,425,823.79	15,723,037.29	15,521,471.46
Second Texas.....	6,509,346.00	6,743,045.07	6,334,975.92	5,780,488.01	12,844,321.92	12,523,533.08
Total, State of Texas.....	15,496,374.95	15,838,692.74	13,070,984.26	12,206,311.80	28,567,359.21	28,045,004.54
Utah.....	1,822,887.65	1,642,359.34	792,980.23	784,598.74	2,615,867.88	2,426,958.08
Vermont.....	894,151.11	795,997.63	875,389.57	864,001.02	1,769,540.68	1,659,998.65
Virginia.....	12,110,962.22	10,671,874.97	3,304,521.51	3,408,577.26	15,415,483.73	14,080,152.23
Washington, including Alaska.....	6,871,708.14	6,450,500.54	3,190,816.20	3,757,732.93	10,062,524.34	10,208,293.47
West Virginia.....	6,114,935.75	4,702,966.81	2,209,356.71	2,551,990.45	8,324,292.46	7,154,957.26
Wisconsin.....	18,455,669.76	16,863,794.62	9,727,040.75	9,189,443.60	28,183,040.51	26,053,238.52
Wyoming.....	465,226.93	353,157.24	383,240.93	225,061.88	848,467.86	578,219.12
Total (9 months).....	925,861,043.67	946,888,504.54	763,304,114.87	865,793,891.62	1,689,165,158.54	1,812,682,396.16

SUMMARY OF INCOME TAX COLLECTIONS

QUARTER	FISCAL YEAR 1929			FISCAL YEAR 1930 (9 months)		
	Corporation	Individual	Total	Corporation	Individual	Total
July 1-Sept. 30.....	\$297,010,455.50	\$213,996,617.34	\$511,007,072.84	\$316,730,969.06	\$292,735,048.79	\$609,466,017.85
Oct. 1-Dec. 31.....	299,113,180.07	202,951,344.65	502,064,524.72	308,332,844.92	266,804,055.02	575,136,900.94
Jan. 1-Mar. 31.....	329,737,408.10	346,356,152.88	676,093,560.98	321,824,690.56	306,254,777.81	628,079,468.37
Apr. 1-June 30.....	309,872,212.57	332,237,057.53	642,109,270.10			
Total (12 months).....	1,235,733,256.24	1,095,541,172.40	2,331,274,428.64	946,888,504.54	865,793,891.62	1,812,682,396.16

¹ Compiled by the U. S. Treasury Department, Bureau of Internal Revenue, and represent actual collections of income taxes from corporations and individuals covering the years indicated. The taxes for the most part relate to incomes in the year previous to that of the year of collection.

PROSPECTIVE CARLOADINGS, SECOND QUARTER OF 1930

Loadings of commodities by railroads in carload lots for the second quarter of 1930 are estimated by the regional advisory boards set up by the American Railway Association at somewhat more than 4 per cent below the corresponding loadings in the second quarter of 1929. These estimates are compiled from detailed reports obtained from shippers, as first described in the August, 1927, issue of the "Survey of Current Business," page 20, and are comparable to similar data published quarterly since that time. The various economic districts set up by these boards are shown in the accompanying map.

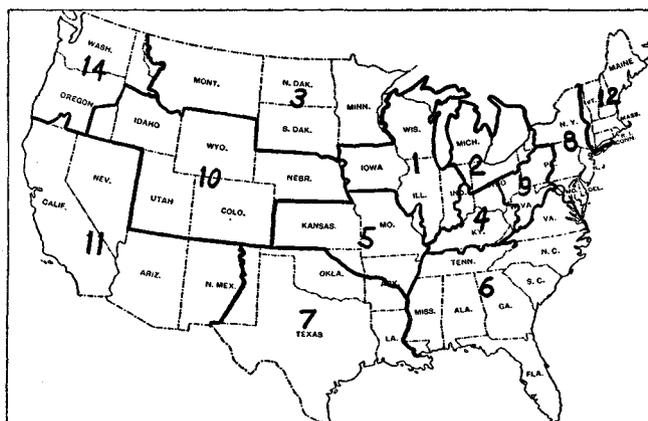
The estimated decline from a year ago in total loadings is largely due to the decrease in the loadings of coal and coke, grain, livestock, lumber and forest products, and iron and steel, these groups making up more than one-half of the total. Large decreases are also estimated in loadings of citrus fruits, potatoes, ore and concentrates, machinery and boilers, and automobiles, trucks and parts, each of these groups showing prospective declines of 5 per cent or more. Numbered among the principal increases are cotton, fresh fruits, other than citrus, poultry and dairy products, cement, agricultural implements and vehicles, and fertilizers.

Declines for all districts are estimated except the Allegheny district. This anticipated increase is due to larger loadings in coal and coke, gravel, sand and stone, lumber and its products, petroleum, cement, agricultural implements, and automobiles.

Although declines were estimated for the country as a whole for the second quarter of this year in compar-

ison with a year ago, material gains were estimated over the loadings for the first quarter of 1930. These gains occurred in the anticipated loadings of lumber and its products, petroleum, iron and steel, machinery and boilers, cement, brick and clay products, lime and plaster, agricultural implements and vehicles, automobiles, fertilizers, and paper, paper board and prepared roofing.

The general prospective gains over the first quarter of this year in total loadings were indicated in the New England, Atlantic, Allegheny, Great Lakes, Southeast, Southwest, Northwest, trans-Missouri-Kansas, Pacific coast and Pacific Northwest districts, while decreased anticipated loadings occurred in the Ohio Valley, Midwest, and Central-Western districts.



PROSPECTIVE CAR LOADINGS, SECOND QUARTER OF 1930 COMPARED WITH ACTUAL LOADINGS, SAME QUARTER OF 1929

[As reported by commodity committees, of the regional shippers' advisory boards, and compiled by The American Railway Association]

Item No.	Commodity Groups	ALL DISTRICTS			District No. 12 NEW ENGLAND			District No. 8 ATLANTIC STATES			District No. 9 ALLEGHENY		
		Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)
1	Grain, all	276,960	259,851	-6.2	4,500	3,600	-20.0	7,343	7,996	+8.9	554	554	-----
2	Flour, meal, and other mill products	241,282	210,571	-0.3	2,727	2,182	-20.0	16,519	17,989	+8.9	1,091	1,091	-----
3	Hay, straw, and alfalfa	60,071	62,311	+3.7	1,144	572	-50.0	10,928	11,901	+8.9	1,217	1,181	-3.0
4	Cotton	34,296	38,345	+11.9	1,835	1,800	-1.9	12	12	-----	-----	-----	-----
5	Cottonseed and products, except oil	15,918	15,851	-0.4	12	12	-----	-----	-----	-----	-----	-----	-----
6	Citrus fruit	46,326	24,951	-46.2	103	103	-----	-----	-----	-----	-----	-----	-----
7	Other fresh fruits	83,740	95,056	+13.6	2,272	2,317	+2.0	13,586	13,589	-----	531	531	-----
8	Potatoes	63,532	58,621	-7.7	8,780	9,219	+5.0	10,804	8,716	-20.0	160	152	-5.0
9	Other fresh vegetables	81,413	82,006	+0.7	307	307	-----	3,529	3,705	+5.0	28	28	-----
10	Livestock	322,919	306,931	-5.0	1,115	892	-20.0	-----	-----	-----	781	781	-----
11	Poultry and dairy products	48,177	49,537	+2.8	88	90	+2.3	1,500	1,500	-----	-----	-----	-----
12	Coal and coke	2,191,711	2,162,318	-1.4	20,907	18,816	-10.0	373,285	345,662	-7.4	532,320	581,935	+9.3
13	Ore and concentrates	753,642	597,760	-20.7	505	505	-----	23,327	23,327	-----	-----	-----	-----
14	Gravel, sand, and stone	798,774	800,758	+0.2	14,915	15,213	+2.0	89,475	90,190	+0.8	55,803	61,048	+9.4
15	Salt	33,359	33,696	+1.0	35	35	-----	10,000	9,389	-6.4	-----	-----	-----
16	Lumber and forest products	1,016,008	958,026	-5.7	26,279	23,651	-10.0	35,603	35,603	-----	19,882	20,379	+2.5
17	Petroleum and petroleum products	604,844	616,287	+1.9	21,034	26,437	+10.0	58,566	63,836	+9.0	27,529	29,373	+6.7
18	Sugar, sirup, and molasses	52,727	51,906	-1.6	2,336	2,336	-----	13,023	13,723	+5.4	-----	-----	-----
19	Iron and steel	600,024	555,442	-7.4	6,460	5,814	-10.0	17,200	77,832	+20.0	273,458	263,340	-3.7
20	Machinery and boilers	68,045	64,487	-5.2	5,391	4,582	-15.0	16,639	13,312	-20.0	7,441	8,721	+17.2
21	Cement	218,000	232,510	+6.7	4,263	5,116	+20.0	61,775	61,775	-----	9,700	12,946	+33.5
22	Brick and clay products	189,435	189,694	+0.1	3,905	4,100	+5.0	14,728	16,200	+10.0	54,032	53,654	-0.7
23	Lime and plaster	65,355	65,101	-0.4	4,004	4,004	-----	13,847	14,248	+2.9	3,554	3,547	-0.2
24	Agricultural implements and vehicles, other than automobiles	40,156	41,731	+3.9	100	100	-----	-----	-----	-----	57	62	+8.8
25	Automobiles, trucks and parts	300,462	248,194	-17.4	2,280	1,938	-15.0	11,363	9,090	-20.0	-----	-----	-----
26	Fertilizers, all kinds	178,259	181,316	+1.7	8,152	8,152	-----	21,216	22,340	+5.3	4,811	4,840	+0.6
27	Paper, paper board, and prepared roofing	110,608	109,568	-0.1	22,067	22,067	-----	23,786	24,356	+2.4	5,116	5,076	-0.8
28	Chemicals and explosives	29,811	29,464	-1.3	809	766	-5.0	8,862	8,950	+1.0	6,902	6,729	-2.5
29	Canned goods ¹	40,465	39,123	-3.3	1,386	1,386	-----	9,272	9,272	-----	1,305	1,323	+1.4
	Total, all commodities listed	8,566,349	8,211,451	-4.2	170,711	166,115	-2.7	952,390	910,504	-4.4	1,006,372	1,057,294	+5.1

¹ All canned food products, including catsups, jams, jellies, olives, pickles, preserves, etc.

PROSPECTIVE CAR LOADINGS, SECOND QUARTER OF 1930—Continued

COMPARED WITH ACTUAL LOADINGS, SAME QUARTER OF 1929

[As reported by commodity committees, regional shippers' advisory boards, and compiled by American Railway Association]

Item No.	COMMODITY GROUPS	Number of cars			Number of cars			Number of cars			Number of cars			Number of cars		
		Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)
		1929	1930		1929	1930		1929	1930		1929	1930		1929	1930	
		District No. 2 GREAT LAKES			District No. 6 SOUTHEAST			District No. 4 OHIO VALLEY			District No. 1 MID-WEST			District No. 3 NORTHWEST		
1	Grain, all.....	24,826	25,000	+0.7	8,102	8,102	-----	12,082	9,062	-25.0	59,428	57,645	-3.0	46,798	43,000	-8.1
2	Flour, meal, and other mill products.....	36,889	38,500	+4.4	20,177	20,177	-----	11,183	10,065	-10.0	28,207	26,800	-5.0	32,064	29,000	-9.6
3	Hay, straw, and alfalfa.....	8,465	68,509	+0.4	2,245	2,245	-----	4,146	4,146	-----	7,741	8,900	+15.0	2,142	2,142	-----
4	Cotton.....	19,479	25,323	+30.0	19,479	25,323	+30.0	652	652	-----	-----	-----	-----	-----	-----	-----
5	Cottonseed and products, except oil.....	9,682	10,408	+7.5	9,682	10,408	+7.5	308	308	-----	-----	-----	-----	-----	-----	-----
6	Citrus fruits.....	-----	-----	-----	18,039	25,000	-72.3	16	16	-----	-----	-----	-----	-----	-----	-----
7	Other fresh fruits.....	478	425	-11.1	38,537	38,537	-----	1,419	1,532	+8.0	1,444	1,250	-24.0	220	220	-----
8	Potatoes.....	2,688	1,400	-47.9	14,974	16,022	+7.0	207	215	+3.9	4,849	4,400	-9.3	6,435	4,000	-37.8
9	Other fresh vegetables.....	478	500	+4.6	25,503	25,503	-----	281	281	-----	3,054	2,500	-18.1	174	174	-----
10	Livestock.....	8,790	8,300	-5.6	11,020	10,460	-5.0	10,911	8,184	-25.0	85,929	79,055	-8.0	36,732	36,732	-----
11	Poultry and dairy products.....	-----	-----	-----	1,806	1,896	+5.0	1,712	1,712	-----	17,341	17,861	+3.0	7,747	7,747	-----
12	Coal and coke.....	15,875	14,000	-11.8	102,746	92,472	-10.0	604,603	586,465	-3.0	416,000	400,000	-3.8	19,200	19,200	-----
13	Ore and concentrates.....	194,985	157,000	-19.5	14,834	14,834	-----	774	774	-----	85,213	42,606	-50.0	351,500	281,000	-20.1
14	Gravel, sand, and stone.....	95,972	97,000	+1.1	98,259	108,085	+10.0	70,631	63,028	-10.0	159,916	144,000	-10.0	15,732	16,000	+1.7
15	Salt.....	9,583	10,079	+5.2	161	161	-----	330	330	-----	302	300	-----	-----	-----	-----
16	Lumber and forest products.....	11,284	10,000	-11.4	327,416	326,107	-0.4	30,327	30,024	-1.0	92,013	92,013	-----	24,643	20,625	-16.3
17	Petroleum and petroleum products.....	19,385	19,500	+0.6	60,696	63,731	+5.0	13,050	13,702	+5.0	47,195	49,555	+5.0	4,382	4,500	+2.7
18	Sugar, sirup, and molasses.....	1,476	1,200	-18.7	11,485	11,485	-----	187	187	-----	5,331	4,900	-8.1	783	875	+11.7
19	Iron and steel.....	62,876	56,500	-10.1	29,584	30,767	+4.0	29,907	26,917	-10.0	76,902	73,057	-5.0	4,240	3,100	-26.9
20	Machinery and boilers.....	15,163	14,800	-2.4	2,726	2,290	-16.0	5,672	5,672	-----	9,985	9,985	-----	1,251	1,251	-----
21	Cement.....	14,322	14,500	+1.2	18,832	19,209	+2.0	14,579	15,745	+8.0	30,406	34,100	+12.1	5,888	6,650	+12.9
22	Brick and clay products.....	11,480	11,500	+0.2	24,703	24,703	-----	15,355	16,429	+7.0	34,034	34,034	-----	3,634	3,089	-15.0
23	Lime and plaster.....	16,329	16,500	+1.0	6,946	6,946	-----	2,460	2,460	-----	7,697	6,989	-9.2	558	558	-----
24	Agricultural implements and vehicles, other than automobiles.....	4,895	5,000	+2.1	768	768	-----	1,203	1,203	-----	24,834	25,827	+4.0	3,754	4,109	+9.5
25	Automobiles, trucks, and parts.....	190,967	153,649	-19.5	7,821	7,821	-----	16,089	13,837	-14.0	34,920	26,000	-25.5	3,496	3,000	-14.2
26	Fertilizers, all kinds.....	7,290	7,300	+0.1	163,636	165,709	+2.0	12,610	12,610	-----	8,915	9,800	+9.9	807	767	-5.0
27	Paper, paper board, and prepared roofing.....	12,738	12,500	-1.9	7,371	7,813	+6.0	9,964	9,466	-5.0	18,578	16,720	-10.0	3,400	3,310	-2.6
28	Chemicals and explosives.....	-----	-----	-----	3,500	3,500	-----	891	891	-----	4,388	3,730	-15.0	76	76	-----
29	Canned goods ¹	3,303	3,500	+6.0	1,682	1,850	+10.0	2,414	2,414	-----	10,450	9,400	-10.0	723	700	-3.2
	Total, all commodities listed.....	770,537	687,153	-10.8	992,730	991,933	-0.1	873,363	838,327	-4.0	1,275,272	1,181,427	-7.4	576,382	491,828	-14.7

Item No.	COMMODITY GROUPS	District No. 5 TRANS-MISSOURI-KANSAS			District No. 7 SOUTHWEST			District No. 10 CENTRAL-WESTERN			District No. 11 PACIFIC COAST			District No. 14 PACIFIC NORTHWEST		
		Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)	Actual		Per cent inc. (+) or dec. (-)
		1929	1930		1929	1930		1929	1930		1929	1930		1929	1930	
1	Grain, all.....	45,083	42,000	-6.8	22,660	21,527	-5.0	34,484	29,500	-14.5	5,011	6,065	+21.0	6,119	5,800	-5.2
2	Flour, meal, and other mill products.....	47,641	46,700	-2.0	19,635	21,598	+10.0	11,608	11,600	-----	7,387	8,924	+20.8	6,154	5,950	-3.3
3	Hay, straw, and alfalfa.....	8,226	9,300	+13.1	3,278	3,278	-----	2,523	2,650	+5.0	6,391	6,391	-----	1,624	1,105	-32.0
4	Cotton.....	-----	-----	-----	11,534	9,804	-15.0	-----	-----	-----	766	766	-----	-----	-----	-----
5	Cottonseed and products, except oil.....	-----	-----	-----	5,290	4,497	-15.0	-----	-----	-----	626	626	-----	-----	-----	-----
6	Citrus fruits.....	-----	-----	-----	368	332	-10.0	-----	-----	-----	27,800	19,500	-29.9	-----	-----	-----
7	Other fresh fruits.....	2,247	2,901	+29.1	3,896	3,507	-10.0	191	200	+4.7	16,088	26,000	+61.6	2,628	4,084	+55.4
8	Potatoes.....	788	709	-10.0	3,736	3,236	-13.1	7,185	6,800	-5.4	1,015	2,000	+97.0	2,321	1,752	-24.5
9	Other fresh vegetables.....	502	593	+18.1	21,557	21,557	-----	207	207	-----	24,486	25,000	+2.1	1,307	1,651	+26.3
10	Livestock.....	47,041	45,000	-4.3	31,597	31,597	-----	60,333	57,000	-5.5	24,863	24,863	-----	3,807	4,058	+6.6
11	Poultry and dairy products.....	9,560	9,975	+4.3	2,940	3,087	+5.0	3,732	53,900	+4.5	797	785	-1.5	954	984	+3.1
12	Coal and coke.....	29,299	27,983	-4.5	9,748	10,235	+5.0	51,091	50,000	-2.1	6,126	5,800	-5.3	10,411	9,750	-6.3
13	Ore and concentrates.....	8,161	5,315	-34.9	1,919	2,302	+20.0	17,445	16,400	-6.0	42,435	40,907	-3.6	6,544	6,790	+3.8
14	Gravel, sand, and stone.....	58,218	61,130	+5.0	71,418	78,559	+10.0	19,670	20,700	+5.2	45,099	43,205	-4.2	4,266	2,600	-39.1
15	Salt.....	6,832	6,961	+1.9	5,456	5,456	-----	630	985	+56.3	-----	-----	-----	-----	-----	-----
16	Lumber and forest products.....	32,014	27,212	-15.0	89,935	89,935	-----	6,029	4,800	-20.4	74,176	70,000	-5.6	246,407	207,680	-15.7
17	Petroleum and petroleum products.....	57,178	58,321	+2.0	201,429	195,387	-3.0	33,738	31,000	-8.1	41,686	44,187	+6.0	15,976	16,758	+4.9
18	Sugar, sirup, and molasses.....	1,524	1,195	-21.6	6,502	6,827	+5.0	4,450	3,500	-21.3	5,630	5,669	+0.7	-----	-----	-----
19	Iron and steel.....	5,372	4,835	-10.0	4,940	4,940	-----	2,560	2,560	-----	5,448	4,805	-11.8	987	975	-1.2
20	Machinery and boilers.....	1,414	1,451	+2.6	1,219	1,280	+5.0	442	440	-----	-----	-----	-----	699	700	-----
21	Cement.....	23,156	25,416	+9.8	10,092	10,092	-----	6,088	7,000	+15.0	14,584	14,584	-----	4,315	5,374	+24.5
22	Brick and clay products.....	10,888	9,600	-11.8	9,259	9,259	-----	2,128	2,200	+3.4	3,999	3,531	-11.7	1,290	1,395	+8.1
23	Lime and plaster.....	4,704	4,550	-3.3	4,734	4,734	-----	221	240	+8.6	-----	-----	-----	301	325	+8.0
24	Agricultural implements and vehicles, other than automobiles.....	2,867	3,010	+5.0	452	407	-10.0	1,111	1,150	+3.5	-----	-----	-----	115	95	-17.4
25	Automobiles, trucks, and parts.....	20,885	19,910	-4.7	3,467	3,294	-5.0	1,107	1,000	-9.7	6,825	7,480	+9.6	1,242	1,175	-5.4
26	Fertilizers, all kinds.....	-----	-----	-----	10,397	9,358	-10.0	-----	-----	-----	-----	-----	-----	425	440	+3.5
27	Paper, paper board, and prepared roofing.....	-----	-----	-----	2,326	2,442	+5.0	-----	-----	-----	2,314	2,275	-1.7	2,948	3,543	+20.2
28	Chemicals and explosives.....	-----	-----	-----	995	1,045	+5.0	88	88	-----	2,904	3,287	+13.2	4,426	399	-6.3
29	Canned goods ¹	-----	-----	-----	614	614	-----	689	800	+16.1	6,376	5,700	-10.6	2,251	2,164	-3.9
	Total, all commodities listed.....	423,600	414,067	-2.3	560,893	560,186	-0.1	267,750	254,720	-4.9	372,832	372,350	-0.1	323,517	285,547	-11.7

¹ All canned-food products, including catsup, jams, jellies, olives, pickles, preserves, etc.² Government quarantine regulations provide for a host-free period Apr. 15, to Oct. 1 and it is uncertain what volume of shipments will move prior to Apr. 15; 5,000 cars is the best estimate possible for the quarter.

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 of relative numbers, including base periods, see introduction on inside front cover.

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
TEXTILES												
Wool												
Receipts at Boston:												
Total.....thous. of lbs.	12,714	15,272	15,828	12,166	14,986	17,202	23,189	+23.2	-35.4	60,064	42,990	-28.4
Domestic.....thous. of lbs.	8,299	9,344	6,500	5,012	5,628	1,836	5,738	+12.3	-1.9	12,106	17,140	+41.6
Foreign.....thous. of lbs.	4,415	5,928	9,328	7,154	9,358	15,366	17,451	+30.8	-46.4	47,958	25,840	-46.1
Imports:												
In condition imported.....thous. of lbs.	19,510	20,246	26,464	18,498	20,049	33,398	32,743	+8.4	-38.8	102,664	65,011	-36.7
Grease equivalent.....thous. of lbs.	23,021	24,565	29,423	20,221	21,463	37,386	37,682	+6.1	-43.0	113,905	71,107	-37.6
Consumption by textile mills, grease equivalent.....thous. of lbs.												
	46,694	37,802	43,627	38,330	37,195	47,993	47,955	-3.0	-22.4	149,979	119,152	-20.6
Machinery, activity, hourly:												
Looms—												
Wide.....per ct. of hours active	59	54	53	52	46	69	67	-11.5	-31.5			
Narrow.....per ct. of hours active	65	53	50	41	39	59	60	-4.9	-35.0			
Carpet and rug.....per ct. of hours active	65	55	51	51	49	67	69	-3.9	-29.0			
Sets of cards.....per ct. of hours active	74	63	63	65	61	85	86	-6.2	-29.1			
Combs.....per ct. of hours active	82	72	79	86	64	84	82	-25.6	-22.0			
Spinning spindles—												
Woolen.....per ct. of hours active	69	61	62	61	58	82	83	-4.9	-30.1			
Worsted.....per ct. of hours active	65	57	55	59	50	69	68	-15.3	-26.5			
Prices:												
Raw, territory, fine, scoured.....dolls. per lb.	.88	.84	.81	.79	.77	1.09	1.05	-2.5	-26.7			
Raw, Ohio and Pa. fleeces, 1/4 blood, combing, grease.....dolls. per lb.	.43	.41	.38	.36	.33	.55	.52	-8.3	-36.5			
Worsted yarn.....dolls. per lb.	1.43	1.40	1.38	1.35	1.30	1.58	1.58	-3.7	-17.7			
Women's dress goods, French serge, 39 in.....dolls. per yd.	.98	.98	.98	.98	.93	.98	.98	-5.1	-5.1			
Suiting, 13-oz.....dolls. per yd.	1.901	1.901	1.838	1.800	1.756	2.008	2.008	-2.4	-12.5			
Cotton												
Receipts into sight.....thous. of bales												
	2,682	2,105	840	417	466	638	743	+11.8	-37.3	2,507	1,723	-31.3
Imports, unmanufactured.....bales												
	35,502	36,190	51,474	23,643	28,279	39,625	37,124	+19.6	-23.8	131,688	103,396	-21.5
Exports, unmanufactured (excluding linters).....bales												
	1,048,760	910,321	728,737	402,074	477,678	613,394	555,986	+18.8	-14.1	1,957,975	1,608,489	-17.8
Consumption by textile mills.....bales												
	544,150	453,892	577,235	495,204	508,576	594,720	631,669	+2.7	-19.5	1,894,675	1,581,015	-16.6
Stocks, domestic, end of month:												
Total, mills and w'houses.....thous. of bales	7,514	7,759	7,237	6,670	5,952	5,606	4,907	-10.8	+21.3			
Mills.....thous. of bales	1,672	1,844	1,830	1,812	1,763	1,744	1,730	-2.7	+1.9			
Warehouses.....thous. of bales	5,842	5,915	5,407	4,858	4,189	3,862	3,177	-13.8	+31.9			
Stocks, world visible, end of month:												
Total.....thous. of bales	7,453	8,098	8,059	7,854	7,339	7,226	6,749	-6.6	+8.7			
American.....thous. of bales	5,644	5,960	5,576	5,150	4,612	5,043	4,469	-10.4	+3.2			
Machinery activity of spindles:												
Active spindles.....thousands	29,649	29,070	29,198	28,927	28,898	31,009	31,103	-0.1	-7.1			
Total activity.....millions of hours	7,812	6,770	8,173	7,091	7,350	8,223	8,911	+3.7	-17.5			
Activity per spindle.....hours	226	196	236	205	214	233	252	+4.4	-15.1			
Ratio to capacity.....per cent.	100.9	88.2	100.3	97.7	92.8	110.7	109.4	-5.0	-15.2			
Prices:												
To producer.....dolls. per lb.	.162	.160	.158	.148	.138	.180	.188	-6.8	-26.6			
In New York, middling.....dolls. per lb.	.175	.173	.173	.157	.151	.202	.212	-3.8	-28.8			
Cotton Yarn												
Carded sales yarn:												
Production.....thous. of lbs.	22,013	13,364	17,571	13,086		18,718	23,373			37,029	30,657	-17.2
Stocks, end of month.....thous. of lbs.	7,842	9,856	10,773	11,775		8,765	8,328					
Unfilled orders, end of month.....thous. of lbs.	37,785	35,776	35,056	36,165		42,722	43,476					
Prices:												
22/1 cones, Boston.....dolls. per lb.	.346	.340	.323	.310	.297	.372	.377	-4.2	-21.2			
40/1s, southern spinning.....dolls. per lb.	.491	.494	.500	.486	.477	.512	.527	-1.9	-9.5			
Cotton Goods												
Cotton textiles:												
Production.....thous. of yds.	345,146	243,735	323,237	266,849	261,403	292,873	297,994	-2.0	-12.3	933,673	851,539	-8.8
New orders.....thous. of yds.	222,911	302,934	292,034	243,861	292,249	340,709	358,333	+19.8	-18.4	1,016,120	828,144	-18.5
Shipments.....thous. of yds.	276,377	214,148	331,431	274,543	265,675	309,118	325,633	-3.2	-18.4	980,105	871,699	-11.1
Stocks, end of month.....thous. of yds.	431,426	461,013	452,819	445,125	440,853	372,950	345,311	-1.0	+27.7			
Unfilled orders, end of month.....thous. of yds.	342,232	431,018	391,571	360,889	387,463	472,176	504,876	+7.4	-23.3			
Fine cotton goods, production.....pieces	390,501	367,706	420,190	356,334		410,372	464,539			813,672	776,524	-4.6
Cotton cloth:												
Imports.....thous. of sq. yds.	5,080	4,508	4,455	3,505	3,781	4,400	5,362	+7.9	-29.5	15,831	11,741	-25.8
Exports.....thous. of sq. yds.	35,720	34,657	39,153	32,045	36,171	51,492	58,474	+12.9	-38.1	165,152	107,369	-35.0
Fabric for tire manufacture, consumption.....thous. of lbs.												
	10,269	8,677	14,559	13,767		20,327	21,238			40,106	28,326	-29.4
Elastic webbing, shipments.....thous. of dolls.	1,413	1,149	1,444	1,421	1,496	1,572	1,869	+5.3	-20.0	4,853	4,361	-10.1
Prices:												
Print cloth, 64 x 60.....dolls. per yd.	.076	.069	.068	.065	.062	.075	.077	-4.6	-19.5			
Sheeting, brown.....dolls. per yd.	.087	.084	.083	.079	.078	.089	.089	-1.3	-12.4			
Cotton goods (Fairchild) rel. to 1911-1913	159	154	152	150	140	163	164	-6.7	-14.6			

* Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
TEXTILES—Continued												
Cotton Finishing												
White, dyed and printed (outside mills):												
Billings, finished goods.....thous. of yds.	63,663	61,816	63,457	64,271	66,246	81,418	98,495	+3.1	-32.7	261,589	193,974	-25.8
New orders, gray yardage.....thous. of yds.	57,971	54,172	71,723	57,834	60,526	88,460	94,872	+4.7	-36.2	269,634	190,083	-29.5
Shipments, finished goods.....cases	38,616	36,321	41,793	37,014	39,450	54,391	65,112	+6.6	-39.4	172,699	118,266	-31.5
Stocks, finished goods, end of month.....cases	37,694	38,220	35,428	32,967	32,528	37,153	35,473	-1.3	-8.3			
Operating activity.....per ct. of capacity	55	50	57	62	59	74	77	-4.8	-23.4			
Unfilled orders, end of month.....days	3.8	3.6	4.3	4.2	4.2	6.4	6.3	0.0	-33.3			
Printed only (mills and outside):												
Production.....thous. of yds.	64,727	57,548	60,091	60,939	72,634	78,307	92,544	+19.2	-21.5	253,110	193,664	-23.5
Stocks, end of month.....thous. of yds.	84,924	80,825	73,239	72,642	77,763	81,206	79,361	+7.0	-2.0			
Silk												
Imports.....thous. of lbs.	8,227	9,164	7,346	6,644	6,103	7,092	6,476	-8.1	-5.8	22,673	20,093	-11.4
Deliveries (consumption).....bales	50,562	44,159	57,683	49,852	50,863	46,228	49,878	+2.0	+2.0	153,455	158,398	+3.2
Stocks, end of month:												
At warehouses.....bales	76,452	90,772	76,264	68,646	57,773	46,993	45,218	-15.8	+27.8			
At manufacturing plants.....bales	29,726	27,017	29,100	24,591	24,728	25,026	25,892	+0.6	-4.5			
Silk machinery activity:												
Broad looms.....per cent of normal	101.2	98.3	105.6	109.7	111.1	99.8	100.2	+1.3	+10.9			
Narrow looms.....per cent of normal	57.4	54.1	59.6	56.2	57.7	53.6	66.3	+2.7	-13.0			
Spinning spindles.....per cent of normal	66.2	64.5	67.0	69.3	69.2	66.5	66.3	-0.1	+4.4			
Prices:												
Raw, Japanese, 13-15, N. Y. dolls. per lb.	4.679	4.580	4.630	4.433	4.531	5.096	4.998	+2.2	-9.3			
Silk goods, composite.....dolls. per yd.	1.18	1.18	1.17	1.17	1.17	1.18	1.19					
Rayon												
Imports.....thous. of lbs.	1,083	1,162	1,159	954	928	1,267	1,901	-2.7	-51.2	4,875	3,041	-37.6
Stocks, bonded, end of month.....thous. of lbs.	2,536	3,082	3,087	3,061		2,889	2,863					
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			
Clothing												
Men's and boys' garments cut:												
Suits.....thous. of garments	1,935	2,091	2,522	2,336		2,963	2,932			4,511	4,858	-16.4
Separate trousers.....thous. of garments	2,025	1,810	2,293	2,179		2,443	2,669			4,975	4,472	-10.1
Overcoats.....thous. of garments	501	290	307	335		463	475			898	642	-28.5
Overalls:												
Cut.....thous. of dozen garments	329	246	319	321		340	377			673	640	-4.9
Net shipments.....thous. of dozen garments	271	226	289	304		307	352			587	593	+1.0
Unfilled orders, end of mo.....thous. of dozen garments	120	112	147	117		212	194					
Hosiery:												
Production.....thous. of dozen pairs	3,770	3,054	3,398	3,182		3,206	3,753			6,817	6,580	+3.5
Net shipments.....thous. of dozen pairs	4,047	3,663	2,703	2,709		3,076	3,722			6,317	5,412	-14.3
Stocks, end of month.....thous. of dozen pairs	7,628	7,648	7,940	8,788		6,970	8,215					
New orders.....thous. of dozen pairs	3,747	2,848	2,607	2,587		2,928	3,789			6,273	5,194	-17.2
Unfilled orders, end of month.....thous. of dozen pairs	3,736	3,327	3,020	2,842		4,191	4,269					
Knit underwear:												
Production.....thous. of dozen garments	1,227	1,020	1,109	1,121		1,077	1,251			2,126	2,230	+4.9
Net shipments.....thous. of dozen garments	1,219	991	944	977		995	1,166			1,943	1,921	-1.1
Stocks, end of month.....thous. of dozen garments	1,258	1,245	1,436	1,549		1,310	1,368					
New orders.....thous. of dozen garments	1,150	893	1,199	1,034		1,356	1,330			2,803	2,233	-20.3
Unfilled orders, end of month.....thous. of dozen garments	1,513	1,383	1,632	1,677		2,358	2,501					
Burlaps and Fibers												
Imports:												
Burlaps.....thous. of lbs.	41,952	45,738	73,088	71,053	52,854	61,735	52,550	-25.6	+0.6	171,394	197,005	+14.9
Fibers (unmanufactured).....long tons	30,554	24,950	30,262	23,640	33,312	43,524	26,655	+40.9	+25.0	104,288	87,214	-16.4
Pyroxylin-coated Textiles												
Pyroxylin spread.....thous. of lbs.	2,783	2,469	3,068	3,093	2,580	6,073	6,629	-16.6	-61.1	18,091	8,771	-51.5
Shipments filled.....thous. of linear yards	2,516	2,050	2,786	2,768	3,111	4,603	5,658	+14.9	-44.8	14,544	8,605	-40.8
Unfilled orders, end mo.....thous. of linear yards	2,045	1,717	2,373	2,401	2,332	4,099	4,302	-3.0	-45.8			
Cotton Mill Dividends (Quarterly)												
Fall River mills.....thous. of dollars		3,158			3,348		3,235	+75.8	+48.1			
Fur												
Sales by dealers.....thous. of dollars	4,163	2,262	2,968	7,667	8,327	14,157	21,228	+8.6	-60.8	45,573	18,962	-58.8
Buttons												
Fresh-water pearl buttons:												
Production.....ratio to capacity	48.4	48.7	42.5	49.3	48.3	52.9	52.9	-2.0	-8.7			
Stocks, end of month.....thous. of gross	10,635	10,694	9,700	9,698	9,838	11,249	11,034	+1.4	-10.8			
Imports:												
Buttons—												
Product of Philippines.....thous. of gross	59	61	64	71	63	70	46	-11.3	+37.0	146	198	+35.6
All other.....thous. of gross	6	17	261	5	5	160	4	0.0	+25.0	200	271	+35.5
Shells—												
Mother of pearl.....thous. of pounds	1,355	1,225	866	443	531	691	526	+19.9	+1.0	1,548	1,840	+18.9
All other.....thous. of pounds	7,042	124	32	516	69	240	35	-86.6	+97.1	558	617	+10.6
Taqua nuts.....thous. of pounds	2,013	1,667	1,149	477	1,186	2,383	1,921	+148.6	-38.3	7,388	2,812	-61.9

2 Revised.

3 Quarter ending in month indicated.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
IRON AND STEEL												
Iron												
Manganese ore, imports...thous. of long tons..	24	15	38	22	30	21	18	+36.4	+66.7	54	90	+66.7
Iron ore:												
Imports.....thous. of long tons..	269	286	293	203	301	241	244	+48.3	+23.4	665	797	+19.8
Consumption.....thous. of long tons..	4,701	4,076	4,101	4,062	4,628	4,819	5,465	+13.9	-15.3	15,479	12,791	-17.4
Stocks, end of month—												
Total.....thous. of long tons..	41,500	37,646	33,528	29,475	24,877	25,414	20,065	-15.6	+24.4			
At furnaces.....thous. of long tons..	35,010	31,503	27,674	23,939	19,785	20,475	15,782	-17.4	+25.4			
On Lake Erie docks.....thous. of long tons..	6,490	6,143	5,854	5,536	5,092	4,939	4,283	-8.0	+20.6			
Pig-iron production:												
Total, United States.....thous. of long tons..	3,181	2,837	2,827	2,839	3,246	3,206	3,714	+14.3	-12.6	10,363	8,912	-14.0
Merchant furnaces.....thous. of long tons..	683	724	613	555	645	707	755	+16.2	-14.6	2,253	1,813	-19.5
Canada.....thous. of long tons..	87	83	87	71		94	86			182	158	-13.2
Furnaces in blast, end of month:												
Furnaces.....number..	177	157	172	179	185	207	212	+3.4	-12.7			
Capacity.....long tons per day..	98,450	88,250	96,370	102,250	106,080	115,770	120,740	+3.7	-12.1			
Ohio gray-iron foundries:												
Meltings—												
Actual.....long tons..	17,196	13,782	15,419	16,012		23,037	20,662			42,747	31,431	-26.5
Normal.....long tons..	19,105	18,726	18,693	17,751		22,288	18,985			41,205	36,444	-11.6
Ratio to normal.....per cent of normal..	90.0	73.5	82.4	90.2		103.3	108.8					
Stocks, end of month.....per cent of normal..	109	118	129	145		121	133					
Receipts.....per cent of normal..	84	73	88	101		107	107					
Malleable castings:												
Production.....short tons..	46,459	46,029	46,381	45,938	43,449	73,875	83,365	-3.8	-23.9	230,365	190,768	-17.2
Operating activity.....per ct. of capacity..	47.7	47.3	46.6	46.2	44.9	77.1	87.7	-3.4	-26.0			
Shipments.....short tons..	46,487	47,689	47,820	47,954	44,908	71,093	81,063	+8.3	-19.9	229,387	182,682	-20.4
New orders.....short tons..	40,145	43,475	43,009	41,668	41,374	77,976	86,744	-0.5	-29.2	241,507	181,051	-25.0
Wholesale prices:												
Foundry, No. 2,												
northern.....dolls. per long ton..	20.26	20.26	20.26	20.26	20.26	19.26	19.51	0.0	+3.8			
Basic (valley furnace).....dolls. per long ton..	18.50	18.50	18.50	18.50	18.50	17.50	17.50	0.0	+5.7			
Composite pig iron.....dolls. per long ton..	19.10	19.10	19.08	18.99	18.77	19.07	19.11	-1.2	-1.8			
Cast-Iron Boilers and Radiators												
Round boilers:												
Production.....thous. of lbs..	11,430	8,972	10,356	10,659	9,858	12,488	12,248	-7.5	-19.5	35,984	30,873	-14.2
Shipments.....thous. of lbs..	12,162	10,453	7,304	5,516	4,935	7,676	7,208	-10.5	-31.5	24,489	17,755	-27.5
New orders.....thous. of lbs..	10,652	9,184	6,396	5,158	4,805	7,071	6,151	-6.8	-21.9	21,446	16,329	-23.9
Stocks, end of month.....thous. of lbs..	66,476	65,855	67,836	73,404	78,787	80,880	86,526	+7.3	-8.9			
Square boilers:												
Production.....thous. of lbs..	23,521	17,398	20,033	21,355	21,008	31,631	28,429	-1.6	-26.1	92,998	62,396	-32.9
Shipments.....thous. of lbs..	24,382	20,010	13,836	10,191	8,854	14,269	11,476	-13.1	-22.8	43,633	32,881	-24.6
New orders.....thous. of lbs..	23,109	17,972	13,345	10,415	10,163	13,111	11,844	+2.4	-14.2	40,821	33,923	-16.9
Stocks, end of month.....thous. of lbs..	134,117	126,800	132,837	143,638	155,335	153,759	170,212	+8.1	-8.7			
Radiators:												
Production.....thous. sq. ft. heating surface..	8,634	6,821	9,253	9,222	8,518	14,354	13,182	-7.6	-35.4	42,048	26,993	-35.8
Shipments.....thous. sq. ft. heating surface..	12,561	9,905	6,047	4,433	3,912	7,316	6,116	-11.8	-36.0	22,839	14,392	-37.0
New orders.....thous. sq. ft. heating surface..	12,648	8,681	6,276	4,845	5,085	7,315	6,062	+5.0	-16.1	22,375	16,206	-27.6
Stocks, end of month.....thous. sq. ft. heating surface..	49,500	46,371	49,717	54,589	59,064	59,721	66,903	+8.2	-11.7			
Gas-fired boilers:												
Shipments.....dollars..	273,092	188,073	118,418	111,401	175,912	129,966	239,879	+57.9	-26.7	484,945	405,731	-16.3
Shipments.....thous. B. t. u..	241,285	164,635	100,030	91,644	151,380	100,888	171,048	+65.2	-11.5	300,399	343,054	-4.8
Production.....thous. B. t. u..	187,095	87,949	215,939	188,190	182,837	186,770	177,375	-2.8	+3.1	566,220	586,966	+3.7
Stocks, end of month.....thous. B. t. u..	764,098	702,144	845,210	917,929	856,070	706,569	825,707	-6.7	+3.7			
Crude Steel												
Steel ingots, production:												
United States, total.....thous. of long tons..	3,513	2,866	3,786	4,068	4,289	4,326	5,058	+5.4	-15.2	13,874	12,143	-12.5
Ratio to capacity.....per cent..	69	59	72	86	84	92	99	-2.3	-15.2			
Canada.....thous. of long tons..	94	82	115	107		117	137			233	222	-4.7
U. S. Steel Corporation:												
Unfilled orders, end of month.....thous. of long tons..	4,125	4,417	4,469	4,480	4,571	4,144	4,411	+2.0	+3.6			
Steel castings:												
Production—												
Total.....short tons..	210,297	210,569	210,266	210,897	113,915	97,568	115,163	+5.6	-1.1	306,144	331,108	+8.2
Ratio to capacity.....per cent..	76	73	76	75	79	67	79	+5.3	0.0			
Railroad specialties.....short tons..	49,994	34,667	48,292	44,652	47,807	40,282	49,562	+7.1	-3.5	125,533	140,751	+12.1
Miscellaneous.....short tons..	60,303	71,902	61,004	63,245	66,108	57,286	65,601	+4.5	+0.8	180,611	150,357	+5.4
New orders—												
Total.....short tons..	297,888	290,287	210,728	211,727	122,844	115,639	130,836	+7.1	-6.1	370,788	339,299	-8.5
Ratio to capacity.....per cent..	67	62	70	80	85	79	90	+6.3	-5.6			
Railroad specialties.....short tons..	41,361	33,980	42,502	55,310	54,058	58,903	60,743	-2.3	-11.0	184,455	151,870	-17.7
Miscellaneous.....short tons..	56,527	56,307	59,226	59,417	68,786	56,736	70,093	+15.8	-1.9	186,333	187,429	+0.6
Sheets, black, blue, galvanized, and full finished:												
Production—												
Total.....net tons..	204,071	181,916	291,529	275,952	259,658	326,468	364,202	-5.9	-28.7	1,082,074	827,139	-23.6
Ratio to capacity.....per cent..	65.8	60.0	77.6	83.9	73.7	109.7	115.2	-12.2	-36.0			
Stocks, end of month—												
Total.....net tons..	178,736	173,619	191,532	201,609	192,317	188,441	189,050	-4.6	+1.7			
Unsold.....net tons..	71,680	72,611	73,948	75,771	75,847	61,058	63,397	+0.1	+19.6			
Shipments.....net tons..	207,200	178,575	241,677	241,441	275,235	325,848	363,648	+14.0	-24.3	1,051,725	758,353	-27.9
New orders.....net tons..	134,391	234,589	382,122	203,315	299,764	389,496	464,297	+47.4	-35.4	1,292,183	885,201	-31.5
Unfilled orders, end of month.....net tons..	395,656	443,127	558,412	517,215	524,230	706,995	791,615	+1.4	-33.8			
Wholesale prices:												
Steel billets, Bessemer.....dolls. per long ton..	35.00	34.60	34.00	33.00	33.00	33.25	34.00	0.0	-2.9			
Iron and steel comp.....dolls. per long ton..	36.04	35.95	35.64	35.24	35.01	36.25	36.37	-0.7	-3.7			
Structural steel beams.....dolls. per 100 lbs..	1.90	1.90	1.90	1.80	1.80	1.90	1.90	0.0	-5.3			
Composite finished steel.....dolls. per 100 lbs..	2.70	2.70	2.46	2.43	2.43	2.55	2.55	0.0	-4.7			

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	IRON AND STEEL—Continued											
Fabricated Steel Products												
Steel barrels:												
Production.....barrels..	572,621	624,365	582,407	604,709	749,907	567,398	742,165	+24.0	+1.0	1,868,055	1,937,023	+3.7
Ratio to capacity.....per cent..	50.8	54.7	48.7	46.7	56.0	47.6	61.0	+19.9	-8.2			
Shipments.....barrels..	567,257	618,003	574,763	599,324	764,172	563,532	743,407	+27.5	+2.8	1,855,520	1,938,259	+4.5
Stocks, end of month.....barrels..	61,576	66,883	74,527	79,912	65,647	60,242	59,000	-17.9	+11.3			
Unfilled orders, end of month.....barrels..	993,601 ²	1,340,028	1,409,566 ²	1,592,982	1,807,913	1,543,846	1,470,268	+13.5	+23.0			
Track work, production.....short tons..	11,326	10,826	11,830	12,524	13,096	12,180	14,927	+4.6	-12.3	37,451	37,450	0.0
Iron, steel, and heavy hardware sales.....rel. to Jan., 1921..	207	169	160	149	177	175	217	+18.8	-14.4			
Lock washers, shipments.....thous. of dolls..	159	175	287	295	315	317	353	+6.8	-10.8	960	897	-6.6
Steel plate, fabricated, new orders:												
Total.....short tons..	42,295	23,535	50,076	28,332	35,985	58,684	57,628	+27.0	-37.6	149,117	114,393	-23.3
Ratio to capacity.....per cent..	53	30	64	36	46	74	72	+27.8	-36.1			
Oil-storage tanks.....short tons..	9,033	3,669	7,432	7,865	5,575	16,093	21,951	-29.1	-74.6	49,099	20,872	-57.5
Steel bars, cold finished, shipments.....short tons..	27,648	23,705	35,845	37,745	36,487	52,934	62,179	-3.3	-41.3	165,389	110,077	-33.4
Steel boilers, new orders:												
Quantity.....number..	1,239	1,029	942	881	972	1,042	1,466	+10.3	-33.7	3,583	2,795	-22.0
Area.....thous. of sq. ft..	1,160	889	1,082	960	1,262	1,196	1,558	+31.5	-19.0	4,006	3,304	-17.5
Iron and steel:												
Exports.....long tons..	241,829	215,242	225,090	197,426	238,333	259,711	270,925	+20.7	-12.0	804,932	660,849	-17.9
Imports.....long tons..	44,045	39,022	34,710	35,830	49,284	45,333	39,888	+37.5	+23.6	130,794	119,824	-8.4
Machinery												
Water softening apparatus, shipments.....units..	1,068	831	1,240	1,141	1,391	1,506	1,510	+21.9	-7.9	4,096	3,772	-7.9
Water systems, shipments.....units..	8,758	7,237	8,307	7,881	8,930	6,450	9,322	+13.3	-4.2	23,707	25,118	+6.0
Pumps:												
Domestic shipments—												
Pitcher, hand, etc.....units..	35,062	37,849	44,389	49,127	42,938	48,135	48,081	-12.6	-10.7	146,939	136,454	-7.1
Power, horizontal type.....units..	1,786	1,601	1,449	1,965	2,560	2,085	1,988	+30.3	+28.8	6,338	5,974	-5.7
Steam, power, and centrifugal—												
New orders.....thous. of dolls..	1,533	1,580	1,437	1,362	1,465	1,432	1,878	+7.6	-22.0	5,005	4,264	-14.8
Shipments.....thous. of dolls..	1,535	1,763	1,330	1,410	1,483	1,575	1,608	+5.2	-7.8	4,567	4,223	-7.5
Unfilled orders, end mo.....thous. of dolls..	3,975	3,787	3,842	3,794	3,825	3,659	3,912	+0.8	-2.2			
Foundry equipment:												
New orders.....rel. to 1922-24..	128.6	208.0	160.1	196.4	164.1	197.0	209.4	-16.4	-21.6			
Shipments.....rel. to 1922-24..	152.2	201.9	223.6	169.6	194.5	214.8	197.5	+14.7	-1.5			
Unfilled orders, end mo.....rel. to 1922-24..	445.4	473.2	395.6	424.7	411.1	321.2	414.4	-3.2	-0.8			
Stokers, mechanical, sales:												
Quantity.....number..	107	79	53	73	85	80	117	+16.4	-27.4	294	211	-28.2
Power.....horsepower..	39,469	44,976	13,198	22,648	27,951	31,554	42,432	+23.4	-34.1	116,378	63,797	-45.2
Machine tools:												
New orders.....rel. to 1922-24..	179	166	182	170	181	336	334	+6.5	-45.8			
Shipments.....rel. to 1922-24..	251	243	183	214	227	303	329	+6.1	-31.0			
Unfilled orders, end of mo.....rel. to 1922-24..	629	561	565	541	454	702	687	-16.1	-33.9			
Electric hoists:												
New orders—												
Quantity.....number..	412	392	369	387	402	750	595	+3.9	-32.4	1,878	1,158	-38.3
Value.....dollars..	214,661	227,897	194,832	184,502	200,167	346,810	285,465	+8.5	-29.9	885,469	579,501	-34.6
Shipments.....dollars..	224,647	198,500	220,678	222,107	232,968	201,404	247,348	+4.9	-5.8	662,415	675,753	+2.0
Electric overhead cranes:												
Shipments.....thous. of dolls..	1,162	1,380	977	773	1,059	586	773	+37.0	+37.0	2,211	2,809	+27.0
New orders.....thous. of dolls..	1,405	734	406	832	851	1,173	1,919	+2.3	-15.7	4,475	2,089	-53.3
Unfilled orders, end mo.....thous. of dolls..	4,933	4,429	3,765	3,836	3,285	3,285	4,300	-8.1	-18.0			
Woodworking machinery:												
New orders.....thous. of dolls..	1,009	1,013	1,111	1,120	950	1,893	1,850	-15.2	-48.6	5,692	3,181	-44.1
Cancellations.....thous. of dolls..	35	20	12	64	46	57	29	-28.1	+58.6	136	122	-10.3
Unfilled orders, end of mo.....thous. of dolls..	1,257	1,208	1,347	1,488	1,101	2,579	2,839	-26.0	-61.2			
Shipments.....thous. of dolls..	1,186	1,074	967	934	1,290	1,490	1,500	+38.1	-17.3	4,470	3,191	-28.6
Shipments.....number of machines..	852	754	759	586	833	1,003	1,179	+55.4	-29.3	3,180	2,128	-33.1
Electric industrial trucks and tractors:												
Shipments, domestic—												
Total.....number of vehicles..	110	124	123	106	109	131	201	+2.8	-45.8	465	338	-27.3
Exports.....number of vehicles..	8	27	17	7	14	3	10	+100.0	+40.0	32	38	+18.8
Fire-extinguishment, shipments:												
Motor vehicles.....number..	134	127	91	82	91	76	107	+11.0	-15.0	273	264	-3.3
Hand types.....number..	36,078	34,330	43,651	47,096	44,168	47,376	55,303	-6.2	-20.1	148,287	134,195	-9.0
Oil burners:												
Shipments, total.....number of burners..	7,213	4,780	3,469	2,954	3,346	3,113	4,137	+13.3	-19.1	10,283	9,769	-5.0
Stocks, end of mo.....number of burners..	6,486	5,938	5,445	6,277	6,557	4,442	4,898	+4.5	+33.9			
New orders.....number of burners..	6,661	3,933	3,481	3,479	3,174	3,201	4,510	-8.8	-29.6	11,219	10,134	-9.7
Unfilled orders, end of mo.....number of burners..	1,766	919	931	1,456	1,284	1,410	1,783	-11.8	-28.0			
Patents issued:												
Total, all classes.....number..	3,519	4,634	3,163	3,592	3,349	3,127	3,357	-6.8	-0.2	10,319	10,104	-2.1
Agricultural implements.....number..	43	49	40	38	56	41	42	+47.4	+33.3	130	134	+3.1
Internal-combustion engines.....number..	40	62	42	57	81	48	50	+42.1	+62.0	149	180	+20.8
NONFERROUS METALS												
Copper												
Production:												
Mines.....short tons..	75,934	74,772	67,838	59,196	61,091	84,735	93,698	+3.2	-34.8	264,758	188,125	-28.9
Smelter.....short tons..	94,861	89,789	84,451	74,094	78,514	95,234	107,253	+6.0	-26.8	303,638	237,059	-21.9
Refined (N. and S. America).....short tons..	145,376	138,203	132,374	121,195	127,064	141,385	163,561	+4.8	-22.3	459,418	380,633	-17.1
World production, blister.....short tons..	170,585	165,723	154,252	139,229	146,905	167,090	192,792	+5.5	-23.8	538,665	440,465	-18.2
Domestic shipments, refined.....short tons..	68,979	58,156	69,932	61,879	73,644	98,771	105,860	+19.0	-30.4	304,766	205,455	-32.6
Exports.....short tons..	27,524	28,807	24,808	24,427	20,034	49,896	43,745	-18.0	-54.2	146,164	69,269	-52.6
Stocks (N. and S. America), end of mo.:												
Refined.....short tons..	126,919	171,320	203,404	233,123	256,020	55,213	52,968	+9.8	+383.3			
Blister.....short tons..	258,112	288,406	270,299	264,249	266,561	241,085	242,341	+0.9	+10.0			
Wholesale price, electrolytic.....dolls. per lb..	.1778	.1778	.1778	.1778	.1778	.1773	.2126	0.0	-16.4			

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	NONFERROUS METALS—Continued											
Tin												
Deliveries (consumption).....long tons..	6,595	5,740	5,815	4,940	8,675	6,750	8,175	+75.6	+6.1	23,720	19,430	-18.1
Stocks, end of month:												
World visible supply.....long tons..	25,171	28,140	29,032	33,581	32,972	26,402	26,632	-1.8	+23.8			
United States.....long tons..	2,050	2,820	3,081	3,626	3,566	3,307	2,550	-1.7	+39.8			
Imports.....long tons..	5,818	5,253	7,079	5,460	8,589	7,325	7,435	+57.3	+15.5	24,258	21,128	-12.9
Wholesale price, Straits, N. Y.....dolls. per lb..	.4022	.3979	.3891	.3867	.3687	.4937	.4885	-4.7	-24.5			
Zinc												
Retorts in operations, end of month.....number..	58,083	57,375	58,849	57,289	50,462	67,631	67,519	-11.9	-25.3			
Per cent of total.....per cent..	49.1	47.1	52.8	51.1		56.4	56.3					
Production.....short tons..	47,620	48,590	51,133	44,924	47,573	48,154	55,471	+5.9	-14.2	153,334	143,630	-6.3
Stocks, end of month.....short tons..	63,061	77,262	87,933	90,703	94,033	40,620	37,962	+3.7	+147.7			
Ore, Joplin district:												
Shipments.....short tons..	42,418	39,641	38,031	35,095	51,611	50,848	72,206	+47.1	-28.5	171,831	124,737	-27.4
Stocks, mines, end of month.....short tons..	57,943	47,637	29,313	25,531	21,950	24,535	20,969	-14.0	+4.7			
Price, slab, prime western.....dolls. per lb..	.0624	.0567	.0523	.0518	.0493	.0635	.0646	-4.8	-23.7			
Lead												
Production.....short tons..	59,760	55,025	48,308	51,362	57,625	48,254	59,298	+12.2	-2.8	166,159	157,295	-5.3
Ore shipments:												
Joplin district.....short tons..	8,850	6,434	2,847	3,477	6,770	8,929	13,329	+94.7	-49.2	28,355	13,094	-53.8
Utah.....short tons..	89,545	76,421	87,569	69,489	66,473	71,282	101,763	-4.3	-34.7	244,457	223,531	-8.6
Receipts in U. S. Ore.....short tons..	51,674	53,286	47,862	49,009		50,954	57,197			104,835	96,871	-7.6
Stocks, U. S. and Mexico, end mo.....short tons..	161,671	151,586	149,403	140,845		160,597	158,149					
Price, pig, desilverized, N. Y.....dolls. per lb..	.0629	.0625	.0625	.0624	.0566	.0685	.0745	-9.3	-24.0			
Other Metal Products												
Babbitt metal, consumption:												
Total apparent.....thous. of lbs..	4,522	3,343	4,408	3,427	5,052	5,720	6,466	+47.4	-21.9	18,279	12,887	-29.5
Direct by producers.....thous. of lbs..	1,316	949	1,003	901	1,012	1,025	1,346	+12.3	-24.8	3,588	2,916	-18.7
Sale to consumers.....thous. of lbs..	3,206	2,394	3,405	2,526	4,039	4,696	5,120	+59.9	-21.1	14,692	9,970	-32.1
Copper wire cloth:												
Production.....thous. of sq. ft..	441	437	486	423	421	411	473	-0.5	-11.0	1,345	1,330	-1.1
Shipments.....thous. of sq. ft..	367	377	437	351	395	305	439	+12.5	-10.0	1,156	1,183	+2.3
Stocks, end of month.....thous. of sq. ft..	973	1,021	1,051	1,099	1,108	1,077	1,085	+0.8	+2.1			
New orders.....thous. of sq. ft..	504	336	435	423	342	410	1,172	-19.1	-70.8	1,958	1,200	-38.7
Unfilled orders, end of mo.....thous. of sq. ft..	302	402	246	303	243	325	789	-19.8	-69.2			
Make and hold orders, end of month.....thous. of sq. ft..	570	546	485	561	564	494	743	+0.5	-24.1			
Pails and tubs, galvanized:												
Production.....dozens..	102,400	112,962	145,588	119,739		151,019	211,252			430,125	426,327	-12.2
Shipments.....dozens..	90,084	107,733	154,731	129,853		170,813	211,516			436,558	428,584	-15.4
Other galvanized ware—												
Production.....dozens..	32,951	33,114	33,982	35,121		60,471	50,055			101,120	69,103	-31.7
Shipments.....dozens..	30,123	25,441	29,165	31,536		43,329	49,549			80,225	60,701	-24.3
Enameled sheet-metal ware:												
Shipments.....dozen pieces..	305,714	391,523	332,146	331,915		390,577	449,425			818,448	664,061	-18.9
Electrical Equipment												
Electrical mfrs., new orders (quarterly).....thous. of dolls..		328,696			298,733		322,425	+3.5	-7.3			
Electrical porcelain, shipments:												
Standard.....dollars..	109,258	58,354	135,413	87,952		102,547	105,716			424,612	423,365	-8.3
Special.....dollars..	144,652	121,308	127,830	116,754		144,025	185,908			472,324	424,584	-10.2
Glazed nail knobs.....thous. of pieces..	3,797	1,750	4,454	2,701		3,731	3,683			8,114	7,155	-11.8
Unglazed nail knobs.....thous. of pieces..	2,121	1,186	2,309	1,863		2,103	2,576			5,009	4,172	-16.7
Tubes.....thous. of pieces..	1,439	717	1,627	1,291		1,468	1,380			3,379	2,918	-13.6
Laminated phenolic products, shipments.....dollars..	772,482	617,565	819,629	773,205		1,372,745	1,299,437			2,620,398	1,592,834	-39.2
Motors (direct current):												
New orders.....dollars..	921,543	999,790	910,301	878,612		1,013,394	942,665			1,749,269	1,788,913	+2.3
Billings (shipments).....dollars..	860,552	907,048	800,654	755,074		779,650	703,848			1,504,148	1,555,728	+2.4
Power switching equipment, new orders:												
Indoor.....dollars..	130,408	146,189	159,869	135,513		127,807	162,578			283,376	295,382	+4.2
Outdoor.....dollars..	371,592	364,769	464,069	346,035		304,866	521,874			695,732	810,104	+16.4
Outlet boxes and covers, shipments.....pieces..	2,036,381	1,465,610	2,448,375	1,921,846		2,168,723	2,688,191			5,442,686	4,370,221	-19.7
Vulcanized fiber:												
Shipments, total.....thous. of dolls..	718	599	709	613		759	823			1,526	1,322	-13.4
Consumption.....thous. of lbs..	2,999	2,576	2,595	2,492		2,974	3,006			6,505	5,087	-21.8
Industrial reflectors, sales.....units..	137,942	132,476	130,369	106,021	108,210	137,291	134,751	+2.1	-19.7	421,088	344,600	-18.2
Power cables, shipments.....thous. of ft..	2,297	2,087	1,627			1,711						
Flexible cords:												
Shipments.....thous. of ft..	43,897	33,916	40,280			45,973	47,932					
Stocks, end of month.....thous. of ft..	48,305	58,239	48,494			45,238	45,109					
Welding sets, new orders:												
Single operator.....units..	248	247	256	280	251	328	443	-10.4	-43.3	1,052	787	-25.2
Multiple operator.....units..	7	9	1	5	5	4	7	0.0	-28.6	22	11	-50.0
Nonmetallic conduits, shipments.....thous. of ft..	6,180	4,727	6,110	4,383		5,048	6,397			12,523	10,493	-16.2
Electric furnaces, new orders.....kilowatts..	3,218	2,991	8,630	4,015	2,620	12,092	7,218	-34.7	-63.7	30,079	15,265	-49.3
Mica, manufactured:												
Shipments.....thous. of dolls..	179	149	227	206	199	289	335	-3.4	-40.6	909	632	-30.5
Unfilled orders, end of mo.....thous. of dolls..	167	224	219	230	196	338	308	-14.8	-36.4			
Delinquent accounts, electrical trade:												
Amount.....dollars..	172,495	184,652	240,428	233,176	223,048	159,913	207,896	-4.3	+7.3			
Delinquent firms.....dollars..	1,152	1,170	1,486	1,465	1,528	1,128	1,351	+4.2	+13.0			

2 Revised.

3 Quarter ending in month indicated.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929	
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930		
AUTOMOBILES													
Production:													
United States—													
Total.....	number of cars..	217,570	120,004	273,170	² 324,018	324,378	466,418	585,455	+23.9	-31.4	1,452,910	998,566	-31.3
Passenger cars.....	number of cars..	169,282	91,235	234,527	275,811	335,789	405,708	513,344	+21.7	-34.6	1,266,434	846,127	-33.2
Taxicabs.....	number of cars..	1,646	1,483	572	1,022	1,389	2,108	2,079	+35.9	-33.2	6,251	2,983	-52.3
Trucks.....	number of cars..	46,642	27,286	38,071	² 47,185	64,200	58,602	70,032	+36.1	-8.3	180,225	149,456	-17.1
Canada—													
Total.....	number of cars..	9,424	5,495	10,388	15,548	20,730	31,287	40,621	+33.3	-49.0	93,409	46,666	-50.0
Passenger cars.....	number of cars..	7,137	4,426	8,856	13,021	17,165	25,584	32,833	+31.8	-47.7	75,581	39,042	-48.3
Trucks.....	number of cars..	2,287	1,069	1,532	2,527	3,565	5,703	7,788	+41.1	-54.2	17,828	7,624	-57.2
Exports (assembled):													
From United States—													
Total.....	number of cars..	25,815	32,115	28,169	25,482	31,090	55,058	76,382	+22.0	-59.3	169,105	84,741	-49.9
Passenger cars.....	number of cars..	13,929	13,830	15,293	18,732	22,129	35,253	51,504	+18.1	-57.0	111,388	56,154	-49.6
Trucks.....	number of cars..	11,886	18,285	12,876	6,750	8,961	19,805	24,878	+32.8	-64.0	57,717	28,587	-50.5
From Canada—													
Total.....	number of cars..	5,905	4,866	2,953	4,237	6,308	10,849	15,528	+48.9	-59.4	35,348	13,498	-61.8
Passenger cars.....	number of cars..	3,522	3,015	1,317	2,498	5,029	7,694	10,194	+101.3	-50.7	23,528	8,844	-62.4
Trucks.....	number of cars..	2,383	1,851	1,636	1,739	1,279	3,155	5,334	-26.5	-76.0	11,820	4,654	-60.6
Sales (General Motors Co.):													
Total to dealers, incl. Canadian and overseas.....													
number of cars..		60,977	40,222	106,509	126,196	135,930	175,148	220,391	+7.7	-38.3	523,119	368,635	-29.5
To consumers, U. S.....													
number of cars..		74,167	88,742	88,742	123,781	110,148	110,148	166,942	+39.5	-25.9	351,079	286,690	-18.3
To dealers, U. S.....													
number of cars..		94,458	110,904	118,081	118,081	141,222	176,510	176,510	+6.5	-33.1	413,173	323,443	-21.7
Accessories and parts, shipments:													
Original equipment.....													
rel. to Jan., 1925.....		78	34	135	141	167	213	275	+18.4	-39.3			
Replacement parts.....													
rel. to Jan., 1925.....		138	132	137	131	139	136	148	+6.1	-6.1			
Accessories.....													
rel. to Jan., 1925.....		83	50	79	66	67	69	85	+1.5	-21.2			
Service parts.....													
rel. to Jan., 1925.....		115	119	135	151	175	192	224	+15.9	-21.9			
Rim production.....													
thous. of rims.....		597	879	1,001	1,653	2,062	2,265	2,613	+21.7	-21.1	6,713	5,316	-20.8
New passenger-car registration:													
Total.....	number of cars..	183,610	138,732	180,094	211,645		235,590	378,069			455,350	391,736	-14.0
FUELS													
Coal and Coke													
Bituminous:													
Production—													
United States.....													
thous. of short tons..		45,677	46,814	49,773	39,555	35,773	47,900	39,870	-9.6	-10.3	139,226	125,106	-10.1
Canada.....													
thous. of short tons..		1,516	1,488	1,630			1,611	1,370					
Exports.....													
thous. of long tons..		1,486	1,084	953	835	726	999	878	-13.1	-17.3	2,794	2,514	-10.0
Consumption—													
By vessels.....													
thous. of long tons..		335	268	283	233		267	233			541	546	+0.9
By electric-power plants.....													
thous. of short tons..		3,778	4,025	4,028	3,443		3,713	3,576			7,859	7,471	-4.9
By railroads.....													
thous. of short tons..		7,830	8,011	8,210	7,117		8,211	8,180			16,881	15,327	-9.2
By coke plants—													
United States.....													
thous. of short tons..		6,884	6,579	6,588	6,248		6,566	7,486			13,614	12,836	-5.7
Canada.....													
thous. of short tons..		302	317	312			279	315					
Prices—													
Mine aver. (spot) dolls. per short ton.....													
		1.88	1.88	1.81	1.76	1.74	1.86	1.78	-2.8	-2.2			
Wholesale, comp. dolls. per short ton.....													
		3.95	3.96	3.982	3.951	3.911	4.029	4.000	-1.0	-2.2			
Retail, composite, dolls. per short ton.....													
		9.00	9.05	9.11	9.0	9.32	9.07	9.06	+3.1	+2.9			
Anthracite:													
Production.....													
thous. of short tons..		6,042	7,658	7,032	6,151	4,551	6,670	5,014	-26.1	-9.8	19,051	17,746	-6.9
Exports.....													
thous. of long tons..		27	313	271	262	149	274	151	-13.1	-1.3	723	682	-5.7
Prices—													
Wholesale, comp. dolls. per long ton.....													
		12.99	12.999	13.033	13.033	13.033	13.107	13.077	0.0	-0.3			
Retail, composite, dolls. per short ton.....													
		14.88	15.00	15.00	15.00	15.00	15.07	15.07	0.0	-0.5			
Coke:													
Production, U. S.—													
Beehive.....													
thous. of short tons..		415	345	309	233	294	440	534	+3.9	-44.9	1,453	886	-39.0
By-product.....													
thous. of short tons..		4,321	4,181	4,196	4,004	4,394	4,090	4,613	+9.7	-4.7	13,063	12,596	-3.6
Production, Canada.....													
thous. of short tons..		22	222	225			202	228					
Exports.....													
thous. of long tons..		98	111	101	75	58	76	87	-22.7	-33.3	267	236	-12.4
Price, furnace, Conneville.....													
dolls. per short ton..		2.68	2.64	2.59	2.49	2.60	2.90	2.90	0.0	-13.0			
Petroleum													
Crude petroleum:													
Production.....													
thous. of bbls.....		78,161	80,339	79,453	74,427	77,384	75,693	82,515	+4.0	-6.2	240,187	231,264	-3.7
Stocks at end of month—													
Total (comparable).....													
thous. of bbls.....		380,393	381,391	379,826	381,306	380,007	376,879	379,659	-0.3	+0.1			
Tank farms and pipe lines.....													
thous. of bbls.....		336,158	335,084	335,318	335,728	334,082	331,946	333,110	-0.5	+0.3			
Refineries.....													
thous. of bbls.....		44,235	46,307	44,508	45,578	45,925	44,933	46,549	+0.8	-1.3			
California—													
Light.....													
thous. of bbls.....		41,571	41,049	41,868	44,241	44,719	23,075	25,167	+1.1	+77.7			
Heavy.....													
thous. of bbls.....		110,718	106,499	107,123	107,739	107,414	90,883	101,255	-0.3	+6.1			
Imports.....													
thous. of bbls.....		4,533	5,887	5,450	4,321	4,827	7,016	6,790	+11.7	-28.9	21,881	14,598	-33.3
Consumption (run to stills).....													
thous. of bbls.....		81,061	80,663	80,163	72,414	80,252	72,031	80,708	+10.8	-0.6	231,564	232,823	+0.5
Refinery operations.....													
per ct. of capacity.....		75	72	71	71	71	76	78	0.0	0.0			
Price, Kansas-Oklahoma.....													
dolls. per bbl.....		1.300	1.300	1.229	1.181	1.110	1.110	1.110	-6.6	-9.0			
Oil wells completed.....													
number.....		1,407	1,060	1,060	969	1,090	1,090	1,081	+12.5	+0.8	3,282	3,119	-5.0
Mexico.....													
Production.....													
thous. of bbls.....		3,400	3,926	3,719			3,130	3,526					
Exports.....													
thous. of bbls.....		1,923	1,705	1,517			1,208	2,109					
Venezuela.....													
Production.....													
thous. of bbls.....		11,252	12,182	11,518	10,899		10,326	10,694			21,847	22,417	+2.6
Exports.....													
thous. of bbls.....		11,235	11,929	10,781	10,266		9,032	9,438			19,014	21,047	+10.7

² Revised.⁴ Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930,	Mar., 1930,	1929	1930	
								from Feb., 1930	from Mar., 1929			
FUELS—Continued												
Petroleum—Continued												
Gasoline:												
Production—												
Raw (at refineries).....thous. of bbls..	37,350	37,464	36,654	33,949	37,727	29,590	34,829	+11.1	+8.3	100,428	108,330	+7.9
Natural gas (at plants).....thous. of bbls..	4,504	4,457	4,410	4,248	4,576	3,736	4,324	+7.7	+5.8	12,043	13,234	+9.9
Exports.....thous. of bbls..	3,938	5,890	5,291	4,809	5,735	3,797	4,669	+19.3	+24.4	12,912	15,835	+22.6
Consumption.....thous. of bbls..	31,502	26,881	25,731	26,509	31,029	22,416	27,495	+17.1	+12.9	72,873	83,269	+14.3
Stocks, end of month—												
Raw (at refineries).....thous. of bbls..	37,780	43,132	49,676	53,229	55,239	45,729	48,224	+3.8	+14.5			
Natural gas (at plants).....thous. of bbls..	514	604	611	572	673	821	995	+17.7	-32.4			
Prices—												
Wholesale, New York.....dolls. per gal..	.165	.165	.165	.158	.143	.170	.170	-9.5	-15.9			
Retail wagon, 50 cities.....dolls. per gal..	.165	.165				.147	.149					
Retail distribution, 41 States.....thous. of gals.	905,832	850,147				626,361	809,483					
Kerosene:												
Production.....thous. of bbls..	4,829	4,848	4,489	4,398	4,752	4,435	4,515	+8.0	+5.2	13,650	13,639	-0.1
Exports.....thous. of bbls..	1,302	1,676	1,938	1,198	1,730	1,582	1,872	+44.4	-7.6	5,350	4,886	-8.7
Consumption.....thous. of bbls..	3,040	3,513	2,997	3,205	3,118	3,519	2,976	-2.7	+4.8	9,451	9,320	-1.4
Stocks at refineries, end mo.....thous. of bbls..	9,366	9,039	8,571	8,565	8,455	8,210	7,885	-1.3	+7.2			
Price, 150° water white.....dolls. per gal..	.073	.067	.064	.062	.064	.075	.077	+3.2	-16.9			
Gas and fuel oils:												
Production.....thous. of bbls..	36,134	36,261	33,213	31,185	32,111	34,331	37,456	+3.0	-14.3	108,625	96,509	-11.2
Consumption—												
By vessels.....thous. of bbls..	4,110	4,100	4,223			4,252	4,183					
By electric pow. plants.....thous. of bbls..	1,173	1,112	1,095	704	618	860	743	-12.2	-16.8	2,542	2,417	-4.9
By railroads.....thous. of bbls..	4,564	4,413	4,556	4,065	3,884	2,423	4,484	-4.5	-13.4	13,193	12,505	-5.2
Price, Okla. 24-26, refineries.....dolls. per bbl..	.863	.920	.950	.913	.805	.638	.675	-11.8	+19.3			
Stocks at refineries, end mo.....thous. of bbls..	37,399	34,425	35,873	34,280	32,998	30,115	30,195	-3.7	+9.3			
Lubricating oil:												
Production.....thous. of bbls..	2,555	2,765	2,880	2,727	3,120	2,503	2,943	+14.4	+6.0	8,391	8,727	+4.0
Consumption.....thous. of bbls..	1,858	1,716	1,288	1,525	2,122	1,751	1,581	+39.1	+34.2	4,853	4,935	+1.7
Stocks at refineries, end mo.....thous. of bbls..	8,117	8,269	8,956	9,289	9,561	8,534	8,853	+2.7	+8.0			
Price, cylinder oil.....dolls. per gal..	.335	.362	.351	.345	.345	.289	.293	0.0	+17.7			
Asphalt:												
Production.....thous. of short tons..	247	188	191	181	210	208	228	+16.0	-7.9	624	582	-6.7
Stocks, end of month.....thous. of short tons..	234	240	244	261	288	236	250	+10.3	+15.2			
Imports.....thous. of short tons..	7	10	5	3	7	9	3	+133.3	+133.3	25	14	-44.0
Coke:												
Production.....thous. of short tons..	155	171	146	140	161	127	129	+15.0	+24.8	394	447	+13.5
Stocks, end of month.....thous. of short tons..	688	745	741	756	288	388	402	+4.0	+95.5			
Wax:												
Production.....thous. of lbs..	50,775	40,104	52,360	50,960	61,320	50,027	56,372			165,284	164,640	-0.4
Stocks, end of mo.....thous. of lbs..	185,559	187,990	206,249	213,487	232,241	140,053	158,404					
RUBBER												
Crude Rubber												
World shipments, plantation.....long tons..	68,303	74,748	77,297	74,909		74,311	71,644			4 153,488	4 152,206	-0.8
Imports (including latex).....long tons..	43,901	43,232	47,904	42,998	45,254	64,286	50,610	+5.2	-10.6	172,484	136,156	-21.1
Consumption by tire mfrs.....thous. of lbs..	31,186	26,728	42,108	40,379		57,559	61,335			4 111,720	4 82,487	-25.5
World stocks, end of month:												
World total.....long tons..	287,547	307,670	334,809	358,131		244,340	262,676					
United States.....long tons..	92,219	105,138	120,649	131,748		90,058	100,537					
Europe.....long tons..	72,259	75,432	82,417	87,357		30,778	33,484					
Producing countries.....long tons..	34,200	36,290	36,915	41,095		36,254	32,955					
A float.....long tons..	88,869	90,840	94,822	97,931		87,250	95,700					
Wholesale price, smoked sheets,												
New York.....dolls. per pound..	.166	.160	.150	.158	.153	.239	.244	-3.2	-37.3			
Tires and Tubes												
Pneumatic tires:												
Production.....thousands..	2,703	2,446	2 3,589	2 3,645	3,893	5,184	5,639	+6.8	-31.0	15,865	11,127	-29.9
Stocks, end of month.....thousands..	9,701	9,470	2 9,539	2 9,929	10,080	11,621	12,264	+1.5	-17.8			
Shipments—												
Domestic.....thousands..	2,500	2,448	2 3,348	2 3,150	3,792	3,750	4,804	+20.4	-21.1	13,275	10,290	-22.5
Export.....thousands..	168	142	2 178	2 206	181	212	227	-12.1	-20.3	687	565	-17.8
Inner tubes:												
Production.....thousands..	2,835	2,787	2 3,685	2 3,707	3,960	4,888	5,077	+6.8	-22.0	15,565	11,352	-27.1
Stocks, end of month.....thousands..	10,276	10,245	2 10,163	10,429	10,582	12,749	13,313	+1.5	-20.5			
Shipments—												
Domestic.....thousands..	2,679	2,620	2 3,778	2 3,344	3,833	3,815	4,889	+14.6	-21.6	13,975	10,955	-21.6
Export.....thousands..	105	103	2 107	2 126	98	143	164	-22.2	-40.2	467	331	-29.1
Solid and cushion:												
Production.....thousands..	2 31	2 28	2 25	2 22	19	30	36	-13.6	-47.2	98	66	-32.7
Stocks, end of month.....thousands..	2 117	2 122	2 127	2 128	122	147	143	-4.7	-14.7			
Shipments—												
Domestic.....thousands..	2 23	2 19	2 20	2 19	22	30	38	+15.8	-42.1	99	62	-37.4
Exports.....thousands..	2	2	2	2	2	2	2	0.0	0.0	6	6	0.0
Rubber-proofed fabrics, production:												
Total.....thous. of yds..	4,395	2,291	3,281	3,441		3,028	3,952			4 5,856	4 6,722	+14.8
Auto fabric.....thous. of yds..	540	488	966			811	878			4 1,497	4 1,851	+23.6
All other.....thous. of yds..	1,308	882	1,076	1,081	1,211	1,099	1,344	+12.0	-9.9	3,596	3,368	-6.3
Raincoat fabrics.....thous. of yds..	2,547	921	1,239	1,475	1,632	1,118	1,730	+10.6	-5.7	3,837	4,345	+13.3
Rubber heels:												
Production.....thous. of pairs..	17,863	14,781	15,470	14,172		18,979	17,226			4 38,954	4 29,642	-23.9
Shipments—												
To shoe manufacturers.....thous. of pairs..	11,653	8,639	10,989	8,837		10,196	8,798			4 23,063	4 19,826	-14.0
To repair trade.....thous. of pairs..	6,571	4,148	5,106	6,516		6,737	7,923			4 13,546	4 11,622	-14.2
For repair.....thous. of pairs..	801	956	1,049	1,031		1,479	1,230			4 2,480	4 2,080	-16.1
Stocks, end of month.....thous. of pairs..	41,286	41,544	40,528	38,250		50,010	49,571					

2 Revised.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
RUBBER—Continued												
Tires and Tubes—Continued												
Rubber soles:												
Production.....thous. of pairs..	3,400	3,003	3,496	2,338		2,869	2,746			4,6745	4,5834	-13.5
Shipments—												
To shoe manufacturers.....thous. of pairs..	2,676	2,372	3,261	1,973		2,217	1,862			4,5151	4,5234	+1.6
To repair trade.....thous. of pairs..	576	1,449	491	392		755	705			1,616	883	-45.4
For export.....thous. of pairs..	109	88	138	56		24	34			180	194	+7.8
Stocks, end of month.....thous. of pairs..	3,421	3,545	3,227	3,171		4,077	4,243					
Mechanical rubber goods: shipments:												
Total.....thous. of dolls..	4,932	4,751	5,169	5,376		6,135	7,013			12,168	10,545	-13.3
Belting.....thous. of dolls..	1,203	1,086	1,150	1,281		1,413	1,546			2,718	2,431	-10.6
Hoes.....thous. of dolls..	1,830	1,895	2,034	2,190		2,271	2,753			4,649	4,224	-9.1
All other.....thous. of dolls..	1,899	1,770	1,984	1,905		2,452	2,735			4,802	3,889	-19.0
Rubber bands, shipments.....thous. of lbs..	170	189	226	230	248	240	288	+7.8	-13.9	747	704	-5.8
Rubber flooring, shipments.....thous. of sq. ft..	517	618	459	530		432	603			850	989	+16.4
Calendered rubber clothing:												
Production.....no. coats and sundries..	75,392	49,093	56,949	64,934	78,858	59,825	77,740	+21.4	+1.4	195,695	200,741	+2.6
Net orders.....no. coats and sundries..	95,423	16,095	31,638	39,568	97,612	30,286	32,967	+146.7	+196.1	95,690	168,818	+76.4
HIDES AND LEATHER												
Hides												
Imports:												
Total hides and skins.....thous. of lbs..	50,958	41,932	39,094	35,116	40,097	31,919	34,063	+14.2	+17.7	104,661	114,307	+9.2
Calfskins.....thous. of lbs..	3,542	2,624	2,953	2,318	2,408	1,951	1,462	+3.9	+64.7	6,061	7,679	+26.7
Cattle hides.....thous. of lbs..	28,227	26,060	19,145	18,885	21,169	16,195	16,161	+12.1	+31.0	53,812	59,199	+10.0
Goatskins.....thous. of lbs..	9,838	6,293	6,728	6,087	9,670	7,841	8,768	+58.9	+10.3	22,520	22,485	-0.2
Sheepskins.....thous. of lbs..	5,032	3,950	5,473	3,715	2,971	3,785	4,892	-20.0	-39.3	13,737	12,159	-11.5
Stocks, end of month:												
Total hides and skins.....thous. of lbs..	270,188	269,892	269,925	265,248		249,563	240,740					
Cattle hides.....thous. of lbs..	220,779	220,509	221,718	216,251		210,760	203,947					
Calf and kip skins.....thous. of lbs..	27,573	26,584	25,480	25,626		21,595	20,265					
Sheep and lamb skins.....thous. of lbs..	21,836	22,799	22,727	23,371		17,208	16,528					
Prices:												
Green salted, packers' heavy native steers.....dolls. per lb..	.164	.160	.163	.148	.142	.153	.145	-4.1	-2.1			
Calfskins, country, No. 1.....dolls. per lb..	.179	.174	.176	.164	.156	.171	.187	-4.9	-16.6			
Inspected slaughter of livestock:												
United States—												
Cattle.....thous. of animals..	731	658	713	561	615	569	632	+9.6	-2.7	1,937	1,889	-2.5
Calves.....thous. of animals..	358	346	374	329	388	311	409	+17.9	-5.1	1,089	1,091	+0.2
Swine.....thous. of animals..	4,499	5,083	5,001	4,034	3,392	4,478	3,645	-15.9	-6.9	13,861	12,427	-10.3
Sheep.....thous. of animals..	1,159	1,091	1,225	1,187	1,358	953	1,006	+14.4	+35.0	3,109	3,770	+21.2
Canada—												
Cattle and calves.....thous. of animals..	114	71	68	57	74	57	74	+29.8	0.0	202	199	-1.5
Swine.....thous. of animals..	234	221	207	168	168	208	215	0.0	-21.9	672	543	-19.2
Sheep.....thous. of animals..	135	50	31	20	24	21	21	+20.0	+14.3	77	75	-2.6
Leather												
Sole and belting leather:												
Production—												
Sole only.....thous. of backs, bends, sides..	1,226	1,235	1,359	1,239	1,292	1,102	1,140	+4.3	+13.3	4,526	4,890	+10.3
Sole and belting.....thous. of lbs..	23,901	23,894	25,444	23,502		20,989	22,191			44,880	48,996	+9.2
Stocks, end of month—												
In process of tanning.....thous. of lbs..	83,922	84,197	84,624	84,709		78,607	79,524					
Finished.....thous. of lbs..	63,451	64,084	65,846	67,452		81,482	78,772					
Exports.....thous. of sq. ft..	600	500	757	430	578	729	1,336	+34.4	-56.7	3,119	1,765	-43.4
Price oak, scoured backs.....dolls. per lb..	.55	.52	.50	.49	.49	.57	.55	0.0	-10.9			
Upper leather:												
Production.....thous. of sq. ft..	69,750	72,672	68,296	63,220		62,954	66,132			129,378	131,516	+1.7
Stocks, end of month—												
In process of tanning.....thous. of sq. ft..	170,067	143,576	146,077	144,602		136,749	133,335					
Finished.....thous. of sq. ft..	233,599	244,428	254,239	249,806		249,739	249,373					
Exports.....thous. of lbs..	8,378	7,776	8,763	8,320	10,375	9,364	11,991	+24.7	-13.5	32,353	27,458	-15.1
Chrome calf, "B" grades.....dolls. per sq. ft..	.48	.48	.46	.46	.46	.51	.49	0.0	-6.1			
Leather Products												
Shoes:												
Production.....thous. of pairs..	27,723	22,475	26,534	25,715		27,707	30,900			54,953	52,249	-4.9
Exports.....thous. of pairs..	342	294	290	189	293	367	435	+55.5	-32.6	1,225	772	-37.0
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..	284,929	213,861	265,407	280,143	264,372	240,116	256,691	-5.6	+3.0	711,633	809,922	+13.8
PAPER AND PRINTING												
Wood Pulp												
Groundwood:												
Production.....short tons..	122,166	126,523	142,617	136,898		126,171	147,640			275,943	279,515	+1.3
Consumption and shipments.....short tons..	140,240	129,623	144,498	131,389		125,598	136,880			269,803	275,887	+2.3
Stocks, end of month.....short tons..	70,088	67,588	65,706	71,215		130,797	141,557					
Imports.....short tons..	21,223	36,186	28,423	39,105	27,329	14,228	16,481	-30.1	+65.8	56,541	94,857	+17.7
Sulphite, unbleached:												
Production.....short tons..	21,512	21,010	21,550	20,604		19,162	19,266			39,530	42,154	+6.6
Consumption and shipments.....short tons..	21,016	20,520	22,114	20,440		19,492	19,532			39,990	42,554	+6.4
Stocks, end of month.....short tons..	3,960	4,450	3,886	4,050		3,650	3,384					
Imports.....short tons..	80,133	56,302	97,570	85,163		61,225						

2 Revised.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
PAPER AND PRINTING—Continued												
Wood Pulp—Continued												
Sulphite:												
Bleached—												
Production.....short tons..	52,296	50,790	58,884	51,114	.....	48,460	53,640	.....	.....	.....	.....	.....
Consump. and ship.....short tons..	51,674	51,238	58,252	52,088	.....	48,702	53,560	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	6,758	6,310	6,942	5,968	.....	4,962	5,042	.....	.....	.....	.....	.....
Imports.....short tons..	27,589	36,028	29,593	35,999	.....	28,022	.....	.....	.....	.....	.....	.....
Total sulphite—												
Production.....short tons..	150,762	142,784	157,476	146,388	.....	139,474	150,490	.....	.....	.....	.....	.....
Consump. and ship.....short tons..	149,470	142,054	158,620	146,892	.....	141,134	150,226	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	23,736	24,466	23,322	22,818	.....	25,574	25,838	.....	.....	.....	.....	.....
Sulphate:												
Production.....short tons..	40,200	35,176	40,276	41,564	.....	39,454	42,768	.....	.....	.....	.....	.....
Consumption and shipments.....short tons..	39,578	35,858	40,556	41,164	.....	40,748	43,478	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	8,042	7,840	8,020	8,831	.....	5,282	5,118	.....	.....	.....	.....	.....
Soda:												
Production.....short tons..	36,990	36,028	39,378	35,008	.....	34,556	38,496	.....	.....	.....	.....	.....
Consumption and shipments.....short tons..	36,200	34,824	38,132	31,992	.....	34,966	37,798	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	5,668	5,606	5,438	5,710	.....	7,260	6,606	.....	.....	.....	.....	.....
Other grades:												
Production.....short tons..	44	80	96	122	.....	98	82	.....	.....	.....	.....	.....
Consumption and shipments.....short tons..	196	144	132	82	.....	96	24	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	108	44	6	50	.....	18	76	.....	.....	.....	.....	.....
Total (all grades):												
Production.....short tons..	227,906	214,068	237,226	223,082	.....	213,582	231,836	.....	.....	.....	.....	.....
Consumption and shipments.....short tons..	225,444	212,880	237,440	220,130	.....	216,944	231,526	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	37,554	37,956	36,786	37,415	.....	38,134	37,638	.....	.....	.....	.....	.....
Newsprint Paper												
Production:												
United States, total.....short tons..	113,729	112,583	124,851	112,394	113,328	103,644	114,586	+0.8	-1.1	342,052	350,573	+2.5
Ratio to capacity.....per cent..	81	80	86	83	83	77	79	.....	.....	.....	.....	.....
Canada.....short tons..	252,046	230,008	206,305	189,154	207,485	187,200	218,147	+9.7	-4.9	617,538	602,944	-2.4
Consumption by publishers.....short tons..	205,814	194,907	176,172	171,889	187,594	170,864	198,722	+9.1	-5.6	553,088	535,655	-3.2
Shipments:												
United States.....short tons..	116,725	117,131	124,262	110,714	109,686	108,375	120,003	-0.9	-8.6	348,641	344,662	-1.1
Canada.....short tons..	253,219	234,160	202,008	178,691	208,629	186,395	119,739	+16.8	+7.2	515,154	589,328	+14.4
Imports.....short tons..	221,078	230,579	198,620	154,138	187,513	165,331	182,994	+21.7	+2.5	545,207	540,271	-0.9
Exports, Canada.....short tons..	229,142	220,171	199,773	163,204	225,252	174,469	244,167	+38.0	-7.7	613,683	588,229	-4.1
Stocks, end of month:												
At mills—												
United States.....short tons..	23,549	19,023	18,778	20,552	24,004	35,642	30,534	+16.8	-21.4	.....	.....	.....
Canada.....short tons..	28,891	24,946	29,154	39,598	38,661	25,536	24,045	-2.4	+60.8	.....	.....	.....
At publishers.....short tons..	198,550	220,024	231,879	224,155	210,054	188,595	174,750	-6.3	+20.2	.....	.....	.....
In transit to publishers.....short tons..	61,525	58,524	48,925	47,174	42,915	48,050	45,673	-9.0	-6.0	.....	.....	.....
Box Board												
Operation.....thous. of inch hours..	8,515	7,669	8,623	7,775	8,144	8,436	9,417	+4.7	-13.5	27,150	24,541	-9.6
Operation.....per ct. of capacity..	77.5	69.9	75.5	73.8	71.3	80.0	82.5	-3.4	-13.6	.....	.....	.....
Production.....short tons..	238,658	186,596	228,314	230,287	229,253	228,634	256,118	-10.5	-10.5	732,442	687,854	-6.1
New orders.....short tons..	213,263	174,570	245,390	217,291	220,543	227,595	266,895	+1.5	-17.4	735,576	683,224	-7.1
Unfilled orders, end of month.....short tons..	66,969	59,334	76,975	71,741	66,870	87,726	96,269	-6.8	-30.5	.....	.....	.....
Consumption of waste paper.....short tons..	230,498	175,957	224,197	215,757	218,340	217,442	242,073	+1.2	-9.8	698,167	658,294	-5.7
Shipments.....short tons..	237,696	180,194	227,854	224,179	225,839	227,206	258,664	+0.7	-12.7	733,368	677,872	-7.6
Stocks, end of month.....short tons..	62,065	64,197	64,242	69,880	68,333	57,308	54,982	-2.2	+24.3	.....	.....	.....
Stocks of waste paper, end of month:												
On hand.....short tons..	193,511	198,099	190,879	190,687	171,361	126,212	137,068	-10.1	+25.1	.....	.....	.....
In transit and unshipped purchases.....tons..	52,862	50,380	59,742	59,384	54,059	54,121	51,520	-9.0	+4.9	.....	.....	.....
Other Paper												
Binder's board, production.....short tons..												
1,882	1,661	2,261	2,054	1,898	2,581	2,917	-7.6	-34.9	8,676	6,213	-28.3	.....
Book paper:												
Production.....short tons..	144,020	133,939	148,672	103	.....	122,015	136,657	.....	.....	.....	.....	.....
Ratio to capacity.....per cent..	105	98	103	100	.....	92	93	.....	.....	.....	.....	.....
Shipments.....short tons..	139,123	153,939	144,212	.....	.....	126,286	139,253	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	83,946	85,940	91,103	.....	.....	74,353	71,399	.....	.....	.....	.....	.....
New orders—												
Coated.....p. ct. of normal production..	82	83	87	90	93	94	104	+3.3	-10.6	.....	.....	.....
Uncoated.....p. ct. of normal production..	84	75	87	87	83	87	91	-4.6	-8.8	.....	.....	.....
Unfilled orders, end of month—												
Coated.....p. ct. of normal production..	8	8	11	11	10	9	10	-9.1	0.0	.....	.....	.....
Uncoated.....p. ct. of normal production..	7	7	7	8	8	9	9	0.0	-11.1	.....	.....	.....
Wrapping paper:												
Production.....short tons..	86,196	78,872	84,693	77,226	.....	87,682	91,746	.....	.....	.....	.....	.....
Ratio to capacity.....per cent..	84	77	79	78	.....	89	86	.....	.....	.....	.....	.....
Shipments.....short tons..	86,196	77,295	86,133	78,771	.....	86,298	95,700	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	82,458	84,025	82,616	81,074	.....	93,107	86,596	.....	.....	.....	.....	.....
Fine paper:												
Production.....short tons..	38,746	35,281	41,234	39,170	.....	37,789	41,348	.....	.....	.....	.....	.....
Ratio to capacity.....per cent..	91	83	92	95	.....	90	86	.....	.....	.....	.....	.....
Shipments.....short tons..	36,809	32,177	42,099	38,347	.....	38,885	43,788	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	50,749	53,848	54,573	55,385	.....	49,849	47,373	.....	.....	.....	.....	.....
All other grades:												
Production.....short tons..	99,192	88,177	98,057	93,403	.....	100,337	104,355	.....	.....	.....	.....	.....
Shipments.....short tons..	97,863	84,994	95,211	100,114	.....	102,334	102,691	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	57,500	60,700	63,546	56,835	.....	60,605	53,205	.....	.....	.....	.....	.....
Total paper (inc. newsprint and box board):												
Production.....short tons..	2,720,541	635,448	725,821	.....	.....	678,901	744,810	.....	.....	.....	.....	.....
Ratio to capacity.....per cent..	88	87	93	.....	.....	86	86	.....	.....	.....	.....	.....
Shipments.....short tons..	2,714,412	626,015	719,771	.....	.....	689,684	760,439	.....	.....	.....	.....	.....
Stocks, end of month.....short tons..	362,267	367,739	501,495	.....	.....	370,954	344,680	.....	.....	.....	.....	.....

2 Revised.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. in-crease (+) or de-crease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
PAPER AND PRINTING—Continued												
Paperboard Shipping Boxes												
Operating activity:												
Total.....per cent of normal.....	79	63	74	77	77	84	86	0.0	-10.5			
Corrugated.....per cent of normal.....	81	66	75	78	80	85	86	+2.6	-7.0			
Solid fiber.....per cent of normal.....	72	55	72	75	69	80	85	-8.0	-18.8			
Production:												
Total.....thous. of sq. ft.....	485,306	367,533	468,548	508,222	500,061	494,105	510,680	-1.6	-2.1	1,455,957	1,476,831	+1.4
Corrugated.....thous. of sq. ft.....	387,935	296,457	369,950	404,516	414,746	383,191	398,777	+2.5	+4.0	1,133,989	1,189,212	+4.9
Solid fiber.....thous. of sq. ft.....	97,371	71,076	98,598	103,706	85,315	110,914	111,903	-17.7	-23.8	321,968	287,619	-10.7
Abrasive paper and cloth:												
Domestic sales.....reams.....	69,103	50,771				86,037	101,845					
Foreign sales.....reams.....	24,134	20,628				21,457	22,194					
Rope paper sacks, shipments.....rel. to 1921-22.....	102	86	103	96	92	96	90	-4.2	+2.2			
Printing												
Book publication:												
American manufacture.....no. of titles.....	873	537	449	514	790	681	914	+53.7	-13.6	2,103	1,753	-16.6
Imported.....no. of titles.....	235	228	156	251	338	113	201	+60.9	+68.2	464	745	+60.1
Sales books:												
New orders.....thous. of books.....	12,108	9,832	13,028	11,684	12,347	11,762	12,317	+5.7	+0.2	36,940	37,059	+0.3
Shipments.....thous. of books.....	12,785	11,819	11,993	11,587	12,176	11,984	12,414	+5.1	-2.7	36,565	35,756	-1.7
Blank forms, new orders.....thous. of sets.....	66,464	57,063	55,321	63,793	72,340	53,506	63,633	+13.4	+13.4	171,104	191,454	+11.9
Printing activity.....relative to 1924.....	102	103	110			126	124					
BUILDING CONSTRUCTION AND HOUSING												
Building Costs												
Building materials:												
Frame house, 6-rm. 1st of mo. rel. to 1913.....	178	177	178	178	177	175	176	-0.6	+0.6			
Brick house, 6-rm. 1st of mo. rel. to 1913.....	182	181	182	182	181	180	181	-0.6	0.0			
Bldg. costs, 1st of mo. rel. to 1913.....	208.5	209.5	209.0	206.5	206.8	210.4	207.8	+0.1	-0.5			
Bldg. costs (A. G. C.), 1st of mo. rel. to 1913.....	201	202	203	203	203	204	204	0.0	-0.5			
Construction costs (Am. Appraisal):												
Frame.....rel. to 1913.....	206	204	204	204	202	204	204	-1.0	-1.0			
Brick, wood frame.....rel. to 1913.....	215	214	214	215	213	213	213	-0.9	0.0			
Brick, steel frame.....rel. to 1913.....	198	197	197	198	196	197	197	-1.0	-0.5			
Reinforced concrete.....rel. to 1913.....	202	201	202	203	201	201	201	-1.0	0.0			
Contracts and Fire Losses												
Contracts awarded (36 States):												
Commercial buildings.....thous. of sq. ft.....	13,180	4,746	7,774	10,146	12,156	11,077	12,204	+19.8	-0.4	38,531	30,076	-21.9
Industrial buildings.....thous. of sq. ft.....	6,913	13,340	3,538	3,899	5,948	7,892	9,342	+52.6	-36.3	24,319	13,385	-45.0
Residential buildings.....thous. of sq. ft.....	20,670	17,182	12,914	14,390	19,891	25,659	39,849	+38.2	-50.1	93,406	47,195	-49.5
Educational buildings.....thous. of sq. ft.....	3,796	3,008	2,619	2,933	5,256	3,400	6,241	+79.2	-15.8	12,272	10,808	-11.9
Other public and semi-public buildings.....thous. of sq. ft.....	4,455	3,191	3,149	3,437	6,977	2,845	5,191	+103.0	+34.4	10,899	13,563	+24.4
Grand total.....thous. of sq. ft.....	49,268	41,946	30,601	36,444	50,493	51,696	73,849	+38.5	-31.6	181,876	117,538	-35.4
Contracts awarded, value (36 States):												
Commercial buildings.....thous. of dolls.....	99,072	30,368	50,907	71,237	72,858	65,926	69,064	+2.3	+5.5	233,634	195,002	-16.5
Industrial buildings.....thous. of dolls.....	38,095	66,888	37,857	33,059	71,793	52,395	55,204	+117.2	+30.0	168,038	142,709	-15.1
Residential buildings.....thous. of dolls.....	110,848	111,480	63,117	71,746	98,453	123,759	190,146	+37.2	-48.2	446,767	233,316	-47.8
Educational buildings.....thous. of dolls.....	24,914	18,703	17,708	20,410	32,269	22,095	36,992	+58.1	-12.8	76,258	70,367	-7.7
Other public and semi-public buildings.....thous. of dolls.....	36,344	27,988	33,229	27,517	60,238	26,470	44,843	+118.9	+34.3	104,455	120,984	+15.8
Public works and utilities.....thous. of dolls.....	68,811	49,870	103,041	73,826	98,812	49,096	67,661	+33.8	+46.0	178,598	275,679	+54.4
Grand total.....thous. of dolls.....	378,074	304,297	305,859	309,795	434,424	339,739	463,911	+40.2	-6.4	1,197,719	1,050,078	-12.3
Contracts awarded, Canada.....thous. of dolls.....	45,376	32,549	37,530	28,464	24,263	28,426	27,125	-14.8	-10.6	97,514	90,257	-7.4
Building volume (A. G. C.).....rel. to 1913.....	225	169	131	114	131	122	116	+14.9	+12.9			
Fire losses:												
Canada (Monetary Times).....thous. of dolls.....	3,864	4,081	5,100	2,412		3,078	2,453			4,542	4,512	+30.8
BUILDING MATERIALS												
Softwood Lumber												
Douglas fir:												
Production (computed).....M ft. b. m.....	309,772	260,979	199,651	275,751	329,021	250,228	350,508	+19.3	-6.1	946,775	804,423	-15.0
Shipments (computed).....M ft. b. m.....	266,351	223,300	220,090	251,131	297,238	304,401	354,537	+18.4	-16.2	955,281	769,059	-19.5
New orders (computed).....M ft. b. m.....	253,369	240,835	242,178	254,712	290,076	336,184	371,548	+13.9	-21.9	1,056,897	786,966	-25.5
Unfilled orders, end of month.....M ft. b. m.....	215,319	273,065	293,657	290,076	216,662	300,804	331,707	-25.3	-34.7			
Exports, lumber.....M ft. b. m.....	53,261	74,967	47,487	38,106	45,184	57,167	77,443	+18.6	-41.7	218,909	150,777	-40.3
Exports, timber.....M ft. b. m.....	33,508	33,309	36,064	27,887	37,143	36,999	56,238	+33.2	-34.0	153,221	101,094	-34.0
Price, No. 1 common dolls. per M ft. b. m.....	17.42	16.84	16.85	16.71	16.75	18.43	19.15	+0.2	-12.5			
Price, flooring, 1 x 4, "B" and better, V. G. dolls. per M ft. b. m.....	42.13	41.94	41.63	41.35	41.12	40.85	42.26	-0.6	-2.7			
California redwood:												
Production (computed).....M ft. b. m.....	48,438	30,634	41,084	36,667	34,959	32,789	43,797	-4.7	-20.2	106,146	112,710	+6.2
Shipments (computed).....M ft. b. m.....	39,170	25,253	30,893	34,173	31,097	31,000	42,315	+9.0	-26.5	104,259	96,163	-7.8
New orders (computed).....M ft. b. m.....	40,579	23,230	35,633	36,106	29,768	33,431	47,059	-17.6	-36.7	115,291	101,507	-12.0
Unfilled orders, end of month (computed).....M ft. b. m.....	38,364	36,626	27,079	37,210	32,403	37,686	37,898	-12.9	-14.5			
California white pine:												
Production.....M ft. b. m.....	100,037	60,651	29,185	30,660	38,906	44,382	67,401	+26.9	-42.3	181,713	98,751	-45.7
Shipments.....M ft. b. m.....	62,585	56,767	64,837	68,659	81,599	97,671	102,908	+18.8	-20.7	301,212	215,095	-28.6
Stocks, end of month.....M ft. b. m.....	607,775	623,554	568,607	528,140	457,060	483,998	437,089	-13.1	+4.6			
New orders.....M ft. b. m.....	60,174	54,835	65,322	66,385	72,947	84,890	95,848	+9.9	-23.9	270,633	204,654	-26.0
Unfilled orders, end of month.....M ft. b. m.....	172,309	189,732	151,560	148,691	155,699	168,766	161,865	+4.7	-3.8			

* Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

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	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
BUILDING MATERIALS—Continued												
Softwood Lumber—Continued												
Northern pine:												
Lumber—												
Production.....M ft. b. m.	8,548	11,682	14,935	15,549	15,549	22,054	22,064	0.0	-31.4	68,536	46,033	-32.8
Shipments.....M ft. b. m.	32,726	19,496	23,200	26,144	28,127	32,302	40,159	+7.6	-30.0	105,628	77,471	-26.7
New orders.....M ft. b. m.	20,167	14,459	22,670	21,257	23,858	29,398	39,732	+12.2	-40.0	104,493	67,785	-35.1
Lath												
Production.....thousands	1,310	653	527	517	571	2,986	2,938	+10.4	-80.6	10,616	1,615	-84.8
Shipments.....thousands	5,008	2,783	3,251	3,543	3,524	5,185	7,316	-0.5	-51.8	19,453	10,318	-47.6
North Carolina pine:												
Production (computed).....M ft. b. m.	43,995	40,138	41,097	42,497	43,526	65,506	71,610	+2.4	-39.2	182,259	127,120	-30.2
Shipments (computed).....M ft. b. m.	47,096	38,038	36,946	38,031	39,683	60,347	67,543	+4.3	-41.2	166,866	114,660	-31.3
Northern hemlock:												
Production.....M ft. b. m.	9,230	10,839	11,153	8,515	-----	14,802	14,876	-----	-----	43,679	49,668	-41.6
Shipments.....M ft. b. m.	9,328	4,992	7,800	5,241	-----	13,020	9,814	-----	-----	42,875	43,101	-42.7
Hardwood Lumber												
Walnut lumber:												
Production.....M ft. b. m.	3,807	3,745	2,363	1,838	2,599	2,780	2,993	+41.4	-13.2	8,747	6,800	-22.3
Shipments.....M ft. b. m.	3,069	2,301	2,070	1,771	1,860	3,433	3,926	+5.0	-52.6	10,522	5,701	-45.8
Stocks, end of month.....M ft. b. m.	17,130	18,601	18,727	18,079	18,005	11,654	10,711	+4.6	+76.5	-----	-----	-----
New orders.....M ft. b. m.	2,513	1,007	2,071	1,445	1,732	3,662	4,104	+19.9	-57.8	11,073	5,248	-52.6
Unfilled orders, end of month.....M ft. b. m.	6,475	5,590	4,418	3,704	3,886	5,833	6,804	+4.9	-42.9	-----	-----	-----
Walnut logs:												
Purchased.....M ft. log measure	3,144	2,404	1,701	2,009	1,788	2,021	2,213	-11.0	-19.2	6,519	5,498	-15.7
Made into lumber and veneer.....M ft. log measure	2,975	2,288	2,021	1,818	2,138	2,126	2,539	+17.6	-15.8	7,203	5,977	-17.0
Stocks, end of month.....M ft. log measure	3,299	2,790	2,510	2,682	2,364	1,261	1,048	-11.9	+125.6	-----	-----	-----
Northern hardwoods:												
Production.....M ft. b. m.	15,895	21,303	29,484	24,694	-----	44,370	42,865	-----	-----	482,286	454,178	-34.2
Shipments.....M ft. b. m.	18,220	12,969	17,119	17,773	-----	30,515	32,605	-----	-----	459,608	434,892	-11.9
Lower Michigan hardwoods:												
Production.....M ft. b. m.	1,940	3,542	3,075	2,883	-----	6,237	6,795	-----	-----	411,693	45,958	-49.0
Shipments.....M ft. b. m.	2,707	3,716	2,210	1,686	-----	6,223	6,732	-----	-----	411,173	43,896	-65.1
Stocks, end of month.....M ft. b. m.	16,210	26,639	15,065	15,512	-----	26,912	27,443	-----	-----	-----	-----	-----
Hardwood Lumber												
Gum:												
Stocks, total, end of month.....mill. ft. b. m.	517	512	534	534	552	504	489	+3.4	+12.9	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	397	387	404	408	422	344	332	+3.4	+27.1	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	134	125	130	126	130	160	157	+3.2	-17.2	-----	-----	-----
Oak:												
Stocks, total, end of month.....mill. ft. b. m.	1,033	1,049	1,040	1,052	1,055	930	914	+0.3	+15.4	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	852	869	877	865	865	757	751	0.0	+15.2	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	181	181	174	187	189	173	163	+1.1	+16.0	-----	-----	-----
All hardwoods:												
Production.....mill. ft. b. m.	259	210	251	255	270	319	315	+5.9	-14.3	942	776	-17.6
Shipments.....mill. ft. b. m.	221	169	206	233	221	319	341	-5.2	-35.2	953	660	-30.7
New orders.....mill. ft. b. m.	184	105	199	244	203	334	334	-14.8	-39.2	987	646	-34.5
Stocks, total, end of month.....mill. ft. b. m.	2,979	2,997	3,061	3,086	3,141	2,707	2,672	+1.8	+17.6	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	2,356	2,383	2,440	2,451	2,500	2,057	2,024	+2.0	+23.5	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	622	614	614	635	641	651	648	+0.9	-1.1	-----	-----	-----
Exports, planks, joists, etc.....M ft. b. m.	153,069	200,816	151,906	129,070	152,156	177,682	200,790	+17.9	-24.2	618,856	433,132	-30.6
Flooring												
Maple flooring:												
Production.....M ft. b. m.	5,574	6,107	6,589	5,992	5,382	7,022	6,794	-10.2	-20.8	21,587	17,163	-20.5
Shipments.....M ft. b. m.	4,379	3,060	4,625	3,771	4,761	6,053	6,141	+26.3	-22.5	17,308	13,157	-24.0
Stocks, end of month.....M ft. b. m.	23,659	26,563	28,314	30,150	31,017	25,466	25,494	+2.9	+21.7	-----	-----	-----
New orders.....M ft. b. m.	3,227	3,053	4,245	3,696	3,953	8,317	6,604	+7.0	-40.1	20,920	11,894	-43.1
Unfilled orders, end of month.....M ft. b. m.	5,717	5,579	5,827	6,008	5,418	10,443	11,106	-9.8	-51.2	-----	-----	-----
Oak flooring:												
Production.....M ft. b. m.	25,111	22,667	28,617	27,943	32,038	24,865	28,497	+14.7	+12.4	84,566	88,598	+4.8
Shipments.....M ft. b. m.	21,202	47,506	28,317	28,272	34,829	28,551	40,902	+23.2	-14.8	101,452	89,418	-11.9
Stocks, end of month.....M ft. b. m.	82,103	83,233	87,391	37,251	85,861	91,987	80,603	-1.6	+6.5	-----	-----	-----
New orders.....M ft. b. m.	16,420	21,775	35,286	29,874	43,893	31,761	52,642	+46.9	-16.6	114,139	109,053	-4.5
Unfilled orders, end of month.....M ft. b. m.	25,810	45,272	51,026	57,602	68,188	45,666	54,644	+18.4	+24.8	-----	-----	-----
Fabricated Structural Steel												
New orders (prorated).....short tons.	227,150	319,550	248,000	276,000	248,000	265,650	358,050	-10.1	-30.7	897,050	772,000	-13.9
Ratio to capacity.....per cent.	59	83	62	69	62	69	93	-10.1	-33.3	-----	-----	-----
Shipments (prorated).....short tons.	284,900	265,650	244,000	292,000	276,000	238,700	277,200	-5.5	-0.4	796,950	812,000	+1.9
Ratio to capacity.....per cent.	74	69	61	73	69	62	72	-5.5	-4.2	-----	-----	-----
Portland Cement												
Production.....thous. of bbls.	14,053	11,215	8,498	8,162	11,225	8,522	9,969	+37.5	+12.6	28,372	27,885	-1.7
Operation.....per ct. of capacity	66.6	51.5	33.8	41.5	51.5	44.8	47.4	+24.1	+8.6	-----	-----	-----
Shipments.....thous. of bbls.	11,222	5,951	4,955	7,012	8,846	5,448	10,113	+26.2	-12.5	21,268	20,813	-2.1
Stocks, end of month.....thous. of bbls.	18,213	23,550	27,081	28,184	30,563	29,870	29,724	+8.4	+2.8	-----	-----	-----
Stocks, clinker, end of month.....thous. of bbls.	6,134	7,526	9,646	11,572	13,494	12,436	14,948	+16.6	-9.7	-----	-----	-----
Wholesale prices, composite.....dolls. per bbl.	1.510	1.555	1.576	1.617	1.617	1.650	1.650	0.0	-2.0	-----	-----	-----
Common brick:												
Stocks, end of month—												
Burned.....thousands	497,099	475,735	428,508	513,057	-----	366,150	341,843	-----	-----	-----	-----	-----
Unburned.....thousands	291,237	247,723	234,126	259,889	-----	184,620	171,545	-----	-----	-----	-----	-----
Shipments.....thousands	131,919	107,241	83,117	75,524	-----	74,537	76,364	-----	-----	-----	-----	-----
Unfilled orders, end of month.....thousands	154,766	141,143	115,907	140,451	-----	91,615	102,389	-----	-----	-----	-----	-----
Plants closed down.....number	115	132	126	126	-----	82	36	-----	-----	-----	-----	-----
Price, red, New York.....dolls. per thous.	10.00	10.00	10.50	10.50	11.00	11.50	11.50	+4.8	-4.3	-----	-----	-----

² Revised.

⁴ Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per cent. increase (+) or decrease (-) cumulative 1930 from 1929	
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930		
BUILDING MATERIALS—Continued													
Other Stone, Clay, and Glass Products													
Sand-lime brick:													
Production.....	thousands..	14,011	9,215	6,586	² 4,827	7,406	7,432	11,433	+53.4	-35.2	29,415	18,819	-36.0
Shipments by rail.....	thousands..	4,956	2,658	2,356	² 2,489	2,846	2,955	3,945	+34.3	-27.9	8,574	7,691	-10.3
Shipments by truck.....	thousands..	9,938	5,246	3,686	² 3,576	4,814	5,942	9,498	+34.6	-49.3	21,646	12,076	-44.2
Stocks, end of month.....	thousands..	10,854	13,859	13,691	² 10,286	11,449	16,974	14,256	+11.3	-19.7			
Unfilled orders, end of month.....	thousands..	9,708	7,008	7,904	² 9,358	12,793	10,665	12,630	+36.7	+1.3			
Floor and wall tile:													
Production.....	thous. of sq. ft..	4,385	3,653	3,446	3,195		5,601	6,162			⁴ 11,313	⁴ 6,641	-41.3
Shipments, quantity.....	thous. of sq. ft..	4,060	3,122	3,311	2,936		4,373	5,251			⁴ 8,602	⁴ 6,247	-27.4
Shipments, value.....	thous. of dolls..	1,647	1,314	1,340	1,264		1,669	2,044			⁴ 3,370	⁴ 2,604	-22.7
Stocks, end of month.....	thous. of sq. ft..	19,027	17,641	17,977	18,172		17,489	18,145					
Terra cotta, new orders:													
Quantity.....	net tons..	7,452	8,307	8,048	5,900	5,645	11,270	9,961	-4.3	-43.3	31,287	19,593	-37.4
Value.....	thous. of dolls..	790	870	839	636	578	1,196	1,172	-9.1	-50.7	3,458	2,053	-40.6
Plate glass:													
Production, polished.....	thous. of sq. ft..	12,131	8,482	10,018	9,804		11,289	13,144					
Roofing													
Roofing, felt:													
Production, dry felt.....	tons..	19,249	16,191	21,042	15,743	19,390	24,271	28,153	+23.2	-31.1	72,257	56,175	-22.3
Stocks, end of month, dry felt.....	tons..	5,009	4,970	6,382	7,087	6,811	3,274	3,102	-3.9	+119.6			
Prepared roofing, shipments:													
Total.....	thous. of sqs..	2,326	2,085	2,383	1,556	2,240	3,374	4,239	+65.2	-47.2	10,033	5,979	-40.4
Smooth roll.....	thous. of sqs..	1,161	950	1,224	709	1,062	1,799	2,084	+49.8	-49.0	5,208	2,995	-42.5
Grit roll.....	thous. of sqs..	532	509	493	338	581	717	1,039	+71.9	-44.1	2,241	1,412	-37.0
Shingles—													
Strip, patented, and hexagon.....	thous. of sqs..	510	482	598	252	484	745	948	+92.1	-48.9	2,208	1,334	-39.6
Individual and single thickness.....	thous. of sqs..	123	94	67	57	113	113	167	+98.2	-32.3	376	237	-37.0
BUILDING EQUIPMENT													
Enameled Ware													
Baths:													
Shipments.....	pieces..	50,417	46,715	40,967	46,204	59,887	66,221	82,897	+29.6	-27.8	218,533	147,058	-32.7
Stocks, end of month.....	pieces..	166,397	163,728	173,523	179,512	179,910	207,324	215,000	+0.2	-16.3			
New orders.....	pieces..	46,374	52,592	32,558	64,732	68,672	73,997	99,039	+6.1	-30.7	240,027	165,962	-30.9
Unfilled orders, end of month.....	pieces..	41,776	40,568	29,774	49,637	56,420	42,556	54,746	+13.7	+3.1			
Lavatories:													
Shipments.....	pieces..	66,951	66,300	53,122	60,603	81,208	80,420	94,321	+34.0	-13.9	256,442	194,933	-24.0
Stocks, end of month.....	pieces..	173,570	155,189	163,283	166,201	170,629	255,596	278,137	+2.7	-38.7			
New orders.....	pieces..	50,899	60,575	40,836	101,899	85,950	88,671	107,878	-15.7	-20.3	277,163	228,685	-17.5
Sinks:													
Shipments.....	pieces..	68,675	65,947	58,343	62,530	79,501	79,162	97,429	+27.8	-18.0	269,912	200,774	-25.6
Stocks, end of month.....	pieces..	248,685	234,340	251,446	269,281	248,429	304,051	318,069	-7.7	-21.9			
New orders.....	pieces..	63,073	55,271	49,776	91,348	83,230	88,647	107,127	-10.0	-23.2	282,640	224,354	-20.6
Miscellaneous sanitary ware:													
Shipments.....	pieces..	28,557	27,642	24,288	26,425	33,174	33,974	36,152	+25.5	-8.2	111,323	83,887	-24.6
Stocks, end of month.....	pieces..	123,138	122,228	113,355	117,678	145,803	141,960	149,013	+23.9	-2.2			
New orders.....	pieces..	27,606	25,074	23,009	31,128	36,614	37,136	40,050	+17.6	-8.6	119,222	90,751	-23.9
Small ware (all except baths):													
Unfilled orders, end of month.....	pieces..	152,527	120,824	86,492	160,775	164,470	171,204	151,113	+2.3	+8.8			
Vitreous china plumbing fixtures:													
New orders.....	pieces..	215,092	201,858	200,253	257,783	154,808	485,657	207,681	-39.9	-25.5	970,388	612,844	-36.8
Shipments.....	pieces..	174,149	170,381	205,673	180,683	206,265	253,235	256,249	+14.2	-19.5	770,586	592,621	-23.1
Unfilled orders, end of month.....	pieces..	410,291	441,768	436,348	515,340	463,883	637,996	589,428	-10.0	-21.3			
Stocks, end of month.....	pieces..	624,472	640,171	632,740	642,888	644,609	540,639	549,410	+0.3	+17.3			
Porcelain plumbing fixtures:													
Net new orders.....	pieces..	6,228	6,452	10,330	6,721	9,044	12,381	14,479	+34.6	-37.5	39,425	26,095	-33.8
Shipments.....	pieces..	6,541	4,257	5,137	4,240	5,378	9,219	9,483	+26.8	-43.3	30,278	14,945	-50.6
Unfilled orders, end of month.....	pieces..	23,832	25,778	30,374	32,781	35,961	36,798	40,047	+9.7	-10.2			
Stocks, end of month.....	pieces..	39,798	38,226	37,815	39,352	39,198	45,769	46,980	-0.4	-16.6			
Plumbing fixtures, 6 pieces.....	dollars..	100.58	100.58	100.55	10,869	104.51	98.41	98.51	+0.8	+6.1			
Illuminating Glassware													
Production:													
Total.....	number of turns..	3,995	3,471	2,847	2,636	2,667	2,974	3,256	+1.2	-18.1	10,180	8,150	-19.9
Ratio to capacity.....	per ct. of capacity..	53.2	47.0	35.4	35.5	34.4	42.6	42.9	-3.1	-19.8			
New orders.....	per ct. of capacity..	44.4	35.1	35.6	35.6	38.6	42.8	46.8	+8.4	-17.5			
Shipments.....	per ct. of capacity..	49.0	40.0	34.8	36.4	37.1	42.5	41.8	+1.9	-11.2			
Unfilled orders, end													
of month.....	number of weeks' supply..	1.3	1.0	1.1	1.1	1.0	1.0	1.1	-9.1	-9.1			
Stocks, end of mo.....	number of weeks' supply..	4.8	5.2	5.4	5.5	6.0	5.8	5.5	+9.1	+9.0			
Furniture													
Household furniture and case goods:													
Southeastern district—													
Shipments.....	dolls., av. per firm..	61,523	35,891	46,398	56,664	54,203	56,778	64,527	-4.3	-16.0	172,858	157,265	-9.0
Unfilled orders.....	dolls., av. per firm..	42,811	30,135	46,593	39,067	30,837	51,676	40,469	-21.1	-23.8			
Grand Rapids district—													
Unfilled orders, end													
of month.....	No. days' production..	42	32	29	27	24	36	37	-11.1	-35.1			
New orders.....	No. days' production..	28	11	21	16	15	23	27	-6.2	-44.4			
Shipments.....	No. days' production..	27	18	21	18	16	23	24	-11.1	-33.3			
Outstanding accounts,													
end of month.....	No. days' sales..	57	50	48	31	42	90	49	+35.5	-14.3			
Cancellations.....	per ct. new orders..	13.0	31.0	17.0	11.0	13.0	9.0	6.0	+18.2	+116.7			
Plant operation.....	per ct. full time..	94.0	89.0	79.0	72.0	70.0	95.0	93.0	-2.8	-24.7			

² Revised.⁴ Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	BUILDING EQUIPMENT—Continued											
Furniture—Continued												
Steel furniture:												
Business group—												
Shipments.....thous. of dolls.	2,631	2,782	² 2,891	² 2,550	2,701	3,288	2,975	+5.9	-9.2	9,924	8,142	-18.0
New orders.....thous. of dolls.	2,900	2,583	² 2,886	² 2,370	2,637	3,109	2,931	+11.3	-10.0	9,985	7,893	-21.0
Unfilled orders, end mo. thous. of dolls.	2,345	2,166	² 1,862	² 1,683	1,618	2,419	2,354	-3.9	-31.3			
Shelving—												
Shipments.....thous. of dolls.	860	856	² 675	² 683	812	974	1,110	+18.9	-26.8	2,986	2,170	-27.3
New orders.....thous. of dolls.	901	735	² 725	² 759	834	919	1,146	+9.9	-27.2	3,165	2,318	-26.8
Unfilled orders, end mo. thous. of dolls.	950	824	² 706	² 782	808	766	802	+3.3	+0.7			
PLYWOOD AND VENEER												
Plywood:												
New orders.....thous. of sq. ft. of surface	4,318	6,465	9,258	4,585	3,911			-14.7				
Shipments.....thous. of sq. ft. of surface	5,039	4,150	5,120	4,810	4,289			-10.8				
Unfilled orders, end of month, thous. of sq. ft. of surface	10,104	10,984	14,641	13,416	12,422			-7.4				
Rotary-cut veneer:												
Receipts.....number of carloads	184	214	149	209	203	140	143	-2.9	+42.0	458	561	+22.5
Purchases.....number of carloads	141	161	207	211	120	186	451	-43.1	-73.4	878	538	-38.7
Bushel baskets:												
Production.....dozens	191,120	194,958	121,580	152,751		134,581	187,881			⁴ 269,671	⁴ 274,331	+1.7
Shipments.....dozens	94,347	170,138	84,212	101,721		68,655	140,205			⁴ 195,257	⁴ 185,933	-4.8
Stocks, end of month.....dozens	525,562	558,489	395,866	446,004		394,452	480,769					
GLASS CONTAINERS												
Actual production:												
Quantity.....gross	2,274	1,963	2,336	2,074	2,527	2,261	2,574	+21.8	-1.8	7,202	6,937	-3.7
Relation to capacity.....per cent	69.0	62.0	70.1	67.3	75.8	76.1	78.8	+12.6	-3.8			
New orders.....gross	2,501	4,171	4,056	2,363	2,165	2,797	2,562	-8.4	-15.5	8,448	8,584	+1.6
Shipments.....gross	2,005	1,705	2,110	2,011	2,437	2,139	2,530	+21.2	-3.7	7,104	6,558	-7.7
Unfilled orders, end of month.....gross	8,571	11,434	13,011	12,636	12,111	10,749	10,518	-4.2	+15.1			
Stock, end of month.....gross	6,387	6,648	6,858	6,868	6,962	6,552	6,595	+1.4	+5.6			
CHEMICALS AND OILS												
Chemicals												
Sulphuric acid:												
Exports.....thous. of lbs.	460,174	914,769	882,315	344,127	335,773	626,792	704,726	-2.4	-52.4	1,760,782	1,562,215	-11.3
Price, wholesale.....dolls. per 100 lbs.	.78	.78	.78	.78	.78	.78	.78	0.0	0.0			
Nitrate of soda:												
Imports.....long tons	43,047	65,569	89,421	85,837	106,521	146,304	101,297	+24.1	+5.2	331,299	281,779	-14.9
Production in Chile.....metric tons	261,000	285,500	280,000			255,500						
Potash salts:												
Imports (commercial).....long tons	23,603	23,237	44,077	40,811	39,903	28,489	22,116	-2.2	+80.4	75,329	124,791	+65.7
Sales in Germany (K ₂ O content).....metric tons												
	84,670	99,594	186,000	202,711		144,676	233,000			⁴ 309,412	⁴ 388,711	+25.6
Superphosphate (acid phosphate):												
Production.....short tons	346,785	354,226	² 445,128	349,572		² 293,436	282,504			⁴ 649,801	⁴ 794,700	+22.3
Stocks, end of month.....short tons	1,750,442	2,002,935	² 2,224,138	2,220,903		² 2,191,231	1,558,588					
Shipments.....short tons	77,647	77,269	² 116,759	186,444		² 176,615	414,243			⁴ 295,240	⁴ 303,203	+2.7
Fertilizer:												
Exports.....long tons	101,823	147,483	104,221	163,776	153,539	100,508	165,551	-6.3	-7.3	365,810	421,536	+15.2
Consumption, Southern States.....short tons	60,692	94,958	504,440	1,071,004	1,877,961	817,359	² 1,117,969	+75.3	-11.3	3,387,827	3,453,405	+1.9
Crude arsenic:												
Production.....short tons	1,203	2,049	1,079	1,933		1,262	1,307			⁴ 2,398	⁴ 3,012	+25.6
Stocks, end of month.....short tons	3,112	3,774	3,677	4,576		2,782	2,418					
Refined arsenic:												
Production.....short tons	1,197	1,063	742	808		900	945			⁴ 1,813	⁴ 1,550	-14.5
Stocks, end of month.....short tons	3,993	4,131	3,879	3,157		3,643	3,458					
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs.	321	193	151	182	119	188	157	-34.6	-24.2	437	452	+3.4
Coal tar.....thous. of lbs.	20	24	2,052	2,320	3,347	29	2,305	+44.3	+45.2	2,392	7,719	+222.7
Price index numbers:												
Crude drugs.....rel. to Aug., 1914	176	172	170	169	167	195	194	-1.2	-13.9			
Essential oils.....rel. to Aug., 1914	155	146	133	123	118	195	206	-4.1	-42.7			
Drugs and pharmaceuticals.....rel. to Aug., 1914												
	177	177	177	176	176	164	164	0.0	+7.3			
Chemicals.....rel. to 1927	100	100	99	98	98	100	101	0.0	-3.0			
Oils and fats.....rel. to 1927	99	98	94	95	92	101	101	-3.2	-8.9			
Wood Chemicals												
Acetate of lime:												
Production—												
United States.....thous. of lbs.	11,982	11,666	11,798	9,588	11,188	11,400	12,397	+16.7	-9.8	35,792	32,574	-9.0
Canada.....thous. of lbs.	1,027	1,246	1,545	² 1,164	1,067	1,090	1,150	-8.3	-7.2	3,503	3,776	+7.8
Shipments—												
United States.....thous. of lbs.	10,661	6,729	3,921	4,616	8,025	11,108	12,230	+73.9	-34.4	34,863	16,561	-52.5
Canada.....thous. of lbs.	943	248	178	² 593	451	1,074	1,165	-23.9	-61.3	3,453	1,222	-64.6
Stocks, end of month—												
United States.....thous. of lbs.	2,826	7,761	15,536	20,719	23,771	1,739	1,932	+14.7				
Canada.....thous. of lbs.	172	1,111	2,498	² 3,140	3,620	189	172	+15.3				
Exports.....thous. of lbs.	13					16	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			

² Revised.⁴ Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
CHEMICALS AND OILS—Continued												
Wood Chemicals—Continued												
Methanol, crude:												
Production—												
United States.....gallons..	705,320	830,331	715,886	615,032	657,853	685,567	725,662	+7.0	-9.3	2,111,842	1,988,771	-5.8
Canada.....gallons..	45,242	57,587	65,090	² 53,587	48,260	46,067	51,303	-9.9	-5.9	150,295	166,937	+11.1
Stocks at crude plants, end of month—												
United States.....gallons..	273,097	247,360	389,876	510,215	644,320	227,515	275,361	+26.3	+134.0			
Canada.....gallons..	14,469	26,580	38,408	27,033	26,519	35,693	30,003	-1.9	-11.6			
Stocks at refineries and in transit—												
United States.....gallons..	615,852	728,473	903,304	838,421	864,600	153,423	147,531	+3.1	+486.0			
Canada.....gallons..	30,510	11,513	9,038	16,400	17,299	47,832	59,623	+5.5	-71.0			
Exports.....gallons..	83,654	11,791	47,571	15,691	56,113	37,213	23,478	+257.6	+97.0	109,606	119,375	+8.9
Wood at chemical plants:												
Consumption—												
United States.....cords..	71,209	70,279	73,326	60,416	67,774	69,760	74,504	+12.2	-9.0	217,572	201,516	-7.4
Canada.....cords..	5,436	6,720	7,625	² 5,880	5,261	5,824	6,289	-10.5	-16.3	18,743	18,766	+0.1
Stocks, end of month—												
United States.....cords..	500,387	486,236	601,972	488,884	478,407	483,150	457,884	-2.1	+4.5			
Canada.....cords..	71,015	70,756	71,022	² 80,717	80,717	74,100	73,976		+9.1			
Daily capacity—												
Total.....cords..	3,246	3,246	3,246	3,246	3,246	3,336	3,336	0.0	-2.7			
Shutdown.....cords..	329	302	222	416	535	334	324	+28.6	+65.1			
Methanol, refined:												
Production—												
United States.....gallons..	488,212	432,978	248,723	394,647	398,476	449,800	494,435	+1.0	-19.4	1,438,736	1,041,846	-27.6
Canada.....gallons..	58,150	72,200	41,500	47,100	44,200	47,700	47,500	-6.2	-6.9	155,000	132,800	-14.3
Stocks, end of month—												
United States.....gallons..	755,326	795,868	695,155	705,258	632,705	550,702	681,815	-10.3	-7.2			
Canada.....gallons..	44,164	32,175	28,405	37,630	40,905	38,393	36,149	+8.7	+13.2			
Shipments.....gallons..												
United States.....gallons..	412,683	478,056	425,071	451,173	522,153	466,621	518,906	+15.7	+0.6	1,492,151	1,398,397	-6.3
Canada.....gallons..	46,335	34,803	41,274	30,484	33,688	33,623	43,835	+10.5	-23.2	125,137	105,446	-15.7
Price, wholesale, N. Y. ....dolls. per gal.	.52	.51	.47	.46	.43	.58	.58	-6.5	-25.9			
Ethyl Alcohol												
Production.....thous. of gals.	20,898	16,262	11,601	10,943	10,151	13,830	14,858	-7.2	-31.7	43,970	32,695	-25.6
Withdrawn for denaturation.....thous. of gals.	20,999	18,861	11,174	9,801	8,881	11,813	13,090	-9.4	-32.2	38,814	29,856	-23.1
Warehouse stocks, end of month.....thous. of gals.	11,462	8,199	7,298	7,496	7,616	9,662	10,424	+1.6	-26.9			
Explosives												
(Black powder, permissible, and other high explosives)												
Production.....thous. of lbs.	36,134	31,015	31,986	33,244	30,221	35,392	34,485	-9.1	-12.4	103,473	95,451	-7.8
Shipments.....thous. of lbs.	37,068	29,236	31,709	31,574	30,534	34,322	33,168	-3.3	-7.9	103,066	93,817	-9.0
New orders.....thous. of lbs.	35,554	29,784	30,828	30,584	30,059	32,606	32,543	-1.7	-7.6	100,231	91,471	-8.7
Stocks, end of month.....thous. of lbs.	16,734	18,311	18,636	20,522	20,295	19,151	20,366	-1.1	-0.3			
Naval Stores												
Turpentine:												
Gum—												
Net receipts, southern ports.....barrels	33,813	28,921	10,237	5,075	9,779	4,758	8,440	+92.7	+15.9	21,373	25,091	+17.4
Stocks, at port, end month.....barrels	68,546	68,432	58,485	45,338	40,078	67,956	48,306	-11.6	-17.2			
Price, southern, N. Y. ....dolls. per gal.	.53	.54	.55	.55	.56	.58	.58	+1.9	-3.4			
Turpentine (wood)—												
Production.....barrels	7,498	7,068	7,510	7,478	8,129	6,436	7,059	+8.7	+15.2	20,842	23,117	+10.9
Stocks, end of month.....barrels	7,289	8,889	10,581	12,190	14,126	7,648	6,773	+15.9	+108.6			
Rosin:												
Gum—												
Net receipts, southern ports.....barrels	139,264	128,057	50,791	30,605	40,401	29,284	37,733	+32.0	+7.1	112,220	121,797	+8.5
Stocks at 3 ports, end month.....barrels	256,895	257,595	221,568	184,451	149,232	177,232	100,722	-19.1	+48.2			
Price, B. New York.....dolls. per bbl.	8.79	8.26	8.05	7.59	7.26	8.30	7.86	-4.3	-7.6			
Wood—												
Production.....bls.	40,678	36,628	40,954	39,615	44,964	33,152	37,361	+13.5	+20.4	108,278	125,533	+15.9
Stocks, end of the month.....barrels	88,083	88,908	90,258	88,385	91,498	126,264	128,665	+3.5	-28.9			
Pine oil:												
Production.....gallons..	249,603	216,330	254,894	238,944	280,560	204,700	235,445	+17.4	+19.2	678,848	774,398	+14.1
Stocks, end of month.....gallons..	946,258	980,202	1,005,571	1,096,756	1,211,827	899,181	888,915	+10.5	+36.3			
Fats and Oils												
Total vegetable oils and copra:												
Exports.....thous. of lbs.	3,362	3,328	4,666	3,814	4,618	3,637	2,608	+21.1	+77.1	9,129	13,098	+43.5
Imports.....thous. of lbs.	67,961	80,124	84,194	67,603	84,600	80,125	85,328	+25.1	-0.9	239,714	236,397	-1.4
Copra, imports.....short tons	19,722	15,022	18,488	26,376	29,748	22,209	31,587	+12.8	-5.8	77,270	74,612	-3.4
Copra or coconut oil:												
Imports.....thous. of lbs.	24,728	39,775	37,699	19,213	32,771	35,264	30,842	+70.6	+6.3	101,270	89,683	-11.4
Consump. in oleomargarine.....thous. of lbs.	16,803	17,917	18,490	14,356	14,164	15,221	15,587	-1.3	-9.1	46,263	47,010	+1.6
Oleomargarine:												
Production.....thous. of lbs.	33,432	32,883	32,540	28,402	26,023	28,943	29,718	-8.4	-12.4	88,135	86,965	-1.3
Consumption.....thous. of lbs.	35,281	32,145	30,309	30,793	23,890	32,713	28,210	-22.4	-15.5	88,820	84,992	-4.3
Animal glues:												
Shipments.....thous. of lbs.	6,146	5,757	6,613	5,214	5,165	6,435	6,825	-0.9	-24.3	19,368	16,992	-12.3
Production, quarterly.....thous. of lbs.		³ 28,891			³ 29,389		³ 27,575	+1.7	+6.6			
Stocks, end of quarter.....thous. of lbs.		³ 28,654			³ 36,572		³ 32,520	+27.6	+12.5			
Edible gelatin:												
Production, quarterly.....thous. of lbs.		³ 5,054			³ 5,271		³ 5,253	+4.3	+0.3			
Stocks, end of quarter.....thous. of lbs.		³ 7,545			³ 7,980		³ 8,570	+5.8	-6.9			

² Revised.³ Quarter ending in month indicated.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	CHEMICALS AND OILS—Continued											
Cottonseed												
Cottonseed:												
Receipts at mills.....short tons..	763,046	566,192	321,230	287,464	203,048	161,020	2 107,791	-29.4	+88.4	683,516	811,742	+18.8
Consumption (cruh).....short tons..	785,271	618,821	665,552	520,030	400,478	512,083	2 366,748	-23.0	+9.2	1,626,571	1,586,060	-2.5
Stocks at mills, end of month.....short tons..	1,159,195	1,106,566	760,745	528,006	330,560	648,135	2 388,079	-36.4	-14.8			
Cottonseed oil:												
Crude—												
Production.....thous. of lbs..	245,396	192,001	207,046	163,759	129,753	165,497	2 120,189	-20.8	+8.0	522,602	500,558	-4.2
Stocks, end of month.....thous. of lbs..	124,002	116,150	126,525	109,070	101,922	126,357	2 107,121	-6.6	-4.9			
Refined—												
Production.....thous. of lbs..	218,269	187,050	172,089	160,524	116,965	168,453	2 126,884	-27.1	-7.8	498,695	449,578	-9.8
Stocks, end of month.....thous. of lbs..	326,843	422,335	465,226	512,572	535,891	567,515	2 585,343	+4.5	-8.4			
Price, yellow, prime, New York.....dolls. per lb..	.090	.087	.084	.084	.084	.109	.106	0.0	-20.8			
Consumption in oleomargarine.....thous. of lbs..	2,852	3,511	2,629	2,351	2,567	2,314	2,387	+9.2	+7.5	6,984	7,547	+8.1
Cottonseed cake and meal:												
Production.....short tons..	349,335	272,531	297,234	227,931	179,864	234,766	2 167,527	-21.1	+7.4	740,575	705,029	-4.8
Stocks, end of month.....short tons..	199,181	203,554	206,062	205,909	170,184	257,932	2 238,654	-17.3	-28.7			
Exports.....short tons..	23,714	30,894	25,063	4,918	4,852	27,011	23,790	-1.3	-79.6	84,936	34,833	-59.0
Flaxseed												
Minneapolis and Duluth:												
Receipts.....thous. of bush..	1,313	575	251	119	172	346	369	+44.5	-53.4	1,084	542	-50.0
Shipments.....thous. of bush..	1,445	592	163	162	133	399	351	-17.9	-62.1	1,033	458	-55.7
Stocks, end of month.....thous. of bush..	594	882	877	745	705	727	603	-5.4	+16.9			
Imports.....thous. of bush..	1,686	1,200	1,074	2,279	3,233	2,529	2,737	+41.9	+18.1	6,677	6,586	-1.4
Mill receipts at Duluth—												
Superior.....thous. of bush..	96	4,919		2,938		34	13			4 103	4 2,938	
Price, No. 1, Minneapolis.....dolls. per bush..	3.24	3.22	3.08	3.05	2.92	2.55	2.49	-4.3	+17.3			
Linseed oil:												
Shipments from Minneapolis.....thous. of lbs..	8,467	5,043	5,198	5,493		13,214	14,602			4 25,996	4 10,691	-58.9
Price, New York.....dolls. per lb..	.150	.147	.140	.141	.140	.102	.102	-0.7	+37.3			
Linseed cake and meal:												
Shipments from Minneapolis.....thous. of lbs..	17,442	18,977	20,859	13,600		23,479	19,427			4 47,890	4 34,459	-28.0
Exports.....thous. of lbs..	53,104	48,745	52,833	33,970	52,082	44,233	2 77,748	+53.3	-33.0	167,699	138,885	-17.2
FOODSTUFFS												
Wheat												
Visible supply, end of month:												
United States.....thous. of bush..	191,833	185,113	168,925	160,375	153,290	126,503	125,351	-4.4	+22.3			
Canada.....thous. of bush..	217,102	217,903	210,643	202,282	192,754	184,467	181,676	-4.7	+6.1			
Stocks, millers' end of quarter.....thous. of bush..		2 150,048		2 96,566			2 107,215	-35.6	-9.9			
Receipts, principal markets.....thous. of bush..	20,625	22,887	17,530	19,920	16,683	28,698	27,220	-16.2	-38.7	78,455	54,133	-31.0
Shipments, principal markets.....thous. of bush..	24,121	16,402	14,170	11,234	12,160	15,192	16,926	+8.2	-28.2	48,880	37,564	-23.2
Exports:												
United States—												
Wheat only.....thous. of bush..	9,977	7,067	8,245	5,185	2,414	3,214	3,487	-53.4	-30.8	10,100	15,844	+56.9
Including wheat flour.....thous. of bush..	15,181	12,121	13,825	9,850	7,113	8,704	9,153	-23.9	-22.3	27,416	30,288	+10.5
Canada—												
Including wheat flour.....thous. of bush..	24,866	18,684	7,258	8,898	14,657	19,711	27,566	+64.7	-46.8	72,307	30,813	-57.4
Prices:												
No. 1, Northern Spring, Minneapolis.....dolls. per bush..	1.28	1.31	1.27	1.25	1.12	1.28	1.25	-10.4	-10.4			
No. 2, Red Winter, St. Louis.....dolls. per bush..	1.29	1.35	1.34	1.23	1.18	1.40	1.35	-4.1	-12.6			
No. 2 Hard Winter, Kansas City.....dolls. per bush..	1.19	1.21	1.19	1.13	1.02	1.18	1.16	-9.7	-12.1			
Wheat Flour												
Grindings of wheat:												
United States.....thous. of bush..	43,913	41,062	43,812	2 40,506	43,096	41,292	42,004	+6.4	+2.6	129,063	127,414	-1.3
Canada.....thous. of bush..	7,261	4,837	5,201	4,702	5,475	7,286	7,455	+16.4	-27.6	22,535	15,378	-31.8
Production:												
United States—												
Actual.....thous. of bbls..	9,538	8,905	9,510	2 8,783	9,350	9,026	9,207	+6.5	+1.6	28,247	27,643	-2.1
Prorated.....thous. of bbls..	10,740	9,770	9,945	9,323		2 10,026	10,360			4 20,834	4 19,271	-7.5
Canada.....thous. of bbls..	1,629	1,073	1,168	1,051	1,219	1,600	1,631	+16.0	-25.3	4,929	3,438	-30.2
Grain offal, production.....thous. of lbs..	776,745	728,157	772,726	2 717,926	763,594	716,899	725,848	+6.4	+5.2	2,235,327	2,254,246	+0.8
Capacity operated, flour mills..... per cent..	58	54	56	58	55	60	54	-5.2	+1.9			
Consumption (computed).....thous. of bbls..	9,884	8,043	9,808	8,098		8,986	9,101			4 18,215	4 17,906	-1.7
Stocks, all positions, end of month (computed).....thous. of bbls..	8,400	9,100	8,000	8,800		7,400	7,400					
Stocks held by mills, end of quarter.....thous. of bbls..		2 4,724			2 4,239		2 4,356	-10.3	-2.7			
Exports:												
United States.....thous. of bbls..	1,156	1,123	1,240	925	1,044	1,220	1,259	+12.9	-17.1	3,848	3,209	-16.6
Canada.....thous. of bbls..	538	605	503	481	681	998	1,413	+41.6	-51.8	3,344	1,665	-50.2
Wholesale prices:												
Standard patents, Minn.....dolls. per bbl..	6.69	6.88	6.75	6.39	6.23	6.81	6.67	-2.5	-6.6			
Winter straights, Kansas City.....dolls. per bbl..	5.92	5.95	5.84	5.63	5.26	5.73	5.72	-6.6	-8.0			
Corn												
Exports, including meal.....thous. of bush..	752	870	819	916	1,122	8,087	5,021	+22.5	-77.7	25,465	2,857	-88.8
Visible supply, end of month.....thous. of bush..	3,646	8,469	16,286	24,270	25,129	36,265	37,100	+3.5	-32.3			
Receipts, principal markets.....thous. of bush..	18,526	31,221	31,344	29,564	20,679	29,229	21,562	-30.1	-4.1	90,667	81,587	-10.0
Shipments, prin. markets.....thous. of bush..	9,287	15,493	16,438	13,785	14,133	13,951	13,461	+2.5	+5.0	47,250	44,356	-6.1

2 Revised.

3 Quarter ending in month indicated.

4 Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
FOODSTUFFS—Continued												
Corn—Continued												
Grindings (starch, glucose).... thous. of bush..	6,453	6,053	7,622	6,568	6,065	8,719	7,085	-7.7	-14.4	24,168	20,255	-16.2
Prices:												
No. 3, Yellow, Chicago.... dolls. per bush..	.88	.88	.85	.82	.80	.94	.94	-2.4	-14.9			
No. 3, Yellow, Kansas City..... dolls. per bush..	.87	.84	.82	.78	.76	.87	.88	-2.6	-13.6			
No. 3, White, Chicago.... dolls. per bush..	.87	.88	.86	.84	.81	.95	.94	-3.6	-13.8			
Oats												
Receipts, principal markets.... thous. of bush..	7,098	7,084	6,741	7,336	8,736	9,562	8,535	+19.1	+2.4	28,016	22,813	-18.6
Visible supply, end of month.... thous. of bush..	29,720	29,314	25,220	22,527	18,929	16,819	14,071	-16.0	+34.5			
Exports, including meal.... thous. of bush..	955	443	377	389	224	760	839	-42.4	-73.3	2,872	990	-65.5
Price, No. 3, White, Chicago.... dolls. per bush..	.45	.45	.45	.44	.43	.50	.48	-2.3	-10.4			
Grindings, Canada.... thous. of bush..	908	793	661	838	798	925	925	-4.8	-13.7	2,674	2,297	-14.1
Production, oatmeal and rolled oats, Canada..... thous. of lbs..	10,457	8,891	7,318	10,263	9,649	11,710	12,133	-6.0	-20.5	33,799	27,230	-19.4
Barley												
Receipts, principal markets.... thous. of bush..	3,808	3,848	2,826	3,080	3,153	4,960	3,891	+2.4	-19.0	12,821	9,059	-29.3
Visible supply, end of month.... thous. of bush..	9,886	9,927	4,894	8,545	7,837	9,293	8,459	-8.3	-7.4			
Exports.... thous. of bush..	1,038	1,213	734	1,017	569	3,244	2,209	-44.1	-74.2	7,730	2,320	-70.0
Price, No. 2, Minneapolis.... dolls. per bush..	.60	.59	.58	.57	.55	.70	.67	-3.5	-17.9			
Rye												
Receipts, principal markets.... thous. of bush..	1,496	5,946	1,250	505	598	1,119	914	+18.4	-34.6	3,078	2,353	-23.6
Visible supply, end of month.... thous. of bush..	10,588	8,656	9,184	9,389	11,175	6,239	6,725	+19.0	+66.2			
Exports, including flour.... thous. of bush..	22	26	28	36	64	126	97	+77.8	-34.0	420	128	-69.5
Price, No. 2, Minneapolis.... dolls. per bush..	.95	.98	.91	.78	.66	1.05	1.00	-15.4	-34.0			
Total Grains												
Total grains exports, incl. flour.... thous. of bush..	17,948	14,673	15,783	11,707	9,093	20,921	17,319	-22.3	-47.5	63,903	36,583	-42.8
Rice												
Southern paddy, receipts at mills..... bbls..	1,415,999	797,381	869,702	961,209	283,753	591,678	439,439	-70.5	-35.4	1,652,213	2,114,664	+28.0
Shipments:												
Total from mills..... pockets (100 lbs.)..	1,133,769	1,023,346	1,073,165	1,005,421	793,008	816,370	766,365	-21.1	+3.5	2,555,991	2,871,594	+12.3
New Orleans..... pockets (100 lbs.)..	178,168	132,592	88,638	81,050	80,506	122,455	116,548	-0.7	-30.9	385,345	250,194	-35.1
Stocks, end of month.... pockets (100 lbs.)..	2,551,417	2,439,182	2,317,594	2,360,083	1,899,421	2,354,518	2,057,678	-19.5	-7.7			
Exports..... pockets (100 lbs.)..	340,753	420,212	323,281	221,954	209,915	368,378	428,450	-5.4	-51.0	1,301,749	755,150	-42.0
Imports..... pockets (100 lbs.)..	12,494	53,488	34,334	20,273	25,889	29,251	18,647	+27.7	+38.8	124,491	80,496	-35.3
Fruits and Vegetables												
Apples:												
Cold-storage holdings, end of month.... thous. of bbls..	9,380	7,967	6,034	4,259	2,597	4,517	2,718	-39.0	-4.5			
Car-lot shipments.... carloads..	14,046	5,729	6,095	6,314	5,166	7,697	5,379	-18.2	-4.0	20,732	17,575	-15.2
Potatoes, car-lot shipments.... carloads..	15,299	14,826	19,857	19,993	21,681	19,868	22,334	+10.7	-2.9	61,681	61,131	-0.9
Onions, car-lot shipments.... carloads..	2,815	2,232	3,277	2,743	2,260	1,791	1,497	-17.6	-9.0	5,724	8,280	+44.7
Citrus fruits, car-lot shipments.... carloads..	8,936	10,927	10,091	10,187	10,705	13,338	15,144	+5.1	-29.3	43,708	30,983	-29.1
Hay												
Receipts..... tons..	4,442	5,048	6,107	6,071		6,932	5,981			13,962	12,178	-12.8
Cattle and Beef												
Cattle movements, primary markets:												
Receipts..... thousands..	1,943	1,555	1,639	1,326	1,547	2,195	1,450	+16.7	+6.7	4,284	4,512	+5.3
Shipments, total.... thousands..	1,012	627	623	508	592	405	497	+16.5	+19.1	1,463	1,723	+17.8
Shipments, stocker and feeder.... thousands..	556	255	233	201	207	117	162	+3.0	+27.8	457	641	+40.3
Local slaughter.... thousands..	958	923	995	806	919	790	928	+14.0	-1.0	2,779	2,720	-2.1
Beef products:												
Production, inspected.... thous. of lbs..	399,272	370,843	408,525	327,527	358,129	328,857	371,942	+9.3	-3.7	1,120,475	1,094,181	-2.3
Apparent consumption.... thous. of lbs..	386,168	364,142	415,507	333,556	371,202	339,194	389,662	+11.3	-4.7	1,159,841	1,120,265	-3.4
Exports.... thous. of lbs..	1,100	1,175	1,292	1,133	1,431	1,273	1,614	+26.3	-11.3	4,006	3,856	-3.7
Cold-storage holdings, end of month.... thous. of lbs..	93,444	103,883	99,020	95,598	88,722	88,771	81,607	-7.2	+8.7			
Prices:												
Cattle, corn-fed, Chicago.... dolls. per 100 lbs..	12.69	12.13	12.47	12.53	12.80	12.06	12.84	+2.2	-0.3			
Steer rounds, No. 2.... dolls. per lb..	.240	.240	.240	.236	.240	.209	.211	+1.7	+13.7			
Western dressed steers, N. Y. dolls. per lb..	.236	.235	.235	.223	.215	.215	.217	-3.6	-0.9			
Hogs and Pork												
Hog movements, primary markets:												
Receipts..... thousands..	3,933	4,256	4,720	3,791	3,294	4,000	3,436	-13.1	-4.1	12,569	11,805	-6.1
Shipments, total.... thousands..	1,396	1,449	1,797	1,491	1,451	1,502	1,365	-2.7	+6.3	4,731	4,739	+0.2
Shipments, stocker and feeder.... thousands..	52	53	38	56	58	49	72	+3.6	-19.4	168	152	-9.5
Local slaughter.... thousands..	2,543	2,801	2,905	2,297	1,853	2,484	2,073	-19.3	-10.6	7,823	7,055	-9.8
Pork products, total:												
Production, inspected.... thous. of lbs..	738,485	851,300	874,334	705,032	589,968	770,096	635,791	-16.3	-7.2	2,379,947	2,169,334	-8.8
Apparent consumption.... thous. of lbs..	657,403	602,470	692,820	489,976	531,514	537,342	551,810	+8.5	-3.7	1,717,461	1,714,310	-0.2
Exports.... thous. of lbs..	114,707	104,377	105,817	97,263	97,898	93,681	102,276	+0.7	-4.3	318,730	300,978	-5.6
Cold-storage holdings, end of month:												
Total.... thous. of lbs..	558,146	703,084	779,277	897,478	858,362	1,118,606	1,101,389	-4.4	-22.1			
Fresh and cured.... thous. of lbs..	489,629	620,986	687,106	785,564	753,218	944,742	921,961	-4.1	-18.3			

* Revised.

* Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	Novem-ber	Decem-ber	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
FOODSTUFFS—Continued												
Hogs and Pork—Continued												
Lard (included in pork products):												
Production.....	144,987	176,607	177,251	147,725	66,533	164,915	133,923			378,695	324,976	-14.2
Exports.....	83,257	80,053	73,291	65,953	66,533	65,924	70,572	+0.9	-5.7	226,633	205,777	-9.2
Cold-storage holdings, end of month.....	68,517	82,098	92,171	* 111,914	105,144	173,864	179,428	-6.0	-4.4			
Prices:												
Hogs, heavy, Chicago.....	9.27	9.47	9.61	10.41	9.83	10.13	11.39	-5.6	-13.7			
Ham, smoked, Chicago.....	.218	.215	.239	.252	.243	.231	.238	-3.6	+2.1			
Lard, prime contract, N. Y.....	.109	.108	.109	.112	.107	.123	.125	-4.5	-14.4			
Sheep and Lambs												
Sheep movement, primary market:												
Receipts.....	2,168	1,703	1,903	1,796	2,151	* 1,544	* 1,527	+19.8	+40.9	4,948	5,850	+18.2
Shipments, total.....	1,207	732	786	735	936	683	699	+27.3	+33.9	2,219	2,457	+10.7
Shipments, stocker and feeder.....	575	183	126	101	99	115	122	-2.0	-18.9	425	326	-23.3
Local slaughter.....	995	967	1,111	1,041	1,210	* 840	* 836	+16.2	+44.7	2,717	3,362	+23.7
Lamb and mutton:												
Production, inspected.....	45,233	43,742	50,289	49,564	56,494	38,424	40,888	+14.0	+38.2	124,797	156,347	+25.3
Apparent consumption.....	44,976	43,605	50,814	* 48,762	56,738	39,908	41,330	+16.4	+37.3	128,377	156,314	+21.8
Cold-storage holdings, end of month.....	5,194	5,317	4,667	* 5,408	5,168	3,252	3,109	-4.4	+66.2			
Prices:												
Sheep, ewes, Chicago.....	4.98	4.94	6.26	5.18	5.14	7.72	8.42	-0.8	-39.0			
Sheep, lambs, Chicago.....	11.97	12.00	12.68	10.44	9.73	15.59	16.19	-6.8	-39.9			
Miscellaneous Meats												
Cold-storage holdings, end of mo.....	72,744	89,742	89,144	* 89,970	85,862	91,363	90,129	-4.6	-4.7			
Total Meats												
Production, inspected.....	1,182,990	1,265,885	1,333,148	1,682,124	1,004,590	1,137,377	1,048,621	-7.2	-4.2	3,625,219	3,419,862	-5.7
Cold-storage holdings, end of mo.....	729,528	902,026	972,108	* 1,088,454	1,038,114	1,301,992	1,276,234	-4.6	-18.7			
Apparent consumption.....	1,088,547	1,010,217	1,159,141	* 872,294	959,454	916,444	* 982,802	+10.0	-2.4	3,005,875	2,990,889	-0.5
Poultry												
Receipts at 5 markets.....	73,662	77,325	33,386	24,800	6,954	20,672	17,116	-31.6	-0.9	68,757	75,140	+9.3
Cold-storage holdings, end of mo.....	115,876	140,723	141,552	* 133,172	105,649	89,088	68,728	-20.7	+53.7			
Fish												
Total catch, prin. ports.....	27,332	18,074	23,918	27,583	33,166	24,564	27,759	+20.2	+19.5	67,819	84,667	+24.8
Cold-storage holdings, 15th of mo.....	78,968	75,847	62,428	49,797	35,536	48,364	* 37,744	-28.6	-5.8			
Canned salmon:												
Shipments, United States.....	378,695	553,078	505,831	371,960	371,070	428,399	364,414	-0.2	+1.8	1,316,574	1,248,861	-5.1
Exports, Canada.....	177,252	159,488	71,285	91,823	85,427	73,556	89,225	-7.0	-4.3	367,877	248,535	-32.4
Butter												
Production (factory).....	90,631	94,350	103,949	96,206	108,619	92,020	105,171	+12.9	+3.3	292,425	308,774	+5.6
Receipts, 5 markets.....	38,228	39,843	43,507	41,014	47,179	41,557	46,186	+15.0	+2.2	132,668	131,700	-0.7
Cold-storage holdings, creamery, end of month.....	111,650	81,935	60,230	* 46,530	30,403	11,910	5,532	-34.4	+451.4			
Apparent consumption.....	153,125	160,464	160,417	141,901	162,969	143,208	157,670	+14.8	+3.4	458,335	465,287	+1.5
Wholesale price, New York.....	.43	.41	.37	.36	.37	.50	.48	+2.8	-22.9			
Cheese												
Total, all varieties:												
Production (factory).....	22,554	22,542	23,807	22,293	25,282	28,761	34,698	+13.4	-27.1	92,678	71,382	-23.0
Receipts, 5 markets.....	11,828	10,880	12,525	12,467	12,903	13,878	12,261	+3.5	+5.2	39,920	37,895	-5.1
Apparent consumption.....	37,112	33,695	40,424	33,807	36,957	36,450	34,612	+9.3	+6.8	111,254	111,188	-0.1
Cold-storage holdings, end mo.....	86,949	80,623	69,223	61,891	55,292	63,968	58,153	-10.7	-4.9			
Imports.....	6,902	7,015	5,361	4,395	5,247	5,687	5,423	+19.4	-3.2	18,401	15,003	-18.5
Exports, United States.....	130	241	181	198	171	194	278	-13.6	-38.5	716	550	-23.2
Exports, Canada.....	13,925	4,963	1,552	280	456	714	726	+62.9	-37.2	2,940	2,288	-22.2
American whole milk:												
Cold-storage holdings, end of month.....	71,065	63,478	53,672	47,818	41,970	49,546	45,105	-12.2	-7.0			
Wholesale price, New York.....	.24	.23	.21	.21	.21	.24	.24	0.0	-12.5			
Eggs												
Receipts, 5 markets.....	532	633	917	1,110	2,063	832	1,816	+85.9	+13.6	3,566	4,090	+14.7
Cold-storage holdings, end of month:												
Case.....	2,631	704	139	84	2,189	11	559		+291.6			
Frozen.....	61,772	53,644	44,080	35,192	49,787	38,250	34,918	+41.5	+42.6			
Milk												
Condensed milk:												
Total stocks, mfrs., end mo.—												
Case goods.....	27,126	25,462	21,740	18,671	17,495	8,463	8,677	-6.3	+101.6			
Bulk goods.....	24,514	23,606	23,475	* 20,495	20,423	5,826	6,633	+0.1	+209.4			
Unsold stocks, mfrs., end mo.—												
Case goods.....	21,732	20,341	16,502	14,077	13,235	3,227	3,841	-6.0	+244.6			
Bulk goods.....	6,855	7,600	6,289	* 4,685	4,719	2,669	2,799	+0.7	+68.6			
Exports.....	2,771	3,100	2,623	3,582	3,477	3,486	4,510	-2.9	-22.9	14,428	9,682	-32.9
Wholesale price, New York.....	6.13	6.13	6.13	6.13	6.13	6.18	6.18	0.0	-0.8			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930,	Mar., 1930,	1929	1930	
								from Feb., 1930	from Mar., 1929			
FOODSTUFFS—Continued												
Milk—Continued												
Evaporated milk:												
Manufacturers' stocks, end of mo.—												
Total, case goods.....thous. of lbs..	231,970	211,954	175,974	153,202	146,571	116,823	111,868	-4.3	+31.0			
Unsold, case goods.....thous. of lbs..	185,455	169,345	143,769	129,580	125,623	95,925	87,491	-3.1	+43.6			
Exports.....thous. of lbs..	4,767	5,339	5,839	5,121	5,369	6,006	7,768	+4.8	-30.9	20,395	16,329	-19.9
Wholesale price, New York, dolls. per case..	3.95	3.95	3.95	3.95	3.95	4.58	4.56	0.0	-13.4			
Production, condensed and evaporated milk.....thous. of lbs..	107,119	117,095	125,073	124,835	153,190	129,095	160,428	+22.7	-4.5	419,505	403,098	-3.9
Powdered milk:												
Manufg.' stocks, end mo.....thous. of lbs..												
Manufg.' stocks, end mo.....thous. of lbs..	29,616	31,061	29,833	26,199	25,611	11,525	14,022	-2.2	+82.6			
Exports.....thous. of lbs..	446	501	944	454	629	488	454	+38.5	-18.8	1,314	2,027	+54.3
Net new orders.....thous. of lbs..	6,927	6,845	8,956	8,767	8,741	6,982	8,024	-0.3	+8.9	22,347	26,464	+18.4
Fluid milk:												
Receipts—												
Boston (includ. cream).....thous. of qts..												
Boston (includ. cream).....thous. of qts..	18,990	18,224	19,192	17,149		15,560	18,443			32,191	36,341	+12.9
Greater New York.....thous. of qts..	111,999					102,039	116,025					
Production—												
Minneapolis, St. Paul.....thous. of lbs..												
Minneapolis, St. Paul.....thous. of lbs..	24,670	28,884	32,554			27,025	31,248					
Consumption in manufacture of oleomargarine.....thous. of lbs..	9,486	9,169	9,035	7,714	7,103	7,835	8,133	-7.9	-12.7	24,004	23,852	-0.16
Sugar												
Raw:												
Imports—												
From Hawaii, Porto Rico.....long tons..												
From Hawaii, Porto Rico.....long tons..	31,962	14,232	77,132	140,019	185,704	101,159	124,704	+32.6	+48.9	294,763	402,855	+36.7
From foreign countries.....long tons..	182,891	156,031	192,123	166,971	204,318	444,157	601,727	+22.4	-08.0	1,301,652	563,412	-56.7
Meltings, 3 ports.....long tons..	305,946	235,605	326,416	328,181	410,063	380,899	505,286	+25.0	-18.8	1,219,057	1,064,660	-12.7
Stocks at refineries, end month.....long tons..	728,484	682,429	616,247	570,970	529,067	381,067	559,993	-7.3	-5.5			
Refined:												
Shipments, 2 ports.....long tons..												
Shipments, 2 ports.....long tons..	37,394	45,152	60,224	42,906	68,838	63,778	73,231	+60.4	-6.0	187,035	171,968	-8.1
Stocks, 2 ports.....long tons..	43,783	46,243	32,994	32,746	42,405	37,044	49,451	+29.5	-14.2			
Exports, including maple.....long tons..	4,454	3,363	5,637	4,280	4,487	9,944	10,159	+4.8	-55.8	28,346	14,404	-49.2
Prices:												
Wholesale, 96° centrif., N. Y. dolls. per lb..												
Wholesale, 96° centrif., N. Y. dolls. per lb..	.038	.038	.037	.037	.036	.037	.037	-2.7	-2.7			
Wholesale, granulated, N. Y. dolls. per lb..	.050	.050	.051	.049	.049	.049	.049	0.0	+2.1			
Retail, granulated, N. Y. dolls. per lb..	.061	.059	.059	.059	.055	.060	.057	-6.8	-3.5			
Retail average, 51 cities, relative to 1913..	122	120	120	118	116	120	118	-1.7	-1.7			
Cuban movement (raw):												
Receipts at Cuban ports.....long tons..												
Receipts at Cuban ports.....long tons..	88,875	116,101	192,153	659,637	793,762	959,318	1,061,472	+20.3	-25.2	2,659,786	1,645,552	-38.1
Exports.....long tons..	174,904	192,160	145,189	179,432	153,000	468,615	659,501	-14.7	-76.8	1,365,466	477,621	-65.0
Stocks, end of month.....long tons..	254,694	181,460	312,187	815,389	1,411,983	947,380	1,296,744	+73.2	+8.9			
Candy												
Sales by manufacturers.....thous. of dolls..	37,673	33,734	24,538	24,893	27,312	28,045	29,705	+9.7	-8.1	83,802	76,743	-8.4
Coffee												
Imports.....thous. of bags..												
Visible supply:												
World.....thous. of bags..												
World.....thous. of bags..	4,979	5,079	5,119	5,322	5,264	5,022	4,983	-1.1	+5.6			
United States.....thous. of bags..	598	693	671	852	875	849	822	+2.7	+6.4			
Receipts, total, Brazil.....thous. of bags..	1,446	1,553	1,455	1,469	1,264	1,126	1,175	-14.0	+7.6	3,440	4,188	+21.7
Clearances:												
Total, Brazil, for world.....thous. of bags..												
Total, Brazil, for world.....thous. of bags..	1,214	1,199	1,470	1,427	1,169	1,165	1,041	-18.1	+12.3	3,382	4,066	+20.7
Total, Brazil, for U. S.....thous. of bags..	573	587	881	722	590	684	501	-18.3	+17.8	1,863	2,193	+17.2
Price, Rio No. 7, Brazil grades.....dolls. per lb..	.116	.099	.103	.105	.103	.184	.180	-1.9	-42.8			
Tea												
Imports.....thous. of lbs..	9,087	8,680	6,537	5,602	6,355	6,802	5,470	+13.4	+16.2	22,345	18,494	-17.2
Price, Formosa fine, New York.....dolls. per lb..	.310	.304	.300	.300	.300	.330	.330	0.0	-9.1			
Cocoa												
Shipments from the Gold and Nigerian Coasts, Africa.....long tons..												
Shipments from the Gold and Nigerian Coasts, Africa.....long tons..	40,483	36,748	43,838	29,551	25,543	39,993	35,396	-13.6	-27.8	135,252	98,932	-26.9
Imports.....long tons..	14,270	22,824	25,176	15,082	11,595	28,238	25,041	-23.1	-53.7	69,030	51,853	-24.9
Spot price, Accra, New York.....dolls..	.0920	.0931	.0938	.0925	.0875	.1083	.1088	-5.4	-19.6			
TOBACCO												
Consumption (tax-paid withdrawals):												
Large cigars.....thousands..												
Large cigars.....thousands..	622,938	410,863	418,900	426,522	454,766	437,476	491,305	+6.6	-7.4	1,356,497	1,300,188	-4.2
Small cigarettes.....thousands..	9,041,043	8,261,357	10,208,232	8,465,005	9,165,175	8,062,499	8,689,510	+8.3	+5.5	26,912,272	27,838,412	+3.4
Manufac. tobacco and snuff.....thous. of lbs..	28,342	24,682	33,014	30,308	31,458	29,033	31,663	+3.8	-0.6	93,906	94,780	+0.9
Exports:												
Unmanufactured.....thous. of lbs..												
Unmanufactured.....thous. of lbs..	72,609	66,504	46,885	57,037	54,887	48,703	30,673	-3.8	+78.9	125,180	158,809	+26.9
Cigarettes.....thousands..	433,294	683,757	465,464	430,886	497,814	926,297	799,935	+15.5	-37.8	2,736,600	1,394,164	-49.1
Sales of loose-leaf warehouses.....thous. of lbs..	151,945	73,484	60,907	23,079		80,574	25,726					
TRANSPORTATION												
River and Canal Cargo Traffic												
Panama Canal:												
Total cargo traffic.....thous. of long tons..												
Total cargo traffic.....thous. of long tons..	2,535	2,525	2,612	2,378	2,558	2,550	2,744	+7.6	-6.8	8,153	7,548	-7.4
In American vessels.....thous. of long tons..	1,271	1,219	1,198	1,058	1,272	1,138	1,229	+20.2	+3.5	3,585	3,528	-1.6
In British vessels.....thous. of long tons..	579	718	589	727	611	816	755	-16.0	-19.1	2,377	1,927	-18.9
Sault Ste. Marie canals.....thous. of short tons..	6,952	482										
New York State canals.....thous. of short tons..	333											
Cape Cod Canal.....short tons..	196,259	189,811	186,172	162,509	151,515	137,634	146,483	-6.8	+3.4	425,613	500,196	+17.5
Suez Canal.....thous. of metric tons..	2,726	2,919	2,744	2,474		2,682	3,157			4,572	4,5218	-8.0

2 Revised.

* Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930,	Mar., 1930,	1929	1930	
								from Feb., 1930	from Mar., 1929			
TRANSPORTATION—Continued												
River and Canal Cargo Traffic—Contd.												
Welland Canal.....short tons..	448,150	47,603										
St. Lawrence Canal.....short tons..	523,328	23,942										
Mississippi River Govt. barges.....short tons..	103,478	72,804	75,739	75,157	71,087	109,419	104,499	-5.4	-32.0	345,836	221,983	-35.8
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.....short tons..	1,034,382	757,527	578,224	709,242	838,991	525,700	840,604	+18.3	-0.2	1,844,569	2,126,457	+15.3
Allegheny River.....short tons..	317,967	156,993	93,825	61,420	174,445	80,683	187,400	+184.0	-6.9	357,023	329,690	-7.7
Monongahela River.....short tons..	2,367,506	2,173,207	2,134,161	2,179,305	2,363,728	1,960,686	2,382,405	+8.5	-0.8	6,630,632	6,677,194	+0.7
Ocean Traffic												
Clearances, vessels in foreign trade:												
Total.....thous. of net tons..	6,971	5,607	5,693	5,368	5,834	5,308	5,933	+8.7	-1.7	16,725	16,895	+1.0
American.....thous. of net tons..	2,982	2,078	2,023	1,977	2,116	1,909	2,145	+7.0	-1.4	6,004	6,116	+1.9
Foreign.....thous. of net tons..	3,989	3,529	3,670	3,391	3,718	3,399	3,788	+9.6	-1.8	10,721	10,779	+0.5
Shipbuilding												
Completed during month:												
Total.....gross tons..	14,347	13,692	23,779	14,241	23,840	3,323	11,128	+67.4	+114.2	21,864	61,860	+182.9
Steel seagoing.....gross tons..	7,369	10,633	21,493	12,217	13,088	1,335	3,919	+7.1	+234.0	8,646	46,798	+441.1
Building or under contract, end of month:												
Merchant vessels.....thous. of gross tons..	384	372	376	361		168	187					
Freight Cars												
Surplus (daily av. last week of month):												
Total.....cars..	240,740	447,141	392,552	440,275	465,920	217,400	279,107	+5.8	+66.9			
Box.....cars..	181,198	246,982	217,024	206,531	203,590	98,986	95,429	-1.4	+113.3			
Coal.....cars..	11,826	144,353	123,469	180,089	206,066	72,613	136,452	+14.4	+51.0			
Shortage (daily av. last week of month):												
Total.....cars..			9			76	40					
Box.....cars..							40					
Coal.....cars..						6						
Car loadings:												
Total.....cars..	4,891,835	3,340,993	3,349,424	3,505,962	4,414,625	3,766,136	4,815,937	+25.9	-8.3	12,153,528	11,270,011	-7.3
Grain and grain products.....cars..	191,975	159,676	156,665	174,980	201,047	188,659	213,212	+14.9	-5.7	583,965	532,692	-8.8
Livestock.....cars..	156,859	101,798	108,036	102,960	118,071	105,679	121,103	+14.7	-2.5	344,725	329,067	-4.5
Coal and coke.....cars..	1,001,992	816,589	823,272	797,867	735,508	897,593	846,691	-7.8	-13.1	2,602,257	2,361,647	-9.2
Forest products.....cars..	275,208	181,810	181,810	217,239	294,071	240,895	335,063	+35.4	-12.2	795,918	693,120	-12.6
Ore.....cars..	146,073	32,877	33,657	33,474	45,119	36,975	57,113	+34.8	-21.0	129,728	112,250	-13.5
Merchandise and l. c. l.....cars..	1,276,256	908,085	890,152	938,429	1,251,013	969,937	1,306,178	+33.3	-4.2	3,192,276	3,079,594	-3.5
Miscellaneous.....cars..	1,843,412	1,140,158	1,150,832	1,241,013	1,769,796	1,326,398	1,936,577	+42.6	-8.6	4,507,659	4,161,641	-7.7
Railroad Operations												
Operating revenue:												
Freight.....thous. of dolls..	384,040	340,821	337,993	327,061		2 363,777	393,368					
Passenger.....thous. of dolls..	62,451	74,438	70,452	61,254		2 68,393	71,879					
Total operating.....thous. of dolls..	499,211	468,879	451,190	427,941		2 476,166	516,973					
Operating expenses.....thous. of dolls..	372,167	362,814	356,469	330,579		2 350,549	377,279					
Net operating income.....thous. of dolls..	86,669	72,227	55,474	59,452		2 84,724	97,466					
Freight carried.....mills. ton-miles..	38,723	36,040	36,664	34,341		2 38,140	40,213					
Railway Equipment												
Locomotives (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....number..	57,038	56,819	56,753	2 56,654	56,486	58,508	58,322	-0.3	-3.1			
Tractive power.....mills. of lbs..	2,535	2,531	2,530	2 2,530	2,527	2,557	2,553	-0.1	-1.0			
In bad order, end of month—												
Quantity.....number..	7,833	7,662	7,937	8,342	8,274	8,383	8,042	-0.8	+2.9			
Per cent of total in use.....per cent..	13.8	13.6	14.1	14.8	14.8	14.4	13.9	0.0	+6.5			
Installed.....number..	187	158	160	115	142	114	121	+23.5	+17.4	346	417	+20.5
Retired.....number..	343	377	227	218	310	214	307	+42.2	+1.0	757	755	-0.3
New orders.....number..	84	167	163	16	43	68	142	+168.8	-69.7	238	222	-6.7
Shipments, manufacturers' (Census)—												
Total.....number..	95	67	48	67	68	23	35	+1.5	+94.3	81	183	+125.9
Steam, domestic.....number..	75	62	48	60	64	20	31	+6.7	+106.5	57	172	+201.8
Electric, domestic.....number..		1		4	2	1	4	-50.0	-50.0	11	6	-45.5
Unfilled orders (railroads), end of mo.—												
From manufacturers.....number..	234	336	334	343	310	253	326	+9.6	+4.9			
In railroad shops.....number..	65	95	107	107	132	38	46	+23.4	+187.0			
Unfilled orders, manufacturers' (Census)—												
Total.....number..	398	490	587	533	535	339	488	+0.4	+9.6			
Steam, domestic.....number..	340	435	527	479	485	301	419	+1.3	+15.8			
Electric, domestic.....number..	49	48	50	46	44	20	24	-4.3	+83.3			
Exports, steam.....number..	21	13	2	8	10	13	22	+25.0	-54.5	53	20	-62.3
Shipments (qty.), electric locomotives—												
Mining.....number..		2 207			2 123		2 180	-40.6	-31.7			
Industrial.....number..		3 7			3 17		3 27	+142.9	-37.0			
Freight cars (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....thous. of cars..	2,240	2,263	2,265	2,267	2,268	2,271	2,268					
Capacity.....mills. of lbs..	209,364	209,516	209,842	2 210,135	210,280	208,718	208,507	+0.1	+0.9			
In bad order, end of month—												
Quantity.....cars..	124,257	118,807	124,260	122,327	129,895	144,620	139,538	+6.2	-6.9			
Per cent of total in use.....per cent..	5.6	5.4	5.6	5.5	5.9	6.6	6.3	+7.3	-6.3			
New orders.....cars..	5,126	9,785	6,632	15,931	4,464	14,393	11,068	-72.0	-59.7	37,913	27,027	-28.7
Shipments—												
Total.....cars..	6,956	7,856	8,095	9,600	6,144	1,152	3,599	-36.0	+70.7	6,565	23,839	+263.1
Domestic.....cars..	6,891	7,513	7,426	9,366	6,066	887	3,589	-35.2	+69.0	5,001	22,858	+357.1

2 Revised.

1 Quarter ending in month indicated.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
TRANSPORTATION—Continued												
Railway Equipment—Continued												
Freight cars (<i>Am. Ry. Assn.</i>)—Continued.												
Unfilled orders (railroads)—												
Total.....cars.....	30,069	34,085	33,457	30,800	35,181	40,539	41,197	+14.2	-14.6			
From manufacturers.....cars.....	25,677	29,796	28,057	25,722	29,058	35,891	35,860	+13.0	-17.8			
In railroad shops.....cars.....	4,392	4,289	5,400	5,078	6,123	4,648	5,337	+20.6	+4.9			
Passenger cars:												
New orders.....cars.....	57	77	58	134	169	21	53	+26.1	+218.9	302	361	+19.5
Shipments—												
Total.....cars.....	189	116	95	78	61	90	87	-21.8	-29.9	288	234	-18.7
Domestic.....cars.....	149	116	80	78	51	90	87	-34.6	-41.4	286	209	-26.9
Highways												
Concrete pavements, new contracts:												
Total.....thous. of sq. yds.....	5,358	7,462	6,595	6,887	13,700	3,241	6,000	+98.9	+128.3	16,702	27,182	+62.7
Road.....thous. of sq. yds.....	3,207	5,043	5,244	5,357	11,294	1,689	2,826	+110.8	+299.6	10,604	21,895	+106.5
Federal aid highways:												
Completed—												
Cost.....thous. of dolls.....	25,131	28,326	7,680	9,266	6,185	13,188	4,570	-33.3	+35.3	33,815	23,131	-31.6
Distance.....miles.....	779	813	273	358	227	373	151	-36.6	+50.3	1,081	858	-20.6
Under construction, end of month.....miles.....	7,805	7,256	7,054	6,843	6,824	7,679	7,665	-0.3	-11.0	23,179	20,721	-10.6
Passenger Travel												
National parks:												
Visitors.....number.....	52,563	35,762	47,296	48,342	67,306	43,505	72,377	+39.2	-7.0	162,124	162,944	+0.5
Automobiles entered.....number.....	8,574	5,675	19,335	9,926	12,841	10,835	8,498	+29.4	+51.1	26,806	42,102	+57.1
Arrivals from abroad:												
Immigrants.....number.....	21,522	17,842	14,767	13,585		17,254	20,145			35,060	28,352	-19.1
United States citizens.....number.....	25,129	21,177	23,985	34,234		33,216	37,375			56,666	58,219	+2.7
Departures abroad:												
Emigrants.....number.....	3,053	4,880	3,947	3,180		4,154	2,449			8,824	7,127	-19.2
United States citizens.....number.....	20,413	27,404	31,991	33,796		32,347	27,972			61,155	65,787	+7.6
Trend of business in hotels:												
Room occupancy.....per ct. of capacity.....	73	67	73	70	67	72	69	-4.3	-2.9			
Average sale per occupied room.....dollars.....	4.17	3.22	4.04	4.05	3.90	4.13	3.94	-3.7	-1.0			
Passports issued.....number.....	8,895	7,323	8,485	9,899	18,802	8,888	17,066	+89.9	+10.2	35,467	37,186	+4.8
Pullman company operations:												
Revenue.....thous. of dolls.....	5,722	6,507	7,143	6,331		6,417	6,627			13,450	13,474	+0.2
Passengers carried.....thousands.....	2,437	2,731	2,760	2,379		2,555	2,726			5,391	5,139	-4.7
Warehouses												
Public merchandise warehouses, space occupied.....per ct. of total.....												
	77.1	75.9	74.6	72.0		68.3	69.9					
PUBLIC UTILITIES												
Telephone companies:												
Operating revenues.....thous. of dolls.....	77,664	78,675	77,845	75,398		71,034	74,899			145,822	153,243	+5.1
Operating income.....thous. of dolls.....	18,302	18,271	18,302	17,287		17,716	17,825			37,537	35,299	-6.0
Telegraph companies:												
Commercial telegraph tolls.....thous. of dolls.....	10,540	11,298	10,518	9,844		10,265	11,864			21,445	20,362	-5.1
Operating revenues.....thous. of dolls.....	13,633	14,572	13,454	12,652		13,060	14,911			27,193	26,106	-4.0
Operating income.....thous. of dolls.....	2,260	2,304	435	532		1,396	1,951			3,054	967	-68.3
Gas and electric companies:												
Gross earnings.....thous. of dolls.....	202,500	211,500	211,000	199,500		194,000	195,000			397,000	410,500	+3.4
Net earnings.....thous. of dolls.....	92,000	100,000	92,000	90,000		86,000	85,000			178,000	182,000	+2.2
Electric railways (212 companies):												
Passengers carried.....thous. of persons.....	748,624	795,643	781,927	705,454	760,269	741,023	820,405	+7.8	-7.3	2,361,271	2,247,650	-4.8
Average fare.....cents.....	8.272	8.272	8.288			8.198	8.202					
ELECTRIC POWER												
Electric power production:												
Total.....mills. of kw. hours.....	8,243	8,513	8,658	7,624		7,429	7,989			15,670	16,282	+3.9
By water power.....mills. of kw. hours.....	2,643	2,751	2,925	2,677		2,442	3,147			5,140	5,602	+9.0
By fuels.....mills. of kw. hours.....	5,600	5,762	5,733	4,947		4,987	4,842			10,530	10,680	+1.4
In street railways,												
manf. plants, etc.....mills. of kw. hours.....	360	402	412	441		383	382			820	853	+4.0
In central stations (Canada):.....mills. of kw. hours.....	7,883	8,111	8,246	7,183		7,046	7,607			14,850	15,429	+3.9
Electric power production (Canada):												
Total.....mills. of kw. hours.....	1,595	1,535	1,548	1,392		1,346	1,471			2,854	2,940	+3.0
By water power.....mills. of kw. hours.....	1,559	1,497	1,507	1,365		1,315	1,441			2,794	2,872	+2.8
Exported.....mills. of kw. hours.....	124	102	113	177		111	127			225	230	+2.2
Electric power, gross revenue.....thous. of dolls.....	190,200	192,300	198,360	186,100		176,800	167,700			363,800	384,460	+5.7
Consumption of electrical energy:												
By geographic divisions—												
United States.....rel. to 1923-25.....	122.9	116.4	121.8	123.5	125.0	140.4	135.7	+1.2	-7.9			
New England.....rel. to 1923-25.....	118.1	107.0	120.5	113.3	109.7	132.8	130.8	-3.2	-16.1			
North Central.....rel. to 1923-25.....	122.2	169.0	128.0	136.8	133.6	149.5	141.9	-2.3	-5.8			
Middle Atlantic.....rel. to 1923-25.....	124.3	120.5	125.8	126.0	127.1	130.7	130.4	+0.9	-2.5			
Southern.....rel. to 1923-25.....	122.8	130.4	110.0	118.3	126.6	137.7	125.4	+7.0	+1.0			
Western.....rel. to 1923-25.....	142.6	126.0	115.2	127.5	126.7	140.8	138.2	-0.6	-8.3			

² Revised.

⁴ Cumulative through Feb. 28.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	ELECTRIC POWER—Continued											
Consumption of electrical energy—Continued.												
By industry—												
All industry.....rel. to 1923-25..	122.9	116.4	121.8	123.5	125.0	140.4	135.7	+1.2	-7.9			
Chemical and allied products.....rel. to 1923-25..	147.3	148.0	136.7	139.6	142.7	138.7	133.0	+2.2	+7.3			
Food and kindred products.....rel. to 1923-25..	127.9	121.1	132.3	129.2	135.0	127.5	122.2	+4.5	+10.5			
Rolling mills and steel plants.....rel. to 1923-25..	123.2	120.5	143.1	143.0	142.3	163.3	160.3	-0.5	-11.2			
Metal working plants.....rel. to 1923-25..	128.7	127.2	126.7	130.5	137.2	153.7	151.4	+5.1	-9.4			
Metal groups.....rel. to 1923-24..	126.7	124.9	132.9	135.0	139.0	157.3	154.9	+3.0	-10.3			
Leather and its products.....rel. to 1923-25..	97.6	89.0	92.3	86.5	84.1	102.1	93.4	-2.8	-10.0			
Lumber and its products.....rel. to 1923-25..	111.8	92.8	87.5	94.7	97.3	107.6	104.2	+2.7	-6.6			
Paper and pulp.....rel. to 1923-25..	133.7	132.1	120.8	138.0	140.4	125.2	129.2	+1.7	+8.7			
Rubber and its products.....rel. to 1923-25..	113.1	108.4	144.4	185.4	135.5	154.7	155.8	-26.9	-13.0			
Shipbuilding.....rel. to 1923-25..	114.0	120.4	124.4	125.4	122.4	95.5	99.7	-2.4	+22.8			
Stone, clay, and glass.....rel. to 1923-25..	146.2	146.2	124.2	116.7	122.6	148.7	138.0	+5.1	-11.2			
Textiles.....rel. to 1923-25..	115.5	109.8	112.4	103.3	103.4	133.0	126.6	+0.1	-18.3			
Automobiles, including repair parts.....rel. to 1923-25..	88.4	79.4	99.8	116.6	113.2	161.5	154.5	-2.9	-26.7			
EMPLOYMENT AND WAGES												
Employment in factories:												
New York State.....rel. to 1923..	87.6	84.2	82.3	81.9	81.8	87.1	88.7	-0.1	-7.8			
New Jersey.....rel. to 1923..	100	95	93	94	98	98	99					
Pennsylvania.....rel. to 1923..	93	90	90	90	84	84	84					
Delaware.....rel. to 1923..	84	84	81	81	77	77	76					
Maryland.....rel. to 1924..	90.9	89.2	86.2	87.2	87.5	88.9	90.9	-0.3	-3.7			
Iowa.....rel. to 1923..	130.0	126.8	122.9	125.2	123.0	124.4	125.2	-1.8	-1.8			
Illinois.....rel. to 1925-27..	102.7	99.3	97.8	98.0	96.9	100.3	102.2	-1.1	-5.2			
Wisconsin.....rel. to 1923..	94.7	90.1	90.0	90.7	90.6	97.2	98.5	-0.1	-8.0			
Ohio.....rel. to 1923..	107	102	101	101	112	112	113					
Cleveland.....rel. to Jan., 1921..	108.8	106.2	109.1	107.4	106.7	123.6	123.4	-0.7	-13.5			
Detroit.....rel. to 1923-25..	93.0	98.0	106.5	108.0	108.5	135.0	136.0	+0.5	-20.2			
Milwaukee.....number	39,561	39,016	39,823	42,143	43,226	42,143	43,226					
New York State.....number	485,018	465,915	455,480	453,284	452,472	482,252	490,879	-0.2	-7.8			
Oklahoma.....number	37,510	34,093	33,081	32,938	32,207	32,207	32,471					
Total pay roll:												
New York State (weekly).....thous. of dolls.	14,328	13,860	13,524	13,304	13,481	14,465	14,897	+1.3	-9.5			
Oklahoma (weekly).....thous. of dolls.	1,032	934	900	916	881	881	871					
Wisconsin.....rel. to 1923..	100.4	89.7	87.7	93.0	96.9	110.0	110.7	+4.2	-12.5			
New York State.....rel. to 1923..	95.0	91.9	89.7	88.3	89.4	96.0	98.8	+1.2	-9.5			
New Jersey.....rel. to 1923..	112	107	105	106	111	111	112					
Pennsylvania.....rel. to 1923..	90	86	85	86	90	90	91					
Delaware.....rel. to 1923..	90	86	86	86	83	83	83					
Illinois.....rel. to 1925-27..	101.3	96.3	91.2	94.0	90.1	100.7	101.6	-4.1	-11.3			
Employment:												
Canada.....rel. to cal. year 1926..	124.6	119.1	111.2	111.6	110.2	110.5	111.4	-1.3	-1.1			
Ohio construction.....rel. to 1923..	125.1	112.0	90.4			88.1	95.9					
Employment, trade-unions:												
United States.....per cent of total..	88.0	84.0	80.0	78.0	79.0	85.0	86.0	+1.3	-8.1			
Canada.....per cent of total..	90.7	88.6	89.2			93.2	94.0					
Anthracite mines:												
Employment.....rel. to 1923-25..	107.6	110.8	105.6	107.8	83.3	109.4	101.3	-22.7	-17.8			
Pay roll.....rel. to 1923-25..	87.6	110.3	92.1	103.7	67.1	107.0	79.5	-35.3	-15.6			
Federal civilian employees,												
Washington, D. C., end month.....number	63,877	63,946	64,356	64,662	64,954	62,388	62,926	+0.5	+3.2			
Average weekly earnings, factories:												
Illinois.....dollars	28.52	28.12	28.30	29.24	28.25	28.42	28.92	-3.4	-2.3			
New York State.....dollars	29.54	29.75	29.70	29.36	29.80	29.99	30.35	+1.5	-1.8			
Wisconsin.....dollars	26.13	24.18	24.10	24.84	25.75	27.15	26.95	+3.7	-4.5			
Oklahoma.....dollars	27.51	27.38	27.21	27.81	27.36	27.36	26.81					
New York.....rel. to 1923..	108.4	109.2	109.0	107.8	109.4	110.1	111.4	+1.5	-1.8			
New Jersey.....rel. to 1923..	113	113	114	114	114	114	114					
Pennsylvania.....rel. to 1923..	105	102	102	104	108	108	109					
Delaware.....rel. to 1923..	106	107	105	105	106	106	106					
Illinois.....rel. to 1925-27..	100.5	99.1	99.7	103.1	99.6	102.4	101.9	-3.4	-2.3			
Wisconsin.....rel. to 1923..	105.8	98.2	95.9	102.0	106.4	113.3	112.4	+4.3	-5.3			
Average weekly earnings (National Industrial Conference Board):												
Grand total (both sexes).....dollars	27.72	27.53	27.51	27.90	27.59	28.53	28.53	-1.1	-3.3			
Total male.....dollars	29.37	29.83	29.53	29.75	29.37	31.63	31.68	-1.3	-7.3			
Skilled male.....dollars	30.81	31.25	30.87	31.08	30.70	33.08	33.15	-1.2	-7.4			
Unskilled male.....dollars	23.86	24.35	24.31	24.59	24.14	26.12	26.07	-1.8	-7.4			
Total women.....dollars	17.03	17.36	17.02	17.09	16.84	17.82	17.76	-1.5	-5.2			
Average weekly hours:												
Nominal (both sexes).....hours	49.3	49.2	49.2	49.3	49.0	49.7	49.8	-0.6	-1.6			
Actual (both sexes).....hours	46.9	47.4	46.4	46.7	46.3	49.5	49.5	-0.9	-6.5			
Wages, road labor, by districts:												
New England.....cents per hour	49	51	52	51	52	49	51	+2.0	+2.0			
Middle Atlantic.....cents per hour	42	45	47	44	44	49	44	0.0	0.0			
South Atlantic.....cents per hour	24	27	25	25	25	23	23	0.0	+8.7			
East South Central.....cents per hour	26	25	25	25	27	27	27	+8.0	0.0			
West South Central.....cents per hour	30	31	31	29	28	30	33	-3.4	-15.2			
East North Central.....cents per hour	39	39	40	40	38	46	42	-5.0	-9.5			
West North Central.....cents per hour	37	38	40	39	37	42	37	-5.1	0.0			
Mountain.....cents per hour	48	50	46	46	46	42	43	0.0	+7.0			
Pacific.....cents per hour	52	53	53	53	53	52	52	0.0	+1.9			
United States, average.....cents per hour	40	40	40	39	39	37	37	0.0	+5.4			

2 Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	EMPLOYMENT AND WAGES—Contd.											
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	153	166	201	201	180	153	142	-10.4	+26.8			
Eastern States..... number	153	187	231	213	217	152	144	+1.9	+50.7			
Central States..... number	177	181	231	225	189	164	153	-16.0	+23.5			
Southern States..... number	205	222	250	271	254	267	215	-6.3	+18.1			
Western States..... number	75	77	101	91	83	81	76	-8.8	+9.2			
Illinois..... number	181	177	257	246	209	169	156	-15.0	+34.0			
Wisconsin..... number	160	163	196			142	138					
Canada..... number	164	154	160	164		158	148					
Factory Labor Turnover												
(Percentage of number on pay roll)												
Departures:												
Total..... per cent (annual basis)	38.4	29.3	28.1	33.0	31.9	41.7	49.2	-3.3	-35.2			
Voluntary quits..... per cent (annual basis)	19.4	12.7	13.1	16.0	16.3	31.0	36.8	+1.9	-55.7			
Lay offs..... per cent (annual basis)	15.8	14.2	12.2	13.8	12.1	4.7	5.7	-12.3	+112.3			
Discharges..... per cent (annual basis)	3.7	2.4	2.8	3.2	3.5	6.0	6.7	+9.4	-47.8			
Accessions..... per cent (annual basis)	23.7	14.6	23.7	26.9	23.0	56.9	61.2	-14.5	-62.4			
Industrial disputes:												
Disputes..... number	39	33	29	43		34	42					
Workers involved..... number	7,320	2,401	6,773	9,084		40,385	41,321					
Man-days lost in month..... number	225,482	96,930	207,606	465,584		921,583	1,094,161					
DISTRIBUTION MOVEMENT												
Retail Sales												
Mail-order houses:												
Sears, Roebuck & Co. thous. of dolls.	43,846	54,220	*26,820	*27,625	*25,174	27,741	30,796	-8.9		87,808	79,519	
Montgomery Ward & Co. thous. of dolls.	29,851	35,799	18,331	18,406	20,632	18,655	22,617	+12.1	-8.8	59,401	57,368	-3.4
Ten-cent chain stores:												
Total sales (4 chains)..... thous. of dolls.	49,879	87,948	34,657	37,523	42,323	36,351	46,135	+12.8	-8.3	115,999	114,503	-1.3
Total stores operated (4 chains)..... number	2,866	2,870	2,880	2,892	2,908	2,681	2,695	+0.6	+7.9			
F. W. Woolworth & Co. thous. of dolls.	26,160	44,153	18,408	20,030	22,482	19,375	24,625	+12.2	-8.3	61,500	60,920	-1.0
Stores operated..... number	1,828	1,828	1,829	1,835	1,845	1,742	1,750	+0.5	+5.4			
S. S. Kresge Co. thous. of dolls.	14,021	24,242	9,852	9,944	11,200	9,774	12,567	+13.2	-10.4	31,360	30,556	-2.6
Stores operated..... number	584	597	604	611	617	515	517	+1.0	+19.3			
McCrorry Stores Corp. thous. of dolls.	3,854	7,293	2,695	2,907	3,358	2,844	3,735	+15.5	-10.1	9,270	8,960	-3.3
Stores operated..... number	243	243	243	241	241	231	234	0.0	+3.0			
S. H. Kress & Co. thous. of dolls.	5,844	12,260	4,202	4,642	5,225	4,358	5,308	+12.6	-1.6	13,809	14,069	+1.9
Stores operated..... number	201	203	204	205	205	193	194	0.0	+5.7			
Metropolitan..... thous. of dolls.	1,819	3,432	971	995	1,133	882	1,148	+13.9	-1.3	2,829	3,069	+9.5
Stores operated..... number	151	151	150	149	148	109	111	-0.7	+33.3			
W. T. Grant Co. thous. of dolls.	6,504	11,536	3,784	3,911	4,962	3,516	5,141	+26.9	-3.5	11,986	12,657	+5.6
Stores operated..... number	273	276	279	280	283	221	222	+1.1	+27.5			
F. & W. Grand..... thous. of dolls.	2,067	3,601	1,296	1,326	1,603	1,175	1,712	+20.9	-6.4	3,983	4,225	+6.1
Stores operated..... number	94	94	94	94	94	83	83	0.0	+13.3			
Isaac Silver & Bros. thous. of dolls.	833	1,527	457	534	643	441	615	+20.4	+4.6	1,421	1,634	+15.0
Stores operated..... number	45	45	43	44	45	32	34	+2.3	+32.4			
J. C. Penny Co. thous. of dolls.	24,420	29,589	10,611	11,197	14,208	9,378	15,943	+26.9	-10.9	34,337	36,011	+4.9
Stores operated..... number	1,389	1,395	1,395	1,396	1,416	1,026	1,182	+1.4	+19.8			
G. C. Murphy Co. thous. of dolls.	1,464	2,649	939	989	1,183	910	1,199	+19.6	-1.3	2,923	3,111	+6.4
Stores operated..... number	152	153	154	154	154	139	139	0.0	+10.8			
Restaurant chains:												
Total sales (3 chains)..... thous. of dolls.	4,980	5,176	4,989	*4,580	5,039	4,470	5,027	+10.0	+0.2	14,204	14,608	+2.8
Stores operated..... number	376	375	374	374	374	373	372	0.0	+0.5			
Childs Co., sales..... thous. of dolls.	2,299	2,407	2,307	2,148	2,352	2,144	2,355	+9.5	-0.1	6,683	6,807	+1.9
Stores operated..... number	111	111	111	110	110	112	112	0.0	-1.8			
J. R. Thompson Co., sales..... thous. of dolls.	1,284	1,320	1,300	1,177	1,307	1,147	1,284	+11.0	+1.8	3,655	3,784	+3.5
Stores operated..... number	122	121	121	121	121	125	124	0.0	-2.4			
Waldorf System (Inc.), sales..... thous. of dolls.	1,397	1,449	1,382	*1,255	1,380	1,228	1,388	+10.0	-0.6	3,915	4,017	+2.6
Stores operated..... number	143	143	142	143	143	136	136	0.0	+5.1			
Installment sales in New England dept. stores, ratio to total sales..... per cent.	8.5	5.4	16.2	10.9		10.2	7.1					
Advertising												
Magazine advertising..... thous. of lines	3,074	2,882	1,999	2,382	2,738	2,459	2,870	+14.9	-4.6			
Magazine advertising, total cost..... thous. of dolls.	20,070	18,420	12,411	16,808	18,687	16,316	18,095	+11.2	+3.3	47,100	47,906	+1.7
Newspaper advertising..... thous. of lines	112,958	100,202	88,873	81,702	97,868	89,698	111,190	+19.8	-12.0	298,050	268,443	-9.9
Radiobroadcast cost, facilities..... thous. of dolls.	1,908	1,969	1,989	1,873	2,273	1,372	1,610	+21.4	+41.2	4,240	6,135	+44.7
National advertising in newspapers:												
Total..... thous. of lines	52,879	36,724	47,887	44,996	54,032	50,308	56,099	+20.1	-3.7	158,677	146,915	-7.4
Passenger cars..... thous. of lines	4,098	2,664	8,000	6,497	6,841	8,166	9,235	+5.3	-25.9	28,411	21,338	-24.9
Tires, trucks, and accessories..... thous. of lines	5,996	4,279	3,349	3,983	6,105	3,842	4,191	+53.3	+45.7	11,960	13,437	+12.3
Financial..... thous. of lines	6,578	6,943	9,128	5,221	6,427	6,692	7,975	+23.1	-19.4	24,292	20,776	-14.5
Building materials..... thous. of lines	338	109	129	182	373	330	610	+104.9	-38.9	1,186	684	-42.3
Electrical appliances, supplies..... thous. of lines	1,062	935	664	615	1,329	850	1,449	+116.1	-8.3	2,769	2,608	-5.8
Foods and beverages..... thous. of lines	6,848	3,452	5,355	6,766	7,915	5,631	7,166	+17.0	+10.5	16,752	20,036	+19.6
Heating and plumbing equipment..... thous. of lines	513	344	395	275	377	495	547	+37.1	-31.1	1,444	1,047	-27.5
Medical..... thous. of lines	5,967	3,072	6,456	6,206	5,741	6,841	6,563	-7.5	-12.5	21,521	18,403	-14.5
Radio..... thous. of lines	5,734	4,021	1,603	1,700	1,399	2,547	2,173	-17.7	-35.6	6,867	4,702	-31.5
Tobacco..... thous. of lines	4,112	1,515	3,177	3,345	4,497	4,049	3,878	+34.4	+16.0	10,630	11,019	+3.7
Toilet requisites..... thous. of lines	2,267	1,777	2,432	3,163	4,323	3,765	3,580	+36.7	+20.8	10,087	9,918	-1.7
Transportation..... thous. of lines	2,802	2,747	2,461	2,175	2,396	2,010	2,305	+10.2	+3.9	6,639	7,032	+5.9
All other..... thous. of lines	6,565	5,466	4,738	4,866	6,310	5,089	6,428	+29.7	-1.8	16,118	15,914	-1.3

* Revised.

* Month consists of 4 weeks.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"	1929		1930			1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH MAR. 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
DISTRIBUTION MOVEMENT—Contd.												
Postal Business												
Postal receipts:												
50 selected cities.....thous. of dolls.	32,723	40,785	32,199	29,457	32,475	29,993	34,375	+10.2	-5.5	95,983	94,131	-1.9
50 industrial cities.....thous. of dolls.	3,364	4,565	3,561	3,473	3,562	3,326	3,537	+2.6	+0.7	10,329	10,596	+2.6
Money orders:												
Domestic issued (50 cities)—												
Quantity.....thousands.	3,745	4,096	3,805	3,597	4,134	3,480	3,959	+14.9	+4.4	11,065	11,536	+4.3
Value.....thous. of dolls.	39,085	40,876	38,356	35,617	39,827	34,621	38,840	+11.8	+2.5	109,486	113,800	+3.9
Domestic paid (50 cities)—												
Quantity.....thousands.	11,829	12,850	11,266	10,165	11,791	10,377	12,624	+16.0	-6.6	33,968	33,222	-2.2
Value.....thous. of dolls.	97,825	101,453	86,593	78,066	88,103	77,387	93,937	+12.9	-6.2	254,478	252,762	-0.7
Air mail, weight dispatched.....pounds.	624,750	618,991	518,398	556,913	625,328	433,941	523,414	+12.3	+19.5	1,446,064	1,700,639	+17.6
BANKING AND FINANCE												
Banking												
Check payments:												
New York City.....mills. of dolls.	53,604	39,850	34,732	31,117	40,740	46,289	55,425	+30.9	-26.5	156,433	106,589	-31.9
Outside of New York City.....mills. of dolls.	28,519	26,932	25,723	21,534	25,014	24,515	28,131	+16.2	-11.1	80,772	72,271	-10.5
Canada.....mills. of dolls.	2,260	1,858	1,674	1,446	1,627	1,723	1,942	+12.5	-16.2	5,789	4,747	-18.0
Federal reserve banks:												
Bills discounted.....mills. of dolls.	912	632	407	343	241	952	1,030	-29.7	-76.6	-----	-----	-----
Notes in circulation.....mills. of dolls.	1,930	1,910	1,702	1,637	1,576	1,654	1,664	-3.7	-5.3	-----	-----	-----
Total investments.....mills. of dolls.	602	915	747	796	840	511	351	+5.5	+139.3	-----	-----	-----
Total reserve.....mills. of dolls.	3,135	3,011	3,188	3,187	3,209	2,844	2,893	+0.7	+10.9	-----	-----	-----
Total deposits.....mills. of dolls.	2,437	2,414	2,369	2,408	2,443	2,413	2,382	+1.5	+2.6	-----	-----	-----
Reserve ratio.....per cent.	71.8	69.6	78.3	78.8	79.8	69.9	71.5	+1.3	+11.6	-----	-----	-----
Federal reserve member banks:												
Total loans and discounts.....mills. of dolls.	17,698	17,649	16,676	16,428	16,913	16,366	16,583	+3.0	+2.0	-----	-----	-----
Total investments.....mills. of dolls.	5,655	5,514	5,529	5,575	5,719	5,972	5,976	+2.6	-4.3	-----	-----	-----
Net demand deposits.....mills. of dolls.	13,890	14,118	12,949	12,944	13,329	13,308	13,157	+3.0	+1.3	-----	-----	-----
Brokers' loans, end of month:												
To N. Y. Stock Ex. members—												
Total.....mills. of dolls.	4,017	3,990	3,985	4,108	4,656	6,679	6,804	+11.7	-31.6	-----	-----	-----
Ratio to market value.....per cent.	6.32	6.16	5.77	5.89	6.12	9.29	9.75	-----	-----	-----	-----	-----
By New York F. R. member banks.....mills. of dolls.	3,450	3,424	3,345	3,489	3,968	5,507	5,562	+13.7	-28.7	-----	-----	-----
Interest rates:												
Time loans, 90 days.....per cent.	5.38	4.88	3.88	4.75	4.25	7.63	7.88	-10.5	-46.1	-----	-----	-----
Call loans, renewal.....per cent.	5.44	4.83	4.64	4.32	3.69	7.06	9.10	-14.6	-59.5	-----	-----	-----
Prime com. paper (4-6 mos.).....per cent.	5.75	5.00	4.88	4.75	4.25	5.50	5.88	-10.5	-27.7	-----	-----	-----
Prime bankers' acceptances.....per cent.	4.19	3.88	3.94	3.81	3.13	5.13	5.38	-17.8	-41.8	-----	-----	-----
N. Y. Fed. Res. Bank (redis.).....per cent.	4.50	4.50	4.00	4.00	3.50	5.00	5.00	-12.5	-30.0	-----	-----	-----
Federal land banks.....per cent.	5.79	5.79	5.79	5.72	5.58	5.06	5.10	-2.4	+9.4	-----	-----	-----
Intermediate credit banks.....per cent.	5.70	5.57	5.24	5.24	5.10	5.33	5.36	-2.7	-4.9	-----	-----	-----
Deposits, New York State savings banks, end of month.....mills. of dolls.	4,333	4,392	4,416	4,436	4,509	4,423	4,466	+1.6	+1.0	-----	-----	-----
Public Finance												
Government debt, gross, end mo.....mills. of dolls.	16,695	16,301	16,423	16,460	16,390	17,345	17,237	-0.4	-4.9	-----	-----	-----
Customs receipts.....thous. of dolls.	44,126	39,298	41,278	35,935	42,610	48,651	55,200	+18.6	-22.8	149,400	119,823	-19.8
Total ordinary receipts.....thous. of dolls.	143,889	742,942	151,195	138,540	674,876	158,794	736,816	+387.1	-8.4	1,059,499	964,611	-9.0
Expenditures chargeable to ordinary receipts.....thous. of dolls.	218,407	443,191	347,351	236,742	362,221	185,494	273,875	+53.0	+32.3	830,904	946,314	+13.9
U. S. money in circulation:												
Daily average.....mills. of dolls.	4,845	4,943	4,652	4,556	4,533	4,686	4,709	-0.5	-3.7	-----	-----	-----
Gold and Silver												
Gold:												
Domestic receipts at mint.....fine ounces.	113,723	82,970	75,955	72,009	73,745	55,651	57,765	+2.4	+27.7	181,458	221,709	+22.2
Rand output.....fine ounces.	861,593	851,134	882,801	818,188	889,370	815,284	866,529	+8.7	+2.6	2,558,265	2,590,359	+1.3
Monetary stock of U. S.—												
daily average.....mills. of dolls.	4,374	4,324	4,283	4,319	4,395	4,143	4,166	+1.8	+5.5	-----	-----	-----
Imports.....thous. of dolls.	7,123	8,121	12,908	60,198	55,768	26,913	26,470	-7.4	+110.7	101,960	138,874	+36.2
Exports.....thous. of dolls.	30,289	72,547	8,948	207	290	1,425	1,635	+40.1	-82.3	4,438	9,445	+112.8
Silver:												
Production—												
United States.....thous. of fine oz.	5,795	4,592	4,753	5,161	5,225	4,776	5,223	+1.2	0.0	15,022	15,139	+0.8
Canada.....thous. of fine oz.	1,833	1,761	1,716	1,225	1,719	1,124	1,569	+40.3	+9.6	4,440	4,660	+5.0
Stocks, end of month—												
United States.....thous. of fine oz.	1,322	529	535	977	338	642	1,274	-65.4	-73.5	-----	-----	-----
Canada.....thous. of fine oz.	598	827	1,244	1,144	496	684	414	-56.6	+19.8	-----	-----	-----
Imports.....thous. of dolls.	5,144	4,479	4,756	3,923	4,831	4,458	6,435	+23.1	-24.9	19,153	13,510	-29.5
Exports.....thous. of dolls.	8,678	6,369	5,892	5,331	5,818	6,595	7,814	+39.1	-25.5	22,673	17,041	-24.8
Price at New York.....dolls. per fine oz.	.496	.485	.450	.432	.417	.562	.563	-3.5	-25.9	-----	-----	-----
Business Failures												
Liabilities:												
Total commercial.....thous. of dolls.	52,046	67,465	61,185	51,326	56,846	34,036	36,356	+10.8	+56.4	124,269	169,357	+36.3
Manufacturing establishments.....thous. of dolls.	14,180	33,266	19,500	20,724	19,414	11,891	15,001	-6.3	+29.4	43,582	59,638	+36.8
Trade establishments.....thous. of dolls.	16,122	28,550	29,814	20,909	24,293	17,891	17,190	+16.2	+41.3	67,105	75,016	+11.8
Agents and brokers.....thous. of dolls.	21,744	5,649	11,871	9,693	13,139	4,255	4,165	+35.6	+215.5	13,584	34,703	+155.5
Banks (quarterly).....thous. of dolls.	52,650	52,650	52,650	52,650	52,650	52,650	52,650	-2.0	+37.5	-----	-----	-----
Liabilities (Canada).....thous. of dolls.	3,302	3,754	6,174	7,539	3,549	2,442	2,531	-52.9	+40.2	7,506	17,262	+130.0
Firms:												
Total commercial.....number.	1,796	2,037	2,759	2,262	2,347	1,965	1,987	+3.8	+18.1	6,487	7,368	+13.6
Manufacturing establishments.....number.	451	559	680	526	621	478	512	+18.1	+21.3	1,604	1,827	+13.9
Trade establishments.....number.	1,166	1,344	1,913	1,605	1,587	1,378	1,349	-1.1	+17.6	4,496	5,105	+13.5
Agents and brokers.....number.	149	134	166	131	139	109	126	+6.1	+10.3	387	436	+12.7
Banks (quarterly).....number.	127	127	127	127	127	127	127	-2.4	+53.1	-----	-----	-----

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per ct. In-crease (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
BANKING AND FINANCE—Continued												
Business Failures—Continued												
Firms (Canada).....number.....	184	259	265	209	198	178	183	-5.3	+8.2	575	672	+16.9
By groups:												
Manufacturers—												
Metals.....number.....	41	50	32	36	42	40	40	+16.7	+5.0	110	110	0.0
Textiles.....number.....	70	69	106	58	81	54	60	+39.7	+35.0	189	245	+29.6
Lumber.....number.....	82	112	105	94	111	88	103	+18.1	+7.8	283	310	+9.5
Chemicals.....number.....	10	11	14	11	11	6	12	0.0	-8.3	29	36	+24.1
Printing and engraving.....number.....	13	11	13	17	16	15	10	-5.9	+60.0	50	46	-8.0
Foodstuffs.....number.....	37	28	60	38	42	39	44	+10.5	-4.5	130	140	+7.7
Leather, etc.....number.....	6	18	18	13	11	10	11	-15.4	0.0	45	42	-6.7
Liquors and tobacco.....number.....	7	6	3	4	3	7	8	-25.0	-62.5	24	10	-58.3
Stone, clay, and glass.....number.....	12	8	10	3	11	4	9	+266.7	+22.2	28	24	-14.3
All other.....number.....	203	246	319	252	293	215	215	+16.3	+36.3	716	864	+20.7
Traders—												
General stores.....number.....	67	102	136	94	124	111	101	+31.9	+22.8	328	354	+7.9
Foods and tobacco.....number.....	374	386	453	376	413	424	429	+9.8	-3.7	1,352	1,242	-8.1
Clothing.....number.....	198	244	437	366	317	246	233	-13.4	+36.1	830	1,120	+34.9
Household furniture.....number.....	177	209	380	286	307	266	257	+7.3	+19.5	897	973	+8.5
Chemicals and paints.....number.....	69	90	97	88	99	51	69	+12.5	+43.5	186	284	+52.7
Books and paper.....number.....	5	6	11	10	13	13	9	+30.0	+44.4	39	34	-12.8
All other.....number.....	276	307	399	385	314	267	251	-18.4	+25.1	864	1,098	+27.1
Life Insurance												
<i>(Association of Life Insurance Presidents)</i>												
Policies and certificates, new (44 companies):												
Ordinary.....number of policies.....	281,360	311,303	254,432	267,344	330,337	238,684	292,232	+23.6	+13.0	751,739	852,113	+13.4
Industrial.....number of policies.....	941,358	868,763	802,585	783,235	973,678	891,644	1,045,058	+24.3	-6.8	2,988,685	2,559,498	-14.4
Group.....number of certificates.....	39,571	120,316	43,081	34,732	45,913	26,859	35,986	+32.2	+19.5	120,766	123,726	+2.5
Total policies and certificates.....number.....	1,262,289	1,300,382	1,100,098	1,085,311	1,349,928	1,157,187	1,373,276	+24.4	-1.7	3,861,190	3,535,337	-8.4
Amount of new insurance (44 companies):												
Ordinary.....thous. of dolls.....	704,316	841,215	712,855	730,735	884,535	683,542	830,244	+21.0	+6.5	2,173,629	2,328,125	+7.1
Industrial.....thous. of dolls.....	249,246	234,046	218,027	212,813	264,415	230,779	274,824	+24.2	-3.8	771,601	695,255	-9.9
Group.....thous. of dolls.....	86,165	160,514	64,313	59,930	73,234	58,607	64,813	+22.2	+13.0	222,057	197,477	-11.1
Total insurance.....thous. of dolls.....	1,039,727	1,235,775	995,195	1,003,478	1,222,184	972,928	1,169,881	+21.8	+4.5	3,167,287	3,220,857	+1.7
Premium collections (44 companies):												
Ordinary.....thous. of dolls.....	156,465	190,844	164,920	162,944	183,205	160,630	175,645	+12.4	+4.3	497,142	511,069	+2.8
Industrial.....thous. of dolls.....	57,973	97,619	58,711	55,659	65,605	51,956	56,159	+17.9	+16.8	161,921	179,975	+11.1
Group.....thous. of dolls.....	10,081	10,560	9,669	8,099	8,343	17,660	7,515	+3.0	+11.0	34,113	26,111	-23.5
Annuities.....thous. of dolls.....	14,112	4,185	14,112	4,185	5,091	5,091	5,091	+21.6	-----	23,388	23,388	-----
Total.....thous. of dolls.....	224,519	299,023	247,412	230,887	262,244	230,246	239,319	+13.6	+9.6	693,176	740,543	+6.8
Admitted life insurance assets (40 companies):												
Grand total.....mills. of dolls.....	14,015	14,135	14,238	14,329	14,444	13,071	13,173	+0.8	+9.6	-----	-----	-----
Mortgage loans—												
Total.....mills. of dolls.....	6,002	6,048	6,082	6,100	6,116	5,642	5,675	+0.3	+7.8	-----	-----	-----
Farm.....mills. of dolls.....	1,598	1,591	1,590	1,588	1,577	1,601	1,597	-0.7	-1.3	-----	-----	-----
All other.....mills. of dolls.....	4,404	4,457	4,492	4,512	4,539	4,041	4,078	+0.6	+11.3	-----	-----	-----
Bonds and stocks (book value):												
Total.....mills. of dolls.....	5,237	5,264	5,310	5,344	5,384	4,951	5,007	+0.7	+7.5	-----	-----	-----
Government.....mills. of dolls.....	1,040	1,053	1,058	1,062	1,061	986	1,004	-0.1	+5.7	-----	-----	-----
Railroad.....mills. of dolls.....	2,540	2,539	2,549	2,554	2,554	2,462	2,472	0.0	+3.3	-----	-----	-----
Public utility.....mills. of dolls.....	1,311	1,319	1,348	1,367	1,389	1,231	1,247	+1.6	+11.4	-----	-----	-----
All other.....mills. of dolls.....	346	355	355	361	380	272	284	+5.3	+33.8	-----	-----	-----
Policy loans and premium notes.....mills. of dolls.....	1,807	1,842	1,874	1,897	1,922	1,569	1,587	+1.3	+21.1	-----	-----	-----
<i>(Life Insurance Sales Research Bureau)</i>												
Sales of ordinary life insurance:												
United States total.....thous. of dolls.....	782,497	915,894	755,821	798,709	941,801	744,513	896,333	+17.9	+5.1	2,360,337	2,496,331	+5.8
Eastern manuf. dis.....thous. of dolls.....	320,244	350,504	325,695	345,320	401,432	321,051	385,309	+16.2	+4.2	1,017,549	1,072,447	+5.4
Western manuf. dis.....thous. of dolls.....	181,245	211,265	169,279	177,421	215,909	174,226	207,017	+21.7	+4.3	547,530	562,609	+2.8
Western agric. district.....thous. of dolls.....	115,195	143,354	105,573	107,335	131,342	100,163	122,062	+22.4	+7.6	323,066	344,250	+6.6
Southern district.....thous. of dolls.....	88,032	110,994	83,228	86,836	98,391	80,016	97,421	+13.3	+1.0	250,729	268,455	+7.1
Far western district.....thous. of dolls.....	77,781	99,777	72,046	81,797	94,327	69,057	84,524	+15.8	+12.1	221,463	248,570	+12.2
Canada total, 15 companies.....thous. of dolls.....	56,673	55,350	46,788	45,499	50,727	47,443	49,406	+10.6	+1.9	147,946	142,614	-3.6
Dividend and Interest Payments												
Grand total.....thous. of dolls.....	514,450	690,947	1,120,014	517,054	608,442	439,700	528,970	+17.7	+15.0	1,893,745	2,245,510	+18.6
Interest payments.....thous. of dolls.....	263,650	412,447	557,014	214,154	280,442	199,000	264,170	+24.9	+6.0	979,545	1,061,210	+8.3
Dividend payments:												
Total.....thous. of dolls.....	250,800	278,500	563,000	292,900	328,400	240,700	264,800	+12.1	+24.0	914,200	1,184,300	+29.5
Industrial and misc.....thous. of dolls.....	196,100	215,500	419,000	220,000	255,000	179,500	204,500	+15.9	+24.7	673,800	894,000	+32.7
Steam railroads.....thous. of dolls.....	40,000	38,500	54,500	45,200	45,500	40,100	39,300	+0.7	+15.8	122,400	145,200	+18.6
Street railways.....thous. of dolls.....	12,200	14,500	17,500	9,700	7,900	9,100	7,800	-18.6	+1.3	32,900	35,100	+6.7
New Security Issues												
Foreign loans in the U. S.....thous. of dolls.....	35,523	58,751	75,000	101,000	162,000	52,107	179,691	+60.4	-9.8	264,280	338,000	+27.9
Foreign governments.....thous. of dolls.....	-----	-----	4,000	40,000	26,000	10,000	10,000	-35.0	+160.0	35,750	70,000	+95.8
Total corporation.....thous. of dolls.....	202,131	344,946	702,179	496,209	646,326	975,578	940,780	+30.3	-31.3	2,887,232	1,844,714	-36.1
Purpose of issue—												
New capital.....thous. of dolls.....	186,793	261,891	629,083	468,574	630,889	853,184	882,453	+34.6	-28.5	2,563,964	1,728,546	-32.6
Refunding.....thous. of dolls.....	15,338	83,055	73,096	27,635	15,437	122,394	58,327	-44.1	-73.5	323,268	116,168	-64.1
Type of security—												
Stocks.....thous. of dolls.....	126,733	203,594	126,813	156,143	123,388	673,023	565,389	-21.0	-78.2	1,871,748	406,344	-78.3
Bonds and notes.....thous. of dolls.....	75,398	141,352	575,366	340,066	522,938	302,555	375,391	+53.8	+39.3	1,015,484	1,438,370	+41.6
Class of industry:												
Railroads.....thous. of dolls.....	65,784	133,183	60,483	118,225	223,013	11,695	21,500	+58.6	-----	94,808	401,721	+323.7
Public utilities.....thous. of dolls.....	26,509	150,779	492,000	172,445	328,481	253,001	316,262	+90.5	+3.9	744,347	992,926	+33.4
Industrials.....thous. of dolls.....	51,400	20,897	34,595	141,395	49,931	165,897	215,350	-64.7	-76.8	615,562	225,921	-63.3
Oil.....thous. of dolls.....	5,287	4,900	2,275	6,500	76,000	6,597	11,594	-----	+555.5	42,261	84,775	+100.6
Land and buildings.....thous. of dolls.....	19,259	12,683	28,193	17,725	17,075	118,249	77,314	-3.7	-77.9	264,572	62,993	-76.2
Shipping and misc.....thous. of dolls.....	33,893	22,504	84,634	39,119	51,226	394,300	239,395	+30.9	-82.3	1,089,388	174,979	-83.9

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per cent. increase (+) or decrease (-) cumulative 1930 from 1929
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930	
	BANKING AND FINANCE—Continued											
New Security Issues—Continued												
States and municipalities:												
Permanent loans.....thous. of dolls.	65,974	286,517	103,851	280,440	105,782	88,753	109,056	+31.5	-3.0	271,160	290,073	+7.0
Temporary loans.....thous. of dolls.	74,187	50,624	96,779	281,724	59,424	71,749	55,411	-27.3	+7.2	241,835	237,927	-1.6
Bond sales (Canada):												
Govt. and provincial.....thous. of dolls.	14,995	33,500	3,358	8,500	4,165			-51.0		6,417	16,023	+149.7
Municipal.....thous. of dolls.	18,766	28,139	7,773	12,521	10,821	7,037	5,444	-13.6	+98.8	29,503	31,115	+5.5
Corporation.....thous. of dolls.	3,944	31,830	15,000	35,290	15,975	28,725	47,326	-54.7	-66.2	89,256	66,265	-25.8
Tax-exempt securities outstanding, end of month.....mills. of dolls.	18,452	19,040	19,061	19,173	19,636	17,156	17,221	+2.4	+14.0			
Agricultural Finances												
Loans outstanding, end mo.:												
Federal farm loan banks.....thous. of dolls.	1,199,174	1,197,282	1,195,787	1,195,735	1,194,918	1,199,766	1,202,571	-0.1	-0.6			
Joint-stock land banks.....thous. of dolls.	587,723	584,824	582,062	580,148	577,195	603,827	604,294	-0.5	-4.5			
Federal intermediate credit banks.....thous. of dolls.	76,780	76,091	77,129	77,802	81,184	78,532	80,706	+4.3	+0.6			
Stocks and Bonds												
Stock prices, average daily closing:												
25 industrials, average.....dolls. per share.	274.63	286.95	294.78	315.25	328.24	350.88	355.10	+4.1	-7.6			
25 railroads, average.....dolls. per share.	123.25	126.84	126.29	131.94	131.55	131.70	129.30	-0.3	+1.7			
Southern cotton mills.....dolls. per share.	86.99	86.73	85.63	84.90	82.20	99.76	98.10	-3.2	-16.2			
103 stocks, average.....dolls. per share.	62.40	62.48	65.46	66.56	69.71	85.73	83.61	+4.7	-16.6			
Stock prices, average weekly closing:												
Industrials, rails, and utilities:												
(404).....rel. to 1926	151.1	153.8	156.3	165.5	172.4	186.5	189.1	+4.2	-8.8			
All industrials (337).....rel. to 1926	144.8	146.9	148.8	155.9	163.0	192.3	196.0	+4.6	-16.8			
All railroads (33).....rel. to 1926	135.1	136.3	136.5	142.5	143.2	141.6	140.4	+0.5	+2.0			
All utilities (34).....rel. to 1926	194.4	200.9	208.7	230.6	242.1	202.4	203.7	+5.0	+18.9			
Automobiles and trucks (13).....rel. to 1926	133.7	133.6	135.0	145.0	154.9	277.1	284.2	+6.8	-45.5			
Automobile tires and rubber goods (7).....rel. to 1926												
Airplane (10).....rel. to 1926	103.0	99.6	95.9	103.7	111.1	188.9	209.8	+7.1	-47.0			
Agricultural implements (4).....rel. to 1926	382.2	360.2	363.3	413.8	536.8	913.6	905.1	+29.7	-40.7			
Chain stores (17).....rel. to 1926	270.1	276.0	296.0	329.1	346.5	392.5	395.0	+5.3	-12.3			
Copper and brass (9).....rel. to 1926	106.1	102.3	100.2	99.9	152.9	152.9	149.6	-0.2	-33.2			
Food, other than meat (20).....rel. to 1926	204.0	196.0	192.8	193.3	192.8	286.2	329.3	-0.3	-41.5			
Machinery and machine equipment (10).....rel. to 1926	141.4	144.1	146.0	150.6	153.4	177.4	173.9	+1.9	-11.8			
Oil producing and refining (16).....rel. to 1926	135.3	142.5	145.6	154.4	161.4	173.5	167.2	+4.5	-3.5			
Railroad equipment (9).....rel. to 1926	130.6	131.9	128.8	127.5	140.6	132.6	141.4	+10.3	-0.6			
Rayon (5).....rel. to 1926	119.5	123.7	124.1	127.9	126.4	140.2	144.3	-1.2	-12.4			
Steel and iron (10).....rel. to 1926	102.0	96.7	91.2	86.1	84.5	155.5	143.7	-1.9	-41.2			
Textiles (30).....rel. to 1926	169.1	169.9	177.1	187.8	191.9	178.9	186.6	+2.2	+2.8			
Theaters, motion pictures, and amusements (7).....rel. to 1926	77.8	76.6	78.3	85.0	84.7	138.3	136.2	-0.4	-37.8			
Tobacco and tobacco products (10).....rel. to 1926	96.5	88.6	96.0	121.2	135.5	149.3	146.2	+11.8	-7.3			
Traction, motor transportation, etc. (9).....rel. to 1926	128.4	135.0	139.3	152.3	159.6	146.1	142.5	+4.8	+12.0			
Stock yields:												
Total common (90).....per cent.	4.54	4.48	4.38	4.14	3.99	3.38	3.31	-3.6	+20.5			
Industrials (50).....per cent.	4.89	4.83	4.75	4.53	4.36	3.40	3.28	-3.8	+32.9			
Public utilities (20).....per cent.	3.16	3.08	2.91	2.64	2.55	2.58	2.59	-3.4	-1.5			
Railroads (20).....per cent.	4.95	5.01	5.03	4.80	4.78	4.58	4.62	-0.4	+3.5			
Preferred high grade industrial (20).....per cent.	5.65	5.54	5.53	5.52	5.48	5.43	5.44	-0.7	+0.7			
Stock sales, N. Y. Stock Exch. ....thous. of shares.	72,455	83,862	62,308	68,723	96,552	77,969	105,662	+40.5	-8.6	294,435	227,583	-22.7
Bond sales:												
Miscellaneous.....thous. of dolls.	275,288	262,174	201,400	195,046	335,934	174,447	201,566	+72.2	+66.7	611,440	732,380	+19.5
Liberty-Treasury.....thous. of dolls.	15,746	15,361	7,975	8,136	15,222	9,504	12,149	+87.1	+25.3	35,425	31,333	-11.6
Total.....thous. of dolls.	291,034	277,535	209,375	203,182	351,156	183,951	213,715	+72.8	+64.3	646,865	763,713	+18.1
Bond prices:												
Highest-grade rails. p. ct. of par. 4% bond	87.79	89.18	89.52	88.81	90.52	88.63	87.87	+1.9	+3.0			
Second-grade rails. p. ct. of par. 4% bond	80.14	82.66	82.39	82.66	84.73	80.22	79.13	+2.5	+7.1			
Public utility. p. ct. of par. 4% bond	72.05	73.41	73.45	74.10	75.63	79.63	77.68	+2.1	-2.6			
Industrial. p. ct. of par. 4% bond	74.18	75.26	74.49	74.59	76.06	78.20	77.49	+2.0	-1.8			
Comb. price index. p. ct. of par. 4% bond	78.08	79.65	79.44	79.58	81.27	81.48	80.34	+2.1	+1.2			
Bond prices, 1st of following month:												
5 Liberty bonds. p. ct. of par.	104.24	103.76	103.08	103.87	104.53	101.36	100.14	+0.6	+4.4			
16 foreign gov't. and city. p. ct. of par.	103.89	104.31	104.60	104.52	104.52	102.98	104.07					
Comb. price index, 66 bonds. p. ct. of par.	99.11	98.89	99.02	99.22	99.20	99.47	98.36	0.0	+0.9			
Bond yields:												
Total, 60 high grade.....per cent.	4.70	4.64	4.64	4.65	4.55	4.65	4.69	-2.2	-3.0			
Railroads (15).....per cent.	4.57	4.50	4.51	4.53	4.43	4.56	4.59	-2.2	-3.5			
Industrials (15).....per cent.	5.09	5.03	5.04	5.02	4.95	5.01	5.02	-1.4	-1.4			
Utilities (15).....per cent.	4.88	4.80	4.79	4.79	4.71	4.79	4.81	-1.7	-2.1			
Municipal (15).....per cent.	4.25	4.22	4.23	4.24	4.12	4.25	4.32	-2.8	-4.6			
Municipal bond yield (20).....per cent.	4.29	4.23	4.29	4.27	4.10	4.22	4.34	-4.0	-5.5			
U. S. Treasury notes and certificates, 3-6 months.....per cent.	3.47	3.03	3.39	3.36	2.95	3.94	4.60	-12.2	-35.9			
Liberty and Treasury bonds.....per cent.	3.45	3.46	3.51	3.50	3.40	3.66	3.76	-2.9	-9.6			
Long-term and real-estate bonds issued:												
Grand total.....thous. of dolls.	7,820	8,100	23,363	15,290	11,350	34,049	68,431	-25.8	-83.4	163,545	50,003	-69.4
Purpose of issue—												
Finance construction.....thous. of dolls.	1,910	4,530	17,500	3,050	4,740	8,945	23,250	+55.4	-79.6	45,805	25,290	-44.8
Real-estate mortgage.....thous. of dolls.	1,055	215	2,075	3,205	1,360	7,824	31,663	-57.6	-95.7	50,732	6,640	-86.9
Acquisitions and improvements.....thous. of dolls.	4,380	300	750	200	850	2,870	9,280	+325.0	-90.8	38,350	1,800	-95.3
Kind of structure—												
Office and commercial.....thous. of dolls.	115	1,530	17,225	8,800	5,130	6,700	22,340	-41.7	-77.0	41,575	31,155	-25.1
Hotels.....thous. of dolls.	4,010	690	690			2,275	375			2,650	690	-74.0
Apartments.....thous. of dolls.	1,040	3,090	235		385	2,160	1,375		-72.0	6,460	620	-90.4
Interest rates.....per cent.	5.96	6.16	6.10	6.01	6.00	6.05	5.87	-0.2	+2.2			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through March, except where otherwise noted. 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 MAR. 31		Per cent. increase (+) or decrease (-) cumulative 1930 from 1929	
	November	December	January	February	March	February	March	Mar., 1930, from Feb., 1930	Mar., 1930, from Mar., 1929	1929	1930		
	BANKING AND FINANCE—Continued												
Corporation Stockholders													
<i>(Quarterly)</i>													
Pennsylvania Railroad Co.:													
Domestic.....	number												
Foreign.....	number	\$ 196,119				\$ 207,188		\$ 157,211	+5.6	+31.8			
American Telephone & Telegraph Co.:													
Domestic.....	number	\$ 465,165				\$ 487,390		\$ 443,570	+4.8	+9.9			
Foreign.....	number	\$ 5,190				\$ 5,370		\$ 5,415	+3.5	-0.8			
FOREIGN EXCHANGE RATES													
Europe:													
England.....	dolls. per £ sterling	4.88	4.88	4.87	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	.140	.139	.139	.139	.139	.139	0.0	0.0			
Netherlands.....	dolls. per guilder	.404	.404	.402	.401	.401	.401	.401	0.0	0.0			
Sweden.....	dolls. per krone	.269	.270	.268	.268	.269	.267	.267	+0.4	+0.7			
Switzerland.....	dolls. per franc	.194	.194	.194	.193	.194	.192	.192	+0.5	+1.0			
Asia:													
Japan.....	dolls. per yen	.487	.490	.491	.491	.493	.452	.445	+0.4	+10.8			
India.....	dolls. per rupee	.363	.364	.363	.362	.361	.364	.364	-0.3	-0.8			
America:													
Canada.....	dolls. per Canadian doll.	.984	.991	.989	.992	.998	.996	.994	+0.6	+0.4			
Argentina.....	dolls. per gold peso	.939	.930	.913	.865	.856	.958	.956	-1.0	-10.5			
Brazil.....	dolls. per milreis	.118	.113	.111	.112	.115	.119	.118	+2.7	-2.5			
Chile.....	dolls. per paper peso	.121	.121	.121	.120	.121	.121	.121	+0.8	0.0			
U. S. FOREIGN TRADE													
Imports													
Grand total.....	thous. of dolls.	338,472	309,809	310,968	281,707	300,404	369,442	383,818	+6.7	-21.7	1,122,157	893,140	-20.4
By grand divisions:													
Europe—													
Total.....	thous. of dolls.	106,816	86,562	88,783	84,616		104,350	109,839			421,456	4173,309	-18.0
France.....	thous. of dolls.	13,524	11,081	10,831	10,442		13,799	14,522			47,490	421,273	-22.6
Germany.....	thous. of dolls.	19,917	15,164	17,687	16,029		21,473	20,793			40,847	433,696	-17.5
Italy.....	thous. of dolls.	12,135	9,030	7,770	6,685		8,272	8,518			41,294	414,455	-16.4
United Kingdom.....	thous. of dolls.	24,081	18,131	18,163	20,114		23,501	31,458			453,028	438,177	-28.0
North America—													
Total.....	thous. of dolls.	73,254	66,393	68,784	61,494		79,923	92,253			4162,207	4130,278	-19.7
Canada.....	thous. of dolls.	42,456	37,637	37,394	33,289		36,981	39,938			479,034	470,683	-10.6
South America—													
Total.....	thous. of dolls.	46,432	49,099	44,035	46,488		60,171	60,716			4118,060	490,523	-23.3
Argentina.....	thous. of dolls.	11,236	9,507	6,572	9,453		10,601	12,679			420,023	416,025	-20.0
Asia and Oceania—													
Total.....	thous. of dolls.	102,846	101,296	97,712	83,471		115,805	110,470			4228,635	4181,133	-20.8
Japan.....	thous. of dolls.	39,240	39,413	31,106	28,110		32,158	36,020			470,582	459,216	-16.1
Africa, total.....	thous. of dolls.	9,206	7,223	11,653	5,721		9,693	10,541			417,980	417,374	-3.4
By economic classes:													
Crude materials.....	thous. of dolls.	121,448	115,631	109,026	98,581	101,686	137,792	138,645	+3.1	-26.7	418,688	309,293	-26.1
Foodstuffs, crude and food animals.....													
Total.....	thous. of dolls.	40,590	41,249	39,375	39,394	40,136	50,184	48,943	+1.9	-18.0	4146,808	4118,905	-19.0
Manufactured foodstuffs.....	thous. of dolls.	23,669	24,389	23,933	20,414	26,934	36,763	44,330	+31.9	-39.2	4109,866	471,282	-35.1
Semimanufactures.....	thous. of dolls.	66,150	57,826	68,022	59,030	62,690	69,480	70,525	+6.2	-11.1	4210,986	4189,742	-10.1
Finished manufactures.....	thous. of dolls.	81,615	70,713	70,613	64,288	69,017	75,222	81,375	+7.4	-15.2	4235,808	4203,918	-13.5
Exports													
Grand total, including reexports.....	thous. of dolls.	442,311	426,596	411,314	348,962	374,000	441,751	489,849	+7.2	-23.6	1,419,623	1,134,276	-20.1
By grand division:													
Europe—													
Total.....	thous. of dolls.	222,733	211,846	207,209	169,282		200,043	211,894			4435,775	4376,491	-13.6
France.....	thous. of dolls.	26,797	25,838	25,216	20,877		24,408	24,621			450,676	446,093	-9.0
Germany.....	thous. of dolls.	41,458	41,038	31,391	21,997		34,339	32,984			475,498	453,388	-29.3
Italy.....	thous. of dolls.	14,096	14,506	11,390	11,116		12,712	15,057			428,707	422,506	-21.6
United Kingdom.....	thous. of dolls.	84,782	77,917	79,351	59,442		69,303	75,659			4159,999	4138,793	-13.3
North America—													
Total.....	thous. of dolls.	103,601	93,959	88,911	90,507		107,398	130,696			4217,584	4179,418	-17.5
Canada.....	thous. of dolls.	68,002	57,003	54,162	57,696		70,762	90,634			4141,689	4111,858	-21.1
South America—													
Total.....	thous. of dolls.	36,437	38,618	37,481	28,236		53,075	53,054			4105,024	465,717	-37.4
Argentina.....	thous. of dolls.	13,515	15,681	13,919	10,638		19,394	19,122			438,764	424,557	-36.6
Asia and Oceania—													
Total.....	thous. of dolls.	70,218	72,540	67,357	51,995		70,220	79,809			4150,584	4119,352	-20.7
Japan.....	thous. of dolls.	28,097	27,442	23,997	15,018		22,472	23,086			448,586	439,015	19.7
Africa, total.....	thous. of dolls.	9,322	9,633	10,357	8,943		11,015	14,395			420,807	419,300	-7.2
By economic classes:													
Total domestic exports only.....	thous. of dolls.	435,480	420,578	404,376	343,056	363,170	434,529	481,710	+5.9	-24.6	1,396,623	1,110,603	-20.5
Crude materials.....	thous. of dolls.	144,771	125,995	103,907	67,916	70,435	92,323	86,458	+3.7	-18.5	4299,400	4242,258	-19.1
Foodstuffs, crude and food animals.....													
Total.....	thous. of dolls.	22,557	17,363	17,711	13,253	9,325	24,082	21,632	-29.6	-56.9	475,390	40,289	-46.6
Manufactured foodstuffs.....	thous. of dolls.	43,727	41,363	39,839	33,520	34,389	39,628	43,015	+2.6	-20.1	4130,179	407,748	-17.2
Semimanufactures.....	thous. of dolls.	51,837	54,443	50,784	45,303	49,094	60,861	66,890	+8.4	-26.6	4195,555	4145,131	-25.8
Finished manufactures.....	thous. of dolls.	172,589	181,414	192,136	183,064	199,928	217,537	263,715	+9.2	-24.2	4696,111	4575,127	-17.4
Agricultural exports (quantities):													
All commodities.....	rel. to 1910-1914	150	130	113	79	82	107	102	+3.8	-19.6			
All commodities except cotton.....	rel. to 1910-1914	147	129	123	105	98	134	129	-6.6	-24.0			
CANADIAN FOREIGN TRADE													
Total trade.....	thous. of dolls.	108,733	84,365	84,910	80,922	113,026	97,042	135,287	+39.7	-16.5	329,288	278,858	-15.3
Imports.....	thous. of dolls.	113,746	90,477	75,369	68,149	91,692	83,812	117,520	+34.5	-22.0	4298,628	4235,210	-21.2

2 Revised.

3 Quarter ending in month indicated.

4 Cumulative through F. B. 28.

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.

OFFICE OF THE SECRETARY

Air Commerce Bulletin, Mar. 15, 1930. 23 pages, 1 illus., 2 charts, 1 map. This bulletin is issued semi-monthly by the Aeronautics Branch of the Department of Commerce and contains short articles on aviation developments and a list of air transport routes.

Same, April 1, 1930. 27 pages.

Radio Service Bulletin, Mar. 1930. 28 pages. This bulletin is issued monthly by the Radio Division of the Department of Commerce. It contains a list of radio stations and references to current radio literature. Single copies, 5 cents; annual subscription, 25 cents.

BUREAU OF THE CENSUS

(For information concerning the plan of publication and distribution of Census reports, address the Director of the Census.)

Mental Patients in State Hospitals, 1926 and 1927.—This bulletin summarizes the principal facts which are presented in the complete report on mental patients for 1926 and 1927. Paper, 19 pages, price 5¢.

BUREAU OF FOREIGN AND DOMESTIC COMMERCE

(The publications of this bureau may also be purchased from the bureau or its district offices.)

Monthly Summary of Foreign Commerce of United States, Feb. 1930. Parts I and II. Part I contains statistics of exports of domestic merchandise, and reports by articles for February, 1929 and 1930, and for two months ending February, 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.

Industrial Structure of New England, by Charles B. Artman. Domestic Commerce Series No. 28. xii+591 pages, 23 illus., 19 charts, 5 maps. This is Part I of the commercial survey of New England and discusses the physical and natural resources of New England. It shows the agricultural activities, forest and mineral resources, fisheries, transportation facilities, power resources, fuel supply, population, the chief manufactures, operations of the printing and publishing industry, and building operations. Price, \$1.50.

National Retail Credit Survey: Part I. Domestic Commerce Series No. 43. ix+52 pages. Survey of the credit business of different kinds of stores. Price, 10¢.

Foreign Trade Opportunity Manual for Guidance of Officers in Foreign Service of Department of Commerce and Department of State. ix+67 pages. Shows in detail the kind of information which should be given by men in the foreign service in reporting opportunities abroad for sales of American products.

Index to Commerce Reports, Nos. 40-52, Vol. 4, Thirty-second Year, Oct.-Dec., 1929. ii+xxiv pages. This publication, issued quarterly, indexes all material published in Commerce Reports under the subject, country, and author for the period indicated. Single copies, 5¢; annual subscription 20¢.

Price of Silver. Trade Information Bulletin No. 682. ii+21 pages, 6 charts. This bulletin shows the production of silver in different parts of the world, the countries where there is the greatest demand, and the causes of the fluctuation in price of this metal. Price, 10¢.

BUREAU OF STANDARDS

Bureau of Standards Journal of Research, Apr. 1930, Vol. 4, No. 4. Pages 441-599, illustrations, plates, charts. This journal 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. Price of single copies varies according to size of the journal. Price of this volume is 40¢. Annual subscription, \$2.75.

Sodium Oxalate as Standard in Volumetric Analysis. Circular No. 331. 6+9 pages. (Supersedes third edition of Circular No. 40.) Tests of sodium oxalate for use as a preliminary volumetric standard for iodometry and argentometry. Price, 5¢.

Diamond Core Drill Bitings. Commercial Standard CS17-30. vi+16 pages, 7 illustrations. Price, 10¢.

Testing Equipment for Large-capacity Scales for Use of Weights and Measures Officials, prepared by Ralph W. Smith. Miscellaneous Publication No. 104. iv+17 pages, 15 illustrations. Descriptions of the equipment used in testing weighing apparatus for heavy loads. Price, 10¢.

Standards Yearbook, 1930. Miscellaneous Publication No. 106. vi+301 pages. Brief account of national and international standardizing agencies, municipal, county, and state agencies, and standardizing activities of technical societies and trade associations, with a survey of the accomplishments of the Bureau of Standards along this line. There is included a bibliography on standardization. Price, 75¢.

BUREAU OF MINES

Petroleum Refinery Statistics, 1928, by C. R. Hopkins. Bulletin 318; iv+123 pages, 2 plates, 13 charts. Gives statistics regarding the production of petroleum products during 1927 and 1928, the trade in these products, prices, motor vehicle registrations, and gasoline taxes. Price, 25¢.

Coal-mine fatalities in United States, 1928, by William W. Adams. Bulletin 319; vi+125 pages. Statistics showing the number of men killed in coal mines and the causes of the accidents. Price, 20¢.

Mineral Resources of United States, 1928. The reports on mineral resources are first issued in the form of bulletins of which the following have been released since the April announcement and may be obtained at the price indicated:

Asphalt and Related Bitumens in 1928, by A. H. Redfield. (Pt. II, pp. 391-422.) Price, 10¢.

Cement in 1928, by B. W. Bagley. (Pt. II, pp. 337-372.) Price, 10¢.

Gold, Silver, Copper, and Lead in South Dakota and Wyoming in 1928, by Chas. W. Henderson. (Pt. I, pp. 424-439.) Price, 5¢.

BUREAU OF FISHERIES

Studies of Common Fishes of Mississippi River at Keokuk, by Robert E. Coker. Document No. 1072. (From Bulletin of Bureau of Fisheries, Vol. XLV, 1929, pp. 141-225, 21 illustrations, 4 plates, 5 charts.) Study of the different kinds of fish found in the Mississippi River in the Keokuk region. There is included a bibliography on fish. Price, 50¢.

Net Preservative Treatments, by W. T. Conn. Document No. 1075. (Appendix III to Report of Commissioner of Fisheries for Fiscal Year 1930, pp. 41-45.) This publication gives the ingredients which can be used for preservative purposes in order to prolong the life of different kinds of fishing nets. Price, 5¢.

BUREAU OF NAVIGATION

American Documented Seagoing Merchant Vessels of 500 Gross Tons and Over, March, 1930. ii+71 pages. Published monthly. Single copies, 10 cents; annual subscription, 75¢.

COAST AND GEODETIC SURVEY

Directions for Magnetic Measurements, by Daniel L. Hazard. Serial No. 466; vi+129 pages, 5 illus., 6 plates. Manual for guidance in obtaining measurements in terrestrial magnetism, giving the theory of magnetic measurements, directions for observations on land and at sea, the operation of a magnetic observatory, and methods used for recording earthquakes. Price, 30¢.

Current Tables, Pacific Coast, North America and Philippine Islands for Year 1931. Serial No. 466; 117 pages, 3 illus., 5 charts. Price, 10¢.

Catalogue of U. S. Coast and Geodetic Survey Charts, Maps, Coast Photos, Tide Tables, Current Tables, Apr. 1, 1930. Serial No. 471; 48 pages, 19 illus.

LIGHTHOUSE SERVICE

Atlantic Coast of United States: Local Light List, Including Lights, Fog Signals, Buoys, and Daymarks, Cape Lookout to Dry Tortugas, Sixth and Seventh Lighthouse Districts, 1930 (corrected to Dec. 15, 1929). 444 pages. This list describes all aids to navigation maintained by the United States on the Atlantic coast from Cape Lookout, North Carolina, to Dry Tortugas, Florida. Price, 30¢.

Atlantic Coast of United States: Local Light List, Including Lights, Fog Signals, Buoys, and Daymarks, Cape May to Cape Lookout, Including Delaware and Chesapeake Bays and North Carolina Sounds, Fourth and Fifth Lighthouse Districts, 1930 (corrected to Dec. 15, 1929). 419 pages. This list describes all aids to navigation maintained by the United States within the territory stated. Price, 30¢.

Atlantic Coast of United States: Local Light List, Including Lights, Fog Signals, Buoys, and Daymarks, New England Coast, Maine to Massachusetts, First and Second Lighthouse Districts, 1930 (corrected to Dec. 15, 1929). ii+180 pages. This list describes all aids to navigation maintained by the United States on the coast of Maine and Massachusetts. Price, 30¢.

CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

R. P. LAMONT, Secretary of Commerce

JULIUS KLEIN, Assistant Secretary of Commerce.

EPHRAIM P. 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. STEUART, 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 85 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. BUGESS, 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. PURMAN, 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. FARRON, 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. TRISA, Commissioner

Superintendence of commercial marine and merchant seamen. Supervision of registering, arming, 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. HOVMA, 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 fireboat men; and the investigation of violations of steamboat inspection laws.

UNITED STATES PATENT OFFICE

THOMAS E. ROBINSON, 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. TRAWELL, 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.