

UNITED STATES
DEPARTMENT OF COMMERCE
WASHINGTON

SURVEY OF
CURRENT BUSINESS

JULY, 1930

No. 107



ISSUED BY

BUREAU OF FOREIGN AND DOMESTIC COMMERCE

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 Saturday 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 114 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

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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 100 in one month increases 10 per cent in the following month, its relative number will be 110, and on an ordinary chart would be plotted 10 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 10 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 stamp.) 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 stamp.)

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UNITED STATES DEPARTMENT OF COMMERCE

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No. 107

WASHINGTON

July, 1930

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PRELIMINARY SUMMARY FOR JUNE

Business in June, as measured by the volume of checks presented for payment, was lower than the corresponding period in 1929. Carloadings indicative of the distribution of commodities through primary channels receded but slightly from the preceding month and were lower than in June, 1929.

The activity in steel plants was on a lower plane than the month of May or a year ago. Building, as indicated by the number of contracts awarded for the early weeks of June registered greater activity than during the corresponding period last month. The production of bituminous coal declined seasonally from May and was lower than the month of June, last year. The output of crude petroleum, declined from both comparative periods.

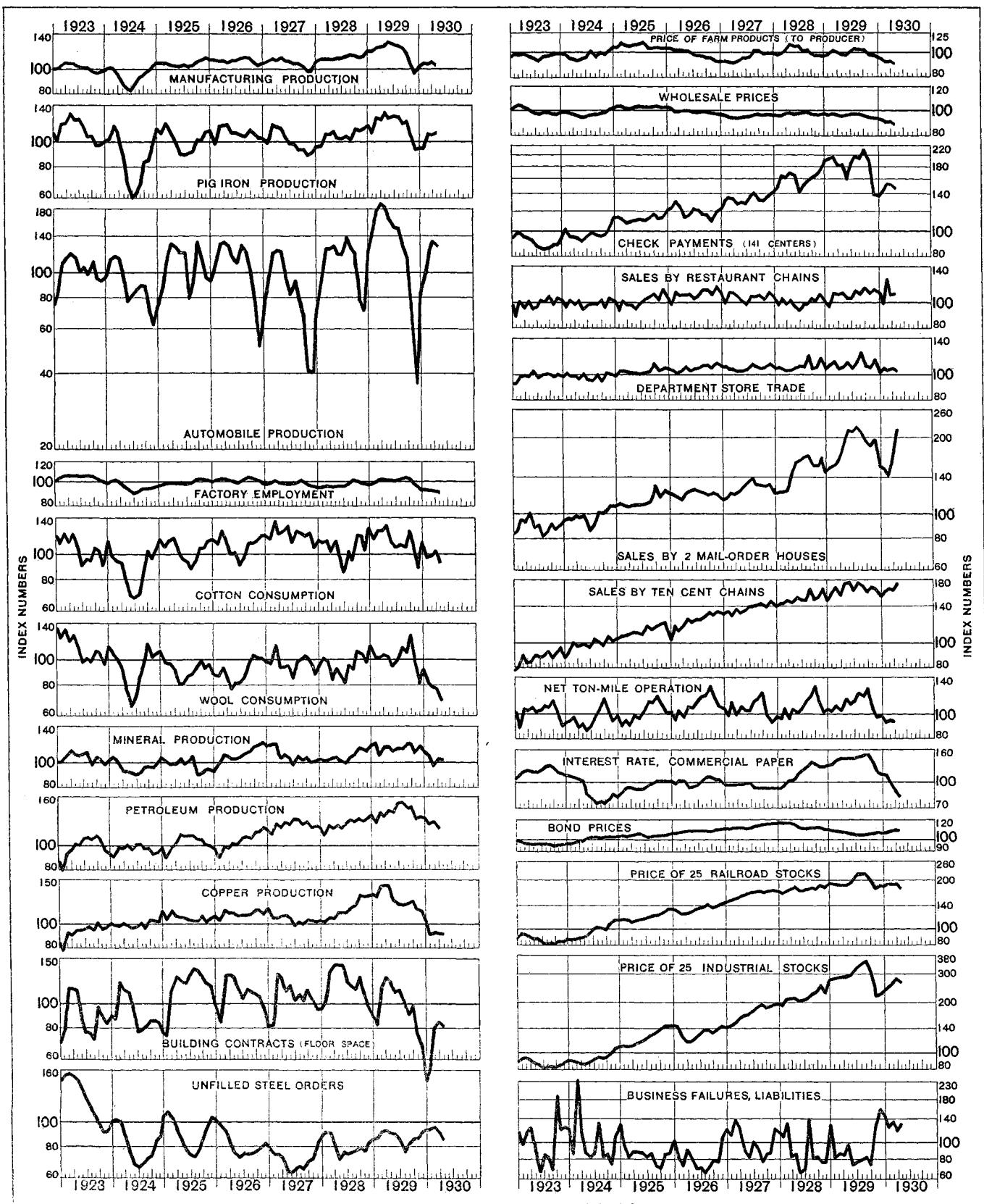
The general index of wholesale prices in June was lower than in either the preceding month or in June,

1929. Prices for wheat declined from the month of May and were materially lower than a year ago. Cotton prices showed similar comparisons with prior periods. The prices for iron and steel receded slightly from the preceding month and were lower than in June, last year.

Bank loans and discounts registered gains over both comparative periods. Interest rates, both for call and time money, were lower than during the previous month and the corresponding period a year ago. Brokers loans at the end of June were less than at the end of the preceding month and June, 1929. Prices for representative bonds were lower than either period. Business failures as reported by R. G. Dun & Co., while fewer than in May were more numerous than a year ago. Liabilities of failing firms were larger than the preceding month and a year ago.

MONTHLY BUSINESS INDICATORS, 1923-1930

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



MONTHLY BUSINESS INDICATORS

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

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

ITEM	MONTHLY AVERAGE							1929						1930							
	1923	1924	1925	1926	1927	1928	1929	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
	1923-1925 monthly average=100																				
Industrial production:																					
* Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	124.0	128.0	125.0	124.0	122.0	117.0	105.0	96.0	102.0	106.0	105.0	107.0	104.0	
* Total minerals.....	105.0	96.0	99.0	107.0	107.0	106.0	115.0	116.0	122.0	114.0	115.0	118.0	118.0	110.0	116.0	122.0	108.0	96.0	104.0	103.0	
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	130.5	124.4	126.7	125.7	117.1	120.1	106.5	94.9	94.0	95.0	108.6	106.5	108.2	
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.6	152.9	141.9	140.3	142.9	131.0	131.2	101.9	84.0	109.8	118.0	124.4	120.2	116.4	
Automobiles.....	101.7	90.8	107.5	108.4	88.7	109.9	135.1	182.9	165.1	151.5	150.8	125.8	114.9	65.8	36.3	83.3	104.9	121.4	133.9	126.2	
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	129.9	135.2	139.3	149.5	138.6	134.6	113.1	90.2	68.4	65.7	90.3	108.8	139.0	
Cotton (consumption).....	106.9	89.7	104.4	108.5	120.2	106.7	114.6	130.3	111.1	106.6	108.7	106.3	106.0	88.4	112.5	96.5	99.1	103.7	92.3	108.9	
Wool (consumption).....	112.8	94.6	92.6	89.7	97.0	94.7	103.1	102.9	93.0	99.8	111.1	105.0	125.3	98.5	79.8	92.1	80.9	78.5	77.7	68.9	
Raw material output:																					
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	108.9	111.8	116.0	100.0	98.7	102.6	95.2	93.0	94.7	83.8	97.6	100.5	110.5	
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	51.1	66.3	91.1	134.5	177.1	246.3	154.6	139.2	78.7	62.6	55.6	53.2	56.0	
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	98.6	89.9	88.3	91.8	80.3	89.2	82.0	69.6	63.3	66.5	73.6	79.2	84.9	
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	137.5	135.9	148.8	150.3	142.2	143.5	127.3	130.9	129.4	121.2	126.1	125.7	130.6	
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	100.5	92.2	87.4	93.4	100.7	102.2	117.6	104.9	107.5	114.3	90.8	82.1	82.3	82.5	
Copper.....	93.4	100.2	105.4	110.2	104.9	114.9	127.1	141.6	124.9	120.1	119.6	120.4	125.2	115.1	113.4	102.9	89.8	92.8	91.7	91.4	
Power and construction:																					
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.7	161.2	154.9	159.8	166.6	160.7	173.6	164.4	169.8	172.5	151.9	162.9	158.7	-----	
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	122.4	109.7	113.7	100.5	90.2	98.9	76.9	66.3	49.6	57.6	81.1	53.3	81.0	
Unfilled orders:																					
General index.....	121.7	87.0	91.3	84.6	74.0	76.2	80.8	88.4	83.4	82.1	76.0	76.8	76.8	73.7	77.7	80.2	79.4	82.0	77.9	75.0	
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	90.1	89.2	85.6	76.6	81.7	85.6	86.4	92.5	93.6	93.8	95.7	91.2	85.0	
Stocks:																					
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	122.8	120.2	121.8	127.2	139.2	154.8	156.5	158.0	150.8	147.3	141.8	134.6	127.7	
Manfd. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	120.4	121.1	120.3	115.7	113.8	113.9	115.6	118.9	121.5	124.9	127.4	124.1	117.7	
Cotton.....	102.5	91.4	106.2	145.6	153.1	123.6	126.8	88.4	70.9	54.2	58.2	106.8	177.5	199.8	206.4	192.5	177.4	158.3	141.1	129.5	
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	62.2	73.4	86.3	92.2	83.7	78.1	111.7	151.3	179.7	205.9	226.2	266.2	272.6	
Employment:																					
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	101.6	101.2	100.7	102.0	103.4	102.1	98.2	94.8	92.9	92.9	92.7	92.1	90.4	
Prices:																					
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	98.6	97.8	101.4	103.6	102.2	101.4	98.6	97.8	97.1	94.9	91.3	92.0	89.9	
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	95.1	95.7	97.3	97.0	96.8	95.6	93.7	93.5	92.8	91.5	90.2	90.1	88.5	
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	102.4	103.4	105.9	107.0	107.4	107.2	106.7	105.6	103.8	102.2	100.3	102.9	100.3	
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	97.0	97.6	98.8	99.4	99.4	99.3	98.7	97.4	96.8	95.6	96.2	95.0	95.0	
Distribution (values):																					
* Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	158.2	184.5	180.5	159.0	184.8	198.2	192.8	211.1	190.0	139.8	136.7	144.4	153.4	152.1	145.8	
Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	107.0	112.0	106.0	112.0	123.0	109.0	107.0	115.4	102.0	106.0	104.0	106.0	104.0	
* Mail-order sales, 2 houses.....	89.3	97.2	111.9	120.6	126.2	147.7	188.6	194.8	215.1	211.2	223.3	212.1	194.7	186.0	199.9	154.7	149.6	140.7	164.0	218.6	
* 10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	172.0	174.0	162.0	174.0	168.0	159.0	166.0	165.0	152.0	162.0	164.0	161.0	174.0	
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	121.0	109.3	109.1	110.0	114.5	133.5	122.0	153.3	120.9	111.3	121.8	122.3	117.3	
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	123.0	109.4	109.6	114.8	108.8	121.1	104.8	96.1	96.3	87.2	93.0	95.3	88.2	
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	115.2	101.4	103.0	106.2	100.4	115.3	139.6	116.5	112.4	108.3	91.9	97.4	88.0	84.8	
Transportation:																					
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	112.6	109.1	112.5	120.4	118.5	128.1	103.8	96.6	98.3	92.0	94.6	93.5	-----	
Finance:																					
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	129.3	135.1	136.2	135.3	139.1	151.1	141.3	140.9	133.1	131.1	135.0	135.4	134.4	
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	139.2	139.2	142.2	145.0	145.0	133.4	116.0	113.2	110.2	98.6	90.0	87.0		
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	96.5	94.4	96.4	97.7	94.2	89.9	93.0	90.2	101.4	102.1	103.4	106.9	108.7	
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	106.7	105.4	104.9	104.1	103.9	105.2	105.0	107.1	106.8	107.0	109.3	109.2	109.2	
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.6	194.3	184.4	192.1	213.4	216.3	217.7	203.5	176.2	181.4	180.6	188.6	188.1	187.6	176.7	
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	290.3	297.8	330.8	344.5	358.5	316.3	219.4	229.3	235.5	251.9	262.2	279.2	261.3	
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	97.2	74.0	76.5	79.6	80.5	73.9	122.8	159.1	144.3	121.1	134.1	115.7	131.0	

* Seasonal adjustments.

BUSINESS CONDITIONS IN MAY

PRODUCTION

Manufacturing output in May, according to the weighted index of the Federal Reserve Board, using adjustments for seasonal variations, was 5 per cent below the level of the month of April and 17 per cent lower than the corresponding month in 1929. Gains in production of food products and cement were insufficient to offset declines in iron and steel, textiles, automobiles, leather and shoes, nonferrous metals, and tobacco manufactures. As compared with the month of May, 1929, all groups except the production of cement showed declines. Mineral production, after adjustments for seasonal variations, was 1 per cent

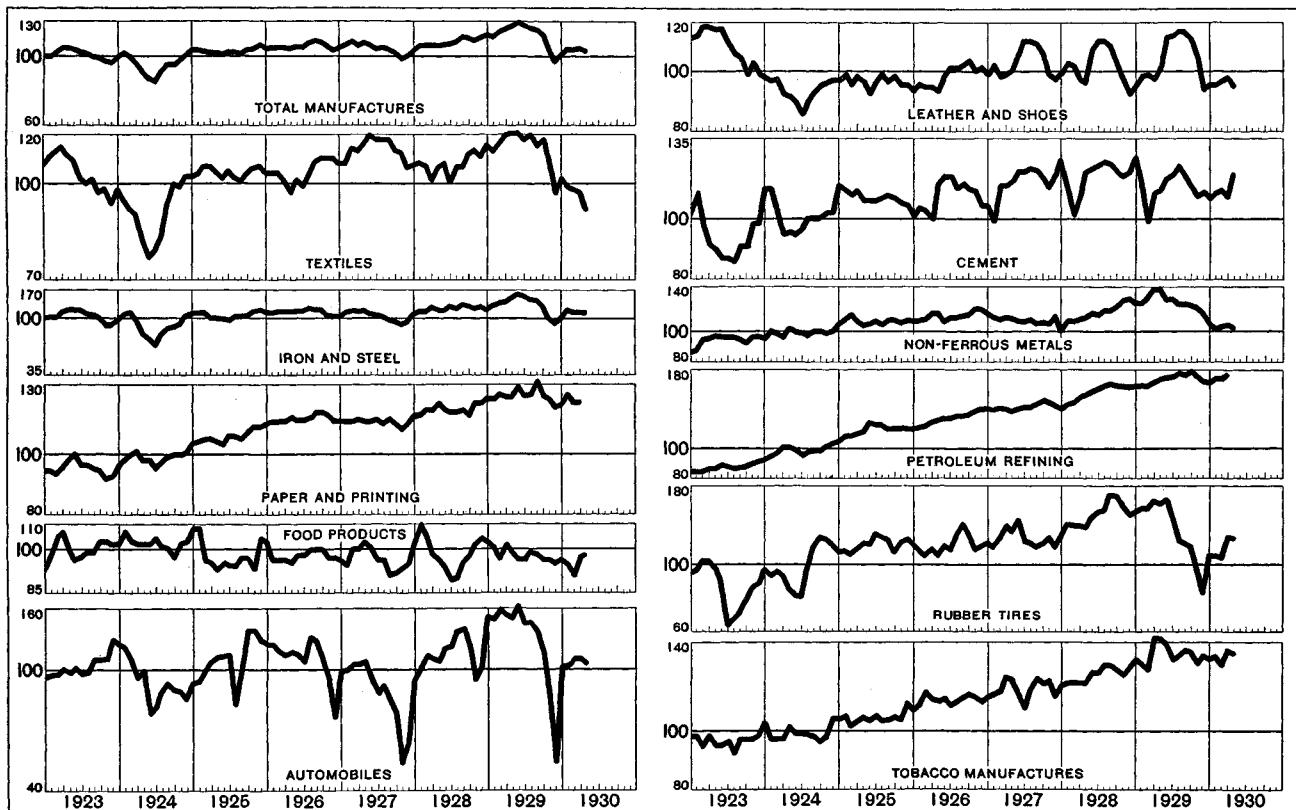
occurred in unfilled orders for textiles, iron and steel, and transportation equipment.

WHOLESALE TRADE

Wholesale trade in May was generally lower than during April, declines occurring in the sales of groceries, dry goods, hardware, and drugs. For the period of January 1 to May 31, sales of dry goods, hardware, and drugs showed declines of more than 5 per cent from the corresponding period a year ago. The sales of groceries during this period, due to constant demand, showed only a small loss from the first five months of last year. Retail trade in May, as measured by department-store trade in 269 cities, after

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



higher than the preceding month and 11 per cent lower than the corresponding period of 1929.

COMMODITY STOCKS

Total stocks of commodities held at the end of May, although showing a decline from April, were 4 per cent above the level of a year ago. Stocks of finished goods in the hands of manufacturers declined from both the preceding month and the month of May, 1929.

SALES

The general index of unfilled orders in May was lower than the preceding month and May a year ago. As compared with the preceding period, declines

adjustments for seasonal variations, was 2 per cent lower than both the preceding month and May, 1929. The sales of mail-order houses and representative 10-cent chains registered increases over both prior periods.

IMPORTS AND EXPORTS

Total imports of merchandise during May were lower than during the preceding month and May, 1929. Increased imports over April of manufactured foodstuffs were insufficient to offset declines in imports of crude materials, crude foodstuffs and food animals, and semimanufactures and finished products. Exports declined from April and a year ago, due mainly to the smaller cotton shipments.

PRICES

The general index of wholesale prices in May showed a decline of 2 per cent from the month of April, and was 7 per cent lower than May, 1929. All groups included in the index showed declines when compared with a year ago. In comparison with the month of April, the following groups registered declines, farm products, food, textile products, metals and metal products, building materials, and miscellaneous items, while the prices of hide and leather products, fuels and lighting, chemicals and drugs, and house-furnishing goods showed no change.

Classified by State of manufacture, prices for all groups showed lower averages than in either the

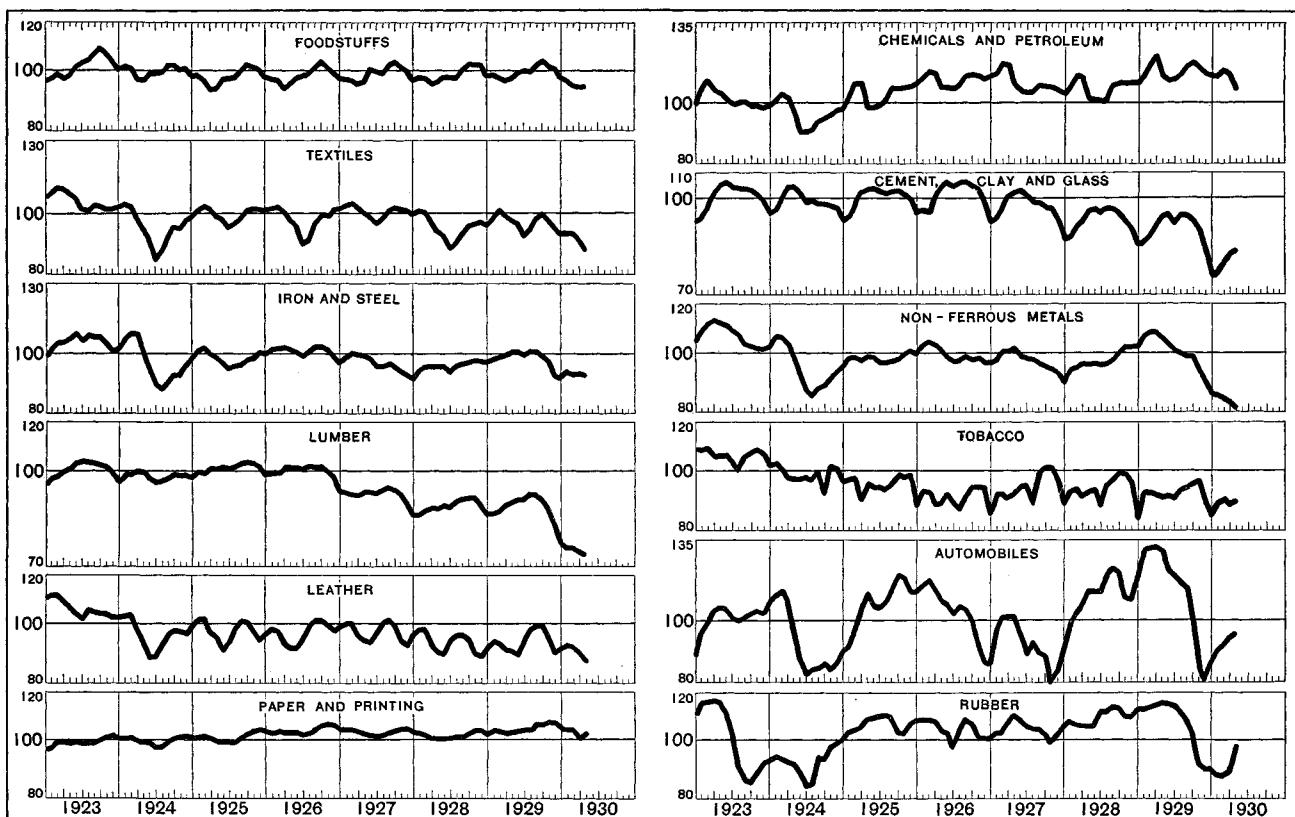
7 per cent for grains, 13 per cent for meat animals, 12 per cent for dairy and poultry products, and 20 per cent for cotton and cottonseed were registered.

EMPLOYMENT

Factory employment in May, as measured by the Index of Employment compiled by the Federal Reserve Board, was 2 per cent less than the previous month and 12 per cent lower than in May, 1929. As compared with the preceding month increased employment was registered in factories producing food, automobiles, cement, clay and glass, and tobacco. Declines in employment occurred in factories producing machinery, textiles, lumber, leather, and chemicals, the decrease being more than 2 per cent in each line. As compared

FACTORY EMPLOYMENT, BY GROUPS

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



preceding month or the corresponding period a year ago, the principal declines from last year occurring in the prices for raw materials, semimanufactured articles, finished products, and nonagricultural commodities where the decrease was more than 6 per cent in each case.

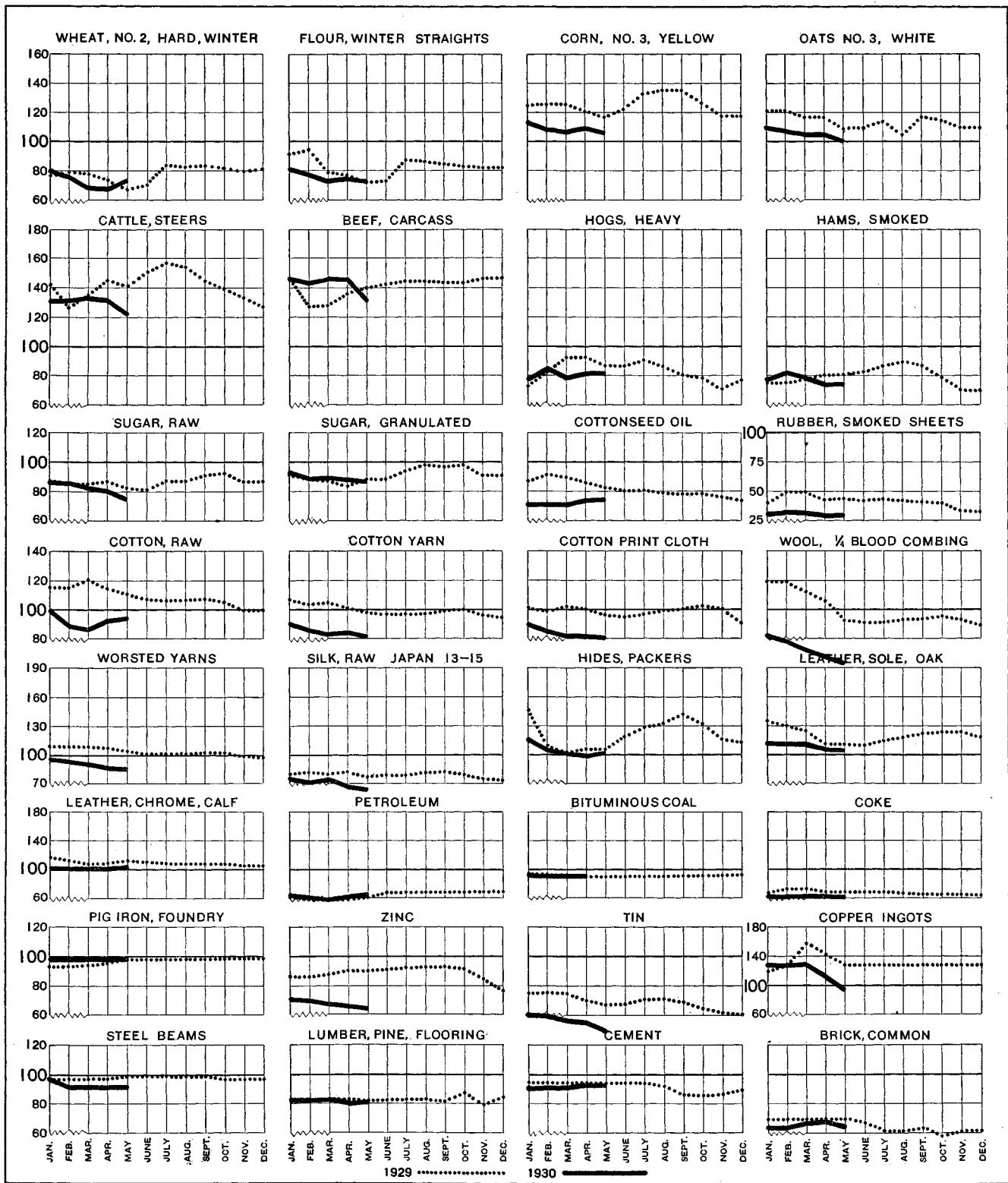
The index representing prices received by farmers for their products was 2 per cent lower than in April and 9 per cent lower than a year ago. As compared with the preceding month, an increase in the price of fruits and vegetables was insufficient to offset declines in prices for grains, meat animals, dairy and poultry products, and cotton and cottonseed. Compared with a year ago the prices received for fruits and vegetables showed an increase of 62 per cent, while decreases of

with a year ago all industrial groups showed smaller employment; the principal decrease occurring in automobile and machinery establishments where the declines were 27 and 13 per cent, respectively.

Factory pay rolls in May were 3 per cent lower than in April and 15 per cent lower than in May a year ago. As compared with the month of April increased wage payments in factories producing foods, automobiles, rubber, and tobacco products were insufficient to offset declines in wages paid by factories producing iron and steel, machinery, textile, leather, nonferrous metals, and chemicals. Compared with a year ago all groups registered declines except the petroleum group which showed increased pay rolls of 2 per cent.

WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



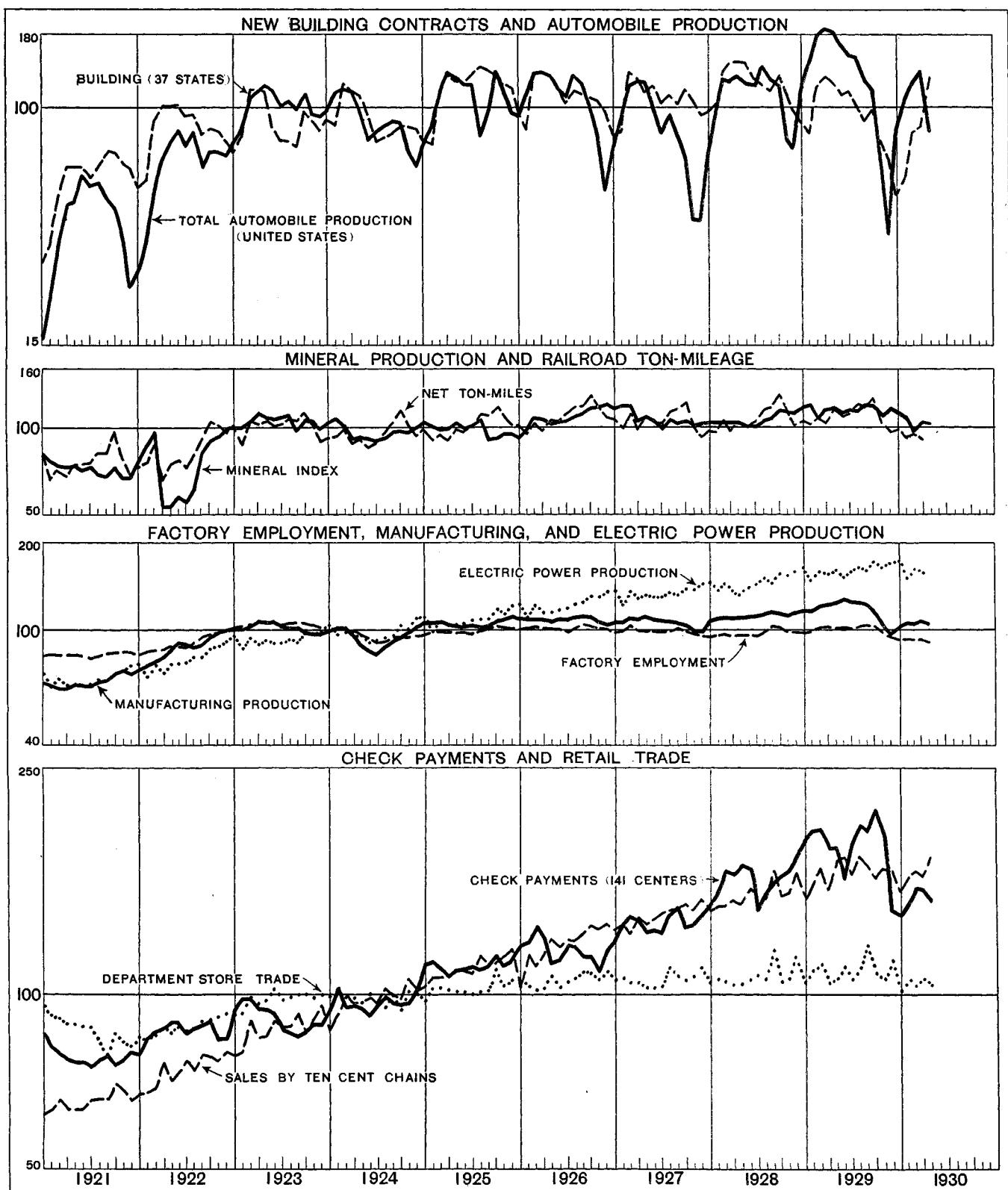
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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					March, 1930	April, 1930	May, 1930	April, 1929
		April, 1930	May, 1930	May, 1929	March, 1930	April, 1930				
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER										
Wheat.....	Bushel.....	0.934	0.875	0.901	68	69	65	74	67	
Corn.....	Bushel.....	.783	.777	.862	107	112	111	125	123	
Potatoes.....	Bushel.....	1.461	1.502	.593	74	79	81	30	32	
Cotton.....	Pound.....	.147	.145	.180	91	97	96	123	119	
Cottonseed.....	Ton.....	29.74	30.61	37.78	105	109	113	143	139	
Cattle, beef.....	Pound.....	.0865	.0636	.0972	136	134	129	148	151	
Hogs.....	Pound.....	.0917	.0899	.0980	81	78	76	86	84	
Lambs.....	Pound.....	.0902	.0892	.1231	83	78	77	116	111	
FARM PRODUCTS—MARKET PRICE										
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	1.11	1.07	1.11	71	70	68	76	70	
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	1.17	1.14	1.17	76	76	74	81	76	
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	1.01	.99	1.01	69	68	66	74	68	
Corn, No. 3, yellow (Chicago).....	Bushel.....	.82	.79	.87	107	109	105	120	116	
Oats, No. 3, white (Chicago).....	Bushel.....	.43	.41	.45	105	105	100	117	110	
Barley, No. 2 (Minneapolis).....	Bushel.....	.56	.55	.60	86	88	86	102	94	
Rye, No. 2 (Minneapolis).....	Bushel.....	.68	.65	.85	72	74	71	97	92	
Cotton, middling upland (New York).....	Pound.....	.163	.164	.195	86	93	94	115	111	
Wool, $\frac{1}{4}$ blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.31	.29	.43	72	67	63	107	94	
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	12.563	11.563	13.438	134	132	121	146	141	
Hogs, heavy (Chicago).....	Cwt.....	9.975	10.019	10.750	80	81	81	93	87	
Sheep, ewes (Chicago).....	Cwt.....	5.125	4.781	5.906	78	78	73	139	90	
Sheep, lambs (Chicago).....	Cwt.....	8.938	0.044	12.781	71	65	66	120	93	
FOOD										
Flour, standard patents (Minneapolis).....	Barrel.....	6.090	5.969	6.119	74	72	71	76	73	
Flour, winter straights (Kansas City).....	Barrel.....	5.400	5.270	5.213	73	75	73	77	72	
Sugar, 96° centrifugal (New York).....	Pound.....	.035	.032	.036	82	80	74	84	82	
Sugar, granulated, in barrels (New York).....	Pound.....	.048	.048	.049	89	88	87	88	89	
Cottonseed oil, prime yellow (New York).....	Pound.....	.087	.088	.097	71	74	74	86	82	
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.239	.215	.236	146	145	131	136	140	
Beef, fresh, carcass, steers (New York).....	Pound.....	.220	.220	.231	126	129	129	132	135	
Pork, smoked hams (Chicago).....	Pound.....	.229	.228	.249	79	74	74	81	81	
Butter, creamery, 92 score (New York).....	Pound.....	.39	.35	.44	82	87	78	100	98	
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.....	.302	.290	.353	83	84	81	101	99	
Cotton-print cloth 64 x 60-38 $\frac{1}{2}$ "-5.35-yards to pound.....	Yard.....	.061	.061	.073	82	81	80	100	97	
Cotton sheeting, brown 4/4 Trico (New York).....	Yard.....	.076	.078	.087	84	82	84	96	94	
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.250	1.225	1.500	91	87	85	108	105	
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.900	.900	.975	90	87	87	94	94	
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.756	1.756	2.008	88	88	88	100	100	
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.843	1.843	1.959	85	85	85	90	90	
Silk, Japan, 13-15.....	Pound.....	4.186	3.940	4.777	73	68	64	83	77	
Hosiery, women's pure silk, mill.....	Dozen pair.....	8.500	8.500	9.500	73	73	73	82	82	
LEATHER										
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.140	.143	.149	101	100	102	107	106	
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.159	.169	.179	90	91	97	108	103	
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.470	.460	.490	112	107	105	112	112	
Boots and shoes, men's black calf, blucher (Massachusetts).....	Pair.....	6.750	6.750	6.750	106	106	106	106	106	
Boots and shoes, men's dress welt tan calf oxford (St. Louis).....	Pair.....	4.850	4.850	4.850	100	100	100	100	100	
FUEL										
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.901	3.902	3.908	91	90	90	91	91	
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.083	4.071	4.124	90	85	85	86	86	
Coal, anthracite, chestnut (composite price).....	Long ton.....	12.887	12.474	12.539	95	94	91	92	91	
Coke, Connellsburg (range of prompt and future), furnace—at ovens.....	Short ton.....	2.600	2.525	2.800	63	63	62	68	68	
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.163	1.178	1.158	59	62	63	59	61	
METALS										
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	20.260	20.260	20.260	98	98	98	96	98	
Pig iron, basic, valley furnace.....	Long ton.....	18.500	18.500	18.375	100	100	100	97	99	
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	33.000	32.500	36.000	94	94	93	99	103	
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1562	.1276	.1778	129	113	93	141	129	
Brass, sheets, mill.....	Pound.....	.218	.198	.233	122	115	104	128	122	
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0543	.0552	.0700	67	65	66	85	83	
Tin, straits (New York).....	Pound.....	.3607	.3213	.4392	56	55	49	70	67	
Zinc, slab, western (St. Louis).....	Pound.....	.0484	.0464	.0662	67	66	63	91	90	
BUILDING MATERIAL AND MISCELLANEOUS										
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	36.390	36.530	37.000	83	81	81	83	82	
Brick, common red, domestic building (New York).....	Thousand.....	11.250	10.500	11.500	67	68	64	70	70	
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.617	1.617	1.650	93	93	93	95	95	
Steel beams, mill (Pittsburgh).....	Cwt.....	1.800	1.800	1.950	92	92	92	97	100	
Rubber, smoked sheets (New York).....	Pound.....	.150	.142	.214	32	31	29	44	44	
Sulphuric acid, 66°, (New York).....	Ton.....	15.500	15.500	15.500	107	107	107	107	107	
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3.250	3.250	94	94	94	94	94	

MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

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



REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

TEXTILES

Receipts of foreign and domestic wool at Boston during May showed seasonal increases over the month of April and May, 1929. Consumption of wool by textile mills registered declines when compared with the preceding month and a year ago. Machinery activity, in woolen mills was generally higher than during the preceding month but lower than during May, 1929. Imports of wool into the United States decreased from both comparative periods. Prices for raw wool at Boston showed but slight changes from the month of April, while the price for worsted yarns declined slightly.

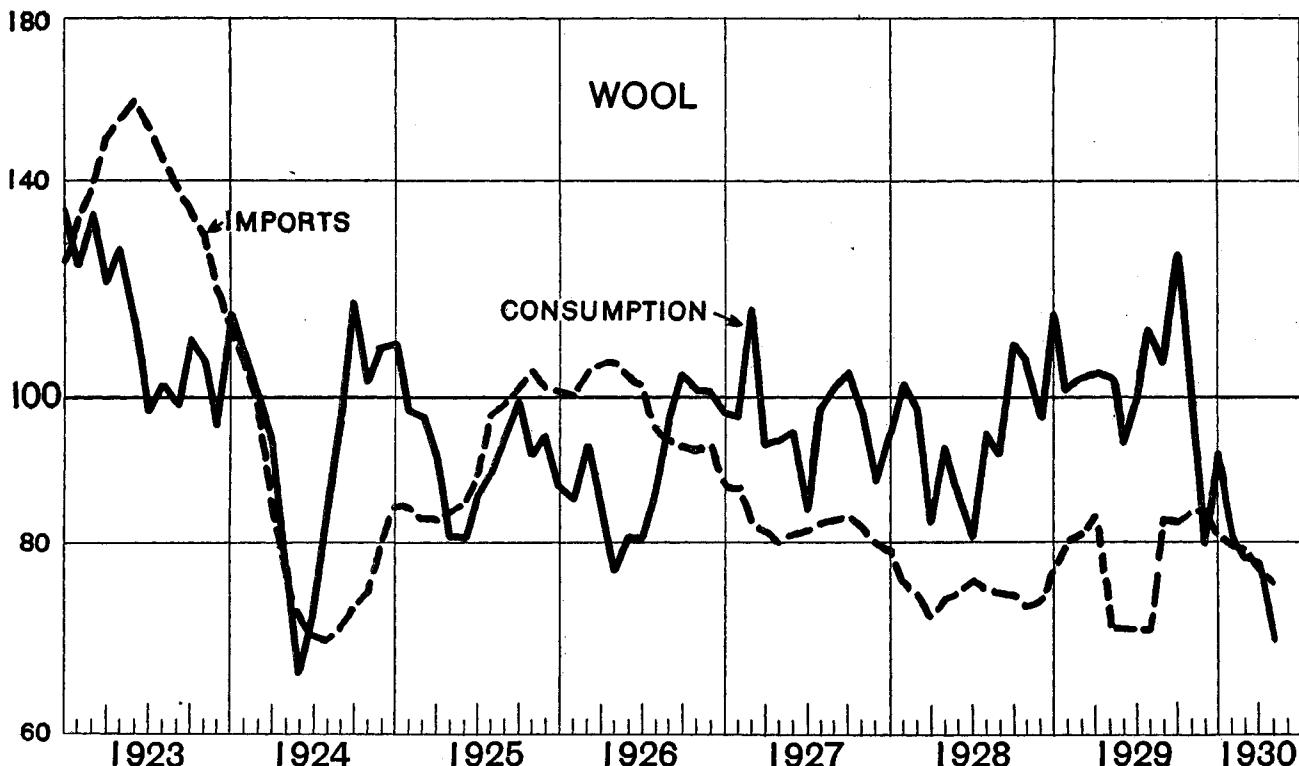
The consumption of cotton by domestic mills showed declines from the preceding month and a year ago; exports receded seasonally from the month of April

Imports of raw silk from foreign producing center during May showed marked declines from the preceding month and the corresponding period a year ago. Deliveries of silk to consuming mills were likewise smaller than during either comparative period. Stocks at warehouses and manufacturing plants, reflecting smaller imports, were less than at the end of the preceding month, or May, 1929. The activity of silk spindles and broad and narrow looms declined seasonally from the month of April and was considerably below the activity of a year ago.

Rayon imports were less in May than in April and were 69 per cent lower than a year ago. Wholesale prices at New York, while showing no change from the previous month, were lower than a year ago. Shipments of

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 were 33 per cent lower than a year ago. Stocks of cotton at mills and warehouses at the end of May, while less than at the end of April, were substantially greater than a year ago.

Cotton machinery activity showed a slight decline when compared with the month of April, and was 8 per cent less than the month of May, 1929. The production of cotton textiles during the month of May was 7 per cent greater than the preceding month, but lower than the same period in 1929. Stocks of cotton goods held at the end of May were 1 per cent larger than the preceding month and 23 per cent more than a year ago.

pyroxylon-coated textiles registered declines from April and May, 1929. Shipments of elastic webbing, while showing but slight change from the preceding period, were considerably lower than a year ago. The imports of unmanufactured fibers and burlaps from foreign countries were lower than both comparative periods.

The production of fresh-water pearl buttons during May, while showing but slight change from last month, was considerably lower than the month of May, 1929. Stocks of buttons held at the end of May were smaller than those held at the end of the previous month and also showed a decline from a year ago.

METALS

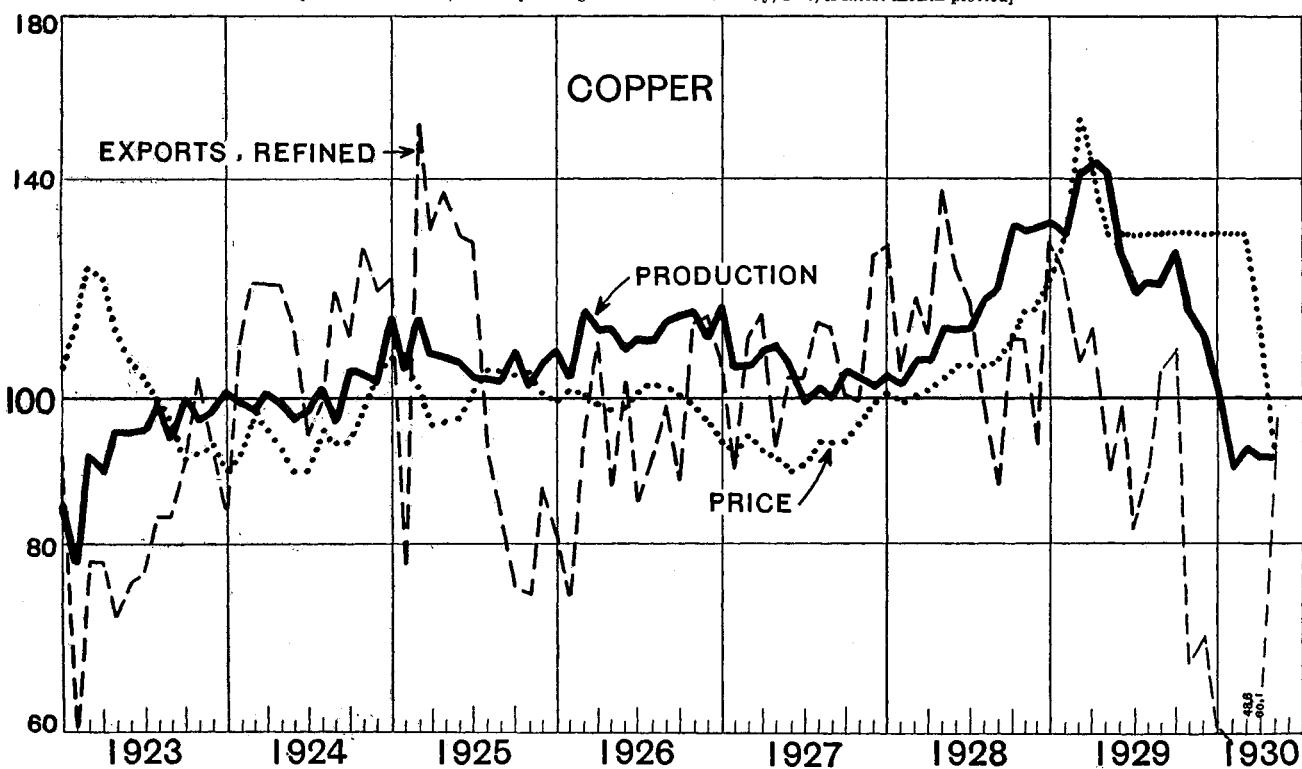
The production of pig iron in May was nearly 2 per cent greater than the preceding month and was 17 per cent below the level of May, 1929. Fewer furnaces were in blast at the end of May than at the end of April, 1930, and May last year. The daily capacity of these furnaces likewise declined from both comparative periods.

Steel-ingot production in the United States during May showed a decline of 3 per cent from the preceding month and 24 per cent from a year ago. Canadian production of steel during May also showed similar declines. Unfilled orders of the United States Steel

from both prior periods. New orders for steel and malleable castings were lower than during the previous month and May, 1929. New orders for fabricated steel plate for use in oil storage tanks showed an increase of 23 per cent over orders placed during April, but were 9 per cent lower than a year ago. The output of steel barrels, although registering losses when compared with the preceding month and May last year, showed a gain of 5 per cent for the first five months of 1930 over the corresponding period of 1929. New orders for steel boilers recorded gains of 26 per cent in number of units and 24 per cent in area over April but declined from last year. New orders for wood-

COPPER PRODUCTION, EXPORTS, AND STOCKS

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



Corporation registered declines of 7 per cent from April and 6 per cent from May, 1929.

The output of steel sheets fell off 11 per cent from April and was materially below the production of May, 1929. The ratio of capacity to production also showed a decline. Total stocks of sheets held at the end of May declined slightly from those held at the end of April, but were 22 per cent greater than a year ago. Unsold stocks on the other hand registered marked gains over both comparative periods. New and unfilled orders for steel sheets registered losses when compared with the preceding period and May, 1929. Wholesale prices for steel and steel products declined but slightly from April, and were in each case more than 7 per cent below the prices of a year ago.

The production of steel castings recorded decrease of 7 per cent from April and 19 per cent from last May. The output of malleable castings also showed declines

working machinery were 9 per cent greater than in April but were below those of May, 1929. Exports of electrical trucks and tractors were much greater than both comparative periods. The shipments of oil burners in May, representing gains in this new type of heating appliance, were greater than during April and a year ago. The gain in shipments for the first five months of 1930 as compared with a similar period of 1929 was 5 per cent.

The production of mine and smelter copper in May, although but slightly less than in April, was well below the level of a year ago. The output of refined copper in North and South America registered an increase of 6 per cent over the preceding month and was 18 per cent lower than the same period in 1929. Exports of copper recorded gains of 62 per cent over April and 9 per cent over May, last year. Deliveries of tin showed declines from both comparative periods. May production of both lead and zinc was greater than a month ago.

FUELS

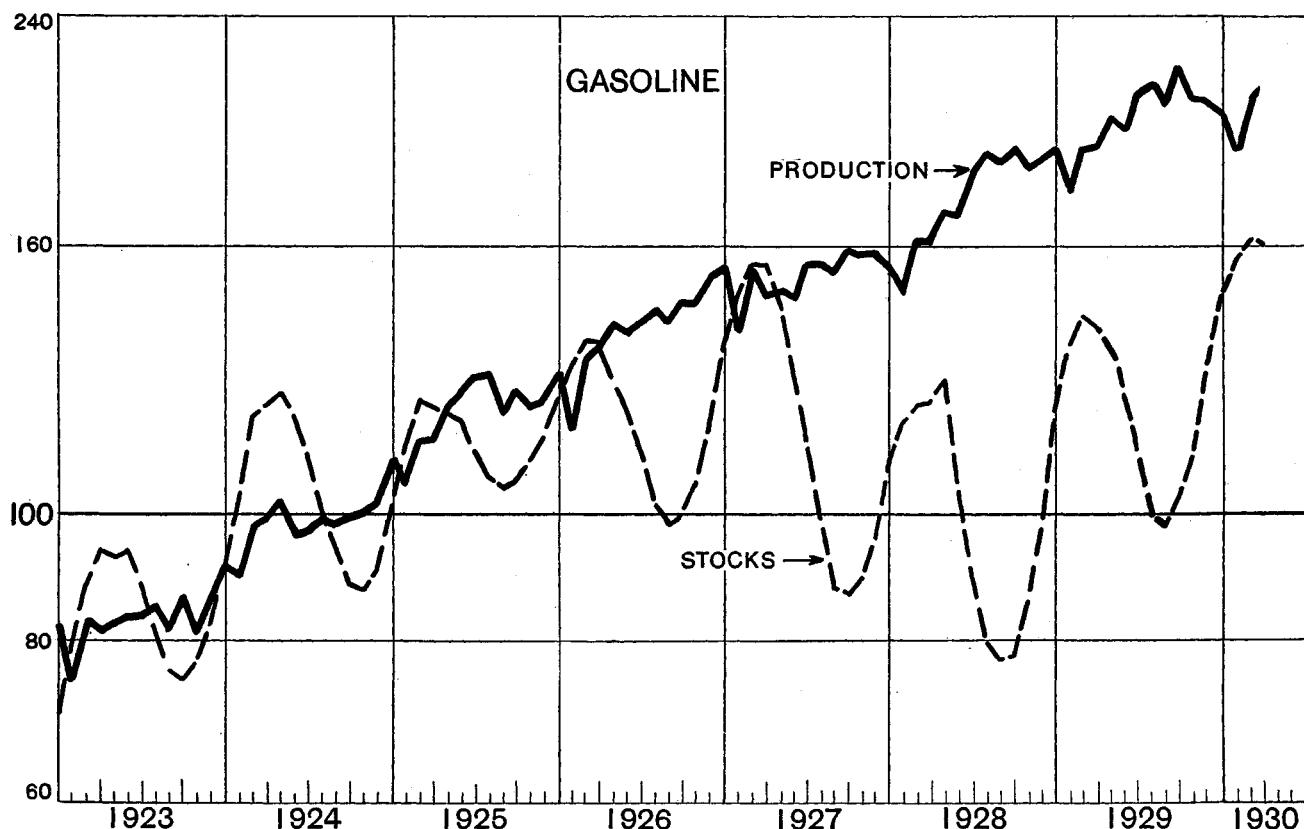
The production of bituminous coal in May showed a slight gain over the month of April and was 12 per cent lower than a year ago. Anthracite production, however, although registering an increase of 21 per cent over the preceding month, was 6 per cent lower than the month of May, 1929. Average prices of coal showed but slight change from last month and a year ago. The production of beehive coke in May registered declines from both prior periods. By-product coke output on the other hand, while showing a slight increase over April, was well below the level

HIDES AND LEATHER

Imports of hides and skins during May showed an increase of 8 per cent over the preceding month and were well above the level of last year. The production of sole and belting leather was also greater than either prior period. Exports of finished leather registered showed a gain over the preceding month but was materially lower than a year ago. Prices of leather during May were generally lower than both corresponding periods. Production of shoes declined seasonally from April and was lower than the corresponding period in 1929. Exports increased 10 per cent

PRODUCTION AND STOCKS OF GASOLINE

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



of a year ago. The wholesale price of coke at Connellsville, Pa., registered a decline in May of 3 per cent from the preceding month and 10 per cent from a year ago.

AUTOMOBILES AND RUBBER

The output of automobiles, including passenger cars, trucks, and taxicabs, declined seasonally from the preceding month and was 31 per cent lower than a year ago. The Canadian output in contrast with that of the United States showed an increase in total production of 2 per cent over the month of April and a decrease of 22 per cent from May, 1929. The production of tires and tubes showed but slight change when compared with a month ago but was considerably below that of May, 1929.

over April and were 9 per cent less than last year. The wholesale prices for shoes remained unchanged from the level of last month and May, a year ago.

PAPER AND PRINTING

Imports of wood pulp in most instances were smaller than during the previous month and a year ago. The domestic production of newsprint, although showing an increase of 7 per cent over the month of April, was 4 per cent lower than May, 1929. Canadian production although greater than the preceding period was lower than a year ago. Stocks of newsprint, at the end of May, were greater than at the end of both corresponding periods. Canadian stocks at the end of May, although 3 per cent less than the preceding month, were considerably greater than a year ago. Stocks held by publishers exceeded those held at the end of April and a year ago.

BUILDING AND CONSTRUCTION

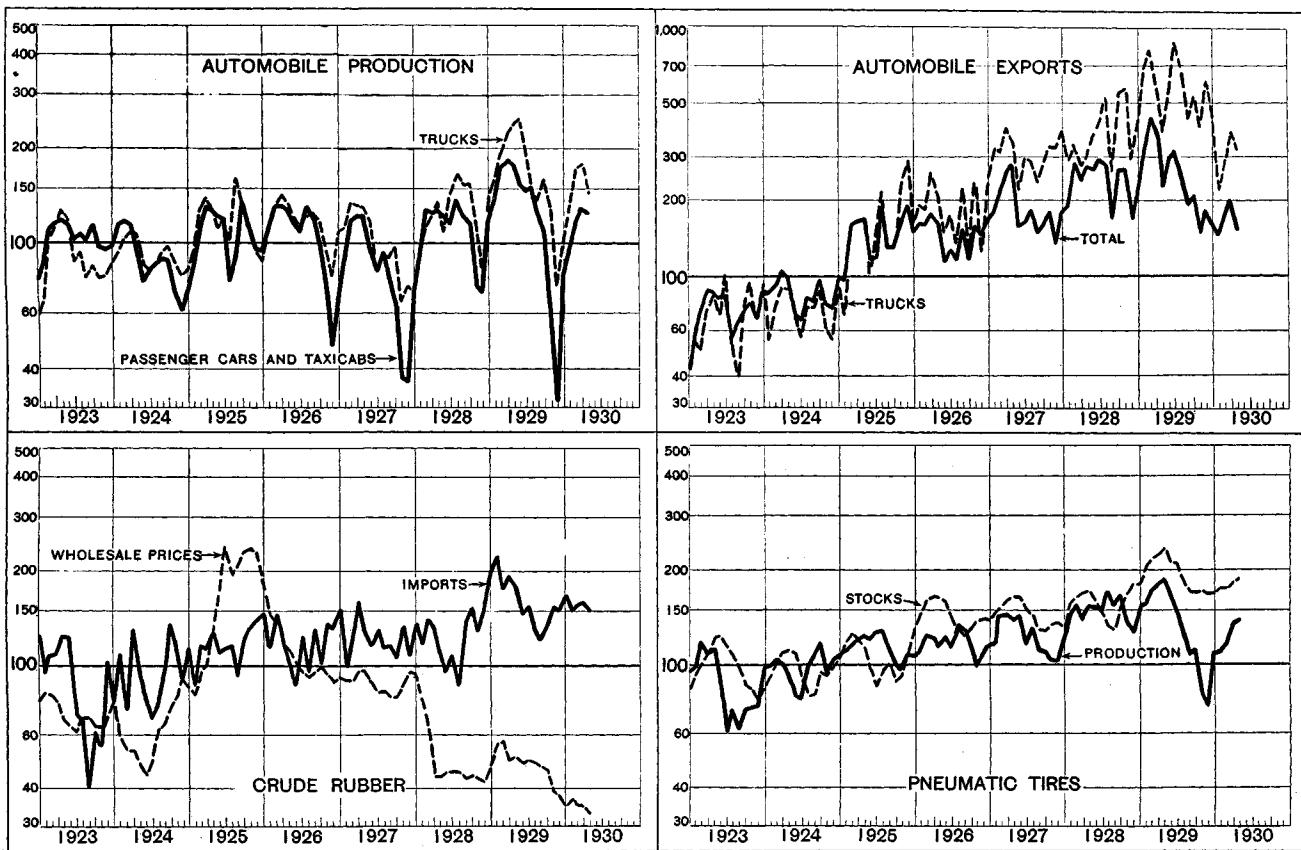
New building construction during May, as measured by the number of contracts awarded, was greater than the preceding month but less than during May, 1929. Building costs were generally the same as during April and a year ago.

LUMBER AND BUILDING EQUIPMENT

The production of lumber declined seasonally from the month of April and was less than the corresponding period of 1929. The output of northern pine, although slightly above last month's level, fell off from a year ago.

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



Exports of southern pine lumber showed a slight increase over the preceding month while the exports of timber fell off. The production, stocks, and shipments of walnut lumber during May all receded from the levels of the preceding month and were materially below last year. Unfilled orders still maintained their levels of a month ago. Prices for representative types of flooring and boards showed declines from both comparative periods.

STONE, CLAY, AND GLASS PRODUCTS

Cement production during May, reflecting increased building and road construction, registered an increase of 28 per cent over April and 7 per cent over May, 1929. Movement of cement into consumption as shown by shipments was 29 per cent greater than the

preceding period and 3 per cent above the level of a year ago. Stocks at mills at the end of May, while showing but slight change from a month ago, were 4 per cent greater than last year. Wholesale prices of cement in barrels, although remaining unchanged from the preceding period, were lower than during May, 1929.

Shipments of common brick were substantially lower than during the previous month and a year ago. Stocks and unfilled orders were less than at the end of either prior period. New orders and shipments of sanitary ware were generally lower than during either the preceding period or May, 1929. Unfilled orders, fol-

lowing the trends of shipments and new orders, declined from both prior periods.

New orders for vitreous chinaware were 5 per cent more than the preceding month and were considerably less than May, 1929. Shipments and unfilled orders showed declines from both comparative periods. Stocks, on the other hand, although showing a recession from the preceding month, were 15 per cent greater than the corresponding period a year ago.

New orders for terra cotta were considerably smaller, both in tonnage and valuation, than during either the previous month or the corresponding month of 1929. The production of plate glass registered an increase of 10 per cent over April but was 2 per cent lower than last year.

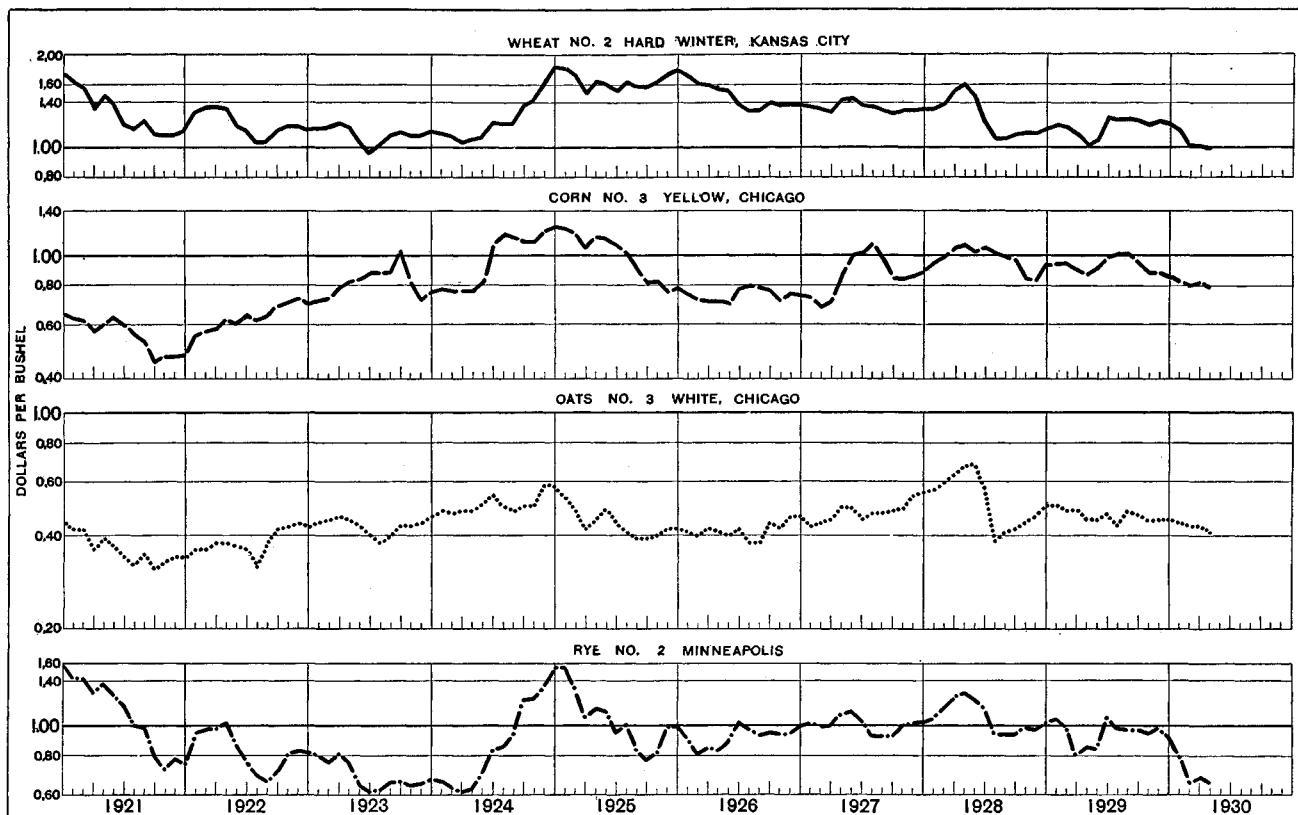
FOODSTUFFS AND TOBACCO

The visible supply of wheat, both in the United States and Canada, declined seasonally from the month of April but was considerably greater than May, 1929. Receipts at principal markets during May were 23 per cent greater than the preceding month and 11 per cent lower than the corresponding period a year ago. Shipments to consuming centers showed a marked gain over April and were 2 per cent larger than in 1929. Exports of wheat and flour from the United States were substantially larger than during April, but were lower than last year. Wheat prices at various

The production of creamery butter during May showed a gain of 39 per cent over April and 8 per cent over May, 1929. Cold-storage holdings also showed upward trends. Wholesale prices of butter at New York declined from both comparative periods. Receipts of all types of cheese at important markets, although greater than the preceding month, were lower than the corresponding period a year ago. Cold storage holdings at the end of May were substantially larger than at the end of either comparative period. Holdings of eggs at storage plants were larger than at the end of April of last year. Imports of sugar were

MOVEMENT OF GRAIN PRICES

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



centers were generally lower than the preceding month and May, 1929.

The visible supply of corn registered declines from April and a year ago. Receipts and shipments at various centers showed marked gains over the month of May last year. The receipts of barley and rye increased seasonally over both prior periods.

The movement of cattle and calves at primary markets declined from the month of May, last year. Hog shipments were less than the preceding month, and a year ago. Cold-storage holdings of pork products were 25 per cent lower than May, 1929. The receipts of sheep and lambs at principal centers during May, showing an upward seasonal trend, were greater than during April, 1930, and May, 1929. Shipments also showed similar trends. The prices for meat animals were generally lower than last month and a year ago.

seasonally larger than April and May a year ago. Meltings at eight ports also were larger than either prior period. For the first five months of the year shipments of raw sugar from Hawaii and Porto Rico were 24 per cent larger than a year ago. Stocks of sugar at the end of May, reflecting increased imports, were greater than the preceding month.

Imports of coffee, although less than the preceding month, were 6 per cent greater than a year ago. The imports of tea declined from both prior periods. Prices for tea and coffee showed losses from a year ago.

The consumption of cigarettes during May showed an increase of 8 per cent over April; large cigars and manufactured snuff also showed gains. As compared with a year ago the consumption of all lines of tobacco products was less. Exports of unmanufactured tobacco and small cigarettes during May were lower than during May, 1929.

TRANSPORTATION

Freight car loadings during May showed a decline of 11 per cent from May, 1929. For the first five months of 1930, total carloadings recorded a decline of 9 per cent from the same period of a year ago. Clearances of vessels engaged in foreign trade showed increases over the preceding month and May, 1929. Commerce on the Ohio and Monongahela Rivers, although showing increases over April, was less than last year. As a whole, traffic on rivers was less than last year. Orders for locomotives were greater than the preceding month and a year ago. Orders for new freight cars declined from both prior periods.

DISTRIBUTION

Sales by mail-order houses showed substantial increases over both the preceding month and May last year.

The volume of business transacted by the leading 10-cent chains was 2 per cent greater than the month of April. Business by these establishments for the first five months of 1930 was slightly higher than the corresponding period of 1929. Magazine advertising as measured by the lineage of leading magazines showed a decline of 4 per cent from the previous month and 3 per cent from May, 1929. Newspaper advertising also registered declines from prior periods. Postal receipts in principal selected and industrial cities showed slight declines from the month of April and last year.

BANKING AND FINANCE

Bank loans and discounts of the Federal reserve member banks at the end of May, although declining from April, were 4 per cent larger than a year ago. The Federal reserve ratio registered gains over both comparative periods. Interest rates during May were generally lower than during April and the corresponding period a year ago.

Dividend and interest payments during May declined from the amount during April, but were 16 per cent greater than a year ago. Prices for representative industrial stocks were lower than both prior periods. Bond prices on the other hand, although showing no change from the preceding month, were 2 per cent higher than a year ago.

New sales of ordinary life insurance showed a seasonal decline from April and were 5 per cent lower than May, 1929.

GOLD, SILVER, AND FOREIGN EXCHANGE

Receipts of domestic gold at the mint during May were 14 per cent less than during April and 9 per cent greater than a year ago. The total receipts for the year to date showed a gain of 22 per cent over the corresponding period of 1929. The Rand production of gold during May showed an increase over the preceding month and May, 1929. Gold imports of bullion and coin recorded declines from both comparative periods.

Silver production in the United States registered declines from a month ago and May, 1929. Imports of silver showed losses from April and a year ago. Exports, on the other hand, although registering an increase of 7 per cent over last month, declined from last year. The price of silver at New York declined from both prior periods.

Rates for foreign exchange in May were generally the same as in the preceding month and the corresponding period of 1929, the only exception being the rates with Brazil, which showed a slight increase. As compared with May a year ago rates with England, Belgium, Sweden, Switzerland, Japan, Canada, and Chile showed increases while rates with Argentina, India, and Brazil declined. Rates of exchange with France, Italy, and the Netherlands showed no change from the preceding month and May, 1929.

INDEXES OF BUSINESS

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

Relative to 1923-1925 monthly average as 100	Minim- um since Jan. 1, 1923	Maxi- mum since Jan. 1, 1923	1928		1929		1930		PER CENT INCREASE (+) OR DE- CREASE (-) OF MAY, 1930, FROM—											
			April	May	April	May	April	May	April, 1930	May, 1929	May, 1928									
PRODUCTION																				
TOTAL INDUSTRIAL																				
Unadjusted, except for working days-----	125	81	110	110	123	125	107	105	-1.9	-16.0	-4.5									
Adjusted for seasonal variations-----	124	83	109	109	122	124	106	104	-1.9	-16.1	-4.6									
MANUFACTURING																				
Total (adjusted for working days only)-----	127	79	113	111	127	127	110	105	-4.5	-17.3	-5.4									
Total (adjusted for seasonal variations)-----	128	82	110	109	123	125	107	104	-2.8	-16.8	-4.6									
Iron and steel-----	155	59	122	116	135	145	114	111	-2.6	-23.4	-4.3									
Textiles-----	121	77	101	107	120	121	96	91	-5.2	-24.8										
Food products-----	110	90	98	96	102	97	97	98	+1.0	+1.0										
Paper and printing-----	128	91	115	117	124	127	121													
Lumber-----	110	78	95	93	86	83														
Automobiles-----	166	47	105	104	153	148	109	104	-4.6	-29.7	0.0									
Leather and shoes-----	134	86	97	96	97	101	98	94	-4.1	-6.9	-2.1									
Cement-----	99	126	108	119	110	111	108	119	+10.2	+7.2	0.0									
Nonferrous metals-----	137	87	111	111	137	137	105	101	-3.8	-26.3	-9.0									
Petroleum refining-----	178	84	147	149	165	168	174													
Rubber tires-----	169	66	133	133	161	158	122													
Tobacco manufactures-----	143	93	120	120	142	142	136	134	-1.5	-5.6	+11.7									
MINERALS																				
Total (adjusted for working days only)-----	128	84	94	104	104	116	93	102	+9.7	-12.1	-1.9									
Total (adjusted for seasonal variations)-----	120	90	105	105	115	116	104	103	-1.0	-11.2	-1.9									
Bituminous coal-----	125	77	92	94	100	104	97	92	-5.2	-11.5	-2.1									
Anthracite coal-----	133	1	105	110	95	86	73	81	+11.0	-5.8	-26.4									
Crude petroleum-----	147	88	119	119	132	134	128	128	0.0	-4.5	+7.6									
Iron-ore shipments-----	143	0	80		143		104			-27.3	+30.0									
Copper-----	139	82	104	110	141	139	90	90	0.0	-35.3	-18.2									
Zinc-----	127	91	113	113	116	120	91	93	+2.2	-22.5	-17.7									
Lead-----	125	75	109	101	122	122	105													
Silver-----	123	81	89	85	103	93	88	81	-8.0	-21.4	-4.7									
ANIMAL PRODUCTS (Marketings)																				
Total-----	124	79	95	108	100	109	101	110	+8.9	+0.9	+1.9									
Wool-----	421	14	61	195	49	121	64	143	+123.4	+18.2	-26.7									
Livestock-----	131	76	83	90	87	84	83	81	-2.4	-6.6	-10.0									
Poultry and eggs-----	148	67	130	139	141	131	144	138	-4.2	+5.3	.7									
Dairy products-----	160	64	101	115	103	134	107	135	+26.2	.7	+17.4									
Fish-----	283	44	137	156	164	161	207	192	-7.2	+19.3	+23.1									
CROPS (Marketings)																				
Total-----	252	45	59	72	57	51	51	56	+9.8	+9.8	-22.2									
Grains *-----	218	38	66	84	59	53	59	62	+5.1	+17.0	-26.2									
Vegetables *-----	199	60	91	136	104	118	95	137	+44.2	+16.1	.7									
Fruits *-----	266	43	47	94	86	111	56	72	+28.6	-35.3	-23.4									
Cotton products *-----	373	11	59	57	46	27	39	29	-25.6	+7.4	-49.1									
Miscellaneous crops *-----	344	18	25	24	33	23	44	52	+18.2	+126.1	+116.7									

* 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	Maximum since Jan. 1, 1923	1928		1929		1930		PER CENT INCREASE (+) OR DECREASE (-) OF MAY, 1930, FROM—				
			April	May	April	May	April	May	April, 1930	May, 1929	May, 1928		
PRODUCTION—Continued													
FOREST PRODUCTS													
Total	112	62	96	101	92	99	79	80	+1.3	-19.2	-20.8		
Lumber	112	59	95	98	87	94	72	72	0.0	-23.4	-26.5		
Pulpwood	151	54	111	120	127	132	136	138	+1.5	+4.5	+15.0		
Gum (rosin and turpentine)*	204	18	77	140	115	158	101	175	+73.3	+10.8	+25.0		
Distilled wood	148	65	91	85	106	110	88	77	-12.5	-30.0	-9.4		
NEW ORDERS													
Total	138	72	99	104	102	106	67	72	+7.5	-32.1	-30.8		
Textiles	179	70	87	94	107	103	75	75	0.0	-27.2	-20.2		
Iron and steel	143	71	118	116	147	127	104	97	-6.7	-23.6	-16.4		
Lumber	141	50	100	113	84	100	50	53	+6.0	-47.0	-53.1		
Paper and printing	118	85	108	104	117	112	109	105	-3.7	-6.3	+1.0		
Stone and clay products	129	73	94	94	101	106	80	85	+6.2	-19.8	-10.6		
STOCKS													
Grand total	158	82	123	117	130	123	135	128	-5.2	+4.1	+9.4		
Total manufactured goods	125	88	119	121	122	121	124	118	-4.8	-2.5	-2.5		
Foodstuffs	136	79	103	103	109	110	101	104	+3.0	-5.5	+1.0		
Textiles	138	78	138	137	120	116	136	123	-9.6	+6.0	-10.2		
Iron and steel	158	78	147	147	147	142	152	153	+0.7	+7.7	+4.1		
Nonferrous metals	194	74	116	118	114	115	189	194	+2.6	+68.7	+64.4		
Lumber	125	78	104	109	102	101	111	84	-24.3	-16.8	-22.9		
Stone, clay, etc.	192	64	167	155	182	181	188	188	0.0	+3.9	+21.3		
Leather	123	66	67	69	72	71	75	75	0.0	+5.6	+8.7		
Rubber	199	77	162	170	191	199	155	158	+1.9	-20.6	-7.1		
Paper	156	46	129	142	104	99	94	107	+13.8	+8.1	-24.6		
Chemicals and oils	137	84	118	111	129	123	135	131	-3.0	+6.5	+18.0		
Total raw materials	186	69	125	114	136	124	142	135	-4.9	+8.9	+18.4		
Foodstuffs	230	68	154	141	187	171	175	171	-2.3	0.0	+21.3		
Textiles	204	43	114	98	108	92	139	123	-11.5	+33.7	+25.5		
Metals	136	54	75	82	68	80	92	102	+10.9	+27.5	+24.4		
Chemicals and oils	153	73	101	95	99	96	100	97	-3.0	+1.0	+2.1		
UNFILLED ORDERS													
Total	167	67	77	74	93	89	78	75	-3.8	-15.7	+1.4		
Textiles	154	42	71	72	84	78	44	42	-4.5	-46.2	-41.7		
Iron and steel	157	66	82	72	92	87	87	80	-8.4	-8.4	+11.1		
Transportation equipment	204	49	73	73	104	96	112	108	-3.6	+10.2	+47.9		
Lumber	142	56	70	79	102	104	74	75	+1.4	-27.9	-5.1		
RETAIL TRADE													
Mail-order houses (2 houses)	275	68	123	123	170	168	173	182	+5.2	+8.3	+48.0		
CHAIN STORES:													
Ten-cent	308	62	135	139	142	166	159	162	+1.9	-2.4	+16.5		
Restaurant	116	87	99	101	107	109	108	108	0.0	-0.9	+6.9		
DEPARTMENT STORES:													
Sales	189	71	102	108	104	110	112	108	-3.6	-1.8	0.0		
Stocks	117	83	106	102	103	101	101	98	-3.0	-3.0	-3.9		
COST OF LIVING													
National Industrial Conference Board Indexes													
(Relative to July, 1914)													
All items weighted	172	156	161	162	159	159	158	156	-1.3	-1.9	-3.7		
Food (Department of Labor)	167	141	152	154	152	153	151	150	-0.7	-2.0	-2.6		
Shelter	186	157	163	163	160	160	157	157	0.0	-1.9	-3.7		
Clothing	177	158	171	171	168	167	162	158	-2.5	-5.4	-7.6		
Fuel and light (combined)	179	156	160	158	160	157	161	157	-2.5	0.0	-0.6		
Fuel	208	174	179	176	180	175	182	175	-3.8	0.0	-0.6		
Light	123	118	122	122	120	120	121	121	0.0	+0.8	-0.8		
Sundries	176	167	171	171	170	168	167	167	0.0	-0.6	-2.3		

*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	1928		1929		1930		Per cent increase (+) or decrease (-) of May, 1930, from—		
			April	May	April	May	April	May	April, 1930	May, 1929	May, 1928
EMPLOYMENT											
(Relative to 1923-1925 monthly average as 100)											
Number employed, by industries:											
Total, all classes	106	90	96	96	102	102	92	90	-2.2	-11.8	-6.2
Iron and steel	108	88	95	96	100	101	93	93	0.0	-7.9	-3.1
Machinery	122	88	96	97	117	119	107	104	-2.8	-12.6	+7.2
Textiles	111	84	97	93	99	97	90	87	-3.3	-10.3	-6.5
Food products	109	93	96	96	96	97	94	95	+1.1	-2.1	-1.0
Paper and printing	107	96	100	101	103	103	103	102	-1.0	-1.0	+1.0
Lumber and products	104	73	88	87	88	89	74	73	-1.4	-18.0	-16.1
Transportation equipment—											
Group	110	81	90	92	102	102	84	84	0.0	-17.6	-8.7
Automobiles	131	79	105	111	131	130	94	95	+1.1	-26.9	-14.4
Leather and products	112	87	92	90	91	90	90	87	-3.3	-3.3	-3.3
Cement, clay, and glass	107	75	92	95	91	93	81	82	+1.2	-11.8	-13.7
Nonferrous metals	113	81	96	96	108	105	83	81	-2.4	-22.9	-15.6
Chemicals—											
Group	119	90	110	102	119	110	112	105	-6.3	-4.5	+2.9
Petroleum refining	125	95	99	99	112	114	116	114	-1.7	0.0	+15.2
Rubber products	117	84	106	105	114	115	89	88	-1.1	-23.5	-16.2
Tobacco products	109	84	91	92	91	90	88	89	+1.1	-1.1	-2.2
Amount of pay roll by industries:											
Total, all classes	112	85	100	101	111	111	97	94	-3.1	-15.3	-6.9
Iron and steel	114	77	100	102	111	112	98	96	-2.0	-14.3	-5.9
Machinery	132	83	102	104	130	114	113	108	-4.4	-18.2	+3.8
Textiles	111	77	95	92	103	99	89	83	-6.7	-16.2	-9.8
Food products	109	94	98	100	100	103	100	101	+1.0	-1.9	+1.0
Paper and printing	118	92	109	109	113	114	114	113	-0.9	-0.9	+3.7
Lumber and products	107	73	90	91	91	93	74	73	-1.4	-21.5	-19.8
Transportation equipment—											
Group	117	80	99	101	117	116	92	91	-1.1	-21.6	-9.9
Automobiles	152	66	119	124	152	147	101	102	+1.0	-30.6	-17.3
Leather and products	116	80	86	83	88	88	82	76	-7.3	-13.6	-8.4
Cement, clay, and glass	108	67	91	94	89	92	77	77	0.0	-16.3	-18.1
Nonferrous metals	128	81	102	105	127	123	88	84	-4.5	-31.7	-20.0
Chemicals—											
Group	118	90	109	103	118	113	111	107	-3.6	-5.3	+3.9
Petroleum refining	129	90	104	101	117	119	122	121	-0.8	+1.7	+18.6
Rubber products	150	82	113	109	124	126	95	95	0.0	-24.6	-12.8
Tobacco products	111	76	80	84	86	86	77	82	+6.5	-4.7	-2.4
WHOLESALE PRICES											
Department of Labor Indexes											
(Relative to 1926 monthly average as 100)											
All commodities	105	89	97	99	97	96	91	89	-2.2	-7.3	-10.1
Farm products	114	93	108	110	105	102	96	93	-3.1	-8.8	-15.5
Food, etc.	107	85	100	101	98	98	95	92	-3.2	-6.1	-8.9
Hides and leather products	127	98	127	126	108	107	103	103	0.0	-3.7	-18.3
Textile products	114	85	97	97	96	94	86	85	-1.2	-9.6	-12.4
Fuel and lighting	112	77	81	82	81	81	78	78	0.0	-3.7	-4.9
Metals and metal products	113	97	98	99	106	105	99	97	-2.0	-7.6	-2.0
Building materials	116	90	93	94	98	97	95	93	-2.1	-4.1	-1.1
Chemicals	104	91	96	95	95	94	91	90	-1.1	-4.3	-5.3
House-furnishing goods	111	96	98	98	97	97	96	96	0.0	-1.0	-2.0
Miscellaneous	127	78	85	85	79	80	79	78	-1.3	-2.5	-8.2
Classified by condition of manufacture:											
Semimanufactured articles	128	84	98	99	97	95	88	84	-4.5	-11.6	-15.2
Finished products	103	91	96	97	97	96	92	91	-1.1	-5.2	-6.2
Raw materials	109	88	100	101	97	95	90	88	-2.2	-7.4	-12.9
Nonagricultural commodities	106	88	95	96	95	94	89	88	-1.1	-6.4	-8.3
Commercial Indexes											
(Relative to 1926 monthly average as 100)											
Dun's	106	85	106	104	100	99	94	93	-1.1	-6.1	-10.6
Bradstreet's	112	83	104	102	98	96	85	83	-2.4	-13.5	-18.6

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1928		1929		1930		PER CENT INCREASE (+) OR DECREASE (-) OF MAY, 1930, FROM—				
			April	May	April	May	April	May	April, 1930	May, 1929	May, 1928		
PRICE INDEX NUMBERS													
FARM PRICES													
(Relative to 1909-1914 average as 100)													
All groups.....	152	124	140	148	138	136	127	124	-2.4	-8.8	-16.2		
Grains.....	178	105	144	160	120	113	110	105	-4.5	-7.1	-34.4		
Fruits and vegetables.....	253	108	179	181	110	119	187	193	+3.2	+6.6	+6.6		
Meat animals.....	167	98	142	151	164	164	146	142	-2.7	-13.4	-6.0		
Dairy and poultry.....	166	120	134	134	138	137	124	120	-3.2	-12.4	-10.4		
Cotton and cottonseed.....	252	81	154	166	152	148	120	119	-0.8	-19.6	-28.3		
Unclassified.....	108	78	85	86	88	86	78	78	0.0	-9.3	-9.3		

SALES OF THE GREAT ATLANTIC & 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	1930	1928	1929	
September.....	\$69,336	4	\$17,334	309,451	77,363	September.....	\$75,246	4	\$18,811	336,309	84,077	
October.....	93,429	5	18,686	419,079	83,818	October.....	105,995	5	21,199	472,644	94,529	
November.....	73,844	4	18,461	338,704	84,676	November.....	83,714	4	20,928	381,106	95,276	
December.....	74,911	4	18,728	345,595	86,399	December.....	87,260	4	21,815	407,339	101,835	
1929												
January.....	91,983	5	18,397	425,590	85,118	January.....	104,271	5	20,854	492,425	98,485	
February.....	85,846	4	21,462	396,225	99,056	February.....	86,122	4	21,530	400,568	100,146	
March.....	77,712	4	19,428	363,786	90,947	March.....	83,976	4	20,994	395,331	98,834	
April.....	77,324	4	19,331	359,129	89,782	April.....	86,138	4	21,534	404,319	101,080	
May.....	97,319	5	19,464	451,680	90,336	May.....	104,671	5	20,934	503,976	100,795	

¹ Compiled by the Atlantic & Pacific Tea Co., and represent the sales of identical stores for the periods shown.AUTOMOBILE FINANCING¹

YEAR	WHOLE- SALE FI- NANCING	TOTAL		NEW CARS FI- NANCED		USED CARS FI- NANCED		UNCLASSIFIED		
		Volume in dollars	Number of cars	Volume in dollars	Number of cars	Volume in dollars	Number of cars	Volume in dollars	Number of cars	
1929										
January.....	35,889,941	155,630	73,166,768	78,288	48,677,337	68,859	20,734,372	8,483	3,755,059	
February.....	47,919,535	189,183	90,489,411	103,079	61,736,873	76,480	24,595,774	9,624	4,156,764	
March.....	61,097,083	302,672	141,076,601	165,898	96,639,213	121,194	37,815,473	15,580	6,621,915	
April.....	74,714,226	378,790	171,931,720	204,949	116,811,926	154,843	47,248,843	18,998	7,870,956	
May.....	398,561	183,580,808	212,239	125,096,943	167,567	50,820,658	18,755	7,653,207		
June.....	384,520	178,983,835	203,632	121,842,467	164,023	50,205,848	16,865	6,935,520		
July.....	388,747	180,205,492	211,296	125,005,223	162,451	49,077,845	15,000	6,122,424		
August.....	347,144	162,894,966	183,921	111,664,809	149,413	45,652,348	13,810	5,577,809		
September.....	298,286	138,717,971	158,021	94,240,101	127,429	39,310,095	12,836	5,167,773		
October.....	276,292	126,247,679	132,187	80,745,596	135,158	41,783,894	8,947	3,718,189		
November.....	211,805	94,932,292	97,734	58,596,676	103,950	32,340,123	10,121	3,995,493		
December.....	170,399	80,088,696	74,095	48,846,672	89,969	28,574,295	6,335	2,667,729		
Total.....		3,502,029	1,622,316,239	1,825,339	1,089,903,836	1,521,336	468,169,568	155,354	64,242,835	
1930										
January.....	52,351,898	162,954	72,284,335	78,199	44,968,686	80,100	25,285,626	4,655	2,030,023	
February.....	61,153,196	196,920	84,532,144	95,200	52,802,981	95,034	28,972,240	6,695	2,756,923	
March.....	76,467,749	284,919	120,677,635	137,682	76,527,059	141,971	41,557,428	5,266	2,593,148	
April.....	84,064,369	340,555	144,287,879	169,172	92,852,073	161,604	46,914,235	9,776	4,521,571	

¹ Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 455 automobile-financing organizations. Some of the smaller firms found it impossible to segregate their operations, their totals being shown in the unclassified group. This summary is subject to revision in subsequent issues as reports are received from additional firms.

PRODUCTION OF ELECTRIC POWER AND CONSUMPTION OF FUELS¹

MONTH	PRODUCTION OF ELECTRIC POWER (Millions of kilowatt-hours)									CONSUMPTION OF FUELS										
	TOTAL									COAL (Thousands of short tons)										
January-----	3,823	3,538	3,807	4,736	5,193	5,573	6,159	6,820	7,265	8,240	3,585	2,974	2,950	3,567	3,670	3,723	3,711	3,826	3,696	4,147
February-----	3,451	3,172	3,463	4,311	4,846	5,001	5,629	6,166	6,868	7,431	3,233	2,629	2,597	3,252	3,334	3,146	3,298	3,353	3,458	3,704
March-----	3,703	3,399	3,819	4,708	4,902	5,392	6,178	6,840	7,241	7,992	3,256	2,642	2,718	3,357	3,244	3,202	3,490	3,520	3,468	3,575
April-----	3,539	3,240	3,593	4,457	4,740	5,181	5,812	6,482	6,845	7,882	2,916	2,416	2,452	2,981	2,898	2,979	3,125	3,278	3,115	3,414
May-----	3,561	3,264	3,819	4,635	4,788	5,240	5,549	6,600	7,118	8,086	2,824	2,415	2,471	2,953	2,823	2,998	3,083	3,273	3,117	3,369
June-----	3,527	3,246	3,833	4,499	4,547	5,240	5,920	6,493	7,698	7,768	2,849	2,439	2,486	2,958	2,690	3,128	3,172	3,253	3,037	3,400
July-----	3,584	3,275	3,866	4,510	4,604	5,389	5,955	6,477	7,142	8,072	2,937	2,462	2,563	3,050	2,789	3,198	3,362	3,353	3,169	3,638
August-----	3,676	3,420	4,069	4,638	4,727	5,465	6,175	6,693	7,510	8,356	3,010	2,579	2,818	3,218	2,945	3,381	3,450	3,518	3,438	3,928
September-----	3,595	3,378	4,042	4,503	4,795	5,495	6,221	6,605	7,276	8,032	3,004	2,589	2,901	3,179	3,012	3,477	3,483	3,566	3,418	3,902
October-----	3,708	3,578	4,329	4,912	5,188	5,949	6,594	6,932	7,922	8,709	3,157	2,759	3,278	3,589	3,222	3,715	3,697	3,666	3,826	4,058
November-----	3,662	3,646	4,408	4,813	5,057	5,786	6,482	6,876	7,753	8,242	3,155	2,778	3,348	3,466	3,294	3,471	3,591	3,563	3,738	3,778
December-----	3,726	3,820	4,605	4,943	5,537	6,153	6,817	7,211	7,912	8,512	3,198	2,903	3,597	3,396	3,635	3,304	3,849	3,719	3,870	4,024
Total-----	43,555	40,976	47,653	55,665	59,014	65,870	73,791	80,205	87,850	97,352	37,124	31,583	34,179	38,966	37,556	40,222	41,311	41,888	41,350	44,937
Monthly average-----	3,630	3,415	3,971	4,639	4,918	5,489	6,149	6,684	7,321	8,113	3,094	2,632	2,848	3,247	3,130	3,352	3,443	3,491	3,446	3,745
BY FUELS																				
OIL (Thousands of barrels)																				
January-----	2,572	2,187	2,513	3,135	3,522	3,879	4,175	4,303	4,524	5,541	1,290	897	1,108	1,257	1,617	1,374	1,027	823	595	944
February-----	2,312	1,970	2,245	2,856	3,280	3,258	3,698	3,900	4,292	4,986	1,170	781	996	1,158	1,444	992	729	671	550	864
March-----	2,318	2,050	2,354	3,008	3,278	3,352	3,891	4,153	4,388	4,843	1,061	851	956	1,151	1,542	834	715	639	614	753
April-----	2,093	1,931	2,108	2,689	2,890	3,159	3,466	3,871	3,904	4,595	911	843	824	981	1,233	699	639	549	537	647
May-----	2,082	1,941	2,176	2,732	2,845	3,213	3,507	3,926	3,943	4,600	923	853	856	1,012	1,208	675	607	489	486	603
June-----	2,143	2,030	2,247	2,765	2,849	3,399	3,662	3,961	3,905	4,699	1,077	916	920	1,036	1,343	791	625	476	498	618
July-----	2,223	2,049	2,314	2,884	3,010	3,511	3,932	4,049	4,071	5,017	1,190	1,028	1,010	1,174	1,432	853	704	475	554	707
August-----	2,324	2,216	2,581	3,096	3,219	3,695	4,077	4,282	4,474	5,518	1,200	1,165	1,312	1,523	1,503	759	761	502	614	798
September-----	2,305	2,274	2,692	3,069	3,311	3,883	4,143	4,104	4,488	5,589	1,221	1,190	1,365	1,322	1,389	814	916	504	612	821
October-----	2,402	2,437	2,981	3,475	3,560	4,148	4,542	5,049	5,976	6,590	1,069	1,182	1,309	1,376	1,405	854	914	503	619	1,085
November-----	2,310	2,422	3,047	3,336	3,492	3,839	4,227	4,367	4,965	5,599	961	1,147	1,240	1,380	1,404	790	959	502	632	1,173
December-----	2,331	2,498	3,189	3,277	3,788	4,176	4,412	4,482	5,151	5,760	950	1,192	1,307	1,484	2,374	811	803	649	847	1,111
Total-----	27,405	26,005	30,447	36,322	39,044	43,514	47,602	50,330	53,154	62,723	13,123	12,045	13,197	14,684	16,630	10,246	9,399	6,782	7,158	10,124
Monthly average-----	2,284	2,167	2,537	3,027	3,254	3,626	3,967	4,194	4,430	5,227	1,094	1,004	1,100	1,224	1,386	854	783	565	597	844
BY WATER POWER																				
GAS (Millions of cubic feet)																				
January-----	1,250	1,350	1,294	1,601	1,670	1,695	1,984	2,437	2,741	2,699	1,428	1,713	1,632	2,080	2,435	2,954	3,884	3,999	5,005	7,935
February-----	1,140	1,202	1,218	1,455	1,566	1,742	1,932	2,266	2,577	2,445	1,314	1,457	1,600	2,585	2,536	3,534	3,940	4,943	7,187	
March-----	1,385	1,349	1,465	1,700	1,715	2,040	2,287	2,687	2,853	3,150	1,574	1,552	1,599	2,272	3,174	3,311	4,077	4,399	5,642	8,119
April-----	1,446	1,309	1,485	1,768	1,849	2,022	2,346	2,610	2,941	3,288	1,804	1,859	1,850	2,298	2,800	3,453	3,654	4,579	5,359	7,820
May-----	1,479	1,323	1,643	1,903	1,942	2,027	2,342	2,674	3,175	3,486	1,200	1,994	2,213	2,791	2,018	3,520	3,932	4,923	5,758	8,516
June-----	1,383	1,216	1,583	1,735	1,698	1,847	2,258	2,531	3,093	3,068	2,256	2,071	2,345	2,860	2,664	3,762	4,265	5,302	6,251	8,833
July-----	1,362	1,226	1,552	1,626	1,595	1,878	2,023	2,428	3,071	3,055	2,596	1,933	2,607	3,170	5,072	4,294	5,591	5,690	6,994	8,861
August-----	1,352	1,204	1,489	1,542	1,509	1,770	2,098	2,412	3,036	3,837	2,709	2,316	3,056	3,378	3,591	3,921	5,778	6,363	7,671	10,325
September-----	1,289	1,104	1,351	1,434	1,484	1,610	2,078	2,201	2,787	2,473	2,714	2,368	3,125	3,197	5,884	5,185	5,209	6,565	7,275	11,171
October-----	1,307	1,141	1,347	1,437	1,628	1,801	2,181	2,390	2,873	2,732	2,405	2,281	2,834	3,205	6,163	4,595	5,368	6,553	7,824	12,413
November-----	1,352	1,224	1,361	1,476	1,564	1,947	2,255	2,509	2,787	2,644	1,909	2,213	2,833	2,205	4,632	4,257	4,067	5,728	7,454	11,509
December-----	1,405	1,322	1,417	1,666	1,749	1,977	2,405	2,730	2,762	2,752	1,873	1,964	1,928	3,025	3,762	3,848	4,878	7,150	10,018	
Total-----	16,150	14,970	17,207	19,343	19,969	22,356	26,189	29,875	34,696	34,629	24,702	23,721	27,172	31,483	48,443	46,521	53,207	62,919	77,326	112,707
Monthly average-----	1,346	1,248	1,434	1,612	1,664	1,868	2,182	2,490	2,891	2,886	2,059	1,977	2,264	2,624	4,037	3,877	4,434	5,243	6,444	9,392

¹ Compiled by the U. S. Department of the Interior, Geological Survey, representing total production of electric power and consumption of fuels therein.

ELECTRIC POWER PRODUCTION IN CANADA (CENTRAL ELECTRIC STATIONS)¹

[In thousands of kilowatt-hours]

MONTH	TOTAL				GENERATED BY WATER POWER				GENERATED BY FUELS				EXPORTED			
	1926	1927	1928	1929	1926	1927	1928									

CONSTRUCTION CONTRACTS, 1925-1930—37 STATES¹

Number of Projects

MONTH	1925	1926	1927	1928	1929	1930	1925	1926	1927	1928	1929	1930
	TOTAL CONSTRUCTION—ALL TYPES						Commercial Buildings					
January	9,495	9,829	9,276	11,799	10,190	7,587	1,313	1,348	1,327	1,676	1,615	1,670
February	10,068	10,049	11,045	13,368	9,749	8,560	1,272	1,306	1,552	1,859	1,606	1,797
March	15,353	15,642	17,385	18,925	15,944	12,421	1,631	1,993	2,085	2,279	2,253	2,262
April	16,728	17,321	18,067	20,136	19,948	14,686	1,616	1,914	2,045	2,239	2,394	2,331
May	16,771	17,243	17,291	20,509	19,422	-----	1,715	1,941	1,971	2,146	2,399	-----
June	15,899	17,478	17,849	20,061	17,142	-----	1,631	1,854	1,965	2,091	2,103	-----
July	16,339	14,941	15,698	17,653	16,601	-----	1,736	1,672	1,780	1,991	2,173	-----
August	16,212	14,645	17,406	17,947	16,053	-----	1,731	1,659	2,019	2,035	2,187	-----
September	14,948	14,702	16,234	15,653	14,262	-----	1,619	1,818	1,798	1,788	2,067	-----
October	16,250	15,025	16,642	17,929	15,097	-----	1,773	1,845	1,912	2,113	2,226	-----
November	13,624	13,209	15,436	14,330	10,483	-----	1,547	1,551	1,706	1,843	1,805	-----
December	12,033	10,639	12,275	11,945	7,281	-----	1,499	1,348	1,456	1,523	1,309	-----
Total	173,720	170,723	184,604	200,255	172,172	-----	19,083	20,249	21,616	23,583	24,137	-----
Industrial Buildings												
January	344	406	366	419	461	379	131	136	147	147	140	182
February	310	419	409	505	491	439	193	180	175	179	169	204
March	433	599	533	517	668	506	293	282	353	348	274	337
April	442	555	529	540	612	543	341	328	370	409	350	401
May	459	492	468	518	623	-----	405	423	464	548	497	-----
June	370	463	467	511	542	-----	596	558	686	703	639	-----
July	436	430	412	438	549	-----	626	587	627	686	728	-----
August	432	476	470	506	579	-----	479	470	592	611	603	-----
September	459	498	483	514	543	-----	336	349	313	396	376	-----
October	589	550	539	626	679	-----	270	228	312	289	346	-----
November	547	489	527	540	516	-----	175	246	251	263	216	-----
December	495	401	434	433	417	-----	179	206	207	180	193	-----
Total	5,316	5,778	5,637	6,067	6,680	-----	4,024	3,993	4,497	4,759	4,531	-----
Hospital and Institutional Buildings												
January	42	47	47	53	71	63	51	73	60	83	69	69
February	56	49	66	62	58	60	48	43	53	78	56	91
March	71	76	98	94	81	101	72	73	83	119	109	124
April	64	83	97	96	83	115	65	71	101	113	119	138
May	76	80	106	114	120	-----	76	75	132	115	133	-----
June	94	93	119	106	120	-----	77	73	150	148	176	-----
July	105	101	116	100	133	-----	79	100	142	121	133	-----
August	101	106	149	117	117	-----	93	80	140	143	152	-----
September	102	82	119	112	106	-----	97	104	100	132	124	-----
October	85	90	106	102	147	-----	75	113	116	123	110	-----
November	60	96	100	94	85	-----	69	85	120	106	59	-----
December	73	82	71	91	69	-----	54	105	106	102	63	-----
Total	929	985	1,194	1,141	1,190	-----	856	995	1,303	1,383	1,303	-----
Religious and Memorial Buildings												
January	114	122	155	132	121	103	130	126	132	164	138	153
February	122	111	157	137	116	118	113	135	166	167	155	148
March	187	191	242	207	141	185	174	233	290	272	185	215
April	219	212	247	242	231	204	208	267	300	277	295	279
May	271	247	267	277	242	-----	277	277	325	304	285	-----
June	254	249	333	291	276	-----	258	247	340	282	254	-----
July	321	254	277	272	263	-----	263	235	218	240	248	-----
August	258	237	266	256	225	-----	273	239	276	236	254	-----
September	204	214	216	209	179	-----	232	246	232	185	190	-----
October	207	232	232	203	208	-----	182	228	235	220	207	-----
November	143	188	213	170	155	-----	141	187	210	177	145	-----
December	126	149	146	124	120	-----	151	163	166	133	128	-----
Total	2,426	2,406	2,751	2,520	2,277	-----	2,402	2,583	2,890	2,657	2,484	-----
Residential Buildings—All Types ²												
January	6,907	7,115	6,489	8,521	6,905	4,168	463	456	553	604	670	800
February	7,521	7,248	7,766	9,577	6,414	4,874	433	558	701	804	684	829
March	17,716	11,304	12,456	13,672	11,047	7,208	776	891	1,215	1,417	1,186	1,483
April	12,639	12,785	12,776	14,447	13,971	8,566	1,134	1,106	1,602	1,773	1,893	2,109
May	12,207	12,350	11,855	14,351	12,865	-----	1,285	1,358	1,703	2,136	2,258	-----
June	11,434	12,381	12,096	13,602	10,910	-----	1,185	1,500	1,693	2,327	2,122	-----
July	11,551	9,995	10,327	11,569	10,051	-----	1,222	1,567	1,799	2,236	2,323	-----
August	11,543	9,758	11,652	11,868	9,727	-----	1,302	1,620	1,842	2,175	2,209	-----
September	10,839	9,973	11,185	10,489	8,687	-----	1,060	1,418	1,788	1,828	1,990	-----
October	12,076	10,544	11,796	12,461	9,300	-----	993	1,195	1,394	1,792	1,874	-----
November	10,316	9,629	11,307	10,101	6,441	-----	628	738	1,002	1,036	1,061	-----
December	8,929	7,391	8,701	8,475	4,180	-----	527	794	988	884	802	-----
Total	127,678	120,473	128,436	139,133	110,498	-----	11,066	13,261	16,280	19,012	19,072	-----

See footnotes at end of table on p. 22.

CONSTRUCTION CONTRACTS, 1925-1930—37 STATES¹—Continued**[Floor Space, Square Feet]**

MONTH	1925	1926	1927	1928	1929	1930	1925	1926	1927	1928	1929	1930
	TOTAL CONSTRUCTION—All Types						Commercial Buildings					
January.....	50,918,300	65,560,200	53,262,600	63,716,900	58,773,900	32,924,500	11,505,400	12,010,500	11,568,200	11,428,500	15,750,000	8,601,000
February.....	49,290,200	55,704,500	54,844,100	68,847,400	54,356,500	38,236,000	8,322,400	9,534,000	9,496,500	10,178,100	11,640,400	10,712,200
March.....	76,143,200	86,458,400	87,891,700	88,090,400	77,698,200	53,505,300	12,257,700	17,116,900	16,255,100	11,715,900	13,517,800	12,723,400
April.....	86,086,400	86,722,800	83,617,500	94,360,100	94,981,100	36,602,800	13,054,700	15,426,200	13,155,200	14,613,500	15,675,100	10,510,000
May.....	81,884,700	84,937,500	74,079,100	95,165,000	81,208,800	—	14,796,100	13,528,700	13,296,600	15,112,800	16,651,400	—
June.....	81,059,100	77,794,500	78,729,700	94,381,100	71,825,500	—	14,844,100	12,540,700	13,507,100	14,654,300	13,933,500	—
July.....	86,167,900	69,033,300	67,956,800	82,125,100	75,463,700	—	14,293,800	11,261,700	12,939,100	17,609,200	14,419,600	—
August.....	92,172,700	76,090,000	73,099,900	78,873,000	66,720,000	—	17,979,800	13,308,900	11,573,500	12,552,500	14,322,200	—
September.....	89,302,400	74,473,600	67,740,500	76,347,500	59,872,200	—	14,133,300	14,734,500	10,241,400	11,878,200	13,513,900	—
October.....	85,169,300	72,392,500	76,332,300	85,703,000	65,609,200	—	12,925,200	11,796,100	12,385,800	14,097,200	13,273,800	—
November.....	80,175,600	70,515,900	69,801,100	73,756,400	51,052,400	—	11,324,900	10,238,800	7,732,100	13,784,900	13,666,400	—
December.....	77,827,400	64,108,500	63,200,200	65,200,600	44,007,800	—	14,129,200	10,857,800	9,463,600	11,566,400	5,369,000	—
Total.....	936,227,200	883,791,700	850,576,000	966,557,900	791,569,400	—	160,066,600	152,354,800	141,814,500	159,191,500	161,733,100	—
Industrial Buildings												
January.....	4,552,600	7,291,700	3,922,600	5,198,100	7,334,400	3,654,300	2,446,700	2,245,200	2,376,000	3,498,100	2,729,100	2,886,700
February.....	3,446,200	5,428,600	4,334,400	6,059,800	8,108,500	4,007,300	3,992,100	3,114,200	3,009,800	3,157,400	3,484,200	4,068,200
March.....	3,935,300	7,310,800	6,447,500	7,100,400	9,498,500	6,190,900	5,706,100	4,000,100	5,997,800	5,316,300	6,348,400	6,135,000
April.....	7,449,100	5,569,900	9,744,200	11,050,300	6,941,100	5,118,800	5,317,500	5,094,500	4,808,300	5,124,500	4,782,400	5,841,500
May.....	5,387,000	7,059,300	6,239,800	6,221,800	10,731,400	—	5,011,800	6,610,500	5,346,900	7,160,500	6,360,400	—
June.....	4,205,300	5,820,600	5,697,400	10,887,100	8,434,200	—	9,586,200	6,015,600	5,675,600	7,390,400	6,662,600	—
July.....	5,749,700	9,311,800	5,774,300	6,288,800	9,651,000	—	7,973,400	6,067,900	5,466,300	5,904,700	6,944,300	—
August.....	5,007,700	7,149,700	6,035,300	8,748,400	10,425,300	—	5,686,400	5,468,000	5,937,800	5,761,700	5,427,900	—
September.....	8,724,900	6,401,100	5,615,800	10,579,500	7,748,200	—	4,850,200	4,825,100	4,263,700	6,019,400	5,073,400	—
October.....	7,317,900	6,772,700	5,634,700	10,004,500	9,296,600	—	4,016,700	3,516,600	4,171,200	4,965,100	5,668,900	—
November.....	7,905,200	6,681,800	6,772,100	6,897,900	7,159,100	—	3,245,200	4,711,500	4,684,900	4,490,300	3,928,200	—
December.....	5,612,800	6,145,400	4,637,200	6,345,600	13,453,300	—	3,475,200	2,854,500	3,736,200	4,194,500	3,232,200	—
Total.....	70,293,700	80,943,400	70,855,300	95,382,200	108,781,600	—	61,307,800	54,564,700	55,474,500	62,982,900	60,644,000	—
Hospital and Institutional Buildings												
January.....	573,500	1,053,300	776,300	1,372,800	844,500	790,600	324,600	628,500	545,400	669,600	795,800	614,300
February.....	745,800	1,095,900	936,800	1,205,700	606,700	1,315,500	533,900	307,700	754,700	529,300	214,300	641,700
March.....	1,233,100	1,085,200	1,078,000	1,240,000	1,078,200	2,909,400	419,500	507,200	733,300	1,495,200	2,078,700	1,763,300
April.....	1,022,500	1,218,300	1,287,200	1,435,000	926,800	2,918,400	622,500	732,000	425,000	847,800	1,109,200	1,779,100
May.....	1,154,500	1,141,700	1,517,500	1,373,500	2,159,100	—	755,200	768,800	1,221,500	835,400	1,089,300	—
June.....	1,121,500	1,155,000	1,985,800	1,913,100	1,693,600	—	693,200	925,400	1,590,000	994,900	959,900	—
July.....	1,290,100	732,400	1,763,900	1,696,800	2,035,900	—	530,000	694,900	1,065,700	992,600	685,000	—
August.....	1,765,100	1,889,600	2,635,100	1,659,000	1,964,100	—	750,000	952,500	859,100	944,600	947,800	—
September.....	1,923,300	1,211,100	2,024,500	2,353,800	2,401,000	—	2,271,700	611,300	489,400	1,354,500	2,225,400	—
October.....	919,900	1,268,000	1,585,300	1,970,300	2,597,300	—	535,000	570,100	1,052,500	821,900	1,404,600	—
November.....	979,100	1,147,100	2,239,200	1,955,300	2,414,000	—	322,000	604,500	500,000	627,800	530,300	—
December.....	1,307,100	1,732,800	973,200	1,828,700	773,000	—	535,300	552,900	764,600	1,173,300	585,800	—
Total.....	14,035,500	14,790,400	18,802,800	20,004,000	19,494,200	—	8,292,900	7,855,800	9,941,200	11,286,900	12,626,100	—
Religious and Memorial Buildings												
January.....	876,500	951,800	708,800	709,100	494,200	518,900	1,632,500	1,655,800	1,424,600	1,495,800	914,000	1,408,500
February.....	922,200	808,400	1,109,600	854,700	773,400	921,000	1,794,200	1,438,700	2,237,900	2,478,500	1,432,800	726,000
March.....	1,293,400	1,400,400	1,778,600	1,535,400	772,200	1,346,300	2,937,500	3,085,800	4,427,100	2,404,200	1,634,100	1,432,900
April.....	1,087,000	1,426,400	1,606,000	1,536,000	1,247,300	1,438,600	3,040,400	2,940,700	2,483,000	2,550,300	2,105,900	2,117,400
May.....	1,388,400	1,940,900	2,096,700	1,680,500	1,546,500	—	2,732,000	2,278,100	3,398,800	2,413,300	1,792,400	—
June.....	2,073,600	1,602,900	2,064,400	816,800	1,473,900	—	2,876,600	2,426,800	3,113,800	2,696,800	1,311,100	—
July.....	2,322,100	1,671,100	1,914,800	1,878,800	1,567,100	—	3,332,000	2,073,000	2,041,000	2,632,300	1,924,100	—
August.....	2,425,700	1,394,700	1,521,000	1,572,100	1,431,400	—	4,190,700	3,225,400	2,629,600	2,573,000	1,831,600	—
September.....	1,421,200	1,480,900	1,170,200	1,127,800	837,200	—	2,806,200	3,162,500	3,493,300	1,593,500	1,779,800	—
October.....	1,618,200	1,650,200	1,184,700	1,094,300	1,240,900	—	2,545,400	2,539,000	2,777,700	2,744,700	2,549,400	—
November.....	990,900	987,300	1,211,900	948,800	668,600	—	1,941,500	2,621,400	2,262,400	1,361,100	1,033,400	—
December.....	1,040,100	1,049,900	824,700	644,000	764,600	—	1,735,600	2,424,600	2,091,800	1,217,800	1,400,600	—
Total.....	18,869,300	16,370,900	17,191,400	15,398,300	12,817,300	—	31,564,900	29,871,800	32,381,200	26,691,300	19,709,200	—
Residential Buildings—All Types²												
January.....	28,053,300	39,565,600	31,467,700	39,114,200	29,306,900	13,826,400	953,200	157,800	473,000	230,700	605,000	623,800
February.....	28,852,100	33,595,300	32,383,700	44,188,100	27,260,300	15,206,800	681,300	381,700	580,700	195,800	835,900	637,300
March.....	47,069,100	51,476,500	50,171,900	56,825,100	41,727,300	20,712,600	291,500	475,500	1,002,400	457,900	1,043,000	291,500
April.....	52,815,300	53,640,500	49,641,200	56,990,000	58,627,500	40,325,600	777,100	674,300	467,400	213,100	462,200	1,477,500
May.....	49,510,200	50,807,200	39,898,000	58,627,500	40,325,600	51,731,200	25,401,500	—	1,730,700	552,700	—	—
June.....	45,173,300	46,616,800	43,658,400	53,723,200	36,484,900	—	515,300	690,700	1,437,200	304,500	871,800	—
July.....	50,189,200	36,731,400	36,225,000	44,670,500	37,758,900	—	487,600	423,100	826,700	451,400	477,800	—
August.....	53,781,300	42,066,500	41,206,900	44,575,400	29,544,400	—	586,000	633,700	701,600	486,300	525,300	—
September.....	48,683,400	41,640,400										

CONSTRUCTION CONTRACTS, 1925-1930-37 STATES—Continued

[Valuation, Dollars]

MONTH	1925	1926	1927	1928	1929	1930	1925	1926	1927	1928	1929	1930
TOTAL CONSTRUCTION, ALL TYPES												
Jan.	309,470,900	457,158,600	384,455,400	427,168,700	409,967,900	323,975,200	70,144,500	71,321,700	80,115,700	68,851,400	100,378,000	54,052,300
Feb.	310,882,600	407,899,800	393,582,500	465,331,300	361,273,900	317,053,000	42,748,200	68,176,700	67,896,100	57,695,400	68,265,100	72,903,200
Mar.	491,010,600	623,879,300	620,738,200	592,567,000	484,587,500	456,119,000	56,108,200	108,812,400	113,766,000	73,075,300	75,583,800	77,001,500
Apr.	567,567,000	570,613,600	604,390,700	642,237,100	642,090,500	482,876,700	66,176,200	89,335,000	80,753,600	82,757,700	77,988,400	73,241,100
May.	508,711,900	549,814,800	552,343,500	667,097,200	587,765,900	-----	81,883,900	70,891,600	72,541,100	91,200,200	86,470,700	-----
June.	561,051,800	544,792,400	632,478,000	650,466,200	529,891,100	-----	96,899,000	67,960,200	88,122,400	93,942,200	80,884,200	-----
July.	547,034,400	518,441,900	534,388,900	583,432,400	652,436,100	-----	72,032,100	67,219,400	83,010,100	95,696,800	91,348,300	-----
Aug.	611,355,800	605,808,000	552,487,900	516,970,200	488,882,400	-----	108,006,300	81,342,500	76,915,300	58,910,500	71,955,400	-----
Sept.	565,449,500	562,371,400	521,611,000	581,674,000	444,402,300	-----	85,398,800	97,378,300	59,617,400	60,068,000	76,920,600	-----
Oct.	530,252,700	515,726,600	562,815,800	597,103,500	445,642,300	-----	58,664,600	63,601,400	79,719,700	67,330,400	67,732,600	-----
Nov.	474,792,900	487,012,500	466,393,400	471,482,200	391,012,500	-----	62,727,400	59,657,100	45,520,800	68,309,100	101,769,200	-----
Dec.	528,845,200	537,395,800	477,363,800	432,756,300	316,368,100	-----	71,654,500	75,196,200	86,933,100	66,772,600	33,392,100	-----
Total...	6,006,426,300	6,380,914,700	6,303,055,100	6,628,286,100	5,754,290,500	-----	872,443,700	920,890,500	932,911,300	884,609,600	932,688,400	-----
Industrial Buildings												
Jan.	21,219,200	94,676,500	27,875,300	37,970,300	63,108,900	38,266,200	15,701,100	13,346,200	17,012,500	23,369,400	17,745,900	19,009,200
Feb.	21,692,700	40,422,000	41,247,000	34,881,300	56,092,100	33,499,300	21,204,500	20,721,500	22,045,400	18,650,500	22,576,700	21,238,800
Mar.	53,671,400	74,677,200	48,076,600	48,804,000	55,837,300	74,332,600	42,818,400	29,079,700	36,521,800	33,881,000	37,525,200	35,350,200
Apr.	55,884,100	45,652,800	44,601,900	85,093,400	68,229,500	38,120,600	33,871,600	38,480,200	35,678,100	31,985,400	29,857,100	35,156,000
May.	27,865,500	45,977,100	44,888,800	37,146,100	80,768,900	-----	31,519,700	39,709,700	34,545,100	46,851,000	38,195,100	-----
June.	26,060,400	54,514,700	33,879,300	63,536,700	70,036,300	-----	67,561,400	40,753,400	42,121,800	46,134,600	43,417,200	-----
July.	58,490,500	62,764,400	30,302,900	31,399,800	66,604,000	-----	58,790,200	42,015,800	36,433,600	36,926,400	47,979,300	-----
Aug.	30,030,300	68,279,000	41,039,500	42,606,900	75,265,000	-----	36,021,800	42,124,000	41,035,200	35,712,600	32,349,400	-----
Sept.	45,096,200	49,112,700	48,545,800	114,780,300	52,640,400	-----	35,675,200	34,531,600	29,243,700	38,800,500	29,825,900	-----
Oct.	63,594,300	46,465,600	50,712,200	62,258,700	60,863,700	-----	22,446,400	34,571,800	31,741,300	30,022,600	25,701,800	-----
Nov.	53,882,600	64,781,100	52,890,700	38,664,900	39,673,900	-----	32,213,500	22,177,600	23,247,600	25,370,100	19,841,800	-----
Dec.	33,454,400	51,180,700	29,988,800	38,247,900	67,392,400	-----	426,385,800	381,078,200	379,795,700	398,997,300	381,908,000	-----
Total...	490,941,600	698,503,800	494,048,800	635,390,300	756,512,400	-----	54,519,800	67,220,300	79,467,600	76,244,600	120,777,900	-----
Hospital and Institutional Buildings												
Jan.	4,500,000	8,577,100	6,673,700	11,182,400	8,057,100	6,783,400	2,659,500	4,461,300	6,382,100	5,844,700	4,949,900	8,567,100
Feb.	6,563,200	10,406,800	8,059,000	8,310,700	4,627,900	8,777,700	3,137,800	2,902,600	8,236,400	4,064,400	1,454,000	5,580,600
Mar.	9,510,600	8,820,000	10,621,400	9,823,900	9,903,100	23,802,700	3,438,700	4,293,300	5,968,700	10,306,100	17,913,500	18,188,900
Apr.	7,773,700	10,332,100	10,436,200	12,170,700	10,657,600	8,865,700	3,836,400	8,664,000	4,538,700	5,846,500	24,807,100	11,398,600
May.	8,519,600	9,908,100	15,444,400	10,641,700	16,619,100	5,199,600	5,663,600	9,185,000	5,985,000	6,520,100	-----	-----
June.	8,712,300	10,973,100	21,451,800	14,395,500	12,325,700	-----	5,204,500	8,337,000	11,615,700	6,672,600	5,853,500	-----
July.	8,776,500	9,225,500	14,916,400	12,758,900	15,696,800	-----	3,269,400	6,523,600	7,768,700	6,902,000	8,550,400	-----
Aug.	12,965,700	17,094,000	18,125,900	11,913,000	14,331,700	-----	6,618,100	5,608,400	6,688,600	6,293,900	8,293,200	-----
Sept.	15,941,200	11,240,500	16,286,400	23,842,700	17,898,600	-----	10,507,200	5,197,200	3,929,900	5,188,900	15,575,000	-----
Oct.	6,808,800	10,283,500	12,352,500	17,148,000	19,992,000	-----	3,406,800	4,525,900	7,010,900	5,495,400	14,197,200	-----
Nov.	6,582,500	9,603,900	19,165,200	16,519,100	19,577,700	-----	2,670,800	4,428,400	3,551,800	4,387,200	5,956,300	-----
Dec.	12,398,100	16,617,300	8,421,500	17,752,800	6,147,400	-----	4,575,000	6,614,700	4,591,100	9,257,900	6,707,700	-----
Total...	111,050,200	133,101,900	162,475,000	164,728,200	152,203,700	-----	54,519,800	67,220,300	79,467,600	76,244,600	120,777,900	-----
Religious and Memorial Buildings												
Jan.	11,424,900	9,078,100	9,157,900	5,532,900	4,382,500	5,504,400	13,656,800	11,928,500	10,417,200	9,189,700	6,755,000	13,095,500
Feb.	7,200,400	5,516,000	11,257,600	7,350,000	6,184,500	9,576,300	14,713,800	14,295,600	19,572,800	35,413,700	14,994,200	4,889,000
Mar.	9,164,600	11,949,900	14,245,100	13,195,300	6,851,800	10,096,300	21,213,100	23,000,000	33,634,400	17,951,600	12,552,400	10,505,400
Apr.	15,331,200	11,424,200	17,302,000	12,170,700	10,657,600	8,865,700	25,661,600	22,148,900	26,378,300	19,960,000	14,607,600	17,409,400
May.	15,400,400	16,288,000	17,615,400	15,615,100	14,213,300	-----	23,058,600	15,827,700	26,781,500	20,609,100	13,575,900	-----
June.	21,393,500	12,292,300	15,891,600	15,321,400	13,100,300	-----	22,634,400	17,036,600	28,182,800	21,526,800	9,624,300	-----
July.	15,933,700	17,983,000	16,274,400	15,347,100	11,969,000	-----	21,678,400	16,412,400	14,832,900	18,623,900	15,816,100	-----
Aug.	17,288,300	10,722,300	13,752,200	12,283,300	10,058,100	-----	33,237,200	26,662,800	25,735,000	16,654,200	11,203,600	-----
Sept.	11,618,600	13,209,000	12,910,900	9,091,900	6,248,900	-----	21,253,900	28,019,000	21,970,200	14,078,200	10,682,700	-----
Oct.	13,196,700	14,561,000	10,394,000	8,096,600	11,024,200	-----	21,176,200	22,172,300	20,684,200	17,092,800	12,133,300	-----
Nov.	6,346,600	9,320,800	9,903,100	7,861,000	5,773,500	-----	13,804,800	24,691,100	14,568,800	12,265,000	6,676,200	-----
Dec.	8,774,600	16,426,100	7,786,800	6,082,100	5,617,500	-----	16,434,800	24,927,100	16,457,000	10,755,800	11,398,100	-----
Total...	153,073,500	148,779,700	156,491,000	127,947,400	108,111,200	-----	248,663,700	247,122,000	260,714,100	214,120,800	140,019,400	-----
Residential Buildings—All Types²												
Jan.	132,496,000	190,847,000	467,866,300	193,189,200	138,068,600	66,631,900	37,668,900	52,922,200	58,954,700	72,038,700	66,522,000	112,065,200
Feb.	139,788,900	178,747,800	163,087,900	238,985,100	129,486,400	74,763,200	53,833,100	66,710,800	52,180,300	59,980,200	57,593,000	85,824,900
Mar.	226,927,800	262,643,500	250,078,300	275,191,600	196,912,200	101,491,600	68,157,800	100,630,300	106,826,900	110,338,200	71,508,200	105,349,800
Apr.	262,406,200	265,331,000	267,416,900	276,586,200	256,779,700	123,141,900	96,626,000	79,227,400	116,264,400	117,401,000	152,220,900	149,669,900
May.	236,852,60											

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.

<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
TEXTILES												
Wool												
Receipts at Boston:												
Total-----thous. of lbs..	15,828	12,166	14,986	17,163	28,649	15,390	24,215	+66.9	+18.3	99,669	88,792	-10.9
Domestic-----thous. of lbs..	6,500	5,012	5,628	8,501	18,937	6,442	16,108	+122.8	+17.6	34,656	44,578	+28.6
Foreign-----thous. of lbs..	9,328	7,154	9,358	8,662	9,712	8,948	8,107	+12.1	+19.8	65,013	44,214	-32.0
Imports:												
In condition imported-----thous. of lbs..	26,464	18,498	20,049	17,816	15,484	28,165	19,786	-13.1	-21.7	150,615	98,311	-34.7
Grease equivalent-----thous. of bbls..	29,423	20,221	21,463	19,384	16,810	30,941	22,372	-13.3	-24.9	167,216	107,301	-35.8
Consumption by textile mills, grease equivalent-----thous. of lbs..	43,627	38,330	37,195	36,794	32,641	49,205	48,765	-11.3	-33.1	247,949	188,587	-23.9
Machinery activity, hourly:												
Looms-----per ct. of hours active..	53	52	46	45	51	70	67	+13.3	-23.9			
Wide-----per ct. of hours active..	50	41	39	41	39	64	61	-4.9	-36.1			
Narrow-----per ct. of hours active..	51	51	49	49	44	70	72	-10.2	-38.9			
Carpet and rug-----per ct. of hours active..	63	65	61	61	60	87	86	-1.6	-30.2			
Sets of cards-----per ct. of hours active..	79	86	64	60	68	81	84	+13.3	-19.0			
Combs-----per ct. of hours active..												
Spinning spindles-----												
Woolen-----per ct. of hours active..	62	61	58	58	60	84	82	+3.4	-26.8			
Worsted-----per ct. of hours active..	55	59	50	43	52	70	66	+20.9	-21.2			
Prices:												
Raw, territory, fine, scoured-----dolls. per lb..	.81	.79	.77	.76	.77	1.04	1.00	+1.3	-23.0			
Raw, Ohio and Pa. fleeces,												
$\frac{1}{4}$ blood, combing, grease-----dolls. per lb..	.38	.36	.33	.31	.29	.49	.43	-6.5	-32.6			
Worsted yarn-----dolls. per lb..	1.38	1.35	1.30	1.25	1.23	1.55	1.50	-1.6	-18.0			
Women's dress goods, French												
serge, 39 in.-----dolls. per yd..	.98	.98	.93	.90	.90	.98	.98	0.0	-8.2			
Suiting, 13-oz.-----dolls. per yd..	1.838	1.800	1.756	1.756	1.756	2.008	2.008	0.0	-12.5			
Cotton												
Receipts into sight-----thous. of bales..	840	417	466	457	343	559	332	-24.9	+3.3	3,398	2,523	-25.8
Imports, unmanufactured-----bales..	51,474	23,643	28,279	67,397	53,328	84,621	42,486	-20.9	+25.5	258,795	224,121	-13.4
Exports, unmanufactured (excl. linters)-----bales..	728,737	402,074	477,678	349,762	208,796	447,838	313,003	-40.3	-33.3	2,718,816	2,187,047	-20.3
Consumption by textile mills-----bales..	577,235	495,204	508,576	532,382	473,917	631,802	668,650	-11.0	-29.1	3,195,127	2,587,314	-19.0
Stocks, domestic, end of month:												
Totals, mills and w'houses-----thous. of bales..	7,237	6,670	5,952	5,304	4,869	4,131	3,322	-8.2	+46.6			
Mills-----thous. of bales..	1,830	1,812	1,763	1,668	1,531	1,606	1,476	-8.2	+3.7			
Warehouses-----thous. of bales..	5,407	4,858	4,189	3,636	3,337	2,525	1,846	-8.2	+80.8			
Stocks, world visible, end of month:												
Total-----thous. of bales..	8,059	7,854	7,339	6,659	6,335	6,053	5,268	-4.9	+20.3			
American-----thous. of bales..	5,576	5,150	4,612	3,975	3,688	3,680	3,000	-7.2	+22.9			
Machinery activity of spindles:												
Active spindles-----thousands..	29,198	28,927	28,898	28,860	28,374	30,911	30,937	-1.7	-8.3			
Total activity-----millions of hours..	8,173	7,091	7,350	7,503	6,729	8,861	9,164	-10.3	-26.6			
Activity per spindle-----hours..	236	205	214	219	197	251	261	-10.0	-24.5			
Ratio to capacity-----per cent..	100.3	97.7	92.8	96.3	83.6	110.3	110.9	-13.2	-24.6			
Prices:												
To producer-----dolls. per lb..	.158	.148	.138	.147	.145	.185	.180	-1.4	-19.4			
In New York, middling-----dolls. per lb..	.173	.157	.151	.163	.164	.201	.195	+0.6	-15.9			
Cotton Yarn												
Carded sales yarn:												
Production-----thous. of lbs..	17,571	13,086	13,707	15,485	11,678	18,269	17,941	-24.6	-34.9	96,612	71,527	-26.0
Stocks, end of month-----thous. of lbs..	10,773	11,775	12,487	13,116	13,439	8,446	8,760	+2.5	+53.4			
Unfilled orders, end of month-----thous. of lbs..	35,056	36,165	39,072	34,457	30,186	40,345	37,609	-12.4	-19.7			
Prices:												
22/1 cones, Boston-----dolls. per lb..	.323	.310	.297	.302	.290	.363	.353	-4.0	-17.8			
40/4s, southern spinning-----dolls. per lb..	.500	.486	.477	.480	.473	.510	.499	-1.5	-5.2			
Cotton Goods												
Cotton textiles:												
Production-----thous. of yds..	323,287	266,849	261,403	257,243	275,801	283,878	341,370	+7.3	-19.2	1,558,921	1,384,583	-11.2
New orders-----thous. of yds..	292,034	243,361	292,249	223,225	184,473	202,520	278,335	-17.4	-33.7	1,496,975	1,235,842	-17.4
Shipments-----thous. of yds..	331,481	274,543	265,675	253,360	270,056	277,098	326,121	+6.6	-17.2	1,583,324	1,395,115	-11.9
Stocks, end of month-----thous. of yds..	452,819	445,125	440,853	444,736	450,481	352,091	367,340	+1.3	+22.6			
Unfilled orders, end of mo.-----thous. of yds..	391,571	360,889	387,463	357,328	271,745	430,298	382,512	-24.0	-29.0			
Fine cotton goods, production-----pieces..	420,190	356,334	402,322	351,580	425,925	526,971				1,704,136	1,530,426	-10.2
Cotton cloth:												
Imports-----thous. of sq. yds..	4,455	3,505	3,781	5,076	4,299	5,334	6,527	-15.3	-34.1	27,692	21,116	-23.7
Exports-----thous. of sq. yds..	39,153	32,045	36,171	36,821	38,523	49,233	46,261	+4.6	-16.7	260,646	182,713	-29.9
Fabric for tire manufacture:												
Consumption-----thous. of lbs..	14,559	13,767	14,656	17,264	17,437	23,620	23,302	+1.0	-25.2	108,266	77,683	-28.2
Elastic webbing, shipments-----thous. of dolls..	1,444	1,421	1,496	1,347	1,300	1,766	1,725	-3.5	-24.6	8,344	7,008	-16.0
Prices:												
Print cloth, 64 x 60-----dolls. per yd..	.068	.065	.062	.061	.068	.076	.073	0.0	-16.4			
Sheeting, brown-----dolls. per yd..	.083	.079	.078	.076	.078	.089	.087	+2.6	-10.3			
Cotton goods (Fairchild), rel. to 1911-1913-----	152	150	140	138	137	164	162	-0.7	-15.4			

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)	CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31	Per ct. increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May				
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>											
TEXTILES—Continued											
Cotton Finishing											
White, dyed and printed (outside mills):											
Billings, finished goods.....thous. of yds.	63,457	64,271	66,246	65,364	59,384	96,707	88,707	-9.1	-33.1	447,003	318,722
New orders, gray yardage.....thous. of yds.	71,723	57,834	60,526	56,641	48,699	90,469	79,228	-14.0	-38.5	439,331	295,423
Shipments, finished goods.....cases	41,793	37,014	39,459	34,308	39,307	57,030	54,247	+14.6	-27.5	283,976	191,881
Stocks, finished goods, end mo.....cases	35,428	32,967	32,528	40,741	34,571	34,920	35,618	-15.1	-2.9		
Operating activity.....per ct. of capacity	57	62	59	56	47	74	71	-16.1	-33.8		
Unfilled orders, end of month.....days	4.3	4.2	4.2	2.9	2.6	6.4	5.2	-10.3	-50.0		
Printed only (mills and outside):											
Production.....thous. of yds.	60,091	60,939	72,634	72,721	58,588	88,635	85,894	-19.4	-31.8	427,639	324,973
Stocks, end of month.....thous. of yds.	73,239	72,642	77,763	84,808	85,381	82,106	78,184	+0.7	+9.2		
Silk											
Imports, raw.....thous. of lbs.	7,346	6,644	6,103	6,047	3,622	6,220	8,599	-40.1	-57.9	37,492	29,762
Deliveries (consumption).....bales	57,683	49,852	50,863	41,584	40,823	53,855	49,121	-1.8	-16.9	256,431	240,805
Stocks, end of month:											
At warehouses.....bales	76,264	68,646	57,773	53,704	35,477	39,125	39,898	-33.9	-11.1		
At manufacturing plants.....bales	29,100	24,591	24,728	25,280	23,200	23,108	24,623	-8.2	-5.8		
Silk machinery activity:											
Broad looms.....per cent of normal	105.6	109.7	111.1	101.3	87.9	101.1	101.0	-13.2	-13.0		
Narrow looms.....per cent of normal	59.6	56.2	57.7	57.2	52.8	68.8	74.2	-7.7	-28.8		
Spinning spindles.....per cent of normal	67.0	69.3	69.2	68.8	59.1	66.9	65.3	-14.1	-9.5		
Prices:											
Raw, Japanese, 13-15, N. Y. ....dolls. per lb.	4,630	4,433	4,531	4,186	3,940	5,145	4,777	-5.9	-17.5		
Silk goods, composite.....dolls. per yd.	1.17	1.17	1.16	1.14		1.18	1.18				
Rayon											
Imports.....thous. of lbs.	1,159	954	928	901	487	1,683	1,589	-45.9	-69.4	8,147	4,429
Stocks, bonded, end of month.....thous. of lbs.	3,087	3,061	3,093	3,111	2,956	2,736	2,423	-5.0	+22.0		
Price, 150 denier, A grade, N. Y. ....dolls. per lb.	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	2,522	2,336	2,294	1,981		2,304	2,203			8,11,047	3,9,133
Separate trousers.....thous. of garments	2,293	2,179	2,363	2,247		2,670	2,813			3,10,314	3,9,082
Overcoats.....thous. of garments	307	335	352	216		296	394			3,1,669	3,1,210
Overalls:											
Cut.....thous. of dozen garments	319	321	326	285		361	2,334			3,1,411	3,1,251
Net shipments.....thous. of dozen garments	289	304	297	273		315	2,317			3,1,254	3,1,163
Unfilled orders, end of mo.....thous. of dozen garments	147	117	116	112		189	2,158				
Hosiery:											
Production.....thous. of dozen pairs	3,474	3,189	2,3,046	2,935		3,651	3,835			3,14,221	3,12,644
Net shipments.....thous. of dozen pairs	2,742	2,711	2,2,886	2,865		3,507	3,672			3,13,546	3,11,204
Stocks, end of month.....thous. of dozen pairs	8,308	8,814	2,8,993	8,724		8,022	8,430				
New orders.....thous. of dozen pairs	2,662	2,598	2,2,747	2,920		3,991	4,116			3,14,053	3,10,927
Unfilled orders, end of month.....thous. of dozen pairs	3,035	2,852	2,2,642	2,470		4,680	5,089				
Knit underwear:											
Production.....thous. of dozen garments	1,109	1,128	1,192	2,1,148	1,029	1,274	1,316	-10.4	-21.8	5,967	5,606
Net shipments.....thous. of dozen garments	944	981	1,044	2,998	994	1,112	1,168	-0.4	-14.9	5,389	4,961
Stocks, end of month.....thous. of dozen garments	1,436	1,530	1,590	2,1,731	1,751	1,523	1,679	+1.2	+4.3	6,292	5,238
New orders.....thous. of dozen garments	1,199	1,041	1,036	2,896	1,066	1,071	1,088	+19.0	-2.0		
Unfilled orders, end of month.....thous. of dozen garments	1,632	1,677	1,658	2,1,549	1,611	2,444	2,349	+4.0	-31.4		
Burlaps and Fibers											
Imports:											
Burlaps.....thous. of lbs.	73,098	71,053	52,854	54,863	47,699	69,787	71,649	-13.1	-33.4	312,830	290,567
Fibers (unmanufactured).....long tons.	30,262	23,640	33,312	23,126	19,322	30,389	26,300	-16.4	-26.5	160,977	123,662
Pyroxylon-Coated Textiles											
Pyroxylon spread.....thous. of lbs.	3,098	3,093	3,474	4,033	3,693	5,554	5,245	-8.4	-29.6	28,890	17,391
Shipments billed.....thous. of linear yards	2,786	2,708	3,111	3,261	3,227	4,822	4,563	-1.0	-29.3	23,929	15,093
Unfilled orders, end of month.....thous. of linear yards	2,373	2,404	2,332	2,421	2,370	4,061	3,531	-2.1	-32.9		
Fur											
Sales by dealers.....thous. of dollars	2,968	7,667	8,327			12,904	12,522				
Buttons											
Fresh-water pearl buttons:											
Production.....ratio to capacity	42.3	49.3	48.3	47.1	42.4	52.6	2,51.1	-10.0	-17.0		
Stocks, end of month.....thous. of gross	9,700	9,698	9,838	9,878	9,790	11,114	2,11,244	-0.9	-12.9		
Imports:											
Buttons—											
Product of Philippines.....thous. of gross	64	71	63	59	44	66	53	-25.4	-17.0	265	301
All other.....thous. of gross	261	5	5	6	16	14	18	+166.7	-11.1	232	293
Shells—											
Mother of pearl.....thous. of pounds	866	443	531	171	570	649	381	+233.3	+49.6	2,578	2,581
All other.....thous. of pounds	32	516	69	104	925	40	45	+789.4		643	1,646
Tagua nuts.....thous. of pounds	1,149	477	1,186	1,607	1,317	2,390	1,899	-18.0	-30.6	11,677	5,736
IRON AND STEEL											
Iron											
Manganese ore, imports.....thous. of long tons	38	22	30	26	30	31	29	+15.4	+3.4	114	146
Iron ore:											
Imports.....thous. of long tons	293	203	301	313	291	284	276	-7.0	+5.4	1,225	1,401
Shipments from mines.....thous. of long tons	None.	None.	None.	108	6,979	2,516	9,549		-26.9	12,065	7,087
Receipts—											
Lake Erie ports and furnaces.....thous. of long tons	None.	None.	None.	10	3,987	1,191	6,753		-41.0	7,944	3,997
Other ports.....thous. of long tons	None.	None.	None.	None.	2,100	387	2,527		-16.9	2,913	2,100

* Revised.

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
IRON AND STEEL—Continued												
Iron—Continued												
Iron ore—Continued.												
Consumption—thous. of long tons	4,101	4,062	4,628	4,576	4,715	5,417	5,980	+3.0	-21.2	26,876	22,082	-17.8
Stocks, end of month—												
Total—thous. of long tons	33,528	29,475	24,877	20,235	21,325	15,930	19,146	+5.1	+11.4			
At furnaces—thous. of long tons	27,674	23,939	19,785	15,950	17,072	12,283	15,275	+7.0	+11.8			
On Lake Erie docks—thous. of long tons	5,854	5,536	5,092	4,335	4,253	3,647	3,871	-1.9	+9.9			
Pig-iron production:												
Total, United States—thous. of long tons	2,827	2,839	3,246	3,182	3,233	3,663	3,898	+1.6	-17.1	17,924	15,327	-14.5
Merchant furnaces—thous. of long tons	613	555	645	617	619	837	793	+0.3	-21.9	3,883	3,049	-21.5
Canada—thous. of long tons	87	71	76	72	81	79	81	+12.5	0.0	428	387	-9.6
Furnaces in blast, end of month:												
Furnaces—number	172	179	185	183	180	215	219	-1.6	-17.8			
Capacity—long tons per day	96,370	102,250	106,080	104,770	103,425	122,980	126,150	-1.3	-18.0			
Ohio gray-iron foundries:												
Meltings—												
Actual—long tons	15,419	16,012	15,778	20,101		23,703	23,588			387,112	367,310	-22.7
Normal—long tons	18,693	17,751	16,633	20,188		20,949	20,568			381,139	373,265	-9.7
Ratio to normal—per cent of normal	82.4	90.2	94.8	99.0		113.1	114.6					
Stocks, end of month—per cent of normal	129	145	126	125		122	118					
Receipts—per cent of normal	88	101	87	96		102	112					
Malleable castings:												
Production—short tons	61,381	65,942	63,464	62,035	53,729	83,744	81,641	-13.4	-34.2	395,750	306,551	-22.5
Operating activity—per ct. of capacity	61.6	67.4	64.6	63.1	53.7	88.1	83.7	-14.9	-35.8			
Shipments—short tons	57,820	59,971	65,164	60,884	56,474	80,968	80,527	-7.2	-29.9	390,882	300,313	-23.2
New orders—short tons	58,009	61,606	60,915	54,685	47,527	80,777	76,949	-13.1	-38.2	399,233	282,742	-29.2
Wholesale prices:												
Foundry, No. 2,												
northern—dollars per long ton	20.26	20.26	20.26	20.26	20.26	19.76	20.26	0.0	0.0			
Basic (valley furnace)—dollars per long ton	18.50	18.50	18.50	18.50	18.50	17.90	18.38	0.0	+0.7			
Composite pig iron—dollars per long ton	19.08	18.99	18.77	18.75	18.66	19.25	19.27	-0.5	-3.2			
Cast-iron Boilers and Radiators												
Round boilers:												
Production—thous. of lbs	10,356	10,659	9,858	9,934	8,398	10,184	11,212	-15.5	-25.1	57,380	49,205	-14.2
Shipments—thous. of lbs	7,304	5,516	4,935	5,853	5,898	8,603	9,682	+0.8	-39.1	42,774	29,506	-31.0
New orders—thous. of lbs	6,366	5,158	4,805	4,988	5,368	7,920	9,143	+7.6	-41.3	38,509	26,685	-30.7
Stocks, end of month—thous. of lbs	67,836	73,404	78,737	76,232	78,908	87,971	89,104	+3.5	-11.4			
Square boilers:												
Production—thous. of lbs	20,033	21,355	21,008	21,988	15,567	20,014	19,410	-29.2	-19.8	132,422	99,951	-24.5
Shipments—thous. of lbs	13,836	10,191	8,854	9,433	11,249	12,264	14,946	+19.3	-24.7	70,843	53,563	-24.4
New orders—thous. of lbs	13,345	10,415	10,163	8,923	11,047	13,616	15,084	+23.8	-26.5	69,471	53,893	-22.4
Stocks, end of month—thous. of lbs	132,837	143,638	155,335	173,605	177,674	177,755	181,998	+2.3	-2.4			
Radiators:												
Production—thous. sq. ft. heating surface	9,253	9,222	8,518	7,898	7,639	10,653	10,641	-3.3	-28.2	63,342	42,530	-32.9
Shipments—thous. sq. ft. heating surface	6,047	4,433	3,912	4,259	5,047	6,443	7,900	+18.5	-36.1	37,182	23,698	-36.3
New orders—thous. sq. ft. heating surface	6,276	4,845	5,085	4,411	5,331	8,238	8,178	+20.9	-34.8	38,791	25,948	-33.1
Stocks, end of month—thous. sq. ft. heating surface	49,717	54,589	59,064	62,747	65,309	71,284	74,067	+4.1	-11.8			
Gas-fired boilers:												
Shipments—dollars	118,418	111,401	175,912	323,424	184,795	262,914	190,295	-42.9	-2.9	938,154	913,960	-2.6
Shipments—thous. B.t.u.	100,080	91,644	151,380	259,442	155,282	202,358	149,555	-40.1	+3.8	712,312	757,778	+6.4
Production—thous. B.t.u.	215,939	188,190	182,837	169,086	251,027	350,409	298,794	+48.5	-16.0	1,215,423	1,007,079	-17.1
Stocks, end of month—thous. B.t.u.	845,210	917,929	856,070	715,889	840,004	916,004	939,481	+17.3	-10.6			
Crude Steel												
Steel ingots, production:												
United States, total—thous. of long tons	2,3,796	2,4,078	2,4,300	2,4,154	4,025	2,4,950	2,5,286	-3.1	-23.9	24,133	20,353	-15.7
Ratio to capacity—per cent	2,70	2,85	2,83	2,80	74	97	100	-7.5	-26.0	618	634	-13.6
Canada—thous. of long tons	115	107	117	103	92	122	126	-10.7	-27.0			
U. S. Steel Corporation:												
Unfilled orders, end of month—thous. of long tons	4,469	4,480	4,571	4,354	4,059	4,428	4,304	-6.8	-5.7			
Steel castings:												
Production—												
Total—short tons	109,296	107,897	113,737	2,111,366	103,405	121,941	127,189	-7.1	-18.7	555,274	545,701	-1.7
Ratio to capacity—per cent	76	75	79	77	72	84	87	-6.5	-17.2			
Railroad specialties—short tons	48,292	44,652	47,813	2,45,409	42,317	53,458	58,636	-6.8	-27.8	237,627	228,483	-3.8
Miscellaneous—short tons	61,004	63,245	65,924	2,65,457	60,988	68,483	68,553	-6.8	-11.0	317,647	316,618	-0.3
New orders—												
Total—short tons	101,728	114,727	122,658	2,92,966	89,687	144,616	113,329	-3.5	-20.9	628,733	521,766	-17.0
Ratio to capacity—per cent	70	80	85	2,64	62	99	78	-3.1	-20.5			
Railroad specialties—short tons	42,502	55,310	54,063	2,35,213	41,252	75,625	44,919	+17.1	-8.2	304,999	228,340	-25.1
Miscellaneous—short tons	59,226	59,417	68,595	2,57,753	48,435	68,991	68,410	-16.1	-29.2	323,734	293,426	-9.4
Sheets, black, blue, galvanized, and full finished:												
Production—												
Total—net tons	291,529	275,952	259,658	308,988	274,220	375,256	393,430	-11.3	-30.3	1,850,760	1,410,347	-23.8
Ratio to capacity—per cent	77.6	83.9	73.7	84.0	73.3	115.2	115.8	-12.7	-36.7			
Stocks, end of month—												
Total—net tons	191,532	201,609	192,317	208,374	204,702	175,306	167,869	-1.8	+21.9			
Unsold—net tons	73,948	75,771	75,847	81,671	85,585	54,142	48,334	+4.8	+77.1			
Shipments—net tons	241,677	241,441	275,235	291,601	266,436	377,274	392,336	-8.6	-32.1	1,821,335	1,316,390	-27.7
New orders—net tons	382,122	203,315	299,764	300,086	204,589	398,206	279,783	-31.8	-26.9	1,970,172	1,389,876	-29.5
Unfilled orders, end of month—net tons	558,412	517,215	524,230	526,827	461,756	835,801	713,568	-12.4	-33.3			
Wholesale prices:												
Steel billets, Bessemer—dollars per long ton	34.00	33.00	33.00	33.00	32.50	34.80	36.00	-1.5	-9.7			
Iron and steel comp.—dollars per long ton	35.64	35.24	35.01	34.48	33.84	36.81	37.10	-1.9	-8.8			
Structural steel beams—dollars per 100 lbs	1.90	1.80	1.80	1.80	1.80	1.90	1.95	0.0	-7.7			
Composite finished steel—dollars per 100 lbs	2.46	2.43	2.43	2.39	2.35	2.56	2.56	-1.7	-8.2			

* Revised

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930		
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>													
IRON AND STEEL—Continued													
Fabricated Steel Products													
Steel barrels:													
Production..... barrels	650,764	648,709	842,186	769,061	731,087	771,584	836,532	-4.9	-12.6	3,476,171	3,641,807	+4.8	
Ratio to capacity..... per cent	49.2	45.7	58.0	57.4	53.2	64.8	72.0	-7.3	-26.1				
Shipments..... barrels	643,120	643,324	856,451	766,617	736,147	775,481	834,699	-11.8	-3,465,700	3,645,659	+5.2		
Stocks, end of month..... barrels	74,527	79,912	65,647	68,091	63,031	55,103	56,936	-7.4	+10.7				
Unfilled orders, end of month..... barrels	1,696,286	1,592,982	1,897,913	1,691,461	1,454,601	1,269,044	1,215,972	-14.0	+19.6				
Track work, production..... short tons	11,830	11,524	13,096	13,508	12,799	16,815	16,333	-5.2	-21.6	70,599	63,757	-9.7	
Iron, steel, and heavy hardware sales..... rel. to Jan., 1921	160	149	177			226	230						
Lock washers, shipments..... thous. of dolls.	287	295	315	310	290	370	373	-6.5	-22.3	1,703	1,497	-12.1	
Steel plate, fabricated, new orders:													
Total..... short tons	50,076	28,332	38,051	2 37,709	28,678	42,063	2 47,715	-23.9	-39.9	238,895	182,846	-23.5	
Ratio to capacity..... per cent	64	36	48	47	36	53	60	-23.4	-40.0				
Oil storage tanks..... short tons	7,432	7,865	6,593	7,509	9,222	9,984	10,087	+22.8	-8.6	69,170	38,621	-44.2	
Steel bars, cold finished, shipments..... short tons	35,845	37,745	36,487	38,557	33,010	60,486	58,768	-14.4	-43.8	284,643	181,644	-36.2	
Steel boilers, new orders:													
Quantity..... number	942	873	972	1,017	1,280	1,706	1,751	+25.9	-26.9	7,040	5,084	-27.8	
Area..... thous. of sq. ft	1,082	939	1,262	1,070	1,326	1,769	2,145	+23.9	-38.2	7,920	5,679	-28.3	
Iron and steel:													
Exports..... long tons	225,090	197,426	238,333	208,640	196,120	277,580	261,516	-6.0	-25.0	1,344,028	1,065,609	-20.7	
Imports..... long tons	34,710	35,830	49,284	45,358	46,081	43,936	54,445	+1.6	-15.4	229,175	211,263	-7.8	
Machinery													
Water softeners, shipments..... units	1,240	1,141	1,391	1,554	1,279	1,604	1,444	-17.7	-11.4	7,144	6,605	-7.5	
Water systems, shipments..... units	8,307	7,881	8,930	10,104	11,593	11,030	12,348	+14.7	-6.1	47,085	46,815	-0.6	
Pumps:													
Domestic shipments—													
Pitcher, hand, etc..... units	44,389	49,127	42,936	35,986	39,011	44,922	40,915	+8.4	-4.7	232,776	211,449	-9.2	
Power, horizontal type..... units	1,449	1,965	2,362	2,396	2,623	2,341	2,528	+9.7	+4.0	11,707	11,000	-6.0	
Steam, power, and centrifugal—													
New orders..... thous. of dolls.	1,437	1,362	1,465	1,467	1,535	2,175	1,772	+4.6	-13.4	8,952	7,266	-18.8	
Shipments..... thous. of dolls.	1,330	1,410	1,483	1,558	1,641	1,740	1,886	+5.3	-13.0	8,293	7,422	-10.5	
Unfilled orders, end of mo. thous. of dolls.	3,842	3,794	3,825	3,722	3,605	4,343	4,058	-3.1	-11.2				
Foundry equipment:													
New orders..... rel. to 1922-24	160.1	196.4	164.1	122.8	92.7	172.6	177.7	-24.5	-47.8				
Shipments..... rel. to 1922-24	223.6	169.6	194.5	217.4	149.4	220.3	217.0	-31.3	-31.2				
Unfilled orders, end of mo. rel. to 1922-24	395.6	424.7	411.1	291.0	170.3	363.4	323.8	-38.4	-44.6				
Stokers, mechanical, sales:													
Quantity..... number	53	73	* 89	* 108	96	141	174	-11.1	-44.8	609	419	-31.2	
Power..... horsepower	13,198	22,648	* 32,403	* 35,903	31,956	48,749	60,772	-11.0	-47.4	225,899	136,108	-39.7	
Machine tools:													
New orders..... rel. to 1922-24	182	170	181	179	135	320	334	-24.6	-59.6				
Shipments..... rel. to 1922-24	183	214	227	234	197	311	301	-15.8	-34.6				
Unfilled orders, end of mo. rel. to 1922-24	565	541	454	407	355	718	721	-12.8	-50.8				
Electric hoists:													
New orders—													
Quantity..... number	369	387	402	432	337	508	541	-22.0	-37.7	2,927	1,927	-34.2	
Value..... dollars	194,832	184,502	200,167	220,132	179,103	246,673	268,043	-18.6	-33.2	1,400,185	978,736	-30.1	
Shipments..... dollars	220,678	222,107	232,968	206,013	191,685	232,483	262,641	-7.0	-27.0	1,157,539	1,073,451	-7.3	
Electric overhead cranes:													
Shipments..... thous. of dolls.	977	773	1,059	825	880	748	1,122	+6.7	-21.6	4,081	4,514	+10.6	
New orders..... thous. of dolls.	406	832	851	882	596	1,194	1,457	-32.4	-59.1	7,126	3,567	-49.9	
Unfilled orders, end of mo. thous. of dolls.	3,765	3,836	3,525	3,739	3,490	4,587	4,786	-6.7	-27.1				
Woodworking machinery:													
New orders..... thous. of dolls.	1,111	1,120	950	716	779	1,718	2,123	+8.8	-52.0	9,030	4,676	-48.2	
Shipments..... thous. of dolls.	967	934	1,290	1,026	723	2,130	2,198	-29.5	-59.8	8,386	4,940	-41.1	
New orders..... number of machines	759	536	833	603	577	1,420	2,123	-4.3	-53.2	5,831	3,308	-43.3	
Cancellations..... thous. of dolls.	12	64	46	31	11	30	40	-64.5	-72.5	206	164	-20.4	
Unfilled orders, end of mo. thous. of dolls.	1,347	1,488	1,101	763	785	2,582	2,382	+2.9	-67.0				
Electric industrial trucks and tractors:													
Shipments, domestic—													
Total..... number of vehicles	123	106	109	101	125	181	202	+28.8	-38.1	848	564	-33.5	
Exports..... number of vehicles	17	7	14	5	19	13	9	+280.0	+111.1	54	62	+14.8	
Fire-extinguishing equipment, shipments:													
Motor vehicles..... number	91	82	94	92	95	108	118	+3.3	-19.5	499	456	-8.6	
Hand types..... number	43,651	47,096	44,168	* 57,862	57,000	58,696	54,420	-1.5	+4.7	261,403	249,777	-4.4	
Oil burners:													
Shipments, total..... number of burners	3,469	2,954	3,376	3,923	5,901	3,903	4,474	+50.4	+31.9	18,664	19,623	+5.1	
Stocks, end of mo. number of burners	5,445	6,349	6,568	6,386	6,883	5,880	6,097	+7.8	+12.9				
New orders..... number of burners	3,481	3,479	3,182	3,718	7,294	4,596	4,529	+96.2	+61.1	20,344	21,154	+4.0	
Unfilled orders, end of mo. number of burners	931	1,456	1,262	1,057	2,450	2,476	2,531	+131.8	-3.2				
Patents issued:													
Total, all classes..... number	3,163	3,592	3,349	4,645	3,932	4,267	3,861	-15.3	+1.8	18,447	18,681	+1.3	
Agricultural implements..... number	40	38	56	60	49	62	62	-18.3	-21.0	254	243	-4.3	
Internal-combustion engines..... number	42	57	81	73	59	54	50	-19.2	+18.0	253	312	+23.3	
NONFERROUS METALS													
Copper													
Production:													
Mines..... short tons	67,838	59,196	61,216	* 60,450	60,280	94,902	93,392	-0.3	-35.5	453,052	308,980	-31.8	
Smelter..... short tons	84,451	74,094	78,514	76,777	75,936	110,313	108,961	-1.1	-30.3	522,912	389,772	-25.5	
Refined (N. and S. America)..... short tons	132,374	121,195	127,064	124,531	132,183	161,285	161,784	+6.1	-18.3	782,487	637,347	-18.5	
World production, blister..... short tons	154,331	139,629	148,005	* 144,298	147,352	196,820	192,589	+2.1	-23.5	928,074	735,615	-21.0	
Domestic shipments, refined..... short tons	69,932	61,879	73,644	50,017	75,760	99,051	93,743	+51.5	-19.2	497,560	331,232	-33.4	
Exports..... short tons	24,808	24,427	20,034	24,796	40,186	45,842	36,949	+62.1	+8.8	228,955	134,251	-41.4	
Stocks (North and South America), end mo.:													
Refined..... short tons	203,404	233,123	256,020	301,338	308,646	57,494	70,412	+2.4	+33.3				
Blister..... short tons	270,209	264,249	266,561	* 269,623	266,497	253,509	262,229	+1.2	+1.6				
Wholesale price, electrolytic..... dollars per lb.	.1778	.1778	.1778	.1562	.1276	.1950	.1778	-18.3	-28.2				

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>												
NONFERROUS METALS—Continued												
Tin												
Deliveries (consumption).....long tons..	5,815	4,940	8,675	6,780	5,710	8,435	8,480	-15.8	-32.7	40,635	31,920	-21.4
Stocks, end of month:												
World visible supply.....long tons..	29,032	33,581	32,972	36,595	39,771	26,353	24,765	+8.7	+60.6			
United States.....long tons..	3,081	3,626	3,566	5,687	6,767	3,603	3,464	+19.0	+95.4			
Imports.....long tons..	7,079	5,460	8,589	8,209	8,829	8,838	8,902	+7.6	-0.8	41,998	38,166	-9.1
Wholesale price, pig tin.....dolls. per lb..	.3891	.3867	.3681	.3607	.3213	.4597	.4392	-10.9	-26.8			
Zinc												
Retorts in operation, end of month.....number..	2 59,457	2 57,929	2 51,300	2 50,038	2 52,072	2 70,455	2 70,533	+4.1	-26.2			
Production.....short tons..	2 52,026	2 44,645	2 48,136	2 44,450	2 44,578	2 55,203	2 57,475	+0.3	-22.4	265,920	233,835	-12.1
Stocks, end of month.....short tons..	2 86,277	2 88,433	2 93,475	2 97,086	2 102,775	2 36,233	2 35,482	+5.8	+189.7			
Ore, Joplin district:												
Shipments.....short tons..	38,031	35,095	51,611	27,214	52,454	54,821	37,961	+92.7	+38.2	264,613	204,405	-22.8
Stocks, mines, end of month.....short tons..	29,313	25,531	21,950	28,486	20,602	26,448	40,957	-27.7	-49.7			
Price, slab, prime western.....dolls. per lb..	.0523	.0518	.0493	.0484	.0404	.0666	.0662	-4.1	-29.9			
Lead												
Production.....short tons..	48,308	51,362	56,541	2 51,765	53,656	62,476	62,119	+3.7	-13.6	290,754	261,632	-10.0
Ore shipments:												
Joplin district.....short tons..	2,847	3,477	6,770	2,450	5,100	11,615	8,424	+108.2	-39.5	48,394	20,644	-57.3
Utah.....short tons..	87,569	69,489	66,473	64,966	77,372	75,935	96,688	+19.1	-20.0	417,080	365,869	-12.3
Receipts in U. S. ore.....short tons..	47,862	49,009	57,441	49,388		57,449	58,140			3 219,481	3 203,700	-7.2
Stocks, U. S. and Mexico, end mo. ....short tons..	149,403	140,845	144,414			156,888	162,255					
Price, pig, desilverized, N. Y.....dollars. per lb..	.0625	.0624	.0566	.0562		.0719	.0700	+1.7	-21.1			
Other Metal Products												
Babbitt metal, consumption:												
Total apparent.....thous. of lbs..	4,408	3,427	5,052	3,868	3,933	6,046	5,479	+1.7	-28.2	29,804	20,688	-30.6
Direct by producers.....thous. of lbs..	1,003	901	1,012	1,030	707	1,189	1,230	-31.4	-42.5	6,007	4,653	-22.5
Sale to consumers.....thous. of lbs..	3,405	2,526	4,039	2,839	3,225	4,857	4,249	+13.6	-24.1	23,798	16,034	-32.6
Copper wire cloth:												
Production.....thous. of sq. ft..	486	423	421	418	401	509	536	-4.1	-25.2	2,390	2,149	-10.1
Shipments.....thous. of sq. ft..	437	351	395	395	359	441	518	-9.1	-30.7	2,115	1,937	-8.4
Stocks, end of month.....thous. of sq. ft..	1,051	1,099	1,108	1,130	1,145	1,137	1,120	+1.3	+2.2			
New orders.....thous. of sq. ft..	435	423	342	453	378	247	262	-16.6	+44.3	2,467	2,031	-17.7
Unfilled orders, end of mo. ....thous. of sq. ft..	246	303	243	220	232	497	495	+14.5	-49.1			
Make and hold orders, end of month.....thous. of sq. ft..	485	561	564	555	540	689	618	-2.7	-12.6			
Pails and tubs, galvanized:												
Production.....dozens..	145,588	119,739	135,178	131,015	113,645	165,155	176,622	-13.3	-35.7	855,154	645,165	-24.6
Shipments.....dozens..	154,731	129,853	135,602	120,552	107,496	171,722	150,501	-10.8	-28.6	870,297	648,234	-25.5
Other galvanized ware:												
Production.....dozens..	33,982	35,121	37,963	44,058	43,159	55,778	43,370	-2.0	-0.5	250,323	194,283	-22.4
Shipments.....dozens..	29,165	31,536	38,160	44,276	42,237	55,632	38,597	-4.6	+9.4	224,003	185,374	-17.2
Enameled sheet-metal ware:												
Shipments.....dozen pieces..	332,146	331,915	341,372	318,431	290,617	463,577	352,885	-8.7	-17.6	2,084,335	1,614,481	-22.5
Electrical Equipment												
Electrical porcelain, shipments:												
Standard.....dollars..	135,413	87,952	69,511	69,308	80,368	109,558	110,326	+16.0	-27.2	569,212	442,552	-22.3
Special.....dollars..	127,830	116,754	136,901	127,295	111,941	148,280	159,785	-12.1	-29.9	766,297	620,721	-19.0
Glazed nail knobs.....thous. of pieces..	4,454	2,701	3,146	2,930	3,292	3,821	4,100	+12.4	-20.9	19,778	16,523	-16.5
Unglazed nail knobs.....thous. of pieces..	2,309	1,863	1,232	1,400	2,211	2,458	3,202	+57.9	-30.9	13,245	9,015	-31.9
Tubes.....thous. of pieces..	1,627	1,291	1,093	928	1,266	1,345	2,025	+36.4	-37.5	8,129	6,205	-33.7
Laminated phenolic products, shipments:												
Shipments.....dollars..	819,629	773,205	959,513	910,651	868,399	1,409,532	1,477,523	-4.6	-41.2	6,806,890	4,331,397	-36.4
Motors (direct current):												
New orders.....dollars..	910,301	878,612	942,556	931,828	633,088	1,258,364	854,349	-32.1	-25.9	4,804,647	4,296,379	-10.6
Billings (shipments).....dollars..	800,654	755,074	833,183	875,083	776,081	922,220	1,038,218	-11.3	-25.2	4,168,434	4,040,075	-3.1
Power switching equipment, new orders:												
Indoor.....dollars..	159,869	135,513	155,095	191,277	128,303	200,564	246,171	-32.9	-47.9	892,689	770,057	-13.7
Outdoor.....dollars..	464,069	346,035	465,117	576,943	448,802	400,397	460,749	-22.2	-2.6	2,078,752	2,300,966	+10.7
Outlet boxes and covers, shipments....pieces..	2,448,375	1,921,846	1,949,055	2,217,558	1,512,111	3,065,179	2,931,583	-31.8	-48.4	14,087,639	10,048,945	-28.6
Vulcanized fiber:												
Shipments, total.....thous. of dolls..	723	613	614	622	517	812	827	-16.9	-37.5	3,993	3,089	-22.6
Consumption.....thous. of lbs..	2,770	2,492	2,405	2,759	2,144	3,144	3,693	-22.3	-41.9	16,348	12,570	-23.1
Industrial reflectors, sales.....units..	130,369	106,021	108,210	107,040	109,977	126,948	153,716	+2.7	-28.5	701,752	561,617	-20.0
Welding sets, new orders:												
Single operator.....units..	256	280	251	261	274	371	387	+5.0	-29.2	1,810	1,322	-27.0
Multiple operator.....units..	1	5	5	9	1	7	8	-8.9	-87.5	37	21	-43.2
Nonmetallic conduits, shipments.....thous. of ft..	6,110	4,383	8,505	7,660		6,829	8,242			3 25,749	3 266,58	+3.5
Electric furnaces, new orders.....kilowatts..	8,030	4,015	2,620	12,458		14,542	6,562			3 44,621	3 27,723	-37.9
Manufactured mica:												
Shipments.....thous. of dolls..	227	206	199	241	195	292	303	-19.1	-35.6	1,504	1,068	-29.0
Unfilled orders, end of mo. ....thous. of dolls..	219	230	196	178	166	332	302	-6.7	-45.0			
Delinquent accounts, electrical trade:												
Amount.....dollars..	240,428	233,176	223,048	203,572	215,001	199,949	180,067	+5.6	+13.7			
Delinquent firms.....number..	1,486	1,465	1,526	1,493	1,449	1,279	1,285	-2.9	+12.8			
AUTOMOBILES												
Production:												
United States—												
Total.....number of cars..	2 275,374	2 346,940	2 401,313	2 442,835	417,154	621,910	604,691	-5.8	-31.0	2,679,511	1,883,616	-29.7
Passenger cars.....number of cars..	2 236,145	2 296,461	2 335,720	2 374,710	362,270	535,878	514,863	-3.3	-29.6	2,311,926	1,605,306	-30.6
Taxis.....number of cars..	572	1,022	1,389	565	514	1,686	1,318	-9.0	-61.0	9,255	4,062	-56.1
Trucks.....number of cars..	2 38,657	2 49,457	64,204	2 67,560	54,370	84,346	88,510	-19.5	-38.6	358,330	274,248	-23.5
Canada—												
Total.....number of cars..	10,388	15,548	20,730	24,257	24,672	41,901	31,559	+1.7	-21.8	166,869	95,595	-42.7
Passenger cars.....number of cars..	8,856	13,021	17,165	20,872	21,251	34,392	25,129	+1.8	-15.4	135,102	81,165	-39.9
Trucks.....number of cars..	1,532	2,527	3,565	3,385	3,421	7,509	6,430	+1.1	-46.8	31,767	14,430	-54.6

* Revised.

* Cumulative through Apr. 30

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
AUTOMOBILES—Continued												
Exports (assembled):												
From United States—												
Total.....number of cars..	28,169	25,482	31,090	35,238	26,542	64,437	39,913	-24.7	-33.5	273,455	146,521	-46.4
Passenger cars.....number of cars..	15,293	18,732	22,129	23,777	16,876	47,732	28,417	-29.0	-40.6	187,537	96,807	-48.4
Trucks.....number of cars..	12,876	6,750	8,961	11,461	9,666	16,705	11,496	-15.7	-15.9	85,918	49,714	-42.1
From Canada—												
Total.....number of cars..	2,953	4,237	6,308	3,272	3,024	6,586	9,561	-7.6	-68.4	51,495	19,794	-61.6
Passenger cars.....number of cars..	1,317	2,498	5,029	2,304	2,131	4,164	5,727	-7.5	-62.8	33,419	13,279	-60.3
Trucks.....number of cars..	1,636	1,739	1,279	968	893	2,422	3,834	-7.7	-76.7	18,076	6,515	-64.0
Sales (General Motors Co.):												
Total to dealers, incl. Canadian and overseas.....number of cars..	106,509	126,196	135,930	150,661	147,483	227,718	220,277	-2.1	-33.0	971,114	666,779	-31.3
To consumers, U. S. ....number of cars..	74,167	88,742	123,781	142,004	131,817	173,201	169,034	-7.2	-22.0	693,314	560,511	-19.2
To dealers, U. S. ....number of cars..	94,458	110,904	118,081	132,365	136,169	176,634	175,873	+2.9	-22.6	765,680	591,977	-22.7
Accessories and parts, shipments:												
Original equipment.....rel. to Jan., 1925..	135	141	167	175	153	287	278	-12.6	-45.0			
Replacement parts.....rel. to Jan., 1925..	137	131	139	150	137	174	169	-8.7	-18.9			
Accessories.....rel. to Jan., 1925..	79	66	67	74	78	91	91	+5.4	+14.3			
Service parts.....rel. to Jan., 1925..	135	151	175	180	165	227	200	-8.3	-17.5			
Rim production.....thous. of rims..	1,601	1,653	2,062	2,340	2,010	2,730	2,575	-14.1	-21.9	12,018	9,666	-19.6
New passenger-car registrations:												
Total.....number of cars..	180,094	211,645	298,904	357,064	345,031	2,481,675	2,454,132	-3.4	-24.0	1,768,959	1,392,738	-21.3
FUELS												
Coal and Coke												
Bituminous:												
Production—												
United States.....thous. of short tons..	49,778	39,555	35,773	35,860	35,954	37,380	240,706	+0.3	-11.7	217,312	196,920	-9.4
Canada.....thous. of short tons..	1,630	1,185	1,130	907	1,388	1,393	1,388	-	-	3,591	3,4852	-17.9
Exports.....thous. of long tons..	953	835	726	858	1,488	851	1,402	+73.4	+6.1	5,047	4,860	-3.7
Consumption—												
By vessels.....thous. of long tons..	283	263	278	292	278	361	338	-4.8	-17.8	1,533	1,394	-9.1
By electric power plants.....thous. of short tons..	4,006	3,418	3,441	3,233	-----	3,415	3,370	-	-	3,18,220	3,14,098	-22.6
By railroads.....thous. of short tons..	8,210	7,117	7,376	6,804	-----	7,393	7,630	-	-	3,32,461	3,29,507	-9.1
By coke plants—												
United States.....thous. of short tons..	6,588	6,248	6,841	6,645	6,572	7,156	7,658	-1.1	-14.2	35,914	32,894	-8.4
Canada.....thous. of short tons..	312	281	309	295	-----	306	318	-	-	3,1,200	3,1,197	-0.3
Prices—												
Mine aver. (spot)....dolls. per short ton..	1.86	1.79	1.74	2.1.71	1.66	1.69	1.68	-2.9	-1.2			
Wholesale, comp....dolls. per short ton..	3.982	3.951	3.911	3.901	3.902	3.912	3.908	-3.5	-0.2			
Retail, composite....dolls. per short ton..	9.11	9.04	9.32	8.84	8.53	8.76	8.52	-3.4	+0.1			
Anthracite:												
Production.....thous. of short tons..	7,038	6,157	4,551	4,916	5,947	6,441	6,308	+21.0	-5.7	31,800	28,609	-10.0
Exports.....thous. of long tons..	271	262	149	123	186	160	246	+51.2	-24.4	1,129	991	-12.2
Prices—												
Wholesale, comp....dolls. per long ton..	13.033	13.033	13.033	12.887	12.474	12.654	12.539	-3.2	-0.5			
Retail, composite....dolls. per short ton..	15.00	15.00	15.00	14.99	14.33	14.71	14.40	-4.4	-0.5			
Coke:												
Production, U. S.—												
Beehive.....thous. of short tons..	309	281	291	302	241	468	597	-20.2	-59.6	2,518	1,424	-43.4
By-product.....thous. of short tons..	4,196	4,004	4,394	4,246	4,266	4,457	4,664	+0.5	-8.5	22,184	21,106	-4.9
Production, Canada.....thous. of short tons..	225	204	224	213	-----	220	231	-	-	3,871	3,866	-0.6
Exports.....thous. of long tons..	101	75	58	73	78	60	83	+6.8	-6.0	410	385	-6.1
Price, furnace, Connellsburg.....dollars. per short ton..	2.59	2.60	2.60	2.60	2.53	2.81	2.80	-2.7	-9.6			
Petroleum												
Crude petroleum:												
Production.....thous. of bbls..	70,453	74,427	77,384	77,175	80,176	80,110	84,415	+3.9	-5.0	404,712	388,615	-4.0
Stocks at end of month—												
Total (comparable).....thous. of bbls..	379,826	381,306	380,007	379,875	378,919	380,706	379,089	-0.3	0.0			
Tank farms and pipe lines.....thous. of bbls..	335,318	335,728	334,082	332,487	331,429	332,691	330,984	-0.3	+0.1			
Refineries.....thous. of bbls..	44,508	45,578	45,925	47,388	47,496	48,815	48,558	+0.2	-2.2			
California:												
Light.....thous. of bbls..	41,868	44,241	44,710	44,166	42,912	27,774	29,934	-2.8	+43.4			
Heavy.....thous. of bbls..	107,123	107,739	107,414	105,636	105,560	101,128	102,177	-	+3.3			
Imports.....thous. of bbls..	5,450	4,321	4,827	5,781	4,984	7,828	7,452	-13.8	-34.0	37,261	25,363	-31.9
Consumption (run to stills).....thous. of bbls..	80,163	72,414	80,253	80,434	83,647	80,459	84,420	+4.0	-0.1			
Refinery operations.....per ct. of capacity..	71	71	71	73	73	80	81	-0.0	-9.9			
Price, Kansas-Oklahoma.....dollars. per bbl..	1.229	1.181	1.110	1.163	1.178	1.110	1.158	+1.3	+1.7			
Oil wells completed.....number..	1,060	969	1,090	1,151	1,233	1,163	1,200	+7.1	+2.8	5,645	5,503	-2.5
Mexico—												
Production.....thous. of bbls..	3,719	3,271	3,491	3,319	-----	3,504	3,635	-	-	13,675	13,800	-0.9
Exports.....thous. of bbls..	1,517	1,648	2,085	1,902	-----	2,150	2,923	-	-	3,7,422	3,7,152	-3.6
Venezuela—												
Production.....thous. of bbls..	11,518	10,898	11,920	10,724	10,918	11,351	12,038	+1.8	-9.3	55,930	55,979	+0.1
Exports.....thous. of bbls..	10,781	10,266	10,821	11,018	11,133	9,661	10,275	+1.0	+8.4	48,388	54,019	+11.6
Gasoline:												
Production—												
Raw (at refineries).....thous. of bbls..	36,654	33,949	37,727	38,157	39,293	34,636	36,270	+3.0	+8.3	171,334	185,780	+8.4
Natural gas (at plants).....thous. of bbls..	4,410	4,248	4,576	4,429	4,507	4,264	4,343	+1.8	+3.8	20,650	22,170	+7.4
Exports.....thous. of bbls..	5,291	4,809	5,735	5,662	4,864	4,518	5,217	-14.1	-6.8	22,647	26,361	+16.4
Consumption.....thous. of bbls..	25,731	26,509	31,029	34,549	36,497	32,019	34,117	+5.6	+7.0	139,334	153,955	+10.5
Stocks, end of month—												
Raw (at refineries).....thous. of bbls..	49,676	53,229	55,239	54,435	54,046	47,039	44,648	-0.1	+21.0			
Natural gas (at plants).....thous. of bbls..	611	672	673	709	702	1,166	1,391	+29.8	-33.9			
Prices—												
Wholesale, New York....dollars. per gal..	.165	.158	.143	.151	.163	.170	.190	+7.9	-14.2			
Retail wagon, 50 cities....dollars. per gal..	.154	.145	.143	.153	.153	.150	.157	-	-2.6			

* Revised.

* Cumulative through April 30.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>												
FUELS—Continued												
Petroleum—Continued												
Kerosene:												
Production—thous. of bbls.	4,489	4,398	4,752	4,435	4,317	4,434	4,902	-2.7	-11.9	22,986	22,391	-2.6
Exports—thous. of bbls.	1,938	1,198	1,730	1,529	816	1,620	1,454	-46.6	-43.9	8,424	7,211	-14.4
Consumption—thous. of bbls.	2,997	3,205	3,118	3,240	3,181	3,156	3,200	-1.8	-1.0	15,807	15,741	-0.4
Stocks at refineries, end mo. thous. of bbls.	8,571	8,565	8,455	8,068	8,384	7,497	7,742	+3.9	+8.3			
Price, 150° water white—dollars per gal.	.064	.062	.063	.063	.060	.084	.080	-4.8	-25.0			
Gas and fuel oils:												
Production—thous. of bbls.	33,213	31,185	32,111	32,236	33,961	37,533	38,570	+5.4	-12.0	184,728	162,706	-11.9
Consumption—												
By vessels—thous. of bbls.	4,223	4,065	4,077	4,224	4,657	4,179	4,704	+10.0	-1.0	21,233	21,256	+0.1
By electric pow. plants—thous. of bbls.	1,095	706	633	588	647	600						
By railroads—thous. of bbls.	4,556	4,065	4,328	4,025	4,242	4,259						
Stocks at refineries, end mo. thous. of bbls.	35,873	34,280	32,998	33,650	36,664	33,404	35,636	+9.0	-2.9			
Price, Okla. 24-26, refineries—dollars per gal.	.950	.913	.805	.788	.744	.665	.631	-5.6	+17.9			
Lubricating oil:												
Production—thous. of bbls.	2,880	2,727	3,120	3,193	3,185	2,899	3,005	-0.3	+6.0	14,295	15,105	+5.7
Consumption—thous. of bbls.	1,288	1,525	2,122	2,116	2,394	2,442	2,322	+13.1	+3.1	9,617	9,445	-1.8
Stocks at refineries, end mo. thous. of bbls.	8,956	9,289	9,561	9,649	8,527	8,370						
Price, cylinder oil—dollars per gal.	.351	.345	.345	.343	.340	.405	.363	-0.9	-16.0			
Asphalt:												
Production—thous. of short tons.	191	181	210	273	337	283	315	+23.4	+7.0	1,222	1,192	-2.5
Stocks, end of month—thous. of short tons.	244	261	288	298	317	249	236	+8.2	+34.3	35	20	-42.7
Imports—thous. of short tons.	5	3	7	1	4	6	4	+300.0				
Coke:												
Production—thous. of short tons.	146	140	161	151	170	131	142	+12.6	+19.7	667	768	+15.1
Stocks, end of month—thous. of short tons.	741	756	786	817	786	445	471	-3.8	+66.9			
Wax:												
Production—thous. of lbs.	52,360	50,960	61,320	54,040	45,920	57,976	53,783	+15.0	-14.6	277,043	264,600	-4.5
Stocks, end of month—thous. of lbs.	206,249	213,487	232,241	241,853	248,524	170,687	179,139	+2.8	-38.7			
RUBBER												
Crude Rubber												
World shipments, plantation—long tons.	77,291	74,909	70,347	63,127		73,547	66,345			* 298,679	* 285,674	-4.4
Imports (including latex)—long tons.	47,904	42,998	45,254	45,648	42,994	55,730	51,186	-5.8	-16.0	279,398	224,798	-19.6
Consumption by tire mfrs.—thous. of lbs.	42,108	40,379	43,911			65,673	66,028					
World stocks, end of month:												
World total—long tons.	334,800	358,095	373,097	378,048		266,379	252,867					
United States—long tons.	120,649	131,748	141,843	148,272	146,179	107,659	97,192	-1.4	+50.4			
Europe—long tons.	82,417	87,321	93,232	100,725	104,880	36,789	37,143	+4.1	+182.4			
Producing countries—long tons.	36,915	41,095	41,725	43,176		30,731	35,242					
Afloat—long tons.	94,828	97,931	* 96,297	85,875		91,200	83,290					
Wholesale price, smoked sheets, New York—dollars per pound.	.150	.158	.153	.150	.142	.211	.214	-5.3	-33.6			
Tires and Tubes												
Pneumatic tires:												
Production—thousands.	3,589	3,645	3,891	4,518	* 4,574	5,913	6,109	+1.2	-25.1	27,887	20,217	-27.5
Stocks, end of month—thousands.	9,539	9,929	10,010	10,461	* 10,745	12,697	13,386	+2.7	-19.7	50,605	50,684	+0.2
Shipments—												
Domestic—thousands.	3,348	3,150	3,587	3,886	* 3,960	5,242	5,185	+1.9	-23.3	1,120	969	-13.5
Export—thousands.	178	206	186	186	* 213	229	204	+14.4	+4.4			
Inner tubes:												
Production—thousands.	3,685	3,707	3,953	4,408	* 4,429	5,726	5,745	-0.5	-23.8	27,036	20,182	-25.3
Stocks, end of month—thousands.	10,163	10,429	10,543	11,028	* 11,082	13,601	14,196	-0.5	-22.8			
Shipments—												
Domestic—thousands.	3,778	3,344	3,682	3,769	* 3,940	5,220	5,146	+4.5	-23.9	24,341	18,513	-24.1
Export—thousands.	107	126	99	109	119	153	133	+9.2	-10.5	753	560	-26.6
Solid and cushion:												
Production—thousands.	25	22	19	17	17	39	40	0.0	-57.5	177	100	-43.5
Stocks, end of month—thousands.	127	128	123	117	* 108	169	135	-7.7	-20.0			
Shipments—												
Domestic—thousands.	20	19	22	23	23	30	40	0.0	-42.5	179	107	-40.2
Exports—thousands.	2	2	2	2	1	3	3	-50.0	-66.7	12	9	-25.0
Other Rubber Products												
Rubber-proofed fabrics, production:												
Total—thous. of yds.	3,281	3,441	3,570	4,029	3,775	4,000	4,860	-6.3	-22.3	18,668	18,096	-3.1
Auto fabrics—thous. of yds.	966	885	727	1,368	1,239	917	919	-9.4	+34.8	4,211	5,185	+23.1
All other—thous. of yds.	1,076	1,081	1,211	1,071	1,333	1,194	1,554	+24.5	-14.2	8,113	7,269	-10.4
Raincoat fabrics—thous. of yds.	1,239	1,475	1,632	1,590	1,205	1,889	2,387	-24.2	-49.5	6,344	5,644	-11.0
Rubber heels:												
Production—thous. of pairs.	15,470	14,172	15,439	17,762	15,603	17,256	19,541	-12.2	-20.2	92,977	78,446	-15.6
Shipments—												
To shoe manufacturers—thous. of pairs.	10,989	8,837	8,458	9,201	7,431	11,028	12,552	-19.2	-40.8	55,441	44,916	-19.0
To repair trade—thous. of pairs.	5,106	6,511	7,189	4,641	5,221	6,506	7,604	+12.5	-31.3	35,581	28,668	-19.4
For export—thous. of pairs.	1,049	1,031	956	1,096	776	1,072	1,054	-29.2	-26.4	5,836	4,908	-15.9
Stocks, end of month—thous. of pairs.	40,528	38,250	36,546	37,618	38,595	47,209	44,969	+2.6	-14.2			
Rubber soles:												
Production—thous. of pairs.	3,496	2,338	2,582	2,593	1,939	2,601	2,916	-25.2	-33.5	15,008	12,948	-13.7
Shipments—												
To shoe manufacturers—thous. of pairs.	3,261	1,973	2,055	1,956	1,506	1,967	2,361	-23.0	-36.2	11,341	10,751	-5.2
To repair trade—thous. of pairs.	491	392	407	380	332	623	635	-12.6	-47.7	3,579	2,002	-44.1
For export—thous. of pairs.	138	56	54	28	27	23	32	-3.6	-15.6	269	303	+12.6
Stocks, end of month—thous. of pairs.	3,227	3,171	3,349	3,272	3,019	4,184	3,997	-7.7	-24.5			
Mechanical rubber goods: shipments:												
Total—thous. of dolls.	5,169	5,376	5,981	5,989	6,163	7,035	7,188	+2.9	-14.3	33,404	28,678	-14.2
Belting—thous. of dolls.	1,150	1,281	1,379	1,309	1,310	1,668	1,798	+0.1	-27.2	7,730	6,429	-16.8
Hose—thous. of dolls.	2,034	2,190	2,500	2,593	2,703	2,730	2,643	+4.2	+2.3	12,755	12,020	-5.8
All other—thous. of dolls.	1,984	1,905	2,101	2,087	2,150	2,636	2,748	+3.0	-21.8	12,921	10,227	-20.9
Rubber bands, shipments—thous. of lbs.	226	230	248	197	211	231	205	+7.1	+2.9	1,183	1,112	-6.0
Rubber flooring, shipments—thous. of sq. ft.	459	530	533	570	615	596	733	+7.9	-16.1	2,782	2,707	-2.7
Calendered rubber clothing:												
Production—no. coats and sundries.	56,949	64,934	78,858	88,471	75,719	91,193	100,706	-12.4	-24.8	387,594	362,931	-6.4
Net orders—no. coats and sundries.	31,638	39,568	97,612	89,862	110,520	102,490	78,972	+13.2	+39.9	276,152	369,200	+33.7

* Revised.

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929											
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929													
								1929		1930	1930												
HIDES AND LEATHER																							
Hides																							
Imports:																							
Total hides and skins.....thous. of lbs.	39,094	35,116	40,097	50,966	54,900	39,505	38,643	+7.7	+42.1	182,809	220,173	+20.4											
Calfskins.....thous. of lbs.	2,953	2,318	2,408	2,815	5,720	3,379	5,096	+103.2	+12.2	14,496	16,214	+11.9											
Cattle hides.....thous. of lbs.	19,145	18,885	21,169	31,007	26,839	16,155	14,122	-13.5	+90.1	84,089	117,045	+39.2											
Goatskins.....thous. of lbs.	6,728	6,087	9,670	7,827	12,271	10,869	9,882	+56.8	+24.2	43,271	42,583	-1.6											
Sheepskins.....thous. of lbs.	5,473	3,715	2,971	6,186	6,284	6,406	6,301	+1.6	-0.3	26,444	24,629	-6.9											
Stocks, end of month:																							
Total hides and skins.....thous. of lbs.	269,925	265,248	268,158	270,286	269,523	246,359	246,330	-0.3	+9.4	1,245,318	1,343,140	+7.9											
Cattle hides.....thous. of lbs.	221,718	216,251	218,530	223,025	201,176	206,248	201,176	+2.1	+10.9	1,041,405	1,097,832	+5.4											
Calf and kip skins.....thous. of lbs.	25,480	25,626	25,478	25,538	18,006	22,058	26,068	-29.5	-30.9	113,622	120,488	+6.0											
Sheep and lamb skins.....thous. of lbs.	22,727	23,371	24,372	26,218	28,492	18,053	19,086	+8.8	+49.3	90,291	125,180	+38.6											
Prices:																							
Green salted, packers' heavy																							
native steers.....dolls. per lb.	.163	.148	.142	.140	.143	.149	.149	+2.1	-4.0														
Calfskins, country, No. 1.....dolls. per lb.	.176	.164	.156	.159	.169	.183	.179	+6.3	-5.6														
Inspected slaughter of livestock:																							
United States—																							
Cattle.....thous. of animals	713	561	615	635	690	662	676	+8.7	+2.1	3,275	3,214	-1.9											
Calves.....thous. of animals	374	329	388	455	421	460	427	-7.5	-1.4	1,976	1,967	-0.5											
Swine.....thous. of animals	5,061	4,034	3,392	3,480	3,823	3,761	3,798	+9.9	+1.0	21,420	19,730	-7.9											
Sheep.....thous. of animals	1,225	1,187	1,358	1,387	1,199	1,202	-1.2	+14.0	5,430	6,527	+20.2												
Canada—																							
Cattle and calves.....thous. of animals	68	57	74	100	108	105	110	+8.0	-1.8	417	407	-2.4											
Swine.....thous. of animals	207	168	168	162	174	208	187	+7.4	-7.0	1,067	879	-17.6											
Sheep.....thous. of animals	31	20	24	27	23	19	17	+14.8	+35.3	113	125	+10.6											
Leather																							
Sole and belting leather:																							
Production—																							
Sole only.....thous. of backs, bends, sides	1,359	1,239	1,293	2 1,332	1,344	1,185	1,144	+1.0	+17.5	5,855	6,567	+12.2											
Sole and belting.....thous. of lbs.	25,444	23,552	24,551	24,854	24,355	23,119	22,879	-2.0	+6.5	113,069	122,756	+8.6											
Stocks, end of month—																							
In process of tanning.....thous. of lbs.	84,624	84,709	84,300	85,760	85,495	79,487	80,606	-0.3	+6.1	396,213	424,888	+7.2											
Finished.....thous. of lbs.	65,846	67,452	69,876	69,805	72,724	76,444	72,070	+4.2	+1.0	390,305	345,703	-11.4											
Exports.....thous. of sq. ft.	757	430	579	450	669	1,080	1,149	+48.7	-41.8	5,348	2,885	-46.1											
Price oak, scoured backs.....dolls. per lb.	.50	.49	.49	.47	.46	.49	.49	-21.	-6.1														
Upper leather:																							
Production.....thous. of sq. ft.	68,296	63,220	68,997	63,021	60,699	65,152	63,653	-3.7	-4.7	324,315	324,239	-0.03											
Stocks, end of month—																							
In process of tanning.....thous. of sq. ft.	146,077	144,022	139,865	138,975	141,190	130,430	134,079	+1.6	+5.3	673,093	710,129	+5.5											
Finished.....thous. of sq. ft.	246,185	249,806	256,867	256,155	255,738	246,992	241,783	-0.2	+5.8	1,237,355	1,264,751	+2.2											
Exports.....thous. of lbs.	8,763	8,320	10,375	8,684	11,481	10,818	10,208	+32.2	+12.5	53,379	47,623	-10.8											
Chrome, calf, black "B" grade.....cents. dolls. per sq. ft.	.385	.380	.379	.372	.371	.397	.393	-3.	-5.6														
Leather Products																							
Shoes:																							
Production.....thous. of pairs	26,534	25,898	28,625	28,878	21,798	29,382	29,159	-24.5	-25.3	144,394	131,733	-8.8											
Exports.....thous. of pairs	290	189	293	275	302	372	333	+9.8	-9.3	1,930	1,349	-30.1											
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	265,407	280,143	264,372	251,140	240,495	258,301	263,933	+4.2	+8.9	1,233,867	1,301,557	+5.5											
PAPER AND PRINTING																							
Wood Pulp																							
Groundwood:																							
Production.....short tons	142,617	136,898	163,392	2 158,709	162,433	162,042	136,375	+2.3	-2.4	752,000	764,049	+1.6											
Consumption and shipments.....short tons	144,498	131,389	135,389	2 132,728	135,928	142,920	148,251	+2.4	-8.3	697,854	679,832	-2.6											
Stocks, end of month.....short tons	65,706	71,215	22,102	2 123,002	147,596	160,875	178,963	+20.0	-17.5														
Imports.....short tons	28,423	39,105	27,323	20,644	17,432	23,314	21,044	+15.6	+17.2	100,899	132,933	+31.7											
Sulphite, unbleached:																							
Production.....short tons	21,550	20,604	21,638	22,090	21,200	20,278	20,256	-4.0	+4.7	99,328	107,082	+7.8											
Consumption and shipments.....short tons	22,114	20,440	22,160	21,382	20,488	20,522	20,678	-4.2	+1.0	100,722	106,584	+5.8											
Stocks, end of month.....short tons	3,886	4,050	3,528	4,236	2,948	3,138	2,716	+30.4	+8.5														
Imports.....short tons	97,570	85,183	45,624	41,621	47,042	48,898	50,116	+13.0	-6.1	262,038	317,020	+21.											
Sulphite:																							
Bleached—																							
Production.....short tons	58,884	51,220	57,088	2 54,122	52,738	54,308	54,432	+2.6	-3.1	264,956	274,052	+3.4											
Consum., and ship.....short tons	58,252	52,174	56,620	2 53,672	52,652	54,092	54,144	+1.9	-2.8	264,928	273,370	+3.2											
Stocks, end of month.....short tons	6,942	5,968	6,436	2 6,886	6,972	5,318	5,606	+1.2	+24.4														
Imports.....short tons	29,593	35,999	32,545	30,153	25,548	28,064	31,881	+15.3	+19.9	138,222	153,688	+11.3											
Total sulphite—																							
Production.....short tons	157,476	146,474	156,194	2 146,790	146,280	151,374	154,890	-0.3	-5.6	753,228	753,214	0.0											
Consum., and ship.....short tons	158,620	146,978	153,332	2 144,104	146,014	153,386	155,774	+1.3	-6.3	757,320	749,048	-1.0											
Stocks, end of month.....short tons	23,322	22,818	25,680	2 28,366	28,632	23,886	23,004	+0.9	+24.5														
Sulphate:																							
Production.....short tons	40,276	41,564	44,100	2 46,790	46,134	44,136	45,284	+1.4	+1.9	214,158	218,864	+2.2											
Consum. and shipments.....short tons	40,556	41,164	41,822	2 44,122	43,504	44,392	46,434	+1.4	+6.3	217,630	211,168	-3.0											
Stocks, end of month.....short tons	8,020	8,830	10,666	10,484	10,296	5,542	4,744	+1.8	+117.0														
Soda:																							
Production.....short tons	39,378	35,008	38,158	37,814	38,532	38,150	41,126	+1.9	-6.3	189,406	188,890	-0.3											
Consum. and shipments.....short tons	38,132	31,992	34,872	34,976	35,676	36,740	40,084	+2.0	-11.0	185,304	175,648	-5.2											
Stocks, end of month.....short tons	5,438	5,710	6,006	5,838	5,652	6,686	6,272	+3.2	-9.9														
Other grades:																							
Production.....short tons	96	132	126	110	188	84		+70.9		306	652	+113.1											
Consum. and shipments.....short tons	134	82	118	152	168	120		+10.8		312	654	+109.6											
Stocks, end of month.....short tons	6	66	64	22	42	40	96	+90.9	+56.3														
Total (all grades):																							
Production.....short tons	237,226	223,178	238,578	2 231,504	231,134	233,744	241,300	-0.2	-4.2	1,157,098	1,161,620	+0.4</td											

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)	CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May		May, 1930, from April, 1930	May, 1930, from May, 1929	
PAPER AND PRINTING—Continued											
Newsprint Paper											
Production:											
United States, total	124,851	112,394	113,328	109,967	118,093	118,679	123,504	+7.4	-4.4	584,235	578,633
Ratio to capacity	86	83				82	82	+2.6	-2.4		
Canada	206,205	189,154	207,485	228,048	237,681	221,784	245,644	+4.2	-3.2	1,024,966	1,068,573
Consumption by publishers	176,172	171,889	187,594	199,485	248,638	189,986	200,826	+24.6	+23.8	943,900	983,778
Shipments:											
United States	124,262	110,714	109,686	109,346	114,702	121,548	124,840	+4.9	-8.1	595,029	568,710
Canada	202,008	178,091	208,629	221,050	239,034	220,270	247,449	+8.1	-3.4	982,883	1,049,412
Imports	198,620	154,138	187,513	186,025	207,605	178,076	206,036	+11.6	+0.8	929,319	933,901
Exports, Canada	199,773	163,204	225,252	159,802	225,251	162,381	214,342	+41.0	+5.1	990,406	973,282
Stocks, end of month:											
At mills:											
United States	18,778	20,552	24,004	24,546	27,924	27,102	25,778	+13.8	+8.3		
Canada	29,154	39,598	38,661	45,948	44,409	25,741	23,893	-3.3	+85.9		
At publishers	231,879	224,155	210,054	197,621	199,663	166,089	154,948	+1.0	+28.9		
In transit to publishers	48,925	47,174	42,915	44,690	46,702	46,724	51,425	+4.3	-9.2		
Box Board											
Operation	8,623	7,774	8,144			9,279					
Operation	75.5	73.8	71.3			81.3					
Production	228,314	230,287	229,253			251,147					
New orders	245,390	217,291	220,543			250,366					
Unfilled orders, end of month	76,975	71,741	66,870			98,162					
Consumption of waste paper	224,197	215,757	218,340			231,089					
Shipments	227,854	224,179	225,839			247,773					
Stocks, end of month	64,242	69,880	68,333			57,881					
Stocks of waste paper, end of month:											
On hand	190,879	190,687	171,361			142,666					
In transit and unshipped purchases	59,742	59,384	54,029			68,005					
Other Paper											
Binder's board, production	2,261	2,054	1,898			2,994	2,491				
Book paper:											
Production	148,672	133,805				138,024	138,024				
Ratio to capacity	103	100	100	101	93	95	92	-7.9	+1.1		
Shipments	144,212	132,333	131,672			139,404	137,034				
Stocks, end of month	91,103	92,925	99,430			71,399	74,255				
New orders—											
Coated p. ct. of normal production	87	90	93	89	67	89	86	-24.7	-22.1	454	426
Uncoated p. ct. of normal production	87	87	83	86	73	84	80	-15.1	-8.7	430	416
Unfilled orders, end of month—											
Coated p. ct. of normal production	11	11	10	11	10	10	10	-9.1	-9.1		
Uncoated p. ct. of normal production	7	8	8	7	6	10	9	-14.3	-33.3		
Wrapping paper:											
Production	84,693	77,226	88,639	86,561	85,346	91,286	94,302	-1.4	-9.5	466,020	422,465
Ratio to capacity	79	78	79	88	86	85	85	-2.3	+1.2		
Shipments	86,133	78,771	88,550	87,080	84,322	91,377	92,227	-3.2	-8.6	467,292	424,856
Stocks, end of month	82,616	81,074	81,128	80,421	81,414	86,075	87,733	+1.2	-7.2		
Fine paper:											
Production	41,234	39,170	42,560	241,133	38,688	41,819	41,660	-5.9	-7.1	200,844	202,785
Ratio to capacity	92	95	91	87	79	94	90	-9.2	-12.2		
Shipments	42,099	38,347	40,006	238,088	38,080	40,504	42,368	-0.2	-10.2	206,127	196,570
Stocks, end of month	54,573	55,385	57,930	258,337	60,226	50,213	49,488	+3.2	+21.7		
All other grades:											
Production	98,057	95,950	90,489	296,160	91,755	104,506	111,182	-4.6	-17.5	526,537	472,411
Shipments	95,211	102,526	87,437	292,072	92,289	102,278	107,735	+0.2	-14.3	519,183	469,535
Stocks, end of month	63,546	59,728	62,771	266,558	66,323	55,436	58,932	-0.8	+12.5		
Paperboard Shipping Boxes											
Operating activity:											
Total	74	77	77	75	74	82	82	-1.3	-9.8		
Corrugated	75	78	80	78	76	83	83	-2.6	-8.4		
Solid fiber	72	75	69	65	68	79	79	+4.6	-13.9		
Production:											
Total	468,548	508,222	500,061	502,462	483,965	492,272	490,117	-3.7	-1.3	2,438,346	2,463,258
Corrugated	369,950	404,516	414,746	410,812	390,884	387,596	386,241	-4.9	+1.2	1,907,826	1,990,908
Solid fiber	98,598	103,706	85,315	91,650	93,081	104,676	103,876	+1.6	-10.4	530,520	472,350
Rope paper sacks, shipments rel. to 1921-22	103	96	92	90	80	83	81	-11.1	-1.2		
Printing											
Sales books:											
New orders	13,028	11,684	12,347	11,664	11,730	12,718	12,748	+0.6	-8.0	62,406	60,453
Shipments	11,993	11,587	12,176	12,237	10,967	12,176	12,154	-10.4	-9.8	60,895	58,960
Book publication:											
American manufacture	449	514	790	646	621	718	601	-3.9	+3.3	3,422	3,020
Imported	156	251	338	241	147	108	135	-39.0	+8.9	707	1,133
Blank forms, new orders	55,321	63,793	72,340	54,901	68,630	62,074	70,169	+25.0	-2.2	303,347	314,985
Printing activity relative to 1924	110	108	105	107		123	123				
BUILDING CONSTRUCTION AND HOUSING											
Building Costs											
Building materials:											
Frame house, 6-rm. 1st of mo rel. to 1913	178	178	177	173	177	176	177	+2.3	0.0		
Brick house, 6-rm. 1st of mo rel. to 1913	182	182	181	178	181	181	182	+2.8	0.5		
Bldg. costs, 1st of mo rel. to 1913	209.0	206.5	206.8	207.1	205.9	203.4	205.2	-0.6	+0.3		
Bldg. costs (A. G. C.), 1st of mo rel. to 1913	203	203	203	201	200	204	203	-0.5	-1.5		
Construction costs (Am. Appraisal):											
Frame	204	204	202	202	201	204	204	-0.5	-1.5		
Brick, steel frame	197	198	196	196	197	197	197	0.0	-0.5		
Brick, wood frame	214	215	213	213	213	214	214	0.0	-0.5		
Reinforced concrete	202	203	201	200	200	201	201	0.0	-0.5		

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TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929													
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930														
BUILDING CONSTRUCTION AND HOUSING—Continued																									
Contracts and Fire Losses																									
Contracts awarded (36 States):																									
Commercial buildings.....thous. of sq. ft.	7,774	10,146	12,156	9,817	9,457	14,506	15,789	-3.7	-40.1	68,826	49,350	-28.3													
Industrial buildings.....thous. of sq. ft.	3,538	3,899	5,948	4,989	7,902	6,844	10,325	+58.4	-23.5	41,488	26,276	-36.7													
Residential buildings.....thous. of sq. ft.	12,914	14,390	19,891	24,405	22,597	49,908	38,740	-7.4	-41.7	182,054	94,197	-48.3													
Educational buildings.....thous. of sq. ft.	2,619	2,933	5,256	5,577	5,909	4,627	6,050	+6.0	-2.3	22,949	22,294	-2.9													
Other public and semi-public buildings.....thous. of sq. ft.	3,149	3,437	6,975	7,796	5,274	5,070	5,866	-32.4	-10.1	21,835	26,631	+22.0													
Grand total.....thous. of sq. ft.	30,601	36,444	50,493	53,471	51,717	81,407	77,586	-3.3	-33.4	340,869	222,726	-34.7													
Contracts awarded, value (36 States):																									
Commercial buildings.....thous. of dollars	50,907	71,237	72,858	68,360	71,321	73,527	82,681	+4.3	-13.7	389,842	334,683	-14.2													
Industrial buildings.....thous. of dollars	37,857	33,059	71,793	37,763	53,143	67,515	79,915	+40.7	-33.5	315,468	233,615	-26.0													
Residential buildings.....thous. of dollars	63,117	71,746	98,453	119,596	113,049	249,896	185,658	-5.5	-39.1	882,321	465,961	-47.2													
Educational buildings.....thous. of dollars	17,708	20,410	32,269	33,821	35,376	28,730	36,690	+4.6	-3.6	141,678	139,584	-1.5													
Other public and semi-public buildings.....thous. of dollars	33,229	27,517	60,238	60,964	39,623	54,962	47,387	-35.0	-16.4	196,804	221,571	+12.6													
Public works and utilities.....thous. of dollars	103,041	73,826	98,817	139,600	130,537	148,543	132,383	-6.5	-1.4	459,494	545,816	+18.8													
Grand total.....thous. of dollars	305,859	309,795	434,424	460,103	443,047	623,174	566,010	-3.7	-21.7	2,386,903	1,953,228	-18.2													
Contracts awarded, Canada.....thous. of dollars	37,530	28,464	24,263	48,779	46,862	43,328	64,860	-3.9	-27.7	205,702	185,808	-9.6													
Building volume (A. G. C.).....rel. to 1913	131	114	131	146	176	178	211	+20.5	-16.6	-----	-----	-----													
BUILDING MATERIALS																									
Softwood Lumber																									
Price, flooring.....dolls. per M ft. b. m.	41.63	41.35	41.12	38.87	38.19	42.62	42.95	-1.7	-11.1	-----	-----	-----													
Douglas fir:																									
Production (computed).....M ft. b. m.	199,651	275,751	329,021	329,021	307,982	366,624	361,700	-6.4	-14.9	1,675,099	1,441,426	-14.0													
Shipments (computed).....M ft. b. m.	220,690	251,131	297,238	286,495	294,552	379,158	384,530	+2.8	-23.4	1,718,969	1,350,106	-21.5													
New orders (computed).....M ft. b. m.	242,178	254,712	290,076	292,314	291,491	383,634	365,728	-0.3	-20.3	1,806,259	1,370,699	-24.1													
Unfilled orders, end of month.....M ft. b. m.	293,657	290,076	216,662	265,903	201,889	408,255	370,653	-24.1	-45.5	-----	-----	-----													
Exports, lumber.....M ft. b. m.	47,487	38,106	45,184	70,343	60,420	65,953	95,104	-14.1	-36.5	379,966	261,540	-31.2													
Exports, timber.....M ft. b. m.	36,064	27,887	37,143	41,912	46,979	60,207	23,309	+12.1	+10.1	236,737	189,985	-19.8													
Price, No. 1 common.....dolls. per M ft. b. m.	16.85	16.71	16.75	16.26	15.16	18.76	18.89	-6.8	-19.8	-----	-----	-----													
Price, flooring, 1 x 4, "B" and better, V. G. ....dolls. per M ft. b. m.	41.63	41.35	41.12	38.87	38.19	42.60	42.95	-1.8	-11.1	-----	-----	-----													
California redwood:																									
Production (computed).....M ft. b. m.	41,084	36,667	34,959	39,146	29,650	39,292	48,083	-24.3	-38.3	193,521	181,506	-6.2													
Shipments (computed).....M ft. b. m.	30,893	34,173	31,097	38,576	29,566	36,307	48,742	-23.4	-39.4	189,308	184,305	-13.2													
New orders (computed).....M ft. b. m.	35,363	36,106	29,768	36,401	30,052	43,363	49,507	-17.5	-39.3	208,161	187,960	-19.3													
Unfilled orders, end of month.....M ft. b. m.	27,029	37,216	32,403	31,080	30,880	45,871	45,062	-1.0	-31.5	-----	-----	-----													
California white pine:																									
Production.....M ft. b. m.	29,185	30,660	*38,096	62,446	102,977	87,238	127,672	+64.9	-19.4	396,623	263,364	-33.6													
Shipments.....M ft. b. m.	64,837	68,659	81,599	79,924	79,984	106,018	109,599	+0.1	-27.0	516,829	375,003	-27.5													
Stocks, end of month.....M ft. b. m.	568,607	526,140	457,060	507,578	527,755	427,396	442,929	+4.0	+19.2	-----	-----	-----													
New orders.....M ft. b. m.	65,322	66,385	72,947	75,243	76,836	101,387	105,597	+2.1	-27.2	483,627	356,733	-26.2													
Unfilled orders, end of month.....M ft. b. m.	151,560	148,691	155,699	145,217	145,312	193,268	143,950	+0.1	+1.0	-----	-----	-----													
Northern pine:																									
Lumber:																									
Production.....M ft. b. m.	14,935	15,549	15,549	30,690	34,543	42,363	56,031	+12.6	-38.4	166,920	111,266	-33.3													
Shipments.....M ft. b. m.	23,200	26,144	28,127	26,548	27,422	44,043	47,541	+3.3	-42.3	197,212	131,441	-33.4													
New orders.....M ft. b. m.	22,670	21,257	23,858	25,629	21,076	44,379	37,478	-17.8	-43.8	186,350	114,490	-38.6													
Lath:																									
Production.....thousands	527	517	571	3,215	4,770	7,722	10,001	+48.4	-52.3	28,339	9,600	-66.1													
Shipments.....thousands	3,251	3,543	3,524	4,861	3,815	8,003	9,632	-21.5	-60.4	37,088	18,994	-48.8													
North Carolina pine:																									
Production (computed).....M ft. b. m.	41,097	42,497	43,526	39,683	64,841	61,243	-----	-----	-----	-----	-----	-----													
Shipments (computed).....M ft. b. m.	36,946	38,031	39,683	-----	57,029	65,954	-----	-----	-----	-----	-----	-----													
Northern hemlock:																									
Production.....M ft. b. m.	11,153	8,515	11,213	10,700	10,595	13,112	14,488	-1.0	-26.9	76,155	52,176	-31.5													
Shipments.....M ft. b. m.	7,860	5,241	8,919	8,616	9,539	12,625	14,247	+10.7	-33.1	59,561	40,175	-32.6													
Hardwood Lumber																									
Walnut lumber:																									
Production.....M ft. b. m.	2,363	1,838	2,599	2,654	1,786	3,724	4,508	-32.7	-60.4	16,979	11,240	-33.8													
Shipments.....M ft. b. m.	2,070	1,771	1,860	2,069	1,717	4,003	3,823	-17.0	-55.1	18,348	9,487	-48.3													
Stocks, end of month.....M ft. b. m.	18,727	18,079	18,905	19,503	19,634	10,544	11,970	+1.0	+64.0	-----	-----	-----													
New orders.....M ft. b. m.	2,071	1,445	1,732	1,638	1,476	4,078	4,120	-9.9	-64.2	19,271	8,362	-56.6													
Unfilled orders, end of month.....M ft. b. m.	4,418	3,704	3,886	3,408	3,389	7,126	7,563	-0.6	-55.2	-----	-----	-----													
Walnut logs:																									
Purchased.....M ft. log measure	1,701	2,009	1,788	1,820	1,008	2,899	3,735	-44.6	-73.0	13,153	8,326	-36.7													
Made into lumber and veneer.....M ft. log measure	2,021	1,818	2,138	2,011	1,668	2,799	3,005	-17.1	-44.5	13,007	9,656	-25.8													
Stocks, end of month.....M ft. log measure	2,510	2,682	2,364	2,093	1,649	1,152	1,897	-21.2	-13.1	-----	-----	-----													
Northern hardwoods:																									
Production.....M ft. b. m.	29,484	24,694	25,788	23,851	19,560	29,755	30,885	-18.0	-36.7	185,791	123,377	-33.6													
Shipments.....M ft. b. m.	17,119	17,773	18,513	18,201	18,479	26,755	23,818	+1.5	-22.4	142,786	90,085	-36.9													
Lower Michigan hardwoods:																									
Production.....M ft. b. m.	3,075	3,883	-----	-----	5,961	5,825	-----	-----	-----	-----	-----	-----													
Shipments.....M ft. b. m.	2,210	1,686	-----	-----	5,053	5,734	-----	-----	-----	-----	-----	-----													
Stocks, end of month.....M ft. b. m.	15,065	15,512	-----	-----	28,286	28,467	-----	-----	-----	-----	-----	-----													
Gum:																									
Stocks, total, end of month.....mill. ft. b. m.	534	534	552	573	587	468	464	+2.4	+26.5	-----	-----	-----													
Stocks, unsold, end of month.....mill. ft. b. m.	404	408	422	442	456	318	328	+3.2	+39.0	-----	-----	-----													
Unfilled orders, end of month.....mill. ft. b. m.	130	126	130	130	131	151	136	+0.8	-3.7	-----	-----	-----													
Oak:																									
Stocks, total, end of month.....mill. ft. b. m.	1,040	1,052	1,055	1,051	1,038	909	918	-1.2	+13.1	-----	-----	-----													
Stocks, unsold, end of month.....mill. ft. b. m.	877	865	865	870	885	739	748	+1.7	+18.3	-----	-----	-----													
Unfilled orders, end of month.....mill. ft. b. m.	174	187	189	181	153	170	169	-15.5	-9.5	-----	-----	-----													
All hardwoods:																									
Production.....mill. ft. b. m.	251	255	270	255	240	319	296	-5.9	-18.9	1,557	1,271	-18.4													
Shipments.....																									

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930		
BUILDING MATERIALS—Continued													
Flooring													
Maple flooring:													
Production	M ft. b. m.	6,589	5,902	5,382	5,719	5,271	5,759	5,625	-7.8	-6.3	32,971	28,953	-12.2
Shipments	M ft. b. m.	4,625	3,771	4,761	4,768	5,357	7,983	6,848	+12.4	+21.8	31,739	23,282	-26.7
Stocks, end of month	M ft. b. m.	28,314	30,150	31,017	31,122	30,674	24,443	22,230	-1.5	+38.0			
New orders	M ft. b. m.	4,245	3,696	3,953	4,204	4,604	8,616	6,336	+9.5	-27.3	35,872	20,702	-42.3
Unfilled orders, end of month	M ft. b. m.	5,827	6,008	5,418	5,353	5,224	13,337	13,104	-2.4	-60.1			
Oak flooring:													
Production	M ft. b. m.	28,617	27,943	32,038	-----	-----	36,578	41,353					
Shipments	M ft. b. m.	26,317	28,272	34,829	-----	-----	41,837	41,558					
Stocks, end of month	M ft. b. m.	87,391	87,251	85,861	-----	-----	75,744	74,013					
New orders	M ft. b. m.	35,286	29,874	43,893	-----	-----	40,244	33,909					
Unfilled orders, end of month	M ft. b. m.	51,026	57,602	68,188	-----	-----	68,925	57,496					
Fabricated Structural Steel													
New orders (prorated)	short tons	252,000	² 284,000	248,000	236,000	300,000	334,950	342,650	+27.1	-12.4	1,574,651	1,320,000	-16.2
Ratio to capacity	per cent	63	² 71	62	59	75	87	89	+27.1	-15.7			
Shipments (prorated)	short tons	244,000	² 288,000	280,000	² 304,000	280,000	304,150	311,850	-7.9	-10.2	1,412,950	1,396,000	-1.2
Ratio to capacity	per cent	61	² 72	70	² 76	70	79	81	-7.9	-13.6			
Portland Cement													
Production	thous. of bbls.	8,498	8,162	11,225	13,521	² 17,249	13,750	16,151	+30.2	+6.8	58,273	58,655	+0.7
Operation	per ct. of capacity	38.8	41.5	51.5	64.0	78.9	67.1	76.4	+23.3	+3.3			
Shipments	thous. of bbls.	4,955	7,012	8,826	13,340	² 17,224	13,325	16,706	+29.1	+3.1	51,299	51,357	+0.1
Stocks, end of month	thous. of bbls.	27,081	28,150	30,648	30,867	² 30,891	30,151	29,624	+0.2	+4.4			
Stocks, clinker, end of month	thous. of bbls.	9,646	11,572	13,503	15,164	² 14,668	15,479	14,911	-3.4	-1.7			
Wholesale prices, composite	dolls. per bbl	1,576	1,617	1,617	1,617	1,617	1,650	1,650	0.0	-2.0			
Common brick:													
Stocks, end of month—													
Burned	thousands	428,508	513,057	368,833	327,657	303,971	315,607	325,208	-7.2	-6.5			
Unburned	thousands	234,126	259,889	193,430	177,704	171,867	153,168	168,036	-3.3	+2.3			
Shipments	thousands	58,117	75,524	91,903	104,192	98,833	284,793	121,641	-5.2	-18.8	673,259	428,569	-36.4
Unfilled orders, end of month	thousands	115,907	140,451	150,396	172,113	137,980	207,649	144,271	-19.8	-4.4			
Plants closed down	number	126	126	83	78	69	19	15	-11.5	+360.0	231	482	+108.7
Price, red, New York	dolls. per thous.	10.50	10.50	11.00	11.25	10.50	11.50	11.50	-6.7	-8.7			
Sand-lime brick:													
Production	thousands	6,586	4,827	7,406	² 9,802	12,708	16,155	12,969	+29.6	-2.0	58,537	41,329	-29.4
Shipments by rail	thousands	2,356	2,489	2,846	² 3,910	3,272	4,359	5,658	-16.3	-42.2	18,611	14,873	-20.1
Shipments by truck	thousands	3,686	3,576	4,990	² 5,624	7,559	13,580	13,107	+34.4	-42.3	48,333	25,435	-47.4
Stocks, end of month	thousands	13,691	10,286	11,959	² 11,505	12,975	14,236	10,561	+12.7	+22.9			
Unfilled orders, end of month	thousands	7,904	² 9,358	12,793	² 9,229	10,706	11,587	9,188	+16.0	+16.5			
Floor and wall tile:													
Production	thous. of sq. ft.	3,455	3,412	3,803	3,579	-----	6,562	6,300			³ 24,037	³ 14,249	-40.7
Shipments, quantity	thous. of sq. ft.	3,307	3,155	3,030	3,975	-----	6,178	6,355			³ 20,101	³ 13,467	-33.0
Shipments, value	thous. of dolls.	1,339	² 1,253	² 1,175	1,494	-----	2,376	2,437			³ 7,790	³ 5,244	-32.7
Stocks, end of month	thous. of sq. ft.	17,977	² 18,150	² 18,300	18,049	-----	18,609	18,465					
Terra cotta, new orders:													
Quantity	net tons	8,048	5,900	5,656	7,502	6,990	12,949	13,313	-6.8	-47.5	57,549	34,096	-40.8
Value	thous. of dolls.	839	636	579	743	719	1,472	1,487	-3.2	-51.6	6,419	3,516	-45.2
Plate glass:													
Production, polished	thous. of sq. ft.	10,018	9,804	10,416	11,430	12,571	12,555	12,782	+10.0	-1.7	61,196	54,239	-11.4
Roofing													
Prepared roofing, shipments:													
Total	thous. of sqs.	2,383	1,356	2,240	2,727	2,714	4,582	4,583	-0.5	-40.8	19,198	11,420	-40.5
Smooth roll	thous. of sqs.	1,225	709	1,062	1,191	1,104	2,063	1,915	-7.3	-42.4	9,187	5,291	-42.4
Grit roll	thous. of sqs.	493	338	581	676	716	1,118	1,129	+5.9	-36.6	4,488	2,804	-37.5
Shingles—													
Strip, patented, and hexagon	thous. of sqs.	598	252	484	715	730	1,167	1,295	+2.1	-43.6	4,670	2,779	-40.5
Individual and single thickness	thous. of sqs.	67	57	113	144	164	235	244	+13.9	-32.8	855	545	-36.3
Building Equipment													
Enameled Ware													
Baths:													
Shipments	pieces	40,967	46,204	59,887	60,072	59,359	93,894	94,452	-1.2	-37.2	406,879	266,489	-34.5
Stocks, end of month	pieces	173,523	179,512	179,910	182,616	181,019	208,512	197,472	-1.0	-8.3			
New orders	pieces	32,558	64,732	68,672	55,366	49,041	99,070	89,944	-11.4	-45.5	429,041	270,369	-37.0
Unfilled orders, end of month	pieces	29,774	49,637	56,420	51,740	41,440	58,015	49,870	-19.9	-16.9			
Lavatories:													
Shipments	pieces	53,122	² 60,604	² 81,171	² 74,526	72,394	104,199	104,471	-2.9	-30.7	465,112	341,817	-26.5
Stocks, end of month	pieces	163,283	² 166,257	² 170,666	² 176,181	192,298	273,284	257,245	+9.1	-25.3			
New orders	pieces	40,836	² 101,869	² 85,929	² 66,605	60,108	114,819	102,187	-9.8	-41.2	494,169	355,347	-28.1
Sinks:													
Shipments	pieces	58,343	² 62,531	² 79,997	² 75,176	75,576	109,748	108,081	+0.5	-30.1	487,741	351,623	-27.9
Stocks, end of month	pieces	251,446	² 269,193	² 248,198	² 260,237	261,332	312,209	313,022	+0.4	-16.5			
New orders	pieces	49,776	² 91,417	² 83,357	² 70,101	62,864	128,629	111,580	-10.3	-43.7	522,849	357,515	-31.6
Miscellaneous sanitary ware:													
Shipments	pieces	24,288	² 25,519	² 33,284	² 34,212	35,053	40,544	35,616	+2.5	-1.6	187,483	152,356	-18.7
Stocks, end of month	pieces	113,355	² 117,074	² 145,345	² 145,544	132,563	147,990	145,277	-8.9	-8.8			
New orders	pieces	23,009	² 29,113	² 36,638	² 33,791	31,483	45,588	33,781	-6.8	-6.8	198,591	154,034	-22.4
Small ware (all except baths):													
Unfilled orders, end of month	pieces	86,492	² 161,842	² 167,528	² 152,304	122,943	183,072	174,981	-19.3	-29.7			
Vitreous china plumbing fixtures:													
New orders	pieces	200,253	257,783	² 170,325	² 133,179	139,784	205,870	199,977	+5.0	-30.1	1,376,235	901,324	-34.5
Shipments	pieces	205,673	180,683	² 211,637	² 209,366	194,948	251,920	254,776	-6.9	-25.5	1,277,282	1,002,343	-21

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
	<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>											
BUILDING MATERIALS—Continued												
Enameling Ware—Continued												
Porcelain plumbing fixtures:												
Net new orders.....pieces..	10,330	6,721	9,044	6,469	7,879	13,417	8,970	+21.8	-12.2	61,812	40,443	-34.6
Shipments.....pieces..	5,327	4,240	5,378	6,502	7,101	12,193	10,059	+9.2	-29.5	52,530	28,548	-45.7
Unfilled orders, end of month.....pieces..	30,374	32,781	35,961	35,017	35,078	37,184	35,045	+0.2	+0.1			
Stocks, end of month.....pieces..	37,815	39,352	39,198	38,240	36,920	47,315	48,228	-3.5	-23.5			
Plumbing fixtures, 6 pieces.....dollars..	100.55	103.69	104.51	105.47	105.99	97.90	98.16	+0.5	+8.0			
Illuminating Glassware												
Production:												
Total.....number of turns..	2,847	2,636	2,667	2,532		3,285	3,884			13,465	10,682	-20.7
Ratio to capacity.....per ct. of capacity..	35.4	38.1	34.4	37.8		42.9	46.8					
New orders.....per ct. of capacity..	35.6	35.6	38.6	41.5		45.3	48.1					
Shipments.....per ct. of capacity..	34.8	36.4	37.1	38.8		44.9	42.2					
Unfilled orders, end of month.....number of weeks' supply..	1.1	1.1	1.0	1.0		1.1	1.4					
Stocks, end of mo.....number of weeks' supply..	5.4	5.5	6.0	5.8		5.3	5.8					
Furniture												
Household furniture and case goods:												
Southeastern district—												
Shipments.....dolls., av. per firm..	46,398	56,664	54,203	47,092	41,015	57,081	57,605	-12.9	-28.8	287,544	245,372	-14.7
Unfilled orders...dolls., av. per firm..	46,593	39,067	30,837	22,976	22,028	32,776	38,713	-4.1	-43.1			
Grand Rapids district—												
Unfilled orders, end of month.....No. days' production..	29	27	24	18	26	34	60	+44.4	-56.7			
New orders.....No. days' production..	21	16	15	13	23	18	49	+76.9	-53.1	141	88	-37.6
Shipments.....No. days' production..	21	18	16	16	12	19	23	-25.0	-47.8	113	83	-26.6
Outstanding accounts,												
end of month.....No. days' sales..	48	31	42	39	37	42	43	-5.1	-14.0	280	197	-29.7
Cancellations.....per ct. new orders..	17.0	11.0	13.0	22.0	13.0	14.0	4.0	-40.9	+225.0			
Plant operations.....per ct. full time..	79.0	72.0	70.0	69.0	61.0	94.0	89.0	-11.6	-31.5			
Steel furniture:												
Business group—												
Shipments.....thous. of dolls..	2,891	2,550	2,727	2,427	2,350	2,895	2,824	-3.2	-16.8	15,643	12,945	-17.3
New orders.....thous. of dolls..	2,886	2,370	2,627	2,524	2,313	2,933	2,937	-8.4	-21.2	15,855	12,720	-19.8
Unfilled orders, end mo.thous. of dolls..	1,862	1,683	1,590	1,680	1,645	2,389	2,406	-2.1	-31.6			
Shelving—												
Shipments.....thous. of dolls..	675	683	812	815	752	1,131	989	-7.7	-24.0	5,106	3,737	-26.8
New orders.....thous. of dolls..	725	759	839	796	725	1,095	1,121	-8.9	-35.3	5,481	3,844	-29.9
Unfilled orders, end mo.thous. of dolls..	706	782	808	782	754	766	897	-3.6	-15.9			
PLYWOOD AND VENEER												
Rotary-cut veneer:												
Receipts.....number of carloads..	149	209	203	181	93	307	220	-48.6	-57.7	985	835	-15.2
Purchases.....number of carloads..	207	211	120	122	73	256	157	-40.2	-53.5	1,291	733	-43.2
Bushel baskets:												
Production.....dozens..	121,580	152,751	249,069	226,929	209,063	224,835	244,782	-7.9	-14.6	927,169	959,392	+3.5
Shipments.....dozens..	84,212	101,721	241,595	164,795	141,710	149,055	152,274	-14.6	-6.9	636,791	734,033	+15.3
Stocks, end of month.....dozens..	395,866	446,004	455,811	524,771	592,124	565,598	662,636	+12.8	-10.7			
GLASS CONTAINERS												
Actual production:												
Quantity.....gross..	2,336	2,074	2,527	2,419	2,633	2,519	2,683	+8.8	-1.9	12,404	11,989	-3.4
Relation to capacity.....per cent..	70.1	67.3	75.8	71.9	75.4	79.1	79.1	+4.9	-4.7			
New orders.....gross..	4,056	2,363	2,165	2,550	2,236	2,408	2,584	-12.3	-13.5	13,440	13,370	-3.2
Shipments.....gross..	2,110	2,011	2,437	2,564	2,788	2,546	2,657	+8.7	+4.9	12,307	11,910	-3.2
Unfilled orders, end of month.....gross..	13,011	12,636	12,111	11,922	10,924	10,214	9,859	-8.4	+10.8			
Stock, end of month.....gross..	6,858	6,868	6,962	6,809	6,662	6,588	6,601	-2.2	+1.0			
CHEMICALS AND OILS												
Chemicals												
Sulphuric acid:												
Exports.....thous. of lbs..	882,315	344,127	335,773	327,918	507,011	634,959	287,306	+54.6	+76.5	2,683,047	2,397,144	-10.7
Price, wholesale.....dolls. per 100 lbs..	.78	.78	.78	.78	.78	.78	.78	0.0	0.0			
Nitrate of soda:												
Imports.....long tons..	89,421	85,837	106,521	69,788	42,308	119,620	127,645	-39.4	-66.9	578,564	393,875	-31.9
Production in Chile.....metric tons..	280,000	233,900	244,000	205,200	215,400	272,200	276,600	+5.0	-22.1	1,357,900	1,178,500	-13.2
Potash salts:												
Imports (commercial).....long tons..	44,077	40,811	39,947	21,036	12,568	21,299	24,696	-40.3	-49.1	121,324	158,439	+30.6
Sales in Germany (K ₂ O content).....metric tons..	186,000	202,711	180,000			112,535	77,326					
Production in France (K ₂ O content).....metric tons..	49,900	45,600	48,650			38,990	37,242					
Superphosphate (acid phosphate):												
Production.....short tons..	445,128	355,815	324,632	320,282		274,491	276,462			1,204,181	1,445,857	+20.1
Stocks, end of month.....short tons..	2,224,138	2,260,145	1,614,863	866,022		2,793,384	822,659					
Shipments.....short tons..	116,759	189,022	403,435	456,586		2,439,793	116,580					
Fertilizer:												
Exports.....long tons..	104,221	163,776	153,539	188,044	143,347	136,937	114,655	-23.8	+25.0	617,402	752,927	+22.0
Consumption, Southern States.....short tons..	504,440	1,071,004	1,877,961	1,279,874	216,458	1,258,114	1,161,474	-83.1	+34.1	4,807,415	4,949,737	+3.0
Crude arsenic:												
Production.....short tons..	1,079	1,933	1,692	1,350	1,652	1,382	1,888	+22.4	-12.5	6,975	7,706	+10.5
Stocks, end of month.....short tons..	3,677	4,576	4,514	4,159	3,935	2,451	2,073	-5.4	+89.8			
Refined arsenic:												
Production.....short tons..	742	808	864	1,084	963	836	779	-11.2	+23.6	4,373	4,461	+2.0
Stocks, end of month.....short tons..	3,879	3,157	3,131	2,889	2,726	3,316	3,236	-5.6	-15.8			
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs..	151	182	119	218	232	160	202	+6.4	+14.9	799	902	+12.9
Coal tar.....thous. of lbs..	2,052	2,320	3,347	3,349	2,334	26	27	-30.3	-30.3	2,445	13,402	+448.1

* Revised.

† Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumula tive 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
	The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"											
CHEMICALS AND OILS—Continued												
Chemicals—Continued												
Price index numbers:												
Crude drugs.....rel. to Aug., 1914.....	170	169	167	166	161	187	187	-3.0	-13.9			
Essential oils.....rel. to Aug., 1914.....	133	123	118	115	113	205	193	-1.7	-41.3			
Drugs and pharmaceuticals.....rel. to Aug., 1914.....	177	176	176	176	176	164	163	0.0	+8.0			
Chemicals.....rel. to 1927.....	99	98	98	97	97	100	100	0.0	-3.0			
Oils and fats.....rel. to 1927.....	94	95	92	94	92	98	93	-2.1	-1.1			
Wood Chemicals												
Acetate of lime:												
Production—												
United States.....thous. of lbs.....	11,798	9,683	11,162	9,771	8,241	12,071	12,703	-15.7	-35.1	60,566	50,655	-16.4
Canada.....thous. of lbs.....	1,545	1,164	1,077	1,104	791	1,032	751	-28.4	+5.3	5,286	5,682	+7.5
Shipments—												
United States.....thous. of lbs.....	3,921	4,616	8,087	2,6,734	6,914	12,227	12,588	+2.7	-45.1	59,673	30,271	-49.3
Canada.....thous. of lbs.....	178	593	413	688	476	1,066	723	-28.7	-34.2	5,243	2,329	-55.6
Stocks, end of month—												
United States.....thous. of lbs.....	15,536	20,814	24,098	2,27,146	28,392	1,636	1,867	+4.2				
Canada.....thous. of lbs.....	2,498	3,140	3,705	3,845	3,772	96	109	-1.9				
Exports.....thous. of lbs.....								13		88		
Price, wholesale.....dollars. per cwt.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	0.0	0.0			
Methanol, crude:												
Production—												
United States.....gallons.....	715,886	615,006	651,438	2,616,350	523,833	746,007	743,632	-15.0	-29.6	3,601,481	3,122,513	-13.3
Canada.....gallons.....	65,090	53,587	46,844	50,498	34,266	42,183	32,614	-32.1	+5.1	225,092	250,285	+11.2
Stocks at crude plants, end of month—												
United States.....gallons.....	389,876	507,818	646,181	2,709,763	724,037	186,036	234,660	+2.0	+208.5			
Canada.....gallons.....	38,408	27,033	30,261	14,681	9,075	16,697	14,322	-38.2	-36.6			
Stocks at refineries and in transit—												
United States.....gallons.....	903,304	838,421	864,600	807,754	766,004	172,755	262,082	-5.2	+192.3			
Canada.....gallons.....	9,038	16,400	17,299	10,763	45,449	66,218	65,965	+322.3	-31.1			
Exports.....gallons.....	47,571	15,691	56,113	101,033	77,028	57,134	44,602	-23.8	+72.7	211,342	297,436	+40.7
Wood at chemical plants:												
Consumption—												
United States.....cords.....	73,326	60,559	68,045	2,62,036	54,607	74,936	77,832	-12.0	-20.8	370,340	318,573	-14.0
Canada.....cords.....	7,625	5,880	5,308	5,426	3,700	5,244	3,831	-31.8	-3.4	27,818	27,939	+0.4
Stocks, end of month—												
United States.....cords.....	601,972	490,157	477,011	2,514,851	531,244	488,969	525,185	+3.2	+1.2			
Canada.....cords.....	71,022	80,717	79,267	70,767	70,750	73,496	73,095	-3.2				
Daily capacity—												
Total.....cords.....	3,246	3,246	3,246	3,258	3,172	3,336	3,336	-2.6	-4.9			
Shutdown.....cords.....	222	416	535	612	756	383	337	+23.5	+124.3			
Methanol, refined:												
Production—												
United States.....gallons.....	248,723	394,647	398,476	424,295	373,780	502,010	423,244	-11.9	-11.7	2,363,990	1,839,921	-22.2
Canada.....gallons.....	41,500	47,100	44,200	55,600		35,300	49,700			240,000	188,400	-21.5
Stocks, end of month—												
United States.....gallons.....	695,155	705,258	632,705	670,764	699,803	695,180	716,762	+4.3	-2.4			
Canada.....gallons.....	28,405	37,630	40,905	57,414	40,280	48,226	43,474	-29.8	-7.3			
Shipments—												
United States.....gallons.....	425,071	451,173	522,153	530,584	407,940	568,118	472,360	-23.1	-13.6	2,532,629	2,336,921	-7.7
Canada.....gallons.....	41,274	30,484	33,688	26,760	23,153	14,576	45,274	-13.5	-48.9	184,987	155,359	-16.0
Price, wholesale, N. Y.....dollars. pre gal.....	.47	.46	.43	.40	.40	.58	.58	0.0	-31.0			
Ethyl Alcohol												
Production.....thous. of gals.....	11,601	10,943	10,151	12,221	13,245	14,709	15,216	+8.4	-13.0	73,895	58,161	-21.3
Withdrawn for denaturation.....thous. of gals.....	11,174	9,801	8,881	10,585	11,319	12,003	13,812	+6.9	-18.0	64,629	51,760	-19.9
Warehouse stocks, end of month.....thous. of gals.....	7,298	7,496	7,616	8,074	9,143	11,723	12,341	+13.2	-25.9			
Explosives												
(Black powder, permissible, and other high explosives)												
Production.....thous. of lbs.....	31,986	33,244	30,221	30,967	36,147	36,077	37,235	+16.7	-2.9	176,785	162,565	-8.0
Shipments.....thous. of lbs.....	31,709	31,574	30,534	34,071	33,404	36,458	39,474	-2.0	-15.4	178,998	161,292	-9.9
New orders.....thous. of lbs.....	30,828	30,584	30,059	33,204	33,340	34,786	37,199	+0.4	-10.4	172,216	158,015	-8.2
Stocks, end of month.....thous. of lbs.....	18,636	20,522	20,295	18,566	17,699	20,119	17,989	-4.7	-1.6			
Naval Stores												
Turpentine (gum):												
Net receipts, southern ports.....barrels.....	10,237	5,075	9,770	27,999	48,803	31,610	43,722	+74.3	+11.6	96,705	101,893	+5.4
Stocks at port, end of month.....barrels.....	58,485	45,338	40,078	35,053	47,130	52,687	53,536	+34.5	-12.0			
Price, southern, New York.....dollars. per gal.....	.55	.55	.56	.54	.49	.54	.54	-9.3	-9.3			
Rosin (gum):												
Net receipts, southern ports.....barrels.....	50,791	30,605	40,401	86,873	150,386	100,454	137,384	+73.1	+9.5	350,058	359,056	+2.6
Stocks at 3 ports, end of month.....barrels.....	221,568	184,451	149,232	135,958	143,684	108,335	120,665	+5.7	+19.1			
Price B, New York.....dollars. per bbl.....	8.05	7.59	7.26	6.78	6.34	7.41	7.58	-6.5	-16.4			
Rosin (wood):												
Production.....barrels.....	40,954	39,615	44,964	43,919	40,933	36,150	37,708	-6.8	+8.6	182,136	210,385	+15.5
Stocks, end of month.....barrels.....	90,258	88,385	91,498	97,168	99,359	124,192	115,870	+2.3	-14.2			
Turpentine (wood):												
Production.....barrels.....	7,510	7,478	8,129	8,303	7,454	6,917	6,855	-10.2	+8.7	34,614	38,874	+12.3
Stocks, end of month.....barrels.....	10,581	12,190	14,126	15,854	13,715	5,356	4,503	-13.5	+204.6			
Pine oil:												
Production.....gallons.....	254,894	238,944	280,560	253,049	234,281	212,720	219,304	-7.4	+6.8	1,110,872	1,261,728	+13.6
Stocks, end of month.....gallons.....	1,005,571	1,098,756	1,211,827	1,278,382	1,277,099	895,099	878,784	-0.1	+45.3			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
CHEMICALS AND OILS—Continued												
Fats and Oils												
Total vegetable oils and copra:												
Exports	4,866	3,814	4,618	3,753	970	1,575	1,816	-74.2	-46.6	12,520	17,821	+42.3
Imports	84,194	67,603	84,600	67,133	85,173	106,331	129,285	+26.9	-34.1	475,330	388,703	-18.2
Copra, imports	18,488	26,376	29,748	16,649	21,089	29,868	34,728	+26.7	-39.3	141,866	112,350	-20.8
Copra or coconut oil:												
Imports	37,699	19,213	32,771	21,943	34,868	30,319	49,260	+58.9	-29.2	180,849	146,494	-19.0
Consump. in oleomargarine	18,490	14,356	14,164	15,579	13,236	14,932	14,603	-13.9	-9.4	75,798	75,625	-0.2
Oleomargarine:												
Production	32,540	28,402	26,023	28,627	24,812	28,704	28,357	-13.3	-12.5	145,196	140,404	-3.3
Consumption	30,309	30,793	23,890	20,654	22,526	27,067	29,008	-24.0	-22.3	144,895	137,172	-5.3
Animal glues:												
Shipments	6,613	5,214	5,165			7,250	7,225					
Cottonseed												
Cottonseed:												
Receipts at mills	321,230	287,464	203,048	95,981	60,340	39,172	² 23,471	-37.1	+157.1	746,159	968,063	+29.7
Consumption (cruh)	665,552	520,030	400,478	227,517	141,958	236,096	² 114,070	-37.6	+24.4	1,976,737	1,955,535	-1.1
Stocks at mills, end of month	760,745	528,006	330,560	198,598	116,980	191,155	² 100,556	-41.1	+16.3			
Cottonseed oil:												
Crude—												
Production	207,046	163,759	129,753	76,628	47,137	80,497	² 40,193	-38.5	+17.3	643,292	624,323	-2.9
Stocks, end of month	126,525	109,070	101,922	62,184	39,372	80,494	² 50,928	-36.7	-22.7			
Refined—												
Production	172,089	160,524	116,965	107,970	57,041	101,603	² 60,656	-47.2	-6.0	660,954	614,589	-7.0
Stocks, end of month	465,226	512,572	535,891	516,700	463,864	570,717	² 511,660	-10.2	-9.3			
Price, yellow, prime,												
New York	.084	.084	.084	.087	.088	.102	.097	+1.1	-9.3			
Consumption in oleomargarine	2,629	2,351	2,567	2,483	2,115	2,362	2,518	-14.8	-16.0	11,864	12,145	-2.4
Cottonseed cake and meal:												
Production	297,234	227,931	179,864	103,894	61,526	106,253	² 51,705	-40.8	+19.0	898,533	870,449	-3.1
Stocks, end of month	206,062	205,909	170,184	120,258	99,580	226,210	² 190,884	-17.2	-47.8			
Exports	25,063	4,918	4,852	320	230	6,675	6,151	-28.1	-96.3	97,762	35,383	-63.8
Flaxseed												
Minneapolis and Duluth:												
Receipts	251	119	172	146	712	270	313	+387.7	+127.5	1,667	1,400	-16.0
Shipments	163	162	133	171	457	219	101	+167.3	+352.5	1,353	1,086	-19.7
Stocks, end of month	877	745	705	624	523	478	578	-16.2	-9.5			
Imports	1,074	2,279	3,233	2,527	1,454	3,911	2,518	-42.5	-42.3	13,106	10,567	-19.4
Mill receipts at Duluth—												
Superior												
Price, No. 1, Minneapolis	3.08	3.05	2.92	2.92	2.68	2.45	2.45	-8.2	+9.4			
Linsed oil:												
Shipments from Minneapolis	5,198	5,493	9,141	9,685	14,237	18,005	18,005	+6.0	-46.2			
Price, New York	.140	.141	.140	.143	.140	.101	.102	-2.1	+37.3			
Linsed cake and meal:												
Shipments from Minneapolis	20,859	13,600	8,604	7,485	16,917	12,067	12,067	-13.0	-38.0			
Exports	52,833	33,970	52,082	48,716	41,409	72,056	65,003	-15.0	-36.3	304,758	229,010	-24.9
FOODSTUFFS												
Wheat												
Visible supply, end of month:												
United States	168,925	160,375	153,290	136,358	119,682	117,079	97,962	-12.2	+22.2			
Canada	210,643	202,282	192,754	177,424	147,801	167,837	142,168	-16.7	+4.0			
Receipts, principal markets	17,530	19,920	16,683	13,441	16,535	17,472	18,637	+23.0	-11.3	114,564	84,109	-26.6
Shipments, principal markets	14,170	11,234	12,160	13,291	24,091	15,697	23,560	+81.3	+2.3	88,137	74,946	-15.0
Production, crop estimate:												
Winter wheat												
Exports:												
United States												
Wheat only	8,245	5,185	2,414	3,050	5,433	3,942	11,741	+78.1	-53.7	25,783	24,327	-5.6
Including wheat flour	13,825	9,350	7,113	7,252	10,064	8,930	15,941	+38.8	-36.9	52,287	47,604	-9.0
Canada												
Including wheat flour	7,258	8,898	14,657	5,458	16,046	10,554	31,155	+194.0	-48.5	114,016	52,317	-54.1
Prices:												
No. 1, Northern Spring, Minneapolis	1.27	1.25	1.12	1.11	1.07	1.20	1.11	-3.6	-3.6			
No. 2, Red Winter, St. Louis	1.34	1.23	1.18	1.17	1.14	1.25	1.17	-2.6	-2.6			
No. 2, Hard Winter, Kansas City	1.19	1.13	1.02	1.01	.99	1.10	1.01	-2.0	-2.0			
Wheat Flour												
Grindings of wheat:												
United States	43,812	40,506	43,083	² 41,854	41,308	39,475	42,738	-1.3	-3.3	211,276	210,563	-0.3
Canada	5,201	4,702	5,475	5,429	6,258	7,339	7,908	+15.3	-21.8	37,872	27,065	-28.5
Production:												
United States, actual	9,510	8,783	9,347	² 9,071	8,983	8,636	9,334	-1.0	-3.8	46,217	45,694	-1.1
United States, prorated	9,948	9,323	10,207	9,749	9,938	10,680				³ 41,132	³ 39,227	-4.6
Canada	1,168	1,051	1,219	1,215	1,394	1,606	1,749	+14.7	-20.3	8,284	6,047	-27.0
Grain offal, production	772,726	717,926	763,376	² 742,542	732,027	683,046	742,133	-1.4	-1.4	3,660,506	3,728,597	+1.9
Capacity operated, flour mills	56	58	55	53	53	51	55	0.0	-3.6			
Consumption (computed)	9,808	8,098	9,163	8,615	8,530	9,847				³ 35,846	³ 35,684	-0.5
Stocks, all positions, end of month (computed)	8,000	8,800	8,800	9,000		7,700	7,600					
Exports:												
United States	1,240	925	1,044	934	1,029	1,108	933	+10.2	+10.3	5,889	5,172	-12.2
Canada	503	481	681	451	573	720	907	+27.1	-36.8	4,971	2,689	-45.9
Wholesale prices:												
Standard patents, Minn.	6.75	6.39	6.23	6.09	5.97	6.41	6.12	-2.0	-2.5			
Winter straights, Kansas City	5.84	5.63	5.26	5.40	5.27	5.58	5.21	-2.4	+1.2			

² Revised.³ Cumulative through Apr. 30.⁴ As of June 1.⁵ Final estimate for 1929.

TREND OF BUSINESS MOVEMENTS—Continued

<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
FOODSTUFFS—Continued												
Corn												
Exports, including meal.....thous. of bushels.....	819	916	1,122	1,030	824	2,560	1,050	-20.0	-21.5	29,075	4,711	-83.8
Visible supply, end of month.....thous. of bushels.....	16,286	24,270	25,129	21,452	11,819	30,991	15,571	-44.9	-24.1			
Receipts, principal markets.....thous. of bushels.....	31,344	29,564	20,679	22,114	16,213	16,433	11,420	-26.7	+42.0	118,520	119,914	+1.2
Shipments, prin. markets.....thous. of bushels.....	16,438	13,785	14,133	18,043	18,657	17,677	16,276	+3.6	+14.8	81,203	81,086	-0.1
Grindings (starch, glucose).....thous. of bushels.....	7,622	6,568	6,065	6,615	6,623	6,044	6,338	+0.1	+4.5	36,550	33,493	-8.4
Prices:												
No. 3, Yellow, Chicago.....dollars per bushel.....	.85	.82	.80	.82	.79	.90	.87	-3.7	-9.2			
No. 3 Yellow, Kansas City.....dollars per bushel.....	.82	.78	.76	.80	.78	.85	.85	-2.5	-8.2			
No. 3, White, Chicago.....dollars per bushel.....	.86	.84	.81	.84	.80	.91	.89	-4.8	-10.1			
Oats												
Receipts, principal markets.....thous. of bushels.....	6,741	7,336	8,736	9,544	10,690	9,494	10,432	+12.0	+2.5	47,942	43,047	-10.2
Visible supply, end of month.....thous. of bushels.....	25,220	22,527	18,929	16,765	13,102	12,204	10,063	-21.8	+30.2			
Exports, including meal.....thous. of bushels.....	377	389	224	259	266	662	774	+2.7	-65.6	4,308	1,515	-64.8
Price, No. 3, White, Chicago.....dollars per bushel.....	.45	.44	.43	.43	.41	.48	.45	-4.7	-8.9			
Grindings, Canada.....thous. of bushels.....	661	838	798	706	651	776	900	-7.8	-27.7	4,350	3,654	-16.0
Production, oatmeal and rolled oats, Canada.....thous. of lbs.....	7,318	10,263	9,650	8,106	7,951	8,987	10,728	-1.9	-25.9	53,514	43,288	-19.1
Barley												
Receipts, principal markets.....thous. of bushels.....	2,826	3,080	3,153	2,742		3,450	3,264			\$ 16,271	\$ 11,801	-27.5
Visible supply, end of month.....thous. of bushels.....	4,894	8,545	7,837	6,511		6,849	6,022	-16.5	-9.7			
Exports.....thous. of bushels.....	734	1,017	569	778	1,457	1,862	1,268	+87.3	+14.9	10,860	4,555	-58.1
Price, No. 2, Minneapolis.....dollars per bushel.....	.58	.57	.55	.56	.55	.65	.60	-1.8	-8.3			
Rye												
Receipts, principal markets.....thous. of bushels.....	1,250	505	598	337		1,064	1,464			\$ 4,142	\$ 2,690	-35.1
Visible supply, end of month.....thous. of bushels.....	9,184	9,389	11,175	13,427		6,632	6,325					
Exports, including flour.....thous. of bushels.....	.28	.36	.64	.47		.32	.368	-70.2	-6.2	820	189	-77.0
Price, No. 2, Minneapolis.....dollars per bushel.....	.91	.78	.66	.68	.65	.89	.85	-4.4	-23.5			
Production, crop estimate.....thous. of bushels.....				46,723		40,629						
Total Grains												
Total grains exports, incl. flour.....thous. of bushels.....	15,783	11,707	9,093	9,367	12,626	14,046	19,401	+34.8	-34.9	97,350	58,576	-39.8
Rice												
Southern paddy, receipts at mills.....bbls.....	869,702	961,209	283,753			429,389	231,893					
Shipments:												
Total from mills.....pockets (100 lbs.).....	1,073,165	1,005,421	793,008			745,097	714,677					
New Orleans.....pockets (100 lbs.).....	88,638	81,050	80,506	63,189	107,430	131,246	125,528	+70.0	-14.4	642,119	420,813	-34.5
Stocks, end of month.....pockets (100 lbs.).....	2,317,594	2,360,083	1,899,421			1,763,837	1,311,568					
Exports.....pockets (100 lbs.).....	323,281	221,954	209,915	152,572	203,573	378,971	343,168	+33.4	-40.7	2,023,888	1,111,295	-45.1
Imports.....pockets (100 lbs.).....	34,334	20,273	25,889	19,755	10,000	21,356	15,257	-49.4	-34.5	161,104	110,251	-31.6
Fruits and Vegetables												
Apples:												
Cold-storage holdings, end of month.....thous. of bbls.....	6,034	4,259	2,596	^ 1,299	463	1,257	392	-64.4	+18.1			
Car-lot shipments.....carloads.....	6,095	6,314	5,166	3,607	1,966	2,918	1,668	-45.5	+17.9	25,318	23,148	-8.6
Potatoes, car-lot shipments.....carloads.....	19,857	19,593	21,681	19,350	22,588	19,341	19,683	+16.7	+14.8	100,705	103,069	+2.3
Onions, car-lot shipments.....carloads.....	3,277	2,743	2,260	2,874	3,975	4,141	3,366	+38.3	+18.1	13,231	15,129	+14.3
Citrus fruits, car-lot shipments.....carloads.....	10,091	10,187	10,705	9,653	2,104	16,713	13,524	-78.2	-86.4	75,945	42,740	-43.7
Hay												
Receipts.....no. of cars.....	6,107	6,708		4,708		4,733	4,542					
Cattle and Beef												
Cattle movements, primary markets:												
Receipts.....thousands.....	1,639	1,326	1,547	1,644	1,517	1,752	^ 1,660	-7.7	-8.6	7,696	7,673	-0.3
Shipments, total.....thousands.....	623	508	592	639	569	647	2,682	-11.0	-16.6	2,792	2,931	+5.0
Shipments, stocker and feeder.....thousands.....	233	201	207	255	199	292	294	-22.0	-32.3	1,043	1,095	+5.0
Local slaughter.....thousands.....	995	806	919	1,016	947	1,084	^ 985	-6.8	-3.9	4,848	4,683	-3.4
Beef products:												
Production, inspected.....thous. of lbs.....	408,525	327,527	358,129	^ 273,310	401,989	392,785	392,816	+7.5	+2.3	1,906,076	1,869,980	-1.9
Apparent consumption.....thous. of lbs.....	415,507	333,556	371,113	^ 293,451	424,096	415,181	417,481	+7.5	+1.6	1,992,503	1,937,723	-2.7
Exports.....thous. of lbs.....	1,292	1,133	1,431	1,360	1,610	1,073	1,293	+18.4	+24.5	6,372	6,826	+7.1
Cold-storage holdings, end of month.....thous. of lbs.....	99,020	95,598	88,743	^ 80,620	71,387	70,714	57,315	-11.5	+24.6			
Prices:												
Cattle, corn-fed, Chicago.....dollars per 100 lbs.....	12.47	12.53	12.80	12.56	11.56	13.88	13.44	-8.0	-14.0			
Steer rounds, No. 2.....dollars per lb.....	.240	.236	.240	.239	.215	.224	.230	-10.0	-6.5			
Western dressed steers, N. Y. ....dollars per lb.....	.235	.223	.215	.220	.220	.225	.231	0.0	-4.8			
Hogs and Pork												
Hog movements, primary markets:												
Receipts.....thousands.....	4,720	3,791	3,294	3,255	3,293	3,582	^ 3,431	+1.2	-4.0	19,582	18,353	-6.3
Shipments, total.....thousands.....	1,797	1,491	1,451	1,280	1,216	1,277	^ 1,306	-5.0	-6.9	7,314	7,235	-1.1
Shipments, stocker and feeder.....thousands.....	38	56	58	57	47	73	57	-17.5	-17.5	298	256	-14.1
Local slaughter.....thousands.....	2,905	2,297	1,853	1,980	2,084	2,201	^ 2,133	+5.3	-2.3	12,247	11,119	-9.2
Pork products, total:												
Production, inspected.....thous. of lbs.....	874,334	705,032	589,963	603,184	665,124	655,418	665,985	+10.3	-0.1	3,701,350	3,437,642	-7.1
Apparent consumption.....thous. of lbs.....	692,820	489,976	531,873	^ 567,651	597,858	559,351	^ 622,878	+5.3	-4.0	2,899,690	2,880,178	-0.7
Exports.....thous. of lbs.....	105,817	97,263	97,989	77,466	93,589	89,133	^ 98,091	+20.8	-4.6	506,634	472,033	-6.8
Cold-storage holdings, end of month:												
Total.....thous. of lbs.....	779,277	897,478	858,063	^ 816,605	790,601	^ 1,108,306	^ 1,054,275	-3.2	-25.0			
Fresh and cured.....thous. of lbs.....	687,106	785,564	752,996	^ 711,700	675,274	923,558	^ 870,785	-5.1	-22.5			

³ Cumulative through Apr. 30.⁴ As of June 1.⁵ Final estimate for 1929.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (-) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
FOODSTUFFS—Continued												
Hogs and Pork—Continued												
Lard (included in pork products):												
Production—thous. of lbs—	177,251	147,725	124,129	123,565	102	137,953	141,089	+25.0	-2.5	3,650,571	3,572,670	-12.0
Exports—thous. of lbs—	73,291	65,953	66,533	50,045	62,562	59,144	64,192			349,969	318,384	-9.0
Cold-storage holdings, end of month—thous. of lbs—	92,171	111,914	105,067	2 104,905	115,327	184,748	183,490	+9.9	-37.1			
Prices:												
Hogs, heavy, Chicago—dollars per 100 lbs—	9.61	10.41	9.83	9.98	10.02	11.46	10.75	+0.4	-6.8			
Ham, smoked, Chicago—dollars per lb—	.239	.252	.243	.229	.228	.248	.249	-0.4	-8.4			
Lard, prime contract, N. Y.—dollars per lb—	.109	.112	.107	.107	.107	.122	.120	0.0	-10.8			
Sheep and Lambs												
Sheep movement, primary market:												
Receipts—thousands—	1,903	1,796	2,151	2,230	2,334	2,012	2,173	+4.7	+7.4	9,133	10,414	+14.0
Shipments, total—thousands—	786	735	936	975	1,092	954	1,077	+12.0	+1.4	4,250	4,524	+6.4
Shipments, stocker and feeder—thousands—	126	101	99	134	142	210	218	+6.0	-34.9	853	602	-29.4
Local slaughter—thousands—	1,111	1,041	1,210	1,278	1,249	1,051	1,102	-2.3	+13.3	4,870	5,889	+20.9
Lamb and mutton:												
Production, inspected—thous. of lbs—	50,289	49,564	56,494	55,602	53,375	44,575	46,397	-4.0	+45.0	215,769	265,324	+23.0
Apparent consumption—thous. of lbs—	50,814	48,762	56,726	2 55,488	53,869	46,183	46,694	-2.9	+15.4	221,254	265,659	+20.1
Cold-storage holdings, end of month—thous. of lbs—	4,667	5,408	5,174	2 5,190	4,637	2,533	2,461	-10.7	+88.4			
Prices:												
Sheep, ewes, Chicago—dollars per 100 lbs—	6.26	5.18	5.14	5.13	4.78	9.18	5.91	-6.8	-19.1			
Sheep, lambs, Chicago—dollars per 100 lbs—	12.68	10.44	9.73	8.94	9.04	16.45	12.78	+1.1	-29.3			
Miscellaneous Meats												
Cold-storage holdings, end of mo.—thous. of lbs—	89,144	89,970	85,868	2 83,622	83,146	88,314	82,331	-0.6	+1.0			
Total Meats												
Production, inspected—thous. of lbs—	1,333,148	1,082,124	1,004,500	21,032,506	1,120,488	1,002,778	1,105,198	+8.5	+1.4	5,823,195	5,572,946	-4.3
Cold-storage holdings, end of mo.—thous. of lbs—	972,108	1,088,454	1,037,848	2 986,037	949,771	1,269,867	1,196,382	-3.7	-20.6			
Apparent consumption—thous. of lbs—	1,159,141	872,294	959,712	21,016,590	1,075,823	1,020,715	1,087,065	+5.8	-1.0	5,113,655	5,083,560	-0.6
Poultry												
Receipts at 5 markets—thous. of lbs—	33,386	24,800	16,954	17,847	21,942	16,846	17,593	+22.9	+24.7	103,196	114,929	+11.4
Cold-storage holdings, end of mo.—thous. of lbs—	141,552	133,172	105,708	2 77,420	61,202	52,901	41,643	-20.9	+47.0			
Fish												
Total catch, prin. ports—thous. of bbls—	23,918	27,583	33,166	36,799	34,091	29,042	28,631	-7.4	+19.1	125,492	155,557	+24.0
Cold-storage holdings, 15th of mo.—thous. of lbs—	62,428	49,797	35,536	25,186	33,605	31,687	30,174	+33.4	+11.4			
Canned salmon:												
Shipments, United States—cases—	505,831	371,960	371,070			109,690	186,202					
Exports, Canada—cases—	71,285	91,823	85,427	29,183	34,285	49,177	90,775	+17.5	-62.2	507,829	312,003	-38.6
Butter												
Production (factory)—thous. of lbs—	103,949	96,206	108,619	126,255	175,537	124,616	162,511	+39.0	+8.0	579,552	610,566	+5.4
Receipts, 5 markets—thous. of lbs—	43,507	41,014	47,179	50,595	63,752	48,707	63,259	+26.0	+0.8	244,634	246,047	+0.6
Cold-storage holdings, creamery, end of month—thous. of lbs—	60,230	46,530	30,556	2 22,957	50,330	5,883	28,369	+119.2	+77.4	832,840	853,781	+2.5
Apparent consumption—thous. of lbs—	160,417	141,901	162,969	177,990	210,504	170,745	203,700	+18.3	+3.3			
Wholesale price, New York—dollars per lb—	.37	.36	.37	.39	.35	.45	.44	-10.3	-20.5			
Cheese												
Total, all varieties:												
Production (factory)—thous. of lbs—	23,807	22,293	25,282	35,380	52,617	39,880	53,616	+48.7	-1.9	186,174	159,379	-14.4
Receipts, 5 markets—thous. of lbs—	12,525	12,467	12,903	13,026	15,472	12,331	16,751	+18.8	-7.6	69,002	66,393	-3.8
Apparent consumption—thous. of lbs—	40,424	33,807	36,957	44,680	49,921	39,886	40,639	+11.7	+22.8	191,779	205,789	+7.3
Cold-storage holdings, end of mo.—thous. of lbs—	69,223	61,891	55,343	2 53,025	67,920	54,618	61,097	+28.2	+11.2			
Imports—thous. of lbs—	5,361	4,395	5,247	7,125	12,356	5,553	6,183	+73.4	+99.8	30,137	34,484	+14.4
Exports, United States—thous. of lbs—	181	198	171	199	158	242	204	-20.6	-22.5	1,162	907	-21.9
Exports, Canada—thous. of lbs—	1,552	280	456	229	1,884	804	1,692		+11.3	5,436	4,401	-19.0
American whole milk:												
Cold-storage holdings, end of month—thous. of lbs—	53,672	47,818	41,922	2 39,324	49,045	42,032	47,641	+24.7	+2.9			
Wholesale price, New York—dollars per lb—	.21	.21	.21	.21	.20	.24	.23	-4.8	-13.0			
Eggs												
Receipts, 5 markets—thous. of cases—	917	1,110	2,063	2,631	2,366	2,596	2,331	-10.1	+1.5	8,493	9,087	+7.0
Cold-storage holdings, end of month:												
Case—thous. of cases—	139	84	2,231	2 5,766	9,174	3,952	6,705	+59.1	+36.8			
Frozen—thous. of lbs—	44,080	35,192	49,751	2 76,664	108,774	51,825	71,560	+41.9	+52.0			
Milk												
Condensed milk:												
Total stocks, mfrs., end mo.—thous. of lbs—	21,740	18,671	17,495	20,590	30,124	12,534	22,193	+46.2	+35.7			
Case goods—thous. of lbs—	23,475	20,495	20,577	2 20,611	25,186	11,312	18,262	+22.2	+37.0			
Bulk goods—thous. of lbs—												
Unsold stocks, mfrs., end mo.—thous. of lbs—	16,502	14,077	13,235	16,213	25,467	7,984	17,249	+57.1	+47.6			
Case goods—thous. of lbs—	6,289	4,685	4,773	5,117	7,591	4,012	6,644	+48.3	+14.3			
Bulk goods—thous. of lbs—	2,623	3,582	3,477	2,710	2,505	3,643	2,689	-7.6	-6.8	20,760	14,897	-28.2
Wholesale price, New York—dollars per case—	6.13	6.13	6.13	6.13	6.13	6.13	6.13	0.0	0.0			
Evaporated milk:												
Manufacturers' stocks, end mo.—thous. of lbs—	175,974	153,202	146,571	2 162,221	199,334	126,314	160,426	+22.9	+24.3			
Total, case goods—thous. of lbs—	143,769	129,580	125,623	2 140,371	166,196	89,789	116,144	+18.4	+43.1			
Exports—thous. of lbs—	5,839	5,121	5,369	6,181	6,308	5,963	5,917	+2.1	+6.6	32,275	28,818	-10.7
Wholesale price, New York—dollars per case—	3.95	3.95	3.95	3.95	3.95	4.30	4.30	0.0	-8.1			
Production, condensed and evaporated milk—thous. of lbs—	125,073	124,835	153,190	190,551	242,206	207,346	270,018	+27.1	-10.3	896,869	835,855	-6.8
Powdered milk:												
Manufacturers' stocks, end mo.—thous. of lbs—	29,833	26,199	25,674	2 26,675	27,792	16,659	22,802	+4.2	+21.9			
Exports—thous. of lbs—	944	454	629	636	496	480	396	+25.3	+25.3	2,190	3,159	+44.2
Net new orders—thous. of lbs—	8,956	8,767	8,832	2 10,670	11,209	8,520	8,629	+5.1	+16.4	40,654	48,434	+10.1

² Revised.³ Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
FOODSTUFFS—Continued												
Milk—Continued												
Fluid milk:												
Receipts—												
Boston (includ. cream) thous. of qts.	19,192	17,149	19,351			18,002	19,381					
Greater New York thous. of qts.	114,235	104,586	117,880			113,019	120,087					
Production—												
Minneapolis, St. Paul thous. of lbs.	32,554					30,960	35,435					
Consumption in manufacture of oleomargarine thous. of lbs.	9,035	7,714	7,103	7,903	6,935	7,847	7,514	-12.5	-7.7	39,365	38,690	-1.7
Sugar												
Raw:												
Imports—												
From Hawaii, Porto Rico long tons	77,132	140,019	185,704	188,571	119,073	143,628	134,891	-36.9	-11.7	573,282	710,499	+23.9
From foreign countries long tons	192,123	166,971	204,318	272,064	558,190	605,003	458,183	+105.2	+21.8	2,364,838	1,393,666	-41.1
Meltings, 8 ports long tons	326,416	328,181	410,063	432,111	469,484	502,980	409,503	+8.6	+14.6	2,131,540	1,966,255	-7.8
Stocks at refineries, end month. long tons	616,247	570,970	529,067	574,224	744,247	779,091	911,055	+2.96	-18.3			
Refined:												
Shipments, 2 ports long tons	60,224	42,906	68,838	72,114	80,822	87,466	73,898	+12.1	+9.4	348,399	324,904	-6.7
Stocks, 2 ports long tons	32,994	32,746	42,405	63,357	61,571	46,341	47,158	-2.8	+30.6			
Exports, including maple long tons	5,637	4,280	4,487	4,830	7,074	9,265	8,538	+46.5	-17.1	46,149	26,308	-43.0
Prices:												
Wholesale, 96° centrif., N. Y. dolls. per lb.	.037	.037	.036	.035	.032	.037	.036	-8.6	-11.1			
Wholesale, granulated, N. Y. dolls. per lb.	.051	.049	.049	.048	.048	.048	.049	0.0	-2.0			
Retail, granulated, N. Y. dolls. per lb.	.059	.050	.055	.055	.057	.056	.056	+3.6	-1.8			
Retail average, 51 cities relative to 1913	120	118	116	115	115	116	116	0.0	0.9			
Cuban movement (raw):												
Receipts at Cuban ports long tons	192,153	659,637	793,762	669,252	401,856	809,807	440,821	-40.0	-8.8	3,910,414	2,716,660	-30.5
Exports long tons	145,189	179,432	153,083	335,529	446,188	583,906	510,217	+33.0	-12.5	2,450,589	1,259,421	-48.8
Stocks, end of month long tons	312,187	815,389	1,411,983	1,754,746	1,701,274	1,509,795	1,439,050	-3.0	+18.2			
Candy												
Sales by manufacturers thous. of dolls.	24,538	24,893	27,312	25,660	22,264	25,917	27,047	-13.2	-17.7	136,766	124,667	-8.8
Coffee												
Imports thous. of bags	1,036	1,229	1,134	1,065	915	988	860	-14.1	+6.4	4,968	5,379	+8.3
Visible supply:												
World thous. of bags	5,119	5,322	5,264	5,284	5,449	5,207	5,335	+3.5	+2.1			
United States thous. of bags	671	852	875	851	790	788	683	-7.2	+15.7			
Receipts, total, Brazil thous. of bags	1,455	1,469	1,264	1,152	1,247	1,141	1,079	+8.2	+15.6	5,660	6,587	+16.4
Clearances:												
Total, Brazil, for world thous. of bags	1,470	1,427	1,169	1,152	1,027	1,119	971	-10.9	+5.8	5,472	6,245	+14.1
Total, Brazil, for U. S. thous. of bags	881	722	590	548	530	511	503	-3.3	+5.4	2,877	3,271	+13.7
Price, Rio No. 7, Brazil grades dolls. per lb.	.103	.105	.103	.099	.092	.176	.171	-7.1	-46.2			
Tea												
Imports thous. of lbs	6,537	5,602	6,355	5,796	4,712	5,418	4,769	-18.7	-1.2	32,532	29,002	-10.9
Price, Formosa fine, New York dolls. per lb.	.300	.300	.300	.300	.300	.330	.330	0.0	-9.1			
Cocoa												
Shipments from the Gold and Nigerian Coasts, Africa long tons	43,883	29,551	25,543	13,951	16,124	17,670	12,464	+15.6	+29.4	165,380	129,007	-22.0
Imports long tons	25,176	15,082	11,595	12,164	10,721	29,182	15,394	-11.9	-30.4	113,606	74,738	-34.2
Spot price, Accra, New York dollars	.0938	.0925	.0875	.0869	.0850	.1044	.1031	-2.2	-17.6			
TOBACCO												
Consumption (tax-paid withdrawals):												
Large cigars thousands	418,900	426,522	454,766	469,969	523,775	550,912	572,413	+11.4	-8.5	2,479,822	2,293,932	-7.5
Small cigarettes thousands	10,208,232	8,465,005	9,165,175	9,535,460	10,300,768	9,608,221	11,168,407	+8.0	-7.8	47,688,900	47,674,640	-0.4
Manufac. tobacco and snuff thous. of lbs.	33,014	30,308	31,458	31,261	32,579	31,950	33,360	+4.2	-2.3	159,216	158,620	-3.6
Exports:												
Unmanufactured tobacco thous. of lbs.	46,885	57,037	54,887	43,364	28,823	39,634	32,753	-33.5	-12.0	197,567	230,996	+16.9
Cigarettes thousands	465,464	430,886	497,814	366,674	446,231	805,777	703,045	+21.7	-36.5	4,245,422	2,207,069	-48.0
TRANSPORTATION												
River and Canal Cargo Traffic												
Panama Canal:												
Total cargo traffic thous. of long tons	2,612	2,378	2,558	2,457	2,262	2,720	2,537	-7.9	-10.8	13,410	12,267	-8.5
In American vessels thous. of long tons	1,198	1,058	1,272	1,120	1,116	1,194	1,206	-0.4	-7.5	5,985	5,764	-3.7
In British vessels thous. of long tons	589	727	611	685	511	735	667	-25.4	-23.4	3,779	3,123	-17.4
Sault Ste. Marie canals thous. of short tons					410	11,320	4,406	12,930	-18.7	18,336	11,730	-36.0
Cape Cod Canal short tons	186,172	152,509	151,515	184,002	214,302	166,205	201,444	+16.5	+6.4	793,262	898,500	+13.3
Suez Canal thous. of metric tons	2,744	2,474	2,634	2,475	3,103	3,093	3,093			31,192	30,327	-3.5
Welland Canal short tons					141,679	805,262	299,020	775,736	+488.4	1,074,806	946,941	-11.9
St. Lawrence Canal short tons					110,804	841,348	215,402	910,180	-7.6	1,125,582	952,152	-15.4
Mississippi River Govt. barges short tons	75,739	75,157	71,087	101,122	124,924	134,747	123,851	+23.5	+0.9	604,434	448,029	-25.9
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va. short tons	578,224	709,242	838,901	879,401	1,002,040	976,992	1,070,125	+13.9	-6.4	3,891,686	4,007,898	+3.0
Allegheny River short tons	93,825	61,420	174,445	335,262	310,711	232,204	328,289	-7.3	-5.4	917,516	975,663	+6.3
Monongahela River short tons	2,134,161	2,179,305	2,363,728	2,112,586	2,265,032	2,438,939	2,450,876	+7.2	-7.6	11,520,447	11,054,812	-4.0
Ocean Traffic												
Clearances, vessels in foreign trade:												
Total thous. of net tons	5,603	5,368	5,834	6,703	7,525	6,661	7,277	+12.3	+3.4	30,663	31,123	+1.5
American thous. of net tons	2,023	1,977	2,116	2,966	3,112	2,738	2,851	+4.9	+0.2	11,593	12,194	+5.2
Foreign thous. of net tons	3,670	3,391	3,718	3,738	4,412	3,924	4,425	+18.0	-0.3	19,070	18,929	-0.7
Shipbuilding												
Completed during month:												
Total gross tons	23,779	14,241	23,840	16,930	45,570	20,668	9,775	+169.2	+366.2	52,307	124,360	+137.8
Steel seagoing gross tons	21,493	12,217	13,088	4,166	26,248	9,408	3,804			21,918	77,212	+252.3
Building or under contract, end of month:												
Merchant vessels thous. of gross tons	376	341	327	366	488	290	268	+33.3	+82.1	1,030	1,898	+82.7

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930		
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>													
TRANSPORTATION—Continued													
Freight Cars													
Surplus (daily av. last week of month):													
Total cars.	392,552	440,275	465,920	427,925	441,503	220,821	222,626	+3.2	+98.3				
Box cars.	217,024	206,531	203,590	203,192	233,664	89,952	109,924	+15.0	+112.6				
Coal cars.	123,469	180,089	206,066	168,930	148,873	87,367	64,156	-11.9	+132.0				
Shortage (daily av. last week of month):													
Total cars.	9					19	18						
Box cars.													
Coal cars.													
Car loadings:													
Total cars.	3,349,424	3,505,962	4,414,625	3,619,293	4,598,555	3,989,142	2,182,402	+27.1	-11.3	21,325,072	19,487,859	-8.6	
Grain and grain products cars.	156,665	174,980	201,047	156,454	188,117	143,913	2,189,867	+20.2	-0.9	917,745	877,263	-4.4	
Livestock cars.	108,036	102,960	118,071	98,373	117,224	106,879	2,128,361	+21.6	-8.7	579,965	542,664	-6.4	
Coal and coke cars.	828,272	797,867	735,508	571,469	739,739	632,491	2,836,072	+29.4	-11.4	4,070,820	3,672,855	-9.8	
Forest products cars.	181,810	217,239	294,071	229,747	264,693	278,384	2,343,179	+15.2	-22.9	1,414,481	1,187,560	-16.0	
Ore cars.	33,657	33,474	45,119	50,805	55,080	110,678	2,357,269	+409.2	-27.6	597,675	421,735	-29.4	
Merchandise and l. c. l. cars.	890,152	938,429	1,251,013	1,004,425	1,210,252	1,062,048	2,285,836	+20.5	-5.9	5,540,160	5,294,271	-4.4	
Miscellaneous cars.	1,150,832	1,241,013	1,768,796	1,510,020	1,819,850	1,654,749	2,041,818	+20.5	-10.9	8,204,226	7,491,511	-8.7	
Railroad Operations													
Operating revenue:													
Freight thousand of dolls.	337,993	327,061	345,204	345,813		2,393,710	412,018						
Passenger thousand of dolls.	70,452	61,254	61,788	59,586		2,67,521	68,896						
Total operating thousand of dolls.	451,190	427,941	452,717	451,203		2,514,700	537,748						
Operating expenses thousand of dolls.	356,469	330,579	351,279	348,214		2,377,045	390,977						
Net operating income thousand of dolls.	55,474	59,452	61,074	62,272		2,94,168	103,616						
Freight carried millions. ton-miles.	36,664	34,341	35,310	34,894		2,38,346	43,027						
Railway Equipment													
Locomotives (Am. Ry. Assn.):													
Owned, end of month—													
Quantity number.	56,753	56,654	56,486	2,56,456	56,407	58,144	58,052	-0.1	-2.8				
Tractive power mills. of lbs.	2,530	2,530	2,528	2,531	2,533	2,550	2,549	+0.1	-0.6				
In bad order, end of month—													
Quantity number.	7,937	8,342	8,274	8,222	7,798	8,057	7,803	-5.2	-0.1				
Per cent of total in use per cent.	14.1	14.8	14.8	14.7	14.0	14.0	13.4	-4.8	+4.5				
Installed number.	160	115	142	149	177	130	177	+18.8	0.0	653	743	+13.8	
Retired number.	227	218	310	166	226	308	299	+36.1	-16.0	1,334	1,147	-14.0	
New orders number.	163	16	43	29	18	58	44	-37.9	-59.1	340	269	-20.9	
Shipments, manufacturers' (Census)—													
Total number.	48	67	68	97	58	61	99	-40.2	-41.4	241	338	+40.2	
Steam, domestic number.	48	60	64	94	56	57	92	-40.4	-39.1	206	322	+56.3	
Electric, domestic number.	4	2				2	2			15	6	-60.0	
Unfilled orders (railroads), end of mo.—													
From manufacturers number.	334	343	310	239	354	308	265	+48.1	+33.6				
In railroad shops number.	107	107	132	123	77	38	59	-37.4	+30.5				
Unfilled orders, manufacturers' (Census)—													
Total number.	587	533	535	464	419	495	444	-9.7	-5.6				
Steam, domestic number.	527	479	485	417	367	419	362	-12.0	+1.4				
Electric, domestic number.	50	46	44	44	43	24	22	-2.3	+95.5				
Exports, steam number.	2	8	10	4	9	10	14	+125.0	-35.7	77	33	-57.1	
Freight cars (Am. Ry. Assn.):													
Owned, end of month—													
Quantity thous. of cars.	2,265	2,267	2,268	2,270	2,270	2,267	2,267	0.0	+0.1				
Capacity mills. of lbs.	209,842	210,135	210,315	210,726	210,862	208,569	208,850	+0.1	+1.0				
In bad order, end of month—													
Quantity cars.	124,260	122,327	129,895	129,865	137,386	142,543	144,634	+5.8	-5.0				
Per cent of total in use per cent.	5.6	5.5	5.9	5.9	6.2	6.5	6.5	+5.1	-4.6				
New orders cars.	6,632	15,931	4,464	1,543	1,079	6,983	8,364	-30.1	-87.1	53,260	29,649	-44.3	
Shipments—													
Total cars.	8,095	9,600	6,144	9,087	6,785	5,510	8,459	-25.3	-19.8	20,534	39,711	+93.4	
Domestic cars.	7,426	9,366	6,066	8,874	6,785	5,300	8,350	-23.5	-18.7	18,651	38,517	+106.5	
Unfilled orders (railroads)—													
Total cars.	33,457	30,800	35,181	31,846	28,696	43,486	39,843	-9.9	-28.0				
From manufacturers cars.	28,057	25,722	29,058	26,518	25,050	36,674	33,588	-5.5	-25.4				
In railroad shops cars.	5,400	5,078	6,123	5,328	3,646	6,812	6,255	-31.6	-41.7				
Passenger cars:													
New orders cars.	58	134	169	70	72	250	111	+2.9	-35.1	663	503	-24.1	
Shipments—													
Total cars.	95	78	61	77	72	86	48	-6.5	+50.0	422	383	-9.2	
Domestic cars.	80	78	51	65	69	78	44	+6.2	+56.8	408	343	-15.9	
Highways													
Concrete pavements, new contracts:													
Total thous. of sq. yds.	6,595	6,887	13,700	18,570	18,914	16,654	23,704	+1.9	-20.2	57,060	64,666	+13.3	
Road thous. of sq. yds.	5,244	5,357	11,294	14,338	14,899	12,315	17,518	+3.9	-15.0	40,437	51,132	+26.4	
Federal-aid highways:													
Completed—													
Cost thous. of dollars.	7,680	9,266	6,185	6,031	9,317	7,410	10,309	+54.5	-9.6	51,534	38,479	-25.3	
Distance miles.	273	358	297	302	445	211	335	+47.4	+32.8	1,627	1,605	-1.4	
Under construction, end of month miles.	7,054	6,843	6,824	7,230	7,674	7,707	7,900	+6.1	-2.9	38,786	35,625	-8.1	
Passenger Travel													
National parks:													
Visitors number.	47,296	48,312	67,306	75,515	121,194	64,807	102,207	+6.0	+18.6	329,138	359,653	+9.3	
Automobiles entered number.	19,335	9,926	12,841	14,322	35,819	10,466	21,190	+150.1	+69.0	58,456	92,243	+57.8	
Arrivals from abroad:													
Immigrants number.	14,767	13,585	19,759	22,261		28,565	25,711			83,770	37,722	-16.0	
United States citizens number.	23,985	34,234	40,727	32,115		32,288	27,169			312,329	313,061	+3.7	
Departures abroad:													
Emigrants number.	3,947	3,180	2,900	3,947		3,387	4,985			314,660	313,974	-4.7	
United States citizens number.	31,991	33,796	37,930	26,707		25,277	31,505			314,404	313,424	+14.0	
Passports issued number.	8,485	9,899	18,802	33,148	43,227	29,995	38,715	+30.4	+11.7	104,187	113,561	+9.0	

* Revised.

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
TRANSPORTATION—Continued												
Passenger Travel—Continued												
Pullman company operations:												
Revenue.....thous. of dolls.	7,143	6,331	6,316	6,247	.....	6,404	6,471	.....	.....	3 26,481	3 26,037	-1.7
Passengers carried.....thousands.	2,760	2,379	2,457	2,420	.....	2,582	2,590	.....	.....	3 10,699	3 10,016	-6.4
Trend of business in hotels:												
Room occupancy.....per ct. of capacity.	73	70	67	68	68	71	71	0.0	-4.2	.....	.....	.....
Average sale per occupied room.....dollars.	4.04	4.05	3.90	4.05	3.76	4.09	3.88	-7.2	-3.1	.....	.....	.....
Warehouses												
Public merchandise warehouses,												
space occupied.....per ct. of total.	74.6	71.7	70.0	69.4	.....	71.8	71.0	.....	.....	.....	.....	.....
PUBLIC UTILITIES												
Telephone companies:												
Operating revenues.....thous. of dolls.	77,845	75,398	79,200	79,850	.....	74,830	76,158	.....	.....	3 295,551	3 312,293	+5.7
Operating income.....thous. of dolls.	18,012	17,287	17,984	18,377	.....	17,776	18,355	.....	.....	3 73,138	3 72,160	-1.3
Telegraph companies:												
Commercial telegraph tolls.....thous. of dolls.	10,518	9,844	10,790	11,002	.....	11,328	11,853	.....	.....	3 44,637	3 42,154	-5.6
Operating revenues.....thous. of dolls.	13,454	12,652	13,865	13,964	.....	14,344	15,016	.....	.....	3 56,448	3 53,935	-4.5
Operating income.....thous. of dolls.	435	532	1,442	1,673	.....	1,700	1,749	.....	.....	3 6,705	3 4,082	-39.1
Gas and electric companies:												
Gross earnings.....thous. of dolls.	211,000	199,500	199,000	198,000	.....	190,000	189,750	.....	.....	3 782,000	3 807,500	+3.3
Net earnings.....thous. of dolls.	92,000	90,000	88,000	89,500	.....	83,000	82,500	.....	.....	3 346,000	3 359,500	+3.9
Electric railways (212 companies):												
Passengers carried.....thous. of persons.	781,927	705,454	760,269	728,820	736,202	774,517	792,894	+1.0	-7.2	3,928,682	3,712,672	-5.5
Average fare.....cents.	8.288	8.288	8.288	8.288	8.288	8.202	8.221	.....	.....	.....	.....	.....
ELECTRIC POWER												
Electric power production:												
Total.....mills. of kw. hours.	8,652	2 7,618	2 8,170	7,960	.....	7,881	8,084	.....	.....	3 31,540	3 32,400	+2.7
By water power.....mills. of kw. hours.	2,935	2 2,705	2 3,264	3,272	.....	3,285	3,483	.....	.....	3 11,572	3 12,176	+5.2
By fuels.....mills. of kw. hours.	5,717	2 4,913	2 4,906	4,688	.....	4,596	4,601	.....	.....	3 19,968	3 20,224	+1.3
In street railways,												
manfg. plants, etc.....mills. of kw. hours.	2 497	441	2 501	518	.....	375	378	.....	.....	3 1,577	3 1,957	+24.1
In central stations.....mills. of kw. hours.	2 8,155	2 7,177	2 7,669	7,422	.....	7,506	7,706	.....	.....	3 29,963	3 30,443	+1.6
Electric power production (Canada):												
Total.....mills. of kw. hours.	1,546	1,391	1,508	1,493	.....	1,409	1,457	.....	.....	3 5,734	3 5,938	+3.6
By water power.....mills. of kw. hours.	1,505	1,364	1,484	1,472	.....	1,379	1,432	.....	.....	3 5,614	3 5,825	+3.8
Exported.....mills. of kw. hours.	113	117	127	118	.....	111	112	.....	.....	3 463	3 475	+2.6
Electric power, gross revenue.....thous. of dollars.	198,300	2 185,800	177,100	175,900	.....	2 170,900	165,600	.....	.....	3 705,200	3 737,100	+4.5
Consumption of electrical energy:												
By geographic divisions—												
United States.....rel. to 1923-25	121.8	123.5	120.2	120.3	119.0	136.4	136.9	-1.1	-13.1	.....	.....	.....
New England.....rel. to 1923-25	120.5	113.3	105.0	102.9	106.3	125.4	123.3	+3.3	-13.8	.....	.....	.....
North Central.....rel. to 1923-25	128.0	136.8	128.4	125.7	125.8	146.5	148.9	+0.1	-15.5	.....	.....	.....
Middle Atlantic.....rel. to 1923-25	125.8	126.0	122.2	117.2	112.3	128.0	130.4	-4.2	-13.9	.....	.....	.....
Southern.....rel. to 1923-25	110.0	118.3	121.7	117.3	122.3	126.3	128.1	+4.3	-4.5	.....	.....	.....
Western.....rel. to 1923-25	115.2	127.5	117.4	127.6	130.5	137.0	144.7	+2.3	-9.8	.....	.....	.....
By industry—												
All industry.....rel. to 1923-25	121.8	123.5	120.2	120.3	119.0	136.4	136.9	-1.1	-13.1	.....	.....	.....
Chemical and allied products.....rel. to 1923-25	136.7	139.6	140.0	137.2	146.6	131.7	129.2	+6.9	+13.5	.....	.....	.....
Food and kindred products.....rel. to 1923-25	132.3	129.2	129.8	119.4	138.2	121.2	122.6	+15.7	+12.7	.....	.....	.....
Rolling mills and steel plants.....rel. to 1923-25	143.1	143.0	136.8	138.3	135.1	153.3	172.2	-2.3	-21.5	.....	.....	.....
Metal working plants.....rel. to 1923-25	126.7	130.5	132.0	125.5	116.3	148.3	144.2	-7.3	-19.3	.....	.....	.....
Metal groups.....rel. to 1923-24	132.9	135.0	133.7	130.2	123.2	149.9	154.8	-5.4	-20.4	.....	.....	.....
Leather and its products.....rel. to 1923-25	92.3	86.5	80.8	91.2	66.3	82.0	95.2	-27.3	-30.4	.....	.....	.....
Lumber and its products.....rel. to 1923-25	87.5	94.7	93.7	102.8	102.4	108.0	111.1	-0.4	-7.8	.....	.....	.....
Paper and pulp.....rel. to 1923-25	120.8	138.0	135.0	126.7	132.2	136.0	129.9	+4.3	+1.8	.....	.....	.....
Rubber and its products.....rel. to 1923-25	144.4	185.4	130.3	138.5	135.3	155.7	157.6	-2.3	-14.1	.....	.....	.....
Shipbuilding.....rel. to 1923-25	124.4	125.4	117.7	130.1	113.2	116.1	135.2	-13.0	-16.3	.....	.....	.....
Stone, clay, and glass.....rel. to 1923-25	124.2	116.7	117.9	129.9	121.2	145.0	143.5	-6.7	-15.5	.....	.....	.....
Textiles.....rel. to 1923-25	112.4	103.3	99.6	102.3	96.0	128.1	129.9	-6.2	-26.1	.....	.....	.....
Automobiles, including repair parts.....rel. to 1923-25	99.8	116.6	108.9	112.9	105.8	170.6	161.8	-6.3	-34.6	.....	.....	.....
EMPLOYMENT AND WAGES												
Employment in factories:												
New York State.....rel. to 1923	82.3	81.9	81.8	80.3	79.0	88.3	87.5	-1.6	-9.7	.....	.....	.....
Maryland.....rel. to 1924	86.2	87.2	87.5	88.6	87.4	91.8	91.6	-1.4	-4.6	.....	.....	.....
Iowa.....rel. to 1923	122.9	125.2	123.0	124.3	126.1	127.4	127.6	+1.4	-1.2	.....	.....	.....
Illinois.....rel. to 1925-27	97.8	98.0	96.9	95.0	93.4	103.0	103.7	-1.7	-9.9	.....	.....	.....
Wisconsin.....rel. to 1923	90.0	90.7	90.6	.....	.....	99.2	99.1	.....	.....	.....	.....	.....
Ohio.....rel. to 1923	101	.....	.....	.....	.....	115	115	.....	.....	.....	.....	.....
Cleveland.....rel. to Jan., 1921	109.1	107.4	106.7	.....	.....	123.1	124.0	.....	.....	.....	.....	.....
Detroit.....rel. to 1923-25	106.5	108.0	108.5	110.5	109.2	136.0	131.0	-1.2	-16.6	.....	.....	.....
New York State.....number	455,480	453,284	452,472	444,133	436,926	488,390	484,464	-1.6	-9.8	.....	.....	.....
Oklahoma.....number	33,081	32,938	.....	.....	.....	34,809	34,686	.....	.....	.....	.....	.....
Total pay roll:												
New York State (weekly).....thous. of dollars.	13,524	13,304	13,481	13,030	12,667	14,687	14,549	-2.8	-12.9	.....	.....	.....
Oklahoma (weekly).....thous. of dollars.	900	916	.....	.....	.....	908	1,039	.....	.....	.....	.....	.....
Wisconsin.....rel. to 1923	87.7	93.0	96.9	.....	.....	111.5	110.1	.....	.....	.....	.....	.....
New York State.....rel. to 1923	89.7	88.3	89.4	86.4	84.0	97.4	96.5	-2.8	-13.0	.....	.....	.....
Illinois.....rel. to 1925-27	91.2	94.0	90.1	89.1	86.5	105.2	105.7	-2.9	-18.2	.....	.....	.....
Employment:												
Canada.....rel. to cal. year 1926	111.2	111.6	110.2	107.8	111.4	110.4	116.2	+3.3	-4.1	.....	.....	.....

* Revised.

* Cumulative through Apr. 30.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
EMPLOYMENT AND WAGES—Con.												
Ohio construction.....rel. to 1923.....	90.4					107.8	122.5					
Employment, trade-unions:												
United States.....per cent of total.....	80.0	78.0	79.0	79.0	80.0	88.0	89.0	+1.3	-10.1			
Canada.....per cent of total.....	89.2	93.2	88.5	89.2	91.0	94.5	96.0	+2.0	-5.2			
Anthracite mines:												
Employment.....rel. to 1923-25.....	105.6	107.8	83.3	84.8	94.5	104.1	107.2	+11.4	-11.8			
Pay roll.....rel. to 1923-25.....	92.1	103.7	67.1	63.9	84.2	77.4	85.4	+31.8	-1.4			
Federal civilian employees,												
Washington, D. C., end month.....number.....	64,356	64,662	64,954	65,778	67,036	63,507	63,841	+1.9	+5.0			
Average weekly earnings, factories:												
Illinois.....dollars.....	28.30	29.24	28.25	28.49	28.14	28.96	29.05	-1.2	-3.1			
New York State.....dollars.....	29.70	29.36	29.80	29.35	29.00	30.07	30.03	-1.2	-3.4			
Wisconsin.....dollars.....	24.10	24.84	25.75			26.08	29.95					
Oklahoma.....dollars.....	27.21	27.81										
New York.....rel. to 1923.....	109.0	107.8	109.4	107.7	106.5	110.4	110.2	-1.1	-3.4			
Illinois.....rel. to 1925-27.....	99.7	103.1	99.6	100.4	99.2	102.1	102.4	-1.2	-3.1			
Wisconsin.....rel. to 1923.....	95.9	102.0	106.4			112.4	111.1					
Average weekly earnings (<i>National Industrial Conference Board</i>):												
Grand total (both sexes).....dollars.....	27.51	27.90	27.59	27.64	27.05	28.53	28.54	-2.1	-5.2			
Total male.....dollars.....	29.53	29.75	29.37	29.74	29.19	31.61	31.48	-1.8	-7.3			
Skilled male.....dollars.....	30.87	31.08	30.70	31.09	30.50	33.09	33.04	-1.9	-7.7			
Unskilled male.....dollars.....	24.31	24.59	24.14	24.41	23.85	25.95	25.59	-2.3	-6.8			
Total wcmen.....dollars.....	17.02	17.09	16.84	16.59	16.27	17.85	17.95	-1.9	-9.4			
Average weekly hours:												
Nominal (both sexes).....hours.....	49.2	49.3	49.0	48.8	48.9	49.8	49.9	+0.2	-2.0			
Actual (both sexes).....hours.....	46.4	46.7	46.3	46.1	45.2	49.3	49.0	-2.0	-7.8			
Wages, road labor, by districts:												
New England.....cents per hour.....	52	51	52	51	48	51	50	-5.9	-4.0			
Middle Atlantic.....cents per hour.....	47	44	44	42	41	42	42	-2.4	-2.4			
South Atlantic.....cents per hour.....	25	25	25	27	26	27	30	-3.7	-13.3			
East South Central.....cents per hour.....	25	25	27	25	25	27	26	0.0	-3.8			
West South Central.....cents per hour.....	31	29	28	33	28	31	31	-15.2	-9.7			
East North Central.....cents per hour.....	40	40	38	38	39	38	40	+2.6	-2.5			
West North Central.....cents per hour.....	40	39	37	38	37	37	37	-2.6	0.0			
Mountain.....cents per hour.....	46	46	46	46	48	44	45	+4.3	+6.8			
Pacific.....cents per hour.....	53	53	53	53	52	53	53	-1.9	-1.9			
United States, average.....cents per hour.....	40	39	39	40	40	38	40	0.0	0.0			
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	127.0	0.0	0.0			
Applicants per 100 jobs, employment agencies:												
United States.....number.....	201	201	180	162	164	128	126	+1.2	+30.2			
Eastern States.....number.....	231	213	177	172	126	126	126	-2.8	+36.5			
Central States.....number.....	231	225	189	177	173	134	126	-2.3	+37.3			
Southern States.....number.....	250	271	254	217	243	200	198	+12.0	+22.7			
Western States.....number.....	101	91	83	74	93	73	93	+25.7	0.0			
Illinois.....number.....	257	246	209	190	196	134	124	+3.2	+58.1			
Wisconsin.....number.....	196	186	177	159	117	117	106					
Canada.....number.....	160	164	157	145		127	127					
Factory Labor Turnover												
(Percentage of number on pay roll)												
Departures:												
Total.....per cent (annual basis).....	28.1	33.0	31.9	35.1	34.7	55.7	52.1	-1.1	-33.4			
Voluntary quits.....per cent (annual basis).....	13.1	16.0	16.3	17.7	17.7	43.3	40.8	0.0	-56.6			
Lay offs.....per cent (annual basis).....	12.2	13.8	12.1	14.1	13.9	5.5	5.7	-1.4	+143.9			
Discharges.....per cent (annual basis).....	2.8	3.2	3.5	3.3	3.1	6.9	5.6	-6.1	-44.6			
Accessions.....per cent (annual basis).....	23.7	26.9	23.0	24.3	24.7	70.2	59.9	+1.6	-58.8			
Industrial disputes:												
Disputes.....number.....	21	23	20	39		253	73					
Workers involved.....number.....	5,316	6,562	5,461	6,776		52,445	64,853					
Man-days lost in month.....number.....	182,202	236,788	237,446	182,713		1,429,437	1,727,694					
DISTRIBUTION MOVEMENT												
Retail Sales												
Mail-order houses:												
Total sales, 2 houses.....thous. of dolls.....	51,274	46,601	47,582	56,561	59,350	55,619	55,006	+4.9	+7.9	257,834	261,458	+1.4
Sears, Roebuck & Co.....thous. of dolls.....	32,943	28,285	26,950	32,785	34,300	34,046	35,126	+4.6	-2.4	156,980	155,263	-1.1
Montgomery Ward & Co.....thous. of dolls.....	18,331	18,406	20,632	23,776	25,050	21,573	19,880	+5.4	+26.0	100,854	106,195	+5.3
Ten-cent chain stores:												
Total sales (4 chains).....thous. of dolls.....	34,657	37,523	42,323	46,371	47,074	41,651	49,201	+1.5	-4.3	206,851	207,948	+0.5
Total stores operated (4 chains).....number.....	2,880	2,892	2,908	2,922	2,935	2,711	2,728	+0.4	+7.6			
F. W. Woolworth & Co.....thous. of dolls.....	18,408	20,030	22,482	24,369	25,310	22,062	28,577	+3.9	-11.4	112,199	110,599	-1.4
Stores operated.....number.....	1,829	1,835	1,845	1,853	1,855	1,759	1,767	+0.1	+5.0			
S. S. Kresge Co.....thous. of dolls.....	9,352	9,944	11,260	12,724	12,778	11,368	12,345	+0.4	+3.5	55,073	56,058	+1.8
Stores operated.....number.....	604	611	617	624	523	531	531	+1.3	+19.0			
McCrory Stores Corp.....thous. of dolls.....	2,695	2,907	3,358	3,651	3,588	3,158	3,263	-1.7	+10.0	15,691	16,199	+3.2
Stores operated.....number.....	243	241	241	240	241	235	236	+0.4	+2.1			
S. H. Kress & Co.....thous. of dolls.....	4,202	4,642	5,225	5,627	5,399	5,063	5,016	-4.1	+7.6	23,888	23,095	+5.1
Stores operated.....number.....	204	205	205	205	207	194	194	+1.0	+6.7			
Metropolitan.....thous. of dolls.....	971	995	1,133	1,348	1,474	1,132	2,1,361	+9.3	+8.3	5,322	5,921	+11.3
Stores operated.....number.....	150	149	148	147	147	112	117	0.0	+25.6			
W. T. Grant Co.....thous. of dolls.....	3,784	3,011	4,962	5,731	6,153	4,421	5,089	+7.4	+20.9	21,496	24,541	+14.2
Stores operated.....number.....	279	280	283	287	287	226	227	+2.1	+29.1			
F. & W. Grand.....thous. of dolls.....	1,296	1,326	1,603	1,936	1,840	1,588	1,688	-5.0	+9.0	7,259	8,001	+10.2
Stores operated.....number.....	94	94	94	96	98	86	88	+2.1	+11.4			
Isaac Silver & Bros.....thous. of dolls.....	457	534	643	751	715	567	566	-4.8	+0.6	2,554	3,100	+21.4
Stores operated.....number.....	43	44	45	45	45	36	37	0.0	+21.6			
J. C. Penny Co.....thous. of dolls.....	10,611	11,197	14,208	17,452	17,170	14,928	16,717	-1.6	+2.7	65,982	70,638	+7.1
Stores operated.....number.....	1,395	1,396	1,416	1,428	1,430	1,207	1,211	+0.1	+18.1			
G. C. Murphy Co.....thous. of dolls.....	939	989	1,183	1,291	1,410	1,112	1,192	+9.2	+18.3	5,227	5,812	+11.3
Stores operated.....number.....	154	154	154	155	156	142	143	+0.6	+9.1			

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
DISTRIBUTION MOVEMENT —Contd.												
Retail Sales —Continued												
Restaurant chains:												
Total sales (3 chains) thous. of dolls	4,989	4,580	5,039	4,962	4,975	4,944	² 5,077	+0.3	-2.0	24,225	24,545	+1.3
Stores operated number	374	374	374	377	381	372	375	+1.1	+1.6			
Childs Co., sales thous. of dolls	2,307	2,148	2,352	2,330	2,279	2,247	² 2,313	-2.2	-1.5	11,243	11,416	+1.5
Stores operated number	111	110	110	112	115	112	114	+2.7	+0.9			
J. R. Thompson Co., sales thous. of dolls	1,300	1,177	1,307	1,279	1,314	1,359	1,403	+2.7	-6.3	6,417	6,377	-0.6
Stores operated number	121	121	121	121	121	124	124	0.0	-2.4			
Waldorf System (Inc.),												
sales thous. of dolls	1,382	1,255	1,380	1,353	1,382	1,338	1,361	+2.1	+1.5	6,614	6,757	+2.2
Stores operated number	142	143	143	144	145	136	137	+0.7	+5.8			
Installment sales in New England												
Dept. stores, ratio to total sales per cent	16.2	10.9				6.3	6.1					
Advertising												
Magazine advertising thous. of lines	1,990	2,382	2,738	3,141	3,022	3,271	² 3,113	-3.8	-2.9			
Magazine advertising, total cost thous. of dolls	12,411	16,808	18,687	21,862	20,399	21,072	19,839	-6.7	+2.8	88,011	90,167	+2.4
Newspaper advertising thous. of lines	88,873	81,702	97,868	101,259	100,402	107,811	² 112,524	-0.8	-10.8	518,385	470,104	-9.3
Radiobroadcast cost, facilities thous. of dolls	1,989	1,873	2,295	2,188	2,300	1,550	1,563	+5.1	+47.2	7,353	10,645	+44.8
National advertising in newspapers:												
Total thous. of lines	47,887	44,996	54,032	52,867	54,491	55,792	² 61,357	+3.1	-11.2	275,826	254,273	-7.8
Passenger cars thous. of lines	8,000	6,497	6,841	5,817	5,169	9,813	² 8,822	-11.1	-41.4	47,046	32,324	-31.3
Tires, trucks, and accessories thous. of lines	3,349	3,983	6,105	6,066	7,697	6,003	² 7,917	+26.9	-2.8	25,880	27,200	+5.1
Financial thous. of lines	9,128	5,221	6,427	7,617	6,387	7,644	² 8,180	-16.1	-21.9	40,116	34,780	-13.4
Building materials thous. of lines	129	182	373	615	660	1,268	² 1,160	+7.3	-43.1	3,614	1,959	-45.8
Electrical appliances, supplies thous. of lines	664	615	1,329	2,016	1,548	1,484	² 1,527	-23.2	+1.4	5,780	6,172	+6.8
Foods and beverages thous. of lines	5,355	6,766	7,915	9,220	9,503	7,498	² 8,810	+3.1	+7.9	33,060	38,759	+17.2
Heating and plumbing equipment thous. of lines	395	275	377	629	608	624	² 606	-3.3	+0.3	2,674	2,284	-14.6
Medical thous. of lines	6,456	6,206	5,741	3,635	2,926	4,281	² 3,802	-19.5	-23.0	29,604	24,964	-15.7
Radio thous. of lines	1,603	1,700	1,399	856	958	1,386	² 2,130	+11.9	-55.0	10,384	6,516	-37.2
Tobacco thous. of lines	3,177	3,345	4,497	3,606	4,919	3,146	² 5,231	+36.4	-6.0	19,007	19,544	+2.8
Toilet requisites thous. of lines	2,432	3,163	4,323	3,674	3,404	3,340	² 2,816	-7.3	+20.9	16,243	16,996	+4.6
Transportation thous. of lines	2,461	2,175	2,396	2,719	3,728	2,952	² 4,246	+37.1	-12.2	13,837	13,479	-2.6
All other thous. of lines	4,738	4,866	6,310	6,397	6,987	6,354	² 6,110	+9.2	+14.4	28,582	29,298	+2.5
Postal Business												
Postal receipts:												
50 selected cities thous. of dolls	32,199	29,457	32,475	32,644	31,370	32,352	² 32,448	-3.9	-3.3	160,783	158,145	-1.6
50 industrial cities thous. of dolls	3,561	3,473	3,562	3,524	3,335	3,454	² 3,339	-5.4	-0.1	17,122	17,455	+1.6
Money orders:												
Domestic issued (50 cities)—												
Quantity thousands	3,805	3,597	4,134	3,828	3,813	3,851	3,702	-0.4	+3.0	18,618	19,177	+3.0
Value thous. of dolls	38,356	35,617	39,827	37,803	38,266	38,188	38,011	+1.2	+0.7	185,685	189,869	+2.3
Domestic paid (50 cities)—												
Quantity thousands	11,266	10,165	11,791	11,562	11,191	11,825	11,693	-3.2	-4.3	77,486	55,975	-27.8
Value thous. of dolls	86,593	78,066	88,103	90,646	87,661	90,423	90,363	-3.3	-3.0	435,264	431,069	-1.0
Air mail, weight dispatched pounds	518,398	556,913	625,174	² 676,255	687,053	508,672	587,471	+1.6	+17.0	2,542,207	3,063,793	+20.5
BANKING AND FINANCE												
Banking												
Check payments:												
New York City mills. of dolls	34,732	31,117	40,740	38,631	37,423	47,979	50,043	-3.1	-25.2	254,455	182,643	-28.2
Outside of New York City mills. of dolls	25,723	21,534	25,014	24,347	24,416	26,803	26,520	+0.3	-7.9	134,095	121,034	-9.7
Canada mills. of dolls	1,674	1,446	1,627	1,556	1,767	1,873	2,097	+13.6	-15.7	9,759	8,070	-17.3
Federal reserve banks:												
Bills discounted mills. of dolls	407	343	241	233	247	986	988	+6.0	-75.0			
Notes in circulation mills. of dolls	1,702	1,637	1,576	1,507	1,466	1,664	1,654	-2.7	-11.4			
Total investments mills. of dolls	747	796	840	749	712	343	270	-4.9	+163.7			
Total reserve mills. of dolls	3,188	3,187	3,209	3,252	3,221	2,986	2,970	-1.0	+8.5			
Total deposits mills. of dolls	2,369	2,408	2,443	2,434	2,421	2,410	2,331	-0.5	+3.9			
Reserve ratio per cent	78.3	78.8	79.8	82.5	83.9	73.3	74.5	+1.7	+12.6			
Federal reserve member banks:												
Total loans and discounts mills. of dolls	16,676	16,428	16,913	16,964	16,837	16,451	16,202	-0.7	+3.9			
Total investments mills. of dolls	5,529	5,575	5,719	5,889	5,875	5,799	5,799	+1.7	+1.6			
Net demand deposits mills. of dolls	12,949	12,944	13,329	13,581	13,388	13,234	12,791	-1.4	+4.7			
Brokers' loans, end of month—												
To N. Y. Stock Ex. members—												
Total mills. of dolls	3,985	4,168	4,656	5,063	4,745	6,775	6,665	-6.2	-28.8			
Ratio to market value per cent	5.77	5.89	6.12	6.72	6.33	9.19	9.40	-5.9	-32.7			
By New York F. R. member banks mills. of dolls	3,345	3,489	3,968	4,274	4,022	5,532	5,288	-5.9	-23.9			
Deposits, New York State savings banks, end of month mills. of dolls	4,416	4,436	4,509	4,507	4,505	4,439	4,418	0.0	+2.0			
Interest rates:												
Time loans, 90 days per cent	3.88	4.75	4.25	4.13	3.50	8.75	8.75	-15.3	-60.0			
Call loans, renewal per cent	4.64	4.32	3.69	4.00	3.12	8.89	8.91	-22.0	-65.0			
Prime com. paper (4-6 mos.) per cent	4.88	4.75	4.25	3.88	3.75	6.00	6.00	-3.4	-37.5			
Prime bankers' acceptances per cent	3.94	3.81	3.13	2.94	2.50	5.50	5.50	-15.0	-54.5			
N. Y. Fed. Res. Bank (redis.) per cent	4.00	4.00	3.50	3.00	3.00	5.00	5.00	0.0	-40.0			
Federal land banks per cent	3.79	5.72	5.58	5.58	5.58	5.10	5.10	-0.0	+8.8			
Intermediate credit banks per cent	5.34	5.24	5.10	4.98	4.82	5.50	5.56	-3.2	-13.3			
Public Finance												
Government debt, gross, end mo. mills. of dolls	16,423	16,460	16,390	16,394	16,399	17,196	17,167	0.0	-4.5			
Customs receipts thous. of dolls	41,278	35,935	42,610	41,071	51,722	50,404	48,279	+25.9	+7.1	248,083	212,616	-14.3
Total ordinary receipts thous. of dolls	151,195	138,540	167,876	159,063	173,243	173,508	166,722	+3.9	+3.9	1,399,729	1,296,907	-7.3
Expenditures chargeable to ordinary receipts thous. of dolls	347,351	236,742	362,221	414,147	230,997	335,643	225,269	-44.2	+2.5	1,391,876	1,591,458	+14.3
U. S. money in circulation: Daily average mills. of dolls	4,652	4,556	4,533	4,518	4,497	4,679	4,684	-0.5	-4.0			

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930	
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>												
BANKING AND FINANCE—Contd.												
Gold and Silver												
Gold:												
Domestic receipts at mint—fine ounces	75,955	72,009	73,745	89,694	76,786	65,547	70,520	-14.4	+8.9	317,528	388,189	+22.3
Rand output—fine ounces	882,801	818,183	889,370	868,606	916,213	872,123	897,598	+5.5	+2.1	4,327,986	4,375,178	+1.1
Monetary stock of U. S.—												
daily average—millions of dollars	4,283	4,319	4,395	4,443	4,505	4,226	4,292	+1.4	+5.0			
Imports—thous. of dollars	12,908	60,198	55,768	2 65,835	23,550	24,687	24,098	-64.2	-2.3	150,745	218,259	+44.8
Exports—thous. of dollars	8,948	207	290	2 110	82	1,594	467	-25.5	-82.4	6,499	9,637	+48.3
Silver:												
Production—												
United States—thous. of fine oz	4,753	5,161	4,998	4,627	4,375	5,422	5,080	-5.4	-13.9	25,524	23,914	-6.3
Canada—thous. of fine oz	1,716	1,225	1,714	1,705	1,584	1,151	1,560	-7.1	+1.5	7,151	7,944	+11.1
Stocks, end of month—												
United States—thous. of fine oz	535	977	338	356	348	867	1,105	-2.2	-68.5			
Canada—thous. of fine oz	1,244	1,144	496	690	844	1,032	360	+22.3	+134.4			
Imports—thous. of dollars	4,756	3,923	2 3,469	2 3,570	3,479	3,957	4,602	-2.5	-24.4	27,712	19,197	-30.7
Exports—thous. of dollars	5,892	5,331	5,818	2 4,647	4,976	5,752	7,485	+7.1	-33.5	35,910	26,664	-25.7
Price at New York—dollars per fine oz	.450	.432	.417	.424	.407	.557	.541	-4.0	-24.8			
Business Failures												
Liabilities (United States):												
Total commercial—thous. of dollars	61,185	51,326	56,846	49,059	55,541	35,270	41,216	+13.2	+34.8	200,755	273,957	+36.5
Manufacturers—thous. of dollars	19,500	20,724	19,414	19,669	23,133	10,423	18,954	+17.6	+22.0	72,959	102,440	+40.4
Trade establishments—thous. of dollars	29,814	20,909	24,293	23,427	21,285	19,102	18,191	-9.1	+17.0	104,398	119,728	+15.0
Agents and brokers—thous. of dollars	11,871	9,693	13,139	5,964	11,123	5,745	4,071	+17.2	+23.4	51,790	121,3	+21.3
Liabilities (Canada)—thous. of dollars	6,174	7,539	3,549	2,006	2,737	2,434	2 4,417	+36.4	-38.0	14,357	22,005	+53.3
Firms (United States):												
Total commercial—number	2,759	2,262	2,347	2,198	2,179	2,021	1,897	-0.9	+14.9	10,405	11,745	+12.9
Manufacturers—number	680	526	621	534	501	499	515	-6.2	-2.7	2,618	2,862	+9.3
Trade establishments—number	1,913	1,605	1,587	1,500	1,580	1,383	1,266	+5.3	+24.8	7,150	8,185	+14.5
Agents and brokers—number	136	131	139	164	148	134	116	-9.8	+27.6	637	748	+17.4
Firms (Canada)—number	265	209	198	177	188	144	2 165	+6.2	+13.9	884	1,037	+17.3
By groups:												
Manufacturers—												
Metals—number	32	36	42	42	43	34	30	+2.4	+43.3	174	195	+12.1
Textiles—number	106	58	81	61	57	52	67	-6.6	-14.9	308	363	+17.9
Lumber—number	105	94	111	106	94	87	103	-11.3	-8.7	473	510	+7.8
Chemicals—number	14	11	11	9	5	15	11	-44.4	-54.5	55	50	-9.1
Printing and engraving—number	13	17	16	15	21	16	15	+40.0	+40.0	81	82	+1.2
Foodstuffs—number	60	38	42	38	29	48	35	-23.7	-17.1	213	207	-2.8
Leather, etc.—number	18	13	11	4	14	13	15	+250.0	-6.7	73	60	-17.8
Liquors and tobacco—number	3	4	3	3	4	4	12	+33.3	-66.7	40	17	-57.5
Stone, clay, and glass—number	10	3	11	10	13	4	12	+30.0	+8.3	44	47	+6.8
All other—number	319	252	293	246	221	226	215	-10.2	+2.8	1,157	1,331	+15.0
Traders—												
General stores—number	136	94	124	108	69	88	86	-36.1	-19.8	502	531	+5.8
Foods and tobacco—number	453	376	413	386	395	446	385	+2.3	+2.6	2,183	2,023	-7.3
Clothing—number	437	366	317	270	300	228	228	+11.1	+31.6	1,286	1,690	+31.4
Household furniture—number	380	286	307	277	286	252	214	+3.2	+33.6	1,363	1,536	+12.7
Chemicals and paints—number	97	88	99	80	73	79	60	-8.7	+21.7	325	437	+34.5
Books and paper—number	11	10	13	10	18	15	13	+80.0	+38.5	67	62	-7.5
All other—number	399	385	314	369	389	280	280	+5.4	+38.9	1,424	1,856	+30.3
Life Insurance												
(Association of Life Insurance Presidents)												
Policies and certificates, new (44 companies):												
Ordinary—number of policies	254,432	267,344	330,337	310,009	294,362	284,055	293,458	-5.0	+0.3	1,329,252	1,456,484	+9.6
Industrial—number of policies	802,585	783,235	973,678	893,017	847,842	964,177	888,462	+5.1	-4.6	4,841,324	4,300,357	-11.2
Group—number of certificates	43,081	34,732	45,913	61,996	45,832	47,028	45,455	-26.1	+0.8	213,249	231,554	+8.6
Total policies and certificates—number	1,100,098	1,085,311	1,349,925	1,265,022	1,188,036	1,295,260	1,227,375	-6.1	-3.2	6,383,825	5,988,395	-6.2
Amount of new insurance (44 companies):												
Ordinary—thous. of dollars	712,855	730,735	884,535	889,531	776,394	793,786	801,698	-7.5	-3.2	3,769,113	3,944,050	+4.6
Industrial—thous. of dollars	218,027	212,813	264,415	241,129	230,083	256,279	240,501	+4.6	-4.3	1,268,381	1,166,467	-8.0
Group—thous. of dollars	64,313	59,930	73,234	113,514	91,263	72,238	109,827	-19.6	-16.9	404,122	402,254	-0.5
Total insurance—thous. of dollars	995,195	1,003,475	1,222,184	1,194,174	1,097,740	1,122,303	1,152,026	-8.1	-4.7	5,441,616	5,512,771	+1.3
Premium collections (44 companies):												
Ordinary—thous. of dollars	164,920	162,944	183,205	174,280	175,874	172,282	174,278	+0.9	+0.9	843,702	861,223	+2.1
Industrial—thous. of dollars	58,711	55,659	65,605	53,948	58,459	55,768	52,218	+8.4	+12.0	269,907	292,382	+8.3
Group—thous. of dollars	9,669	8,099	8,344	7,598	8,003	8,336	7,691	+5.3	+4.1	50,140	41,713	-16.8
Annuities—thous. of dollars	14,390	4,681	5,249	5,454	5,609	5,609	5,609	+2.8	+4.1	35,383		
Total—thous. of dollars	247,690	231,383	262,403	241,280	247,945	236,386	234,187	+2.8	+5.9	1,163,749	1,230,701	+5.8
Admitted life insurance assets (40 companies):												
Grand total—millions of dollars	14,238	14,329	14,444	14,543	14,648	13,269	13,373	+0.7	+9.5			
Mortgage loans—												
Total—millions of dollars	6,082	6,100	6,116	6,140	6,160	5,710	5,750	+0.3	+7.1			
Farm—millions of dollars	1,590	1,588	1,577	1,576	1,575	1,597	1,599	-0.1	-1.5			
All other—millions of dollars	4,492	4,512	4,539	4,564	4,585	4,113	4,151	+0.5	+10.5			
Bonds and stocks (book value):												
Total—millions of dollars	5,310	5,344	5,384	5,420	5,470	5,037	5,085	+0.9	+7.6			
Government—millions of dollars	1,058	1,062	1,061	1,065	1,064	1,017	1,033	-0.1	+3.0			
Railroad—millions of dollars	2,549	2,554	2,554	2,572	2,594	2,477	2,498	+0.9	+3.8			
Public utility—millions of dollars	1,348	1,367	1,389	1,398	1,414	1,251	1,256	+1.1	+12.6			
All other—millions of dollars	355	361	380	385	398	292	298	+3.4	+33.6			
Policy loans and premium notes—millions of dollars	1,874	1,897	1,922	1,942	1,965	1,608	1,630	+1.2	+20.6			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)	CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May		May, 1930, from April, 1930	May, 1930, from May, 1929		
BANKING AND FINANCE—Continued												
Life Insurance—Continued												
(Life Insurance Sales Research Bureau)												
Sales of ordinary life insurance:												
United States total.....thous. of dolls.	755,821	798,709	941,801	897,871	860,068	862,578	873,490	-4.2	-1.5	4,096,405	4,254,270	
Eastern manuf. dis.....thous. of dolls.	325,695	345,320	401,432	370,797	350,430	355,180	352,208	-5.5	-0.5	1,724,937	1,793,674	
Western manuf. dis.....thous. of dolls.	169,279	177,421	215,909	201,268	191,560	196,585	200,638	-4.8	-4.5	944,753	955,437	
Western agric. district.....thous. of dolls.	105,573	107,335	131,342	131,635	130,005	125,988	125,716	-1.2	+3.4	574,770	605,890	
Southern district.....thous. of dolls.	83,228	86,836	98,391	99,928	99,406	98,246	102,475	-0.5	-3.0	451,450	487,789	
Far western district.....thous. of dolls.	72,046	81,797	94,727	94,243	88,667	86,579	92,453	-5.9	-4.1	400,495	431,480	
Canada total, 15 companies.....thous. of dolls.	46,788	45,499	50,327	52,708	50,085	53,333	51,283	-5.0	-2.3	252,562	245,407	
Dividend and Interest Payments												
Grand total.....thous. of dolls.	1,120,014	517,054	608,442	744,881	570,300	678,800	² 490,400	-23.4	+16.3	3,062,945	3,560,691	
Interest payments.....thous. of dolls.	557,014	224,154	280,042	419,681	262,000	398,100	237,000	-37.6	+10.5	1,614,645	1,742,891	
Dividend payments:												
Total.....thous. of dolls.	563,000	292,900	328,400	325,200	308,300	280,700	² 253,400	-5.2	+21.7	1,448,300	1,817,800	
Industrial and misc.....thous. of dolls.	419,000	220,000	255,000	243,000	219,500	208,000	² 173,900	-9.7	+26.2	755,700	1,356,500	
Steam railroads.....thous. of dolls.	54,500	45,200	45,500	40,000	35,800	34,200	² 30,400	-10.5	+17.8	187,000	221,000	
Street railways.....thous. of dolls.	17,500	9,700	7,900	10,700	8,000	10,500	7,600	-25.2	+5.3	51,000	53,800	
New Security Issues												
Foreign loans in the U. S.....thous. of dolls.	75,000	101,000	162,000	165,000	118,000	12,457	55,326	-28.5	+113.3	332,057	621,000	
Foreign governments.....thous. of dolls.	4,000	40,000	26,000	121,675	79,781			-34.4	-	33,750	271,456	
Total corporation.....thous. of dolls.	702,179	496,209	646,326	679,703	927,376	720,829	1,313,893	+36.4	-29.4	4,921,954	3,451,793	
Purpose of issue—												
New capital.....thous. of dolls.	629,083	468,574	630,889	628,444	864,042	586,657	923,046	+37.5	-6.4	4,073,667	3,221,032	
Refunding.....thous. of dolls.	73,096	27,635	15,437	51,259	63,334	134,172	390,847	+23.6	-83.8	848,287	230,761	
Type of security—												
Stocks.....thous. of dolls.	126,813	156,143	123,388	261,830	433,640	433,307	869,271	+65.9	-50.1	5,174,326	1,101,364	
Bonds and notes.....thous. of dolls.	575,366	340,066	522,938	418,323	493,736	287,522	444,622	+18.0	+11.0	2,747,628	2,300,429	
Class of industry:												
Railroads.....thous. of dolls.	60,483	118,225	223,013	178,662	60,435	159,783	105,308	-66.2	-42.6	359,899	640,818	
Public utilities.....thous. of dolls.	492,000	172,445	228,481	130,777	604,486	127,311	342,919	+362.2	+76.3	1,214,577	1,628,189	
Industrial.....thous. of dolls.	34,595	141,395	49,931	169,229	154,845	145,118	459,215	-8.5	-66.3	1,219,985	549,995	
Oil.....thous. of dolls.	2,275	6,500	76,000	63,742	23,932	35,267	36,102	-62.5	-33.7	113,630	172,449	
Land and buildings.....thous. of dolls.	28,193	17,725	17,075	64,541	7,599	33,952	48,857	-88.2	-84.4	347,381	135,133	
Shipping and misc.....thous. of dolls.	84,634	39,119	51,226	72,752	31,080	202,572	319,290	-57.3	-2.7	1,611,250	278,811	
States and municipalities:												
Permanent loans.....thous. of dolls.	103,851	² 78,740	127,028	² 148,956	134,781	87,343	179,455	-9.5	-24.9	537,958	593,356	
Temporary loans.....thous. of dolls.	96,779	81,724	102,040	² 83,074	16,664	105,141	60,118	-79.9	-72.3	407,094	380,281	
Bond sales (Canada):												
Govt. and provincial.....thous. of dolls.	3,358	8,500	4,165	19,820	46,993	10,000	41,266	+137.1	+13.6	57,683	82,836	
Municipal.....thous. of dolls.	7,773	12,521	10,821	8,861	27,522	1,420	22,712	+210.6	+21.2	53,635	67,498	
Corporation.....thous. of dolls.	15,000	35,290	15,975	23,400	12,690	2,485	6,607	-50.0	+92.1	98,348	104,355	
Tax-exempt securities outstanding, end of month.....mills. of dolls.	19,061	19,173	19,665	² 19,781	19,907	17,329	17,437	+0.6	+14.2	-	-	
Agricultural Finances												
Loans outstanding, end mo.:												
Federal farm loan banks.....thous. of dolls.	1,195,787	1,195,735	1,194,918	1,194,324	1,194,030	1,203,724	1,204,128	0.0	-0.8	-	-	
Joint-stock land banks.....thous. of dolls.	582,062	580,148	577,195	574,392	571,885	602,421	599,413	-0.4	-4.6	-	-	
Federal intermediate credit banks.....thous. of dolls.	77,129	77,802	81,184	89,507	96,248	77,609	69,326	+7.5	+38.8	-	-	
Stocks and Bonds												
Stock prices, average daily closing:												
25 industrials, average.....dolls. per share.	204.78	315.25	328.24	349.46	327.04	357.70	363.37	-6.4	-10.0	-	-	
25 railroads, average.....dolls. per share.	126.29	131.94	131.55	131.18	128.59	128.49	128.95	-5.8	-4.2	-	-	
Southern cotton mills.....dolls. per share.	85.63	84.90	82.20	80.70	77.76	98.00	96.77	-3.6	-19.6	-	-	
103 stocks, average.....dolls. per share.	65.46	66.56	69.71	64.66	64.73	81.55	76.26	+0.1	-15.1	-	-	
Stock prices, average weekly closing:												
Industrials, rails, and utilities, (402).....rel. to 1926.	156.3	165.5	172.4	181.0	170.5	186.6	187.8	-5.8	-9.2	-	-	
All industrials (335).....rel. to 1926.	148.8	155.9	163.0	170.8	160.1	193.4	192.6	-6.3	-16.9	-	-	
All railroads (33).....rel. to 1926.	136.5	142.5	143.2	141.7	136.0	138.3	138.7	-4.0	-1.9	-	-	
All utilities (34).....rel. to 1926.	208.7	230.6	242.1	236.7	250.0	201.4	212.3	-5.2	+17.8	-	-	
Automobiles and trucks (13).....rel. to 1926.	135.0	145.0	154.9	162.0	151.7	277.6	260.5	-6.4	-41.8	-	-	
Automobile tires and rubber goods (7).....rel. to 1926.	95.9	103.7	111.1	111.1	99.4	200.3	194.4	-10.5	-48.9	-	-	
Airplane (10).....rel. to 1926.	363.3	413.8	536.8	647.1	550.3	923.0	1,147.0	-18.0	-53.8	-	-	
Agricultural implements (4).....rel. to 1926.	296.0	329.1	346.5	393.9	374.8	389.5	399.8	-4.8	-6.3	-	-	
Chain stores (17).....rel. to 1926.	102.3	100.2	99.9	101.1	96.5	148.7	148.3	-4.5	-34.9	-	-	
Copper and brass (9).....rel. to 1926.	192.8	193.3	192.8	174.3	151.0	294.0	279.8	-13.4	-46.0	-	-	
Food, other than meat (20).....rel. to 1926.	146.0	150.6	153.4	159.9	159.5	171.4	172.0	-0.3	-7.3	-	-	
Machinery and machine equipment (10).....rel. to 1926.	145.6	154.4	161.4	172.9	169.8	163.1	160.8	-1.8	+5.6	-	-	
Oil producing and refining (16).....rel. to 1926.	128.8	127.5	140.6	155.7	147.9	147.6	146.3	-5.0	+1.1	-	-	
Railroad equipment (9).....rel. to 1926.	124.1	127.9	126.4	119.8	109.7	142.4	138.2	-8.4	-20.6	-	-	
Rayon (5).....rel. to 1926.	91.2	86.1	84.5	88.0	80.9	143.2	143.4	-8.1	-43.6	-	-	
Steel and iron (9).....rel. to 1926.	177.1	187.8	191.9	² 166.4	174.1	190.8	185.3	-11.4	-6.0	-	-	
Textiles (30).....rel. to 1926.	78.3	85.0	84.7	83.2	76.7	131.5	127.0	-7.8	-39.6	-	-	
Theaters, motion pictures, and amusements (7).....rel. to 1926.	96.0	121.2	135.5	151.5	144.5	135.8	140.1	-4.6	+3.1	-	-	
Tobacco and tobacco products (10).....rel. to 1926.	139.3	152.3	159.6	157.8	158.9	136.4	139.1	+0.7	+14.2	-	-	
Traction, motor transportation, etc. (9).....rel. to 1926.	78.4	82.4	85.7	85.0	82.1	90.4	85.8	-3.4	-4.3	-	-	

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)	CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929								
	January	February	March	April	May	April	May		May, 1930, from April, 1930	May, 1930, from May, 1929									
								1929	1930										
<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>																			
BANKING AND FINANCE—Continued																			
Stocks and Bonds—Continued																			
Stock yields:																			
Total common (90).....per cent	4.38	4.14	3.99	3.78	4.02	3.35	3.37	+6.3	+19.3										
Industrial (50).....per cent	4.75	4.53	4.36	4.13	4.42	3.32	3.37	+7.0	+31.2										
Public utilities (20).....per cent	2.91	2.64	2.55	2.34	2.50	2.65	2.48	+6.8	+0.8										
Railroads (20).....per cent	5.03	4.80	4.78	4.84	5.03	4.68	4.79	+3.9	+5.0										
Preferred high grade industrial (20).....per cent	5.53	5.52	5.48	5.46	5.48	5.45	5.45	+0.4	+0.6										
Stock sales, N. Y. Stock Exch., thous. of shares	62,308	68,723	96,552	126,910	78,040	82,600	91,283	-38.5	-14.5	468,318	432,533								
Bond sales:																			
Miscellaneous.....thous. of dollars	201,400	195,046	335,934	264,898	220,131	205,649	225,716	-16.9	-2.5	1,042,805	1,217,409								
Liberty-Treasury.....thous. of dollars	7,975	8,136	15,222	9,731	7,064	9,970	8,851	-27.4	-20.2	54,246	48,128								
Total.....thous. of dollars	209,375	203,182	351,156	274,629	227,195	215,619	234,567	-17.3	-3.1	1,097,051	1,265,537								
Bond prices:																			
Highest-grade rails—p. ct. of par, 4% bond	89.52	88.81	90.52	89.81	90.42	88.05	87.81	+0.7	+3.0										
Second-grade rails—p. ct. of par, 4% bond	82.39	82.66	84.73	84.32	84.49	79.27	79.13	+0.2	+6.8										
Public utility—p. ct. of par, 4% bond	73.45	74.10	75.63	75.76	75.36	76.19	75.03	-0.5	+0.4										
Industrial—p. ct. of par, 4% bond	74.49	74.59	76.06	76.64	76.35	77.47	76.51	-0.4	-0.2										
Comb. price index—p. ct. of par, 4% bond	79.44	79.58	81.27	81.23	81.20	80.00	79.33	0.0	+2.4										
Bond prices, 1st of following month:																			
5 Liberty bonds—p. ct. of par	103.08	103.87	104.53	104.16	104.92	101.75	100.24	+0.7	+4.7										
50 Domestic bonds—p. ct. of par	97.90	98.16	99.20	98.87	99.23	98.25	96.79	+0.4	+2.5										
40 Representative issues—p. ct. of par	89.74	90.88	93.88	91.97	92.01														
Bond yields:																			
Total, 60 high grade.....per cent	4.64	4.65	4.55	4.54	4.54	4.69	4.69	0.0	-3.2										
Railroads (15).....per cent	4.51	4.53	4.43	4.47	4.45	4.59	4.58	-0.4	-2.8										
Industrials (15).....per cent	5.04	5.02	4.95	4.91	4.92	5.02	5.06	+0.2	-2.8										
Utilities (15).....per cent	4.79	4.79	4.71	4.69	4.68	4.85	4.85	-0.2	-3.5										
Municipal (15).....per cent	4.23	4.24	4.12	4.11	4.11	4.23	4.23	0.0	-2.8										
Municipal bond yield (20).....per cent	4.29	4.27	4.15	4.17	4.18	4.25	4.30	+0.2	-2.8										
U. S. Treasury notes and certificates, 3-6 months.....per cent	3.39	3.36	2.95	3.00	2.41	4.80	5.09	-19.7	-52.7										
Liberty and Treasury bonds.....per cent	3.51	3.50	3.40	3.46	3.41	3.67	3.67	-1.4	-7.1										
Long-term and real-estate bonds issued:																			
Grand total.....thous. of dollars	23,363	15,290	11,350	27,435	3,813	21,711	22,868	-86.1	-83.3	208,124	81,251								
Purpose of issue:																			
Finance construction.....thous. of dollars	17,500	3,050	4,740	8,295	88	12,962	8,720	-98.9	-99.0	67,487	33,673								
Real-estate mortgage.....thous. of dollars	2,075	3,205	1,360	180	2,025	4,529	4,148	-51.2	59,409	8,845	-85.1								
Acquisitions and improvements.....thous. of dollars	750	200	850	5,000	100	2,000	2,275	-98.0	-95.6	42,625	6,900								
Kind of structure:																			
Office and commercial.....thous. of dollars	17,225	8,800	5,130	7,685	1,943	5,390	4,760	-74.7	-59.2	51,725	40,783								
Hotels.....thous. of dollars	690		110	500		7,810	2,900	+354.5	-82.8	13,360	1,300								
Apartments.....thous. of dollars	235		385	5,000		1,722	1,855			10,067	5,620								
Interest rates.....per cent	6.10	6.01	6.00	6.13	5.93	5.90	6.11	-3.3	-2.9										
FOREIGN EXCHANGE RATES																			
Europe:																			
England.....dollars per £ sterling	4.87	4.86	4.86	4.86	4.86	4.85	4.85	0.0	+0.2										
France.....dollars per franc	.039	.039	.039	.039	.039	.039	.039	0.0	0.0										
Italy.....dollars per lira	.052	.052	.052	.052	.052	.052	.052	0.0	0.0										
Belgium.....dollars per franc	.139	.139	.139	.140	.140	.139	.139	0.0	+0.7										
Netherlands.....dollars per guilder	.402	.401	.401	.402	.402	.401	.402	0.0	0.0										
Sweden.....dollars per krona	.269	.268	.269	.268	.268	.267	.267	-0.4	+0.4										
Switzerland.....dollars per franc	.194	.193	.194	.194	.194	.193	.193	0.0	+0.5										
Asia:																			
Japan.....dollars per yen	.491	.491	.493	.494	.494	.446	.447	0.0	+10.5										
India.....dollars per rupee	.363	.362	.361	.361	.361	.363	.362	0.0	-0.3										
America:																			
Canada.....dollars per Canadian dollar	.989	.992	.998	1.000	.998	.992	.993	-0.2	+0.5										
Argentina.....dollars per gold peso	.913	.865	.856	.886	.872	.956	.955	-1.6	-8.7										
Brazil.....dollars per milreis	.111	.112	.115	.117	.118	.118	.119	+0.9	-0.8										
Chile.....dollars per paper peso	.121	.120	.121	.121	.121	.121	.120	0.0	+0.8										
U. S. FOREIGN TRADE																			
Imports																			
Grand total.....thous. of dollars	310,968	281,707	2,300,460	2,307,824	284,644	410,666	400,149	-7.5	-28.9	1,932,972	1,485,603								
By grand divisions:																			
Europe:																			
Total.....thous. of dollars	88,783	84,616	87,726	93,004		113,942	113,791			3,435,237	3,354,129								
France.....thous. of dollars	10,831	10,442	9,852	10,194		11,432	13,954			* 53,444	* 41,319								
Germany.....thous. of dollars	17,667	16,029	18,663	17,300		24,426	20,627			* 86,066	* 69,659								
Italy.....thous. of dollars	7,770	6,685	6,821	8,698		9,819	10,375			* 35,631	* 39,974								
United Kingdom.....thous. of dollars	18,163	20,014	21,194	24,513		29,978	29,762			* 114,464	* 83,884								
North America—																			
Total.....thous. of dollars	68,784	61,494	70,636	72,088		93,639	92,363			* 348,099	* 273,002								
Canada.....thous. of dollars	37,394	33,289	38,431	36,339		40,395	44,330			* 159,367	* 145,453								
South America—																			
Total.....thous. of dollars	44,035	46,488	48,669	47,591		61,284	53,628			* 240,060	* 186,783								
Argentina.....thous. of dollars	6,572	9,453	12,175	12,226		13,063	9,172			* 45,765	* 40,426								
Asia and Oceania—																			
Total.....thous. of dollars	97,712	83,471	87,154	87,260		124,500	130,059			* 463,605	* 355,597								
Japan.....thous. of dollars	31,106	28,110	23,205	24,433		28,819	33,828			* 135,421	* 106,854								
Africa, total.....thous. of dollars	11,653	5,721	6,280	7,385		17,300	10,308			* 45,821	* 31,039								
By economic classes:																			
Crude materials.....thous. of dollars	109,026	98,581	101,685	2,105,568	86,743	146,932	141,739	-17.8	-38.8	707,359	501,594								
Foodstuffs, crude and food animals.....thous. of dollars	39,375	39,394	40,136	2,38,597	34,744	52,172	46,561	-10.0	-25.4	245,541	192,246								
Manufactured foodstuffs.....thous. of dollars	23,933	20,414	26,933	2,31,078	41,571	45,919	42,290	+33.8	-1.8	198,075	143,930								
Semimanufactures.....thous. of dollars	68,022	59,034	62,692	2,61,789	53,154	82,264	85,875	-14.0	-38.1	379,125	304,691								
Finished manufactures.....thous. of dollars	70,613	2,64,284	2,69,014	2,70,791	68,431	83,379	83,684	-3.3	-18.2	402,871	343,142								

TREND OF BUSINESS MOVEMENTS—Continued

<i>The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1930, "Survey"</i>	1930					1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JANUARY 1 THROUGH MAY 31		Per cent increase (+) or decrease (-) cumulative 1930 from 1929	
	January	February	March	April	May	April	May	May, 1930, from April, 1930	May, 1930, from May, 1929	1929	1930		
U. S. FOREIGN TRADE—Continued													
Exports													
Grand total, including reexports.....thous. of dolls..													
Total	411,314	348,962	369,624	331,843	322,000	425,264	384,855	-3.0	-16.3	2,230,742	1,783,743	-20.0	
By grand division:													
Europe—													
Total	207,209	169,282	174,764	142,159	142,159	172,188	146,025			3 819,857	3 693,414	-15.4	
France	25,216	20,877	21,396	16,855	16,855	19,444	13,248			3 94,741	3 84,344	-11.0	
Germany	31,391	21,997	27,129	18,960	18,960	26,537	23,927			3 135,019	3 99,477	-26.3	
Italy	11,390	11,116	10,518	8,915	8,915	13,065	9,771			3 56,829	3 41,039	-26.2	
United Kingdom	79,351	59,442	58,076	46,713	46,713	59,289	54,431			3 294,947	3 243,582	-17.4	
North America—													
Total	88,911	90,507	100,359	98,486	98,486	128,038	132,897			3 476,318	3 378,263	-20.6	
Canada	54,162	57,696	66,565	63,997	63,997	91,928	97,905			3 324,251	3 242,420	-25.2	
South America—													
Total	37,481	28,236	31,292	30,608	30,608	44,384	35,552			3 202,462	3 127,617	-37.0	
Argentina	13,919	10,638	11,637	12,012	12,012	15,874	13,886			3 73,760	3 48,206	-34.6	
Asia and Oceania—													
Total	67,357	51,995	53,730	52,780	52,780	69,498	61,540			3 299,891	3 225,862	-24.7	
Japan	23,997	15,018	15,637	18,325	18,325	20,579	17,380			3 92,251	3 72,977	-20.9	
Africa, total.....thous. of dolls..	10,357	8,943	9,479	7,820	7,820	11,156	8,541			3 46,358	3 36,599	-21.0	
By economic classes:													
Total domestic exports only.thous. of dolls..	404,377	342,964	363,162	326,544	326,544	312,021	418,051	377,083	-4.4	-17.3	2,191,757	1,749,068	-20.2
Crude materials.....thous. of dolls..	103,907	67,711	70,429	52,416	52,416	71,255	57,412	-22.2	-29.0	428,067	335,244	-21.7	
Foodstuffs, crude and													
food animals.....thous. of dolls..	17,711	2 13,254	9,325	2 9,356	9,356	12,448	15,810	21,212	+33.0	-41.3	112,402	62,093	-44.8
Manufactured foodstuffs.....thous. of dolls..	39,839	33,520	34,373	27,719	27,719	30,363	37,447	35,922	+9.5	-15.5	203,548	165,814	-18.5
Semimanufactures.....thous. of dolls..	50,784	45,304	2 49,094	2 47,783	47,783	49,949	65,413	59,820	+4.5	-16.5	320,788	242,014	-24.3
Finished manufactures.....thous. of dolls..	102,136	183,176	2 199,942	2 189,269	189,269	178,481	228,126	202,717	-5.7	-12.0	1,126,954	943,003	-16.3
Agricultural exports (quantities):													
All commodities.....rel. to 1910-1914..	113	79	82	65	65	56	86	79	-13.8	-29.1			
All commodities except													
cotton.....rel. to 1910-1914..	123	105	98	83	83	90	112	122	+8.4	-26.2			
CANADIAN FOREIGN TRADE													
Total trade:													
Imports.....thous. of dolls..	84,910	80,922	112,991	71,402	101,545	97,517	125,615	+47.8	-19.2	552,420	451,770	-18.2	
Exports.....thous. of dolls..	75,369	2 68,150	91,692	52,508	79,464	67,154	109,436	+51.3	-27.4	475,218	367,183	-22.7	

² Revised.³ Cumulative through Apr. 30.

PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

Aviation—Air Commerce Bulletin. Issued 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.

—**Airports in Latin America.** II+80 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 69.) This bulletin deals with the developments in aviation in the various Latin American countries, showing their physical peculiarities and the location of airports. Price, 10c.

Bureau of Standards Journal of Research. Published monthly and contains the papers formerly issued as Scientific and Technical Papers series which have been discontinued. The articles in the journal are known as the Research Papers series and are issued separately after publication in the journal. Single copies, 1st annual subscription, 22.75.

Calorimetry of a Fluid. by Nathan S. Osborne. (Bureau of Standards. Research Paper No. 182.) Reprint from Bureau of Standards Journal of Research, vol. 4, May, 1920, pp. 600-629. Description of apparatus used and experiments performed to determine the thermal behavior of fluids. Price, 10c.

Chemicals and drugs. **The Spectrum of Bromine and Its Structure.** by C. C. Kiess and T. L. deBruin. (Bureau of Standards. Research Paper No. 192.) Reprint from Bureau of Standards Journal of Research, vol. 4, May, 1920, pp. 637-657, 1 illustration, 3 pages of plates. Price, 10c.

Coal—Coal in 1928. by F. G. Tyron, O. E. Klossing, and L. Meier. (Bureau of Mines. Mineral Resources of United States, 1928, Pt. II, pp. 301-505, 5 tables, 18 charts.) Report on the activities of the coal industry during 1928. Price, 30c.

Commercial standards. **Men's Palms (Made from Woven Fabrics).** IV+12 pages, illustrations. (Bureau of Standards. Commercial Standard CS-5-29.) Price, 5c.

Confectionery Distribution in United States. by Rupert L. Parish. IV+24 pages. (Bureau of Foreign and Domestic Commerce. Domestic Commerce Series No. 21.) Study of trends in confectionery sales, methods of distribution, consumption, sales, economic factors, and foreign trade of the United States in this product. Price, 10c.

Credit—Credit Extension and Causes of Failure Among Philadelphia Grocers. II+12 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 710.) Study of credit conditions and causes of failure among grocery retailers in Philadelphia. Price, 10c.

—**National Retail Credit Survey: Part II.** IV+48 pages. (Bureau of Foreign and Domestic Commerce. Domestic Commerce Series No. 54.) Study of credit extensions by different classes of business, showing credit losses, collection, use of credit bureaus, and collection percentages. Price, 10c.

—**National Retail Credit Survey: Part III.** Including Summary Tables. IV+56 pages. (Bureau of Foreign and Domestic Commerce. Domestic Commerce Series No. 69.) Study of kinds and extent of credit business of different classes of stores, showing losses, returns and allowances, terms granted on installment sales, and collection percentages. Price, 10c.

Finance—Balance of International Payments of United States in 1928. by Bay Hall, with foreword by R. P. Lamont, Secretary of Commerce. VII+74 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 69.) A brief review is given of the trade of the United States for 1928. There is a discussion of freight payments and receipts, tourist expenditures abroad, immigrant remittances, American investments abroad, yield of foreign investments in the United States, war debt payments by foreign countries to the United States, and gold and silver exports and imports. A statement is made regarding the purpose and methods of balance of payments. Price, 10c.

Gas Analysis Pipette for Difficult Absorptions. by Martin Sharpless. (Bureau of Standards. Research Paper No. 177.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1920, pp. 747-759, 2 charts. Price, 5c.

Gases—Apparatus and Method for Determining Compressibility of Gas and Correction for Supercompressibility. by Henry R. Four. (Bureau of Standards. Research Paper No. 178.) Reprint from Bureau of Standards Journal of Research, vol. 4, May, 1920, pp. 645-671, 3 charts. Price, 5c.

Iron and Steel—Influence Properties of Some Special Ball Steels. by John F. Prokes and R. D. France. (Bureau of Standards. Research Paper No. 182.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1920, pp. 681-694, 12 charts. Results of experiments to determine the influence properties of different kinds of ball steels. Price, 10c.

Light—Light Scattering in Liquids. by H. M. James and William V. Megaw. (Bureau of Standards. Research Paper No. 183.) Reprint from Bureau of Standards Journal of Research, vol. 4, May, 1920, pp. 711-735, 1 illustration, 5 pages of plates. Price, 10c.

Machinery—Knitted Garment Machinery in Philadelphia. VI+56 pages. (Bureau of Foreign and Domestic Commerce. Domestic Commerce Series No. 26.) Study of the equipment in 21 factories producing women's knitting suits, golf knits, and other knit apparel. An appendix contains summary and detail tables. Price, 10c.

Marine standards. **Sheave Couplings for Ship Propeller Shafts, Solid and Split Types.** compiled and translated by American Marine Standards Committee. 11 pages, illustrations. (Bureau of Standards. American Marine Standard E. No. 20-1920 and E. No. 20-1920.) Price, 5c.

Marriage and Divorce, 1928. Statistics of Marriages, Divorces, and Annulments of Marriage. Seventh Annual Report. IV+10 pages. (Bureau of the Census.) Price, 10c.

Metals and minerals—Copper in 1928. by R. W. Davies. (Bureau of Mines. Mineral Resources of United States, 1928, Pt. II, pp. 337-372.) This publication shows the production, consumption, and stocks of and trade in copper during 1928. Price, 10c.

—**Chemistry of Lead-Zinc Chalcocite.** by John D. Sullivan. II+24 pages, 2 pages of plates, 2 charts. (Bureau of Mines. Technical Paper 174.) Data on experiments in the dissolution of chalcocite. Price, 10c.

—**Fluorite and Cryolite in 1928.** by Hubert W. Davis. (Bureau of Mines. Mineral Resources of United States, 1928, Pt. II, pp. 383-414.) Data on fluorite production, consumption, and trade of the United States; world production of this mineral; and cryolite. Price, 10c.

—**Gold, Silver, Copper, Lead, and Zinc in Montana in 1928.** by C. N. Gerke. (Bureau of Mines. Mineral Resources of United States, 1928, Pt. I, pp. 343-561.) Price, 10c.

—**Gold, Silver, Copper, Lead, and Zinc in New Mexico and Texas in 1928.** by Charles W. Henderson. (Bureau of Mines. Mineral Resources of United States, 1928, Pt. I, pp. 362-381.) Price, 10c.

—**Industries in Copper Leaching Employing Ferric Sulphate-Sulphuric Acid.** by Harrison E. Keyes. IV+17 pages, 4 illustrations, 3 pages of plates, 10 charts. (Bureau of Mines. Publication 511.) Discussion of results of experiments to develop a rapid and efficient method for leaching copper. A bibliography is included. Price, 10c.

—**On Modified Method for Decomposing Aluminous Silicates for Chemical Analysis.** by A. N. Ross and J. P. Kotzka. (Bureau of Standards. Research Paper No. 180.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1920, pp. 560-575. Price, 5c.

CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

R. P. LAMONT, Secretary of Commerce

JULIUS KLEIN, Assistant Secretary of Commerce.

EPHRAIM F. MORGAN, Solicitor

AERONAUTICS BRANCH

CLARENCE M. YOUNG, Assistant Secretary of Commerce for Aeronautics

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

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WILLIAM M. STUART, Director

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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

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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

GEOGRAPHIC N. BUSHNELL, Director

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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

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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

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BUREAU OF LIGHTHOUSES

GEORGE R. PUTNAM, Commissioner

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

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COAST AND GEODETIC SURVEY

RAYMOND S. PATTON, Director

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BUREAU OF NAVIGATION

ARTHUR J. TREEB, Commissioner

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

STEAMBOAT INSPECTION SERVICE

DICKINSON N. HOOVER, Supervising Inspector General

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

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THOMAS E. ROBERTSON, Commissioner

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

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

RADIO DIVISION

W. D. TURNBULL, Chief

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