

UNITED STATES
DEPARTMENT OF COMMERCE
WASHINGTON

SURVEY OF CURRENT BUSINESS

APRIL, 1930

No. 104



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BUREAU OF THE CENSUS

IMPORTANT NOTICE

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

INTRODUCTION

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

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

WEEKLY SUPPLEMENT

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

RELATIVE AND INDEX NUMBERS

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

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

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

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

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

RATIO CHARTS

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

RECORD BOOK

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

METHODS OF USE

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

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



SURVEY OF CURRENT BUSINESS



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UNITED STATES DEPARTMENT OF COMMERCE

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No. 104

WASHINGTON

April, 1930

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PRELIMINARY SUMMARY FOR MARCH

The volume of commercial transactions during March, as based upon weekly check payments, was lower than in March, 1929. Activity in steel plants declined from the previous month and was also lower than during the corresponding month of last year.

Factory employment in Detroit showed an improvement over the previous month but was substantially lower than a year ago. The output of crude petroleum was slightly smaller than during either the previous month or the corresponding month of last year.

Movement of goods through primary channels, as reflected by data on car loadings, was practically the same as during the previous month but smaller than a year ago. The volume of new-building contracts awarded during March was much larger than during the previous month and was also larger than during March, 1929.

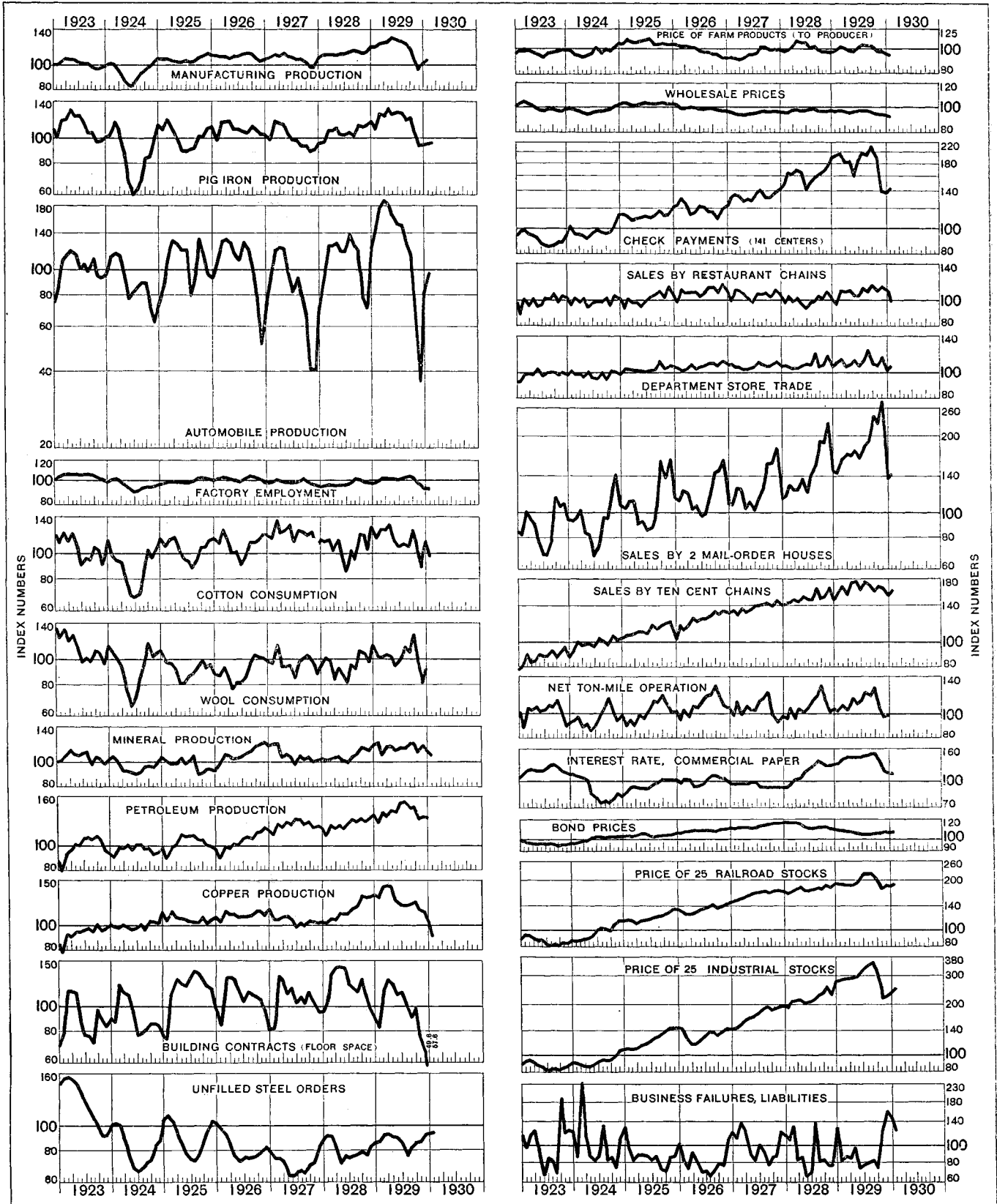
The general index of wholesale prices was lower

than for either the previous month or for March, 1929. Prices for wheat declined continuously during the month of March and were lower than during the corresponding month of last year. Cotton and iron prices also showed slight declines in both periods.

Bank loans and discounts showed little change from the previous month and were slightly larger than a year ago. Interest rates were lower than during either the previous month or the corresponding month of last year. Brokers' loans gradually increased during the month but were much smaller than a year ago. Prices for stocks and bonds continued their upward trend, the latter reaching a higher level than during March, 1929, or any of the intervening months. Business failures were somewhat fewer than during corresponding weeks of February but more numerous than a year ago.

MONTHLY BUSINESS INDICATORS, 1923-1930

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



MONTHLY BUSINESS INDICATORS

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

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

ITEM	MONTHLY AVERAGE							1929												1930	
	1923	1924	1925	1926	1927	1928	1929	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
1923-1925 monthly average=100																					
Industrial production:																					
• Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	117.0	120.0	123.0	124.0	128.0	125.0	124.0	122.0	117.0	105.0	96.0	102.0	105.0	
• Total minerals.....	105.0	96.0	99.0	107.0	107.0	106.0	115.0	120.0	107.0	115.0	116.0	112.0	114.0	115.0	118.0	118.0	110.0	116.0	112.0	107.0	
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	107.3	124.3	122.6	130.5	124.4	126.7	125.7	117.1	120.1	106.5	94.9	94.0	95.0	
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.6	125.1	146.3	142.8	152.5	141.2	139.9	142.5	130.5	130.5	101.6	83.8	109.5	117.7	
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	141.1	177.1	188.1	182.9	165.1	151.5	150.8	125.8	114.9	65.8	36.3	82.6	98.0	
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	68.6	80.2	110.6	129.9	135.2	139.3	149.5	138.6	134.6	113.1	90.2	68.4	65.7	
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	115.9	101.2	123.1	130.3	111.1	106.6	108.7	106.3	124.9	106.0	88.4	112.5	96.5	
Wool (consumption).....	112.8	94.6	92.6	86.7	97.0	94.7	103.1	101.3	102.7	103.8	102.9	93.0	99.8	111.1	105.0	125.3	98.5	79.8	92.1	80.9	
Raw material output:																					
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	80.0	88.0	99.7	108.9	111.8	116.0	100.0	98.7	102.6	95.2	93.0	94.7	84.7	
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	81.9	72.5	57.4	51.1	56.3	91.1	134.5	177.1	246.3	154.6	139.2	78.7	62.7	
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	74.0	86.0	90.2	98.6	89.9	88.3	91.8	80.3	89.2	82.0	69.6	63.3	61.8	
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	123.3	134.4	130.5	137.5	135.9	148.8	150.3	142.2	143.5	127.3	130.9	122.2	110.6	
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	100.5	110.0	90.3	84.7	92.2	87.4	93.3	100.7	102.2	117.6	104.9	107.5	114.3	90.8	
Copper.....	93.4	100.2	106.4	110.2	104.9	114.9	127.1	128.5	142.1	143.9	141.6	124.9	120.1	119.6	120.4	125.2	115.1	113.4	102.9	90.3	
Power and construction:																					
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.7	148.1	159.3	157.1	161.2	154.9	159.8	166.6	160.7	173.6	164.4	169.8	172.6	152.0	
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	81.9	117.1	128.0	122.4	109.7	113.7	100.5	90.2	98.9	76.9	66.3	49.6	57.6	
Unfilled orders:																					
General index.....	121.7	87.0	91.3	84.5	74.0	76.2	80.8	79.5	85.5	93.1	88.4	83.4	82.1	76.0	76.8	76.8	73.7	77.7	79.9	79.8	
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	86.8	92.4	92.7	90.1	89.2	85.6	76.6	81.7	85.6	86.4	92.5	93.6	93.8	
Stocks:																					
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	137.7	134.0	129.9	122.8	120.2	121.8	127.2	139.2	154.8	156.5	158.0	150.8	146.9	
Manfd. commodities (23).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	127.3	124.2	121.5	120.4	121.1	120.3	115.7	113.8	113.9	115.6	118.9	121.5	123.0	
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	149.5	130.5	109.9	88.4	70.9	54.2	58.2	106.8	177.5	199.8	206.4	192.5	177.4	
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	48.8	46.8	50.8	62.2	73.4	86.3	92.2	83.7	78.1	111.7	151.3	179.7	206.0	
Employment:																					
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	99.7	101.3	101.8	101.6	101.2	100.7	102.0	103.4	102.1	98.2	94.8	92.9	92.9	
Prices:																					
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	98.6	101.4	100.0	98.6	97.8	101.4	103.6	102.2	101.4	98.6	97.8	97.1	94.9	
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	96.0	96.8	96.1	95.1	95.7	97.3	97.0	96.8	95.6	93.7	93.5	92.8	91.5	
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	103.2	102.2	101.3	102.4	103.4	105.9	107.0	107.4	107.2	106.7	105.6	103.8	102.2	
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	98.2	97.6	97.0	97.0	97.6	98.8	99.4	99.4	99.4	99.3	98.7	97.4	96.8	
Distribution (values):																					
• Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	153.2	184.5	194.3	195.1	180.6	180.5	159.0	184.8	198.2	192.8	211.1	190.0	139.8	136.7	144.4	
• Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	110.0	113.0	105.0	107.0	112.0	106.0	112.0	123.0	109.0	107.0	115.0	102.0	107.0	
• Mail-order sales, 2 houses.....	89.2	98.1	112.7	120.2	126.2	147.6	187.2	141.8	163.3	170.0	168.2	176.4	163.0	183.7	192.8	242.3	225.3	275.2	138.0	140.7	
• 10-cent chains, sales.....	88.0	99.0	113.0	126.0	138.0	150.0	164.0	156.9	167.4	153.0	172.0	174.0	162.0	174.0	168.0	159.0	166.0	165.0	152.0	162.0	
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	112.7	128.2	121.1	121.0	109.3	109.1	110.0	114.5	133.5	122.0	153.3	120.9	111.3	
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	114.4	118.8	127.1	123.9	109.4	109.6	114.3	108.8	121.1	104.8	96.1	96.3	87.0	
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	115.2	116.4	129.0	112.2	101.4	103.6	106.2	100.4	115.3	139.6	116.5	112.4	108.3	92.4	
Transportation:																					
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	102.2	107.8	102.7	112.6	109.1	112.5	120.4	118.5	128.1	103.8	96.6	98.3	-----	
Finance:																					
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	130.6	132.4	131.3	129.3	135.1	136.2	135.3	139.1	151.1	141.3	140.9	133.1	131.1	
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	127.6	136.4	139.2	139.2	139.2	139.2	142.2	145.0	145.0	133.4	116.0	113.2	110.2	
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	90.5	92.6	94.9	96.5	94.4	96.4	97.7	94.2	89.9	93.0	90.2	101.4	102.1	
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	109.6	108.0	107.6	106.7	105.4	104.9	104.1	103.9	105.2	105.0	107.1	106.8	107.0	
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.5	194.3	188.3	184.9	183.7	184.4	192.1	213.4	216.3	217.7	203.5	176.2	181.4	180.6	188.6	
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	280.3	283.7	285.8	290.3	297.8	330.8	344.5	358.5	316.3	219.4	229.3	235.5	251.9	
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	80.3	85.7	83.2	97.2	74.0	76.5	79.6	80.5	73.9	122.8	159.1	144.3	121.1	

* Seasonal adjustments.

BUSINESS CONDITIONS IN FEBRUARY

PRODUCTION

Manufacturing output in February, after adjustments for the usual seasonal changes, was on a higher level than during the previous month but showed a decline from a year ago. All major groups showed increases over January, with the exception of textiles, food products, leather and shoes and nonferrous metals, while tobacco production showed no change. As compared with February, 1929, all the groups, except tobacco, showed a decline in output. Mineral production, after adjustments for seasonal variations, showed a lower output than in either the previous month or the corresponding month of last year. All groups participated in the decline for both prior periods, with

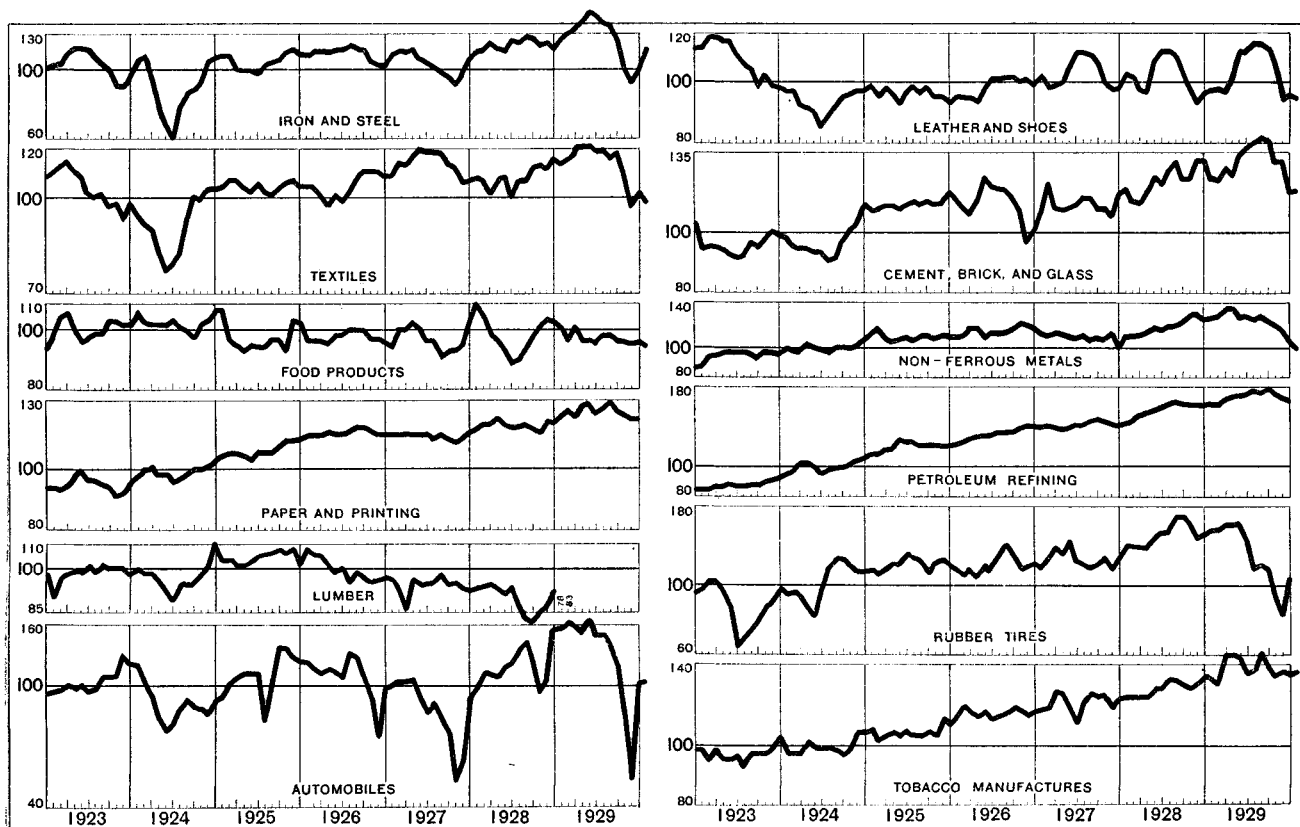
SALES

The general index of unfilled orders for manufactured goods at the end of February showed no change over either the preceding month and the corresponding month of 1929. As compared with the preceding month, advances in orders for lumber more than offset declines in textiles and iron and steel, and transportation equipment.

Wholesale trade showed a smaller sales volume in February than for the corresponding month of last year, declines being registered in meats, dry goods, shoes, hardware, drugs, and silk goods, while sales of groceries remained practically the same. Retail trade, as reflected by the volume of sales reported by the two principal mail-order houses, while showing an improve-

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



the exception of bituminous coal for which the output remained the same as in January. The largest decline from a year ago appeared in the case of copper which was 30 per cent lower than in February, 1929.

COMMODITY STOCKS

The weighted index of commodity stocks showed a slight decline from the previous month but was higher than a year ago, the increase over last year being entirely due to larger stocks of raw materials. Manufactured goods in the hands of manufacturers at the end of February, while slightly larger than at the end of the previous month, were lower than at the end of February, 1929.

ment from the previous month, was less than a year ago. Chain-store trade was substantially greater than for either prior period. Department-store sales, on the other hand, after adjustments for seasonal considerations, were at a lower level than for either the previous month or the corresponding month of last year, almost all of the departments participating in this decline.

Imports of merchandise into the United States during February were substantially less than during either the previous month or the corresponding month of last year, all classes participating in the decline from February, 1929, while only imports of food stuffs exceeded those for the previous month.

PRICES

The general index of wholesale prices was lower in February than in either the preceding month or the corresponding month of last year. All groups included within the index showed declines from both periods except metals, building materials, and miscellaneous goods for which the prices were unchanged from the previous month, and household furnishing goods for which the prices were unchanged for either prior period. The largest declines from last year were registered in prices for textile products, farm products, hide and leather products and chemicals for which decreases ranged from 4 to 8 per cent. Classified by the condition of manufacture the general index, with

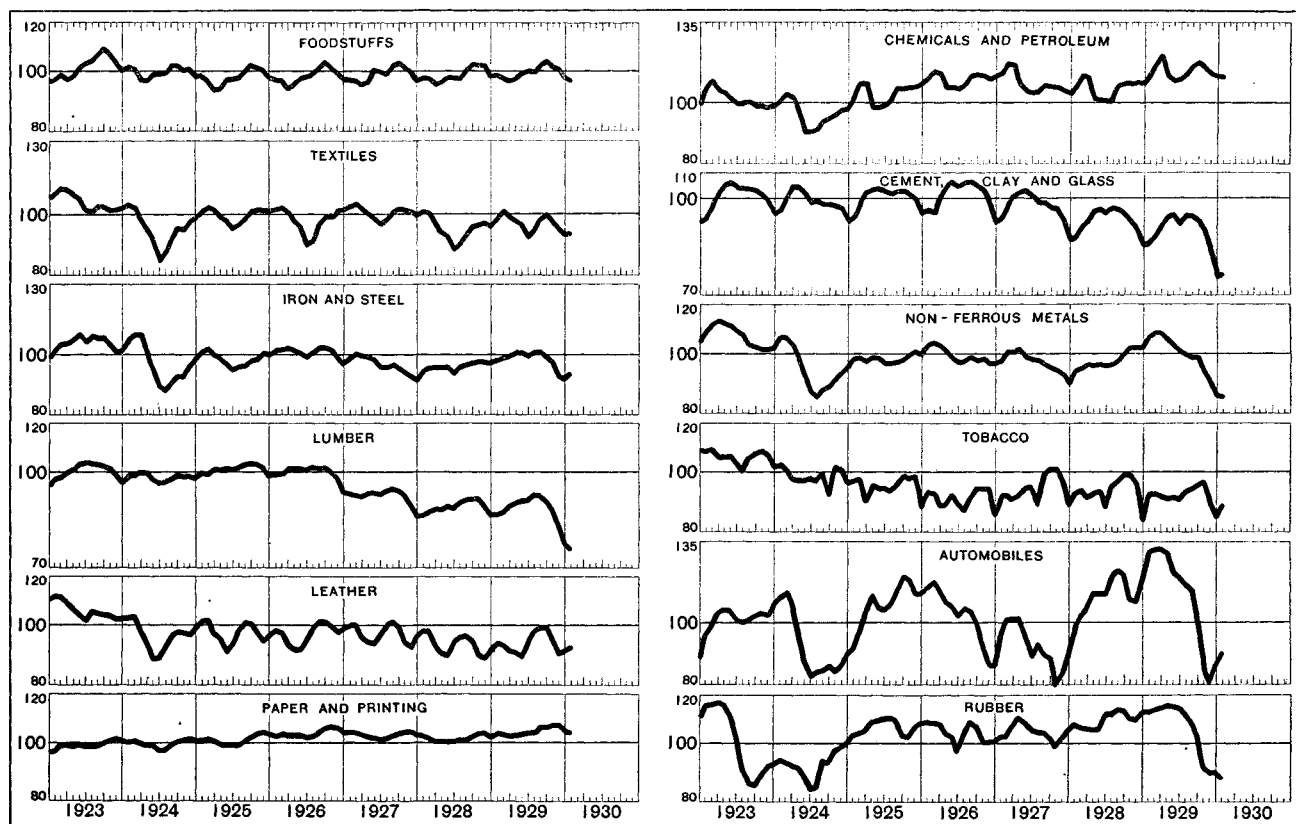
and vegetables and meat animals were insufficient to offset lower prices for grains, poultry and dairy products, and cotton and cottonseed.

EMPLOYMENT

Factory employment in February, as measured by the general index, while showing no change from the preceding month was 7 per cent lower than a year ago. As compared with the previous month, employment in factories producing automobiles, iron and steel, leather and leather products, and tobacco showed sufficient increases to offset declines in those producing machinery, paper and printing, lumber, nonferrous metals, chemicals, and rubber products. Contrasted with a year ago, the only gains in employment were in

FACTORY EMPLOYMENT, BY GROUPS

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



a decline of 5 per cent from a year ago, showed a decrease of 6 per cent in raw materials and 5 per cent in semimanufactured articles, while prices of finished products and nonagricultural commodities which showed a decline of 3 per cent. Commercial indexes also showed declines from both the preceding month and February, 1929.

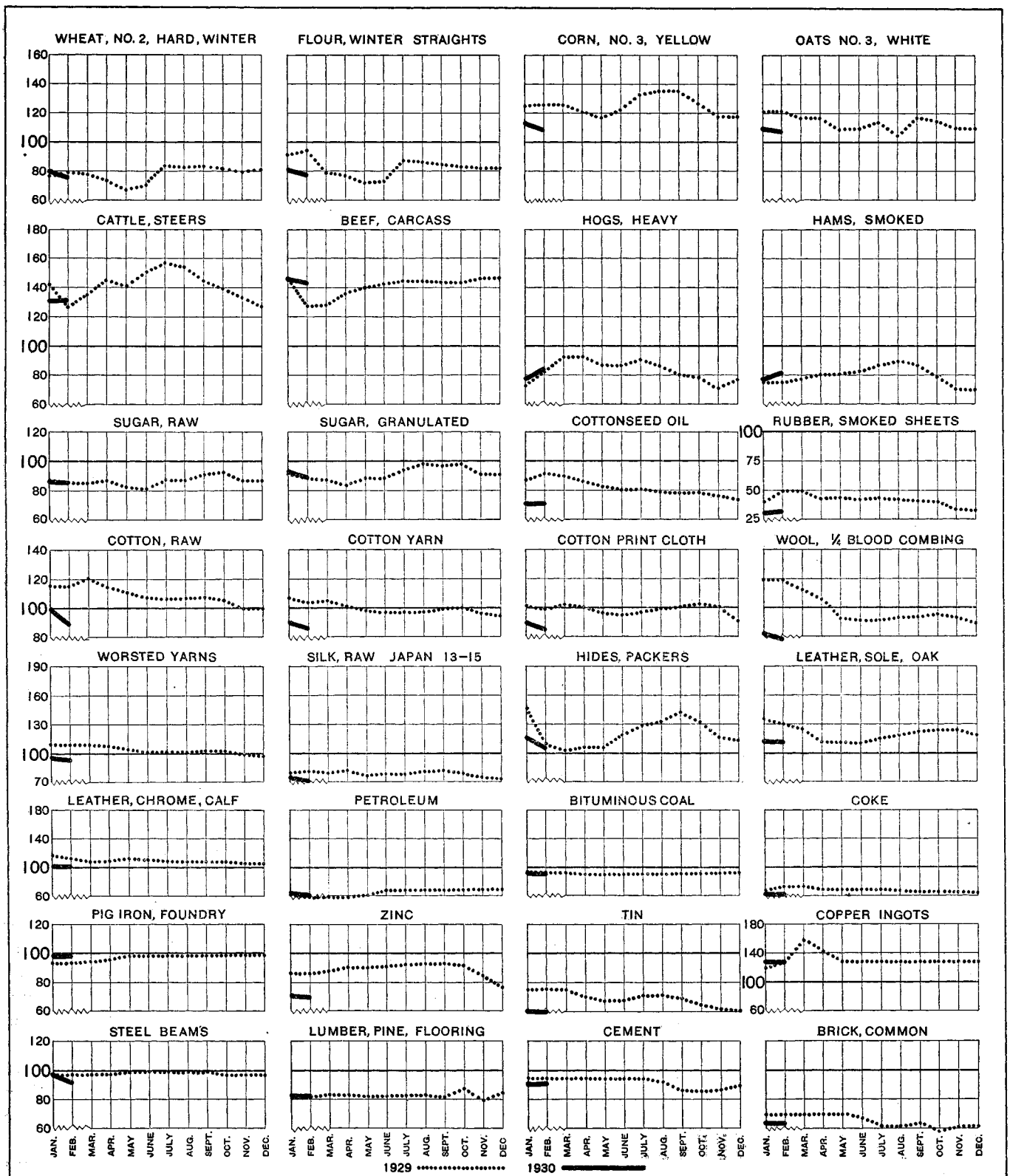
Prices paid to farmers for their products, as reflected in the general index, were lower than for either the previous month or for February, 1929. Compared with a year ago, a substantial gain in prices paid for fruits and vegetables was more than offset by declines in each of the other groups, except meat animals for which the price remained unchanged. As compared with the preceding month, gains in the prices for fruits

lumber mills and petroleum refineries, all other types of factories registering declines. The largest declines in employment from a year ago were recorded in automobile, rubber, nonferrous metals, lumber, and cement, clay and glass factories which showed declines of from 12 to 31 per cent.

Factory pay-roll payments in February were 3 per cent greater than in January but 10 per cent less than in February of last year. The only decline from the previous month was in the food-products group, while the paper, lumber, and nonferrous metal groups showed no change from January. Compared with a year ago, all groups, except paper and printing establishments and petroleum refineries, showed declines in pay-roll payments.

WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



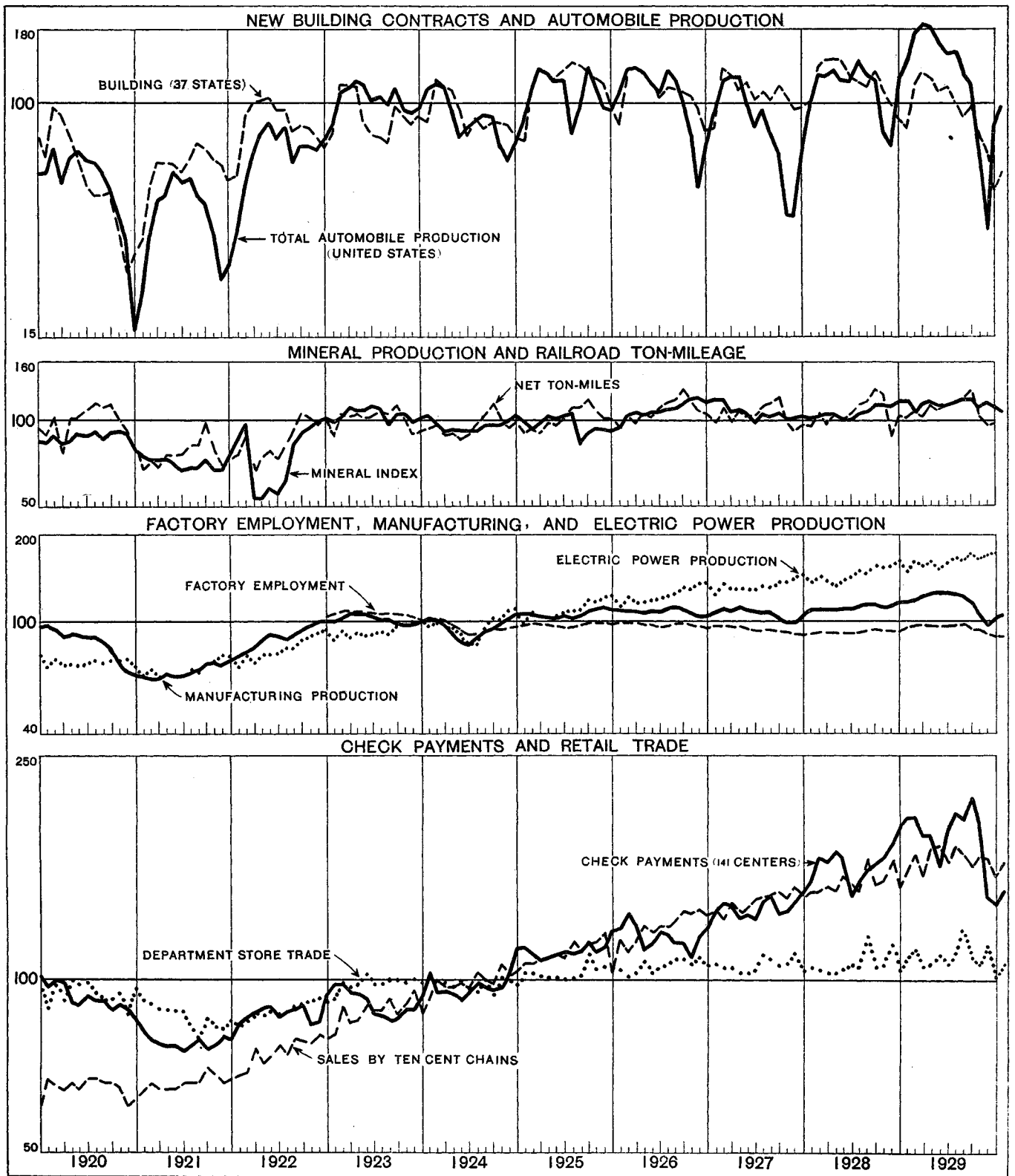
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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					
		January, 1930	February, 1930	February, 1929	1926 average=100					
					December, 1929	January, 1930	February, 1930	January, 1929	February, 1929	
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER										
Wheat.....	Bushel.....	1.075	1.013	1.042	80	80	75	73	77	
Corn.....	Bushel.....	.773	.774	.868	112	111	111	115	124	
Potatoes.....	Bushel.....	1.378	1.391	.595	73	74	75	32	32	
Cotton.....	Pound.....	.158	.148	.180	106	105	98	119	119	
Cottonseed.....	Ton.....	28.95	28.89	38.73	111	106	106	140	142	
Cattle, beef.....	Pound.....	.0869	.0868	.0889	131	135	134	140	138	
Hogs.....	Pound.....	.0880	.0948	.0888	72	75	80	69	75	
Lambs.....	Pound.....	.1110	.1046	.1260	93	96	90	106	109	
FARM PRODUCTS—MARKET PRICE										
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	1.27	1.25	1.28	83	80	79	77	81	
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	1.34	1.23	1.40	87	86	79	92	90	
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	1.19	1.14	1.18	81	80	77	77	79	
Corn, No. 3, yellow (Chicago).....	Bushel.....	.85	.82	.94	117	113	109	124	125	
Oats, No. 3, white (Chicago).....	Bushel.....	.45	.44	.50	110	110	107	122	122	
Barley, No. 2 (Minneapolis).....	Bushel.....	.58	.57	.70	92	91	89	103	109	
Rye, No. 2 (Minneapolis).....	Bushel.....	.91	.78	1.05	107	99	85	110	114	
Cotton, middling upland (New York).....	Pound.....	.173	.157	.202	99	99	90	115	115	
Wool, 1/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.38	.36	.55	89	83	78	120	120	
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	12.469	12.531	12.063	127	131	132	142	127	
Hogs, heavy (Chicago).....	Cwt.....	9.613	10.406	10.125	77	78	84	74	82	
Sheep, ewes (Chicago).....	Cwt.....	6.263	5.175	7.719	75	95	79	127	117	
Sheep, lambs (Chicago).....	Cwt.....	12.675	10.438	15.594	88	93	76	114	114	
FOOD										
Flour, standard patents (Minneapolis).....	Barrel.....	6.750	6.388	6.813	82	80	76	75	81	
Flour, winter straights (Kansas City).....	Barrel.....	5.844	5.631	5.725	82	81	78	76	79	
Sugar, 96° centrifugal (New York).....	Pound.....	.037	.037	.037	87	86	86	88	86	
Sugar, granulated, in barrels (New York).....	Pound.....	.051	.049	.049	91	93	90	92	89	
Cottonseed oil, prime yellow (New York).....	Pound.....	.084	.084	.109	74	71	71	87	92	
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.240	.236	.209	146	146	144	146	127	
Beef, fresh, carcass, steers (New York).....	Pound.....	.235	.223	.215	138	138	130	144	126	
Pork, smoked hams (Chicago).....	Pound.....	.239	.252	.231	70	78	82	76	75	
Butter, creamery, 92 score (New York).....	Pound.....	.37	.36	.50	91	82	80	107	111	
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.....	.323	.310	.372	95	90	87	107	104	
Cotton-print cloth 64 x 60-33 1/2"-5.35-yards to pound.....	Yard.....	.068	.065	.075	92	90	86	101	100	
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.083	.079	.089	91	89	85	97	96	
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.375	1.350	1.575	98	96	94	110	110	
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.975	.975	.975	94	94	94	94	94	
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.838	1.800	2.008	95	92	90	100	100	
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.959	1.949	41.959	90	90	90	92	90	
Silk, Japan, 13-15.....	Pound.....	4.630	4.433	5.096	74	75	72	81	82	
Hosiery, women's pure silk, mill.....	Dozen pair.....	9.000	9.000	9.500	78	78	78	82	82	
LEATHER										
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.163	.148	.153	114	116	106	146	109	
Hides, calskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.176	.164	.171	101	102	95	126	98	
Leather, chrome calf, dull or bright "B" grades (Boston).....	Square foot.....	.460	.460	.510	106	102	102	117	113	
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.495	.490	.570	119	113	112	135	130	
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.....	3.969	3.951	4.029	92	92	92	94	93	
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.476	4.450	4.592	94	93	93	95	96	
Coal, anthracite, chestnut (composite price).....	Long ton.....	13.033	13.033	13.107	94	95	95	95	95	
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton.....	2.588	2.600	2.963	64	63	63	67	72	
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.229	1.181	1.110	69	65	63	63	59	
METALS										
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	20.260	20.260	19.260	98	98	98	93	93	
Pig iron, basic, valley furnace.....	Long ton.....	18.500	18.500	17.500	100	100	100	94	94	
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	34.000	33.000	33.250	99	97	94	94	95	
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1778	.1778	.1773	129	129	129	120	128	
Brass, sheets, mill.....	Pound.....	.233	.233	.224	122	122	122	112	118	
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0625	.0624	.0685	74	74	74	79	81	
Tin, straits (New York).....	Pound.....	.3891	.3867	.4937	61	60	59	75	76	
Zinc, slab, western (St. Louis).....	Pound.....	.0523	.0518	.0635	77	71	71	87	87	
BUILDING MATERIAL AND MISCELLANEOUS										
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	37.220	37.390	36.890	84	83	83	81	82	
Brick, common red, domestic building (New York).....	Thousand.....	10.500	10.500	11.500	61	64	64	70	70	
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.576	1.617	1.650	89	90	93	90	95	
Steel beams, mill (Pittsburgh).....	Cwt.....	1.900	1.800	1.900	97	97	92	97	97	
Rubber, smoked sheets (New York).....	Pound.....	.150	.158	.239	33	31	33	41	49	
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15.500	15.500	107	107	107	107	107	
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3.250	3.250	94	94	94	94	94	

MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

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



REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

TEXTILES

Imports of wool during February were smaller than during either the previous month or the corresponding month of last year. Wool consumption was smaller than during either prior period. Prices for wool and yarns averaged lower than in either the previous month or the same month of last year.

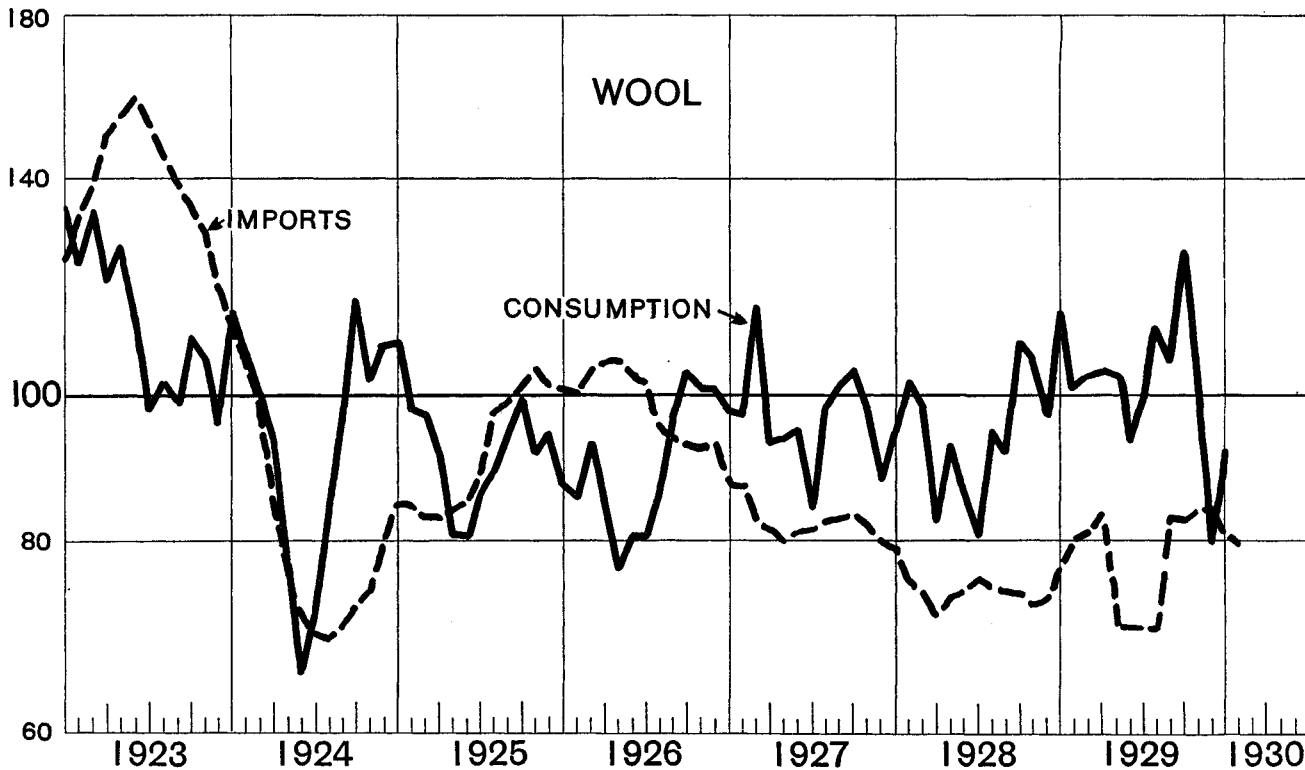
Exports of cotton during February declined seasonally from the previous month and were substantially smaller than a year ago. Consumption of cotton by domestic mills also declined from both prior periods. Stocks of cotton held at the end of February at mills

Cotton finishers reported larger billings than during the previous month, although fewer than during February, 1929. New orders and shipments, however, were smaller than during either prior period, while stocks of finished goods, in the hands of finishers, at the end of February were lower than at the end of the previous month or the corresponding month of last year.

Imports of silk were slightly smaller than during either the previous month or the corresponding month of 1929. Silk deliveries to consuming establishments were smaller than during January but larger than a year ago. Stocks of silk at warehouses at the end 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 in public storage were substantially greater than a year ago. Cotton prices were lower in February than in either the previous month or the same period of 1929.

Cotton machinery showed a decline in activity in February as compared with both prior periods. The production and shipments of cotton textiles were also smaller than during either the previous month or the corresponding month of last year. Stocks of cotton textiles at the end of February, on the other hand, were considerably larger than a year ago.

February were considerably greater than a year ago. Silk looms and spindles were more active during February than in either the preceding month or the corresponding month of last year. Prices for raw silks ranged lower than during either prior period.

Rayon imports were lower than in either prior period. Rayon prices showed no change from the preceding month but were lower than a year ago. Shipments of pyroxylin-coated textiles were almost as great as during the previous month but much smaller than during February, 1929.

METALS

The production of pig iron in February exceeded that of the previous month but was 11 per cent smaller than during February, 1929. More furnaces were in blast at the end of the month than at the end of January but a decline was registered from a year ago.

The production of steel ingots was substantially greater than during the previous month but declined from a year ago. Unfilled steel orders at the end of February were larger than at the end of either the previous month or of February, 1929.

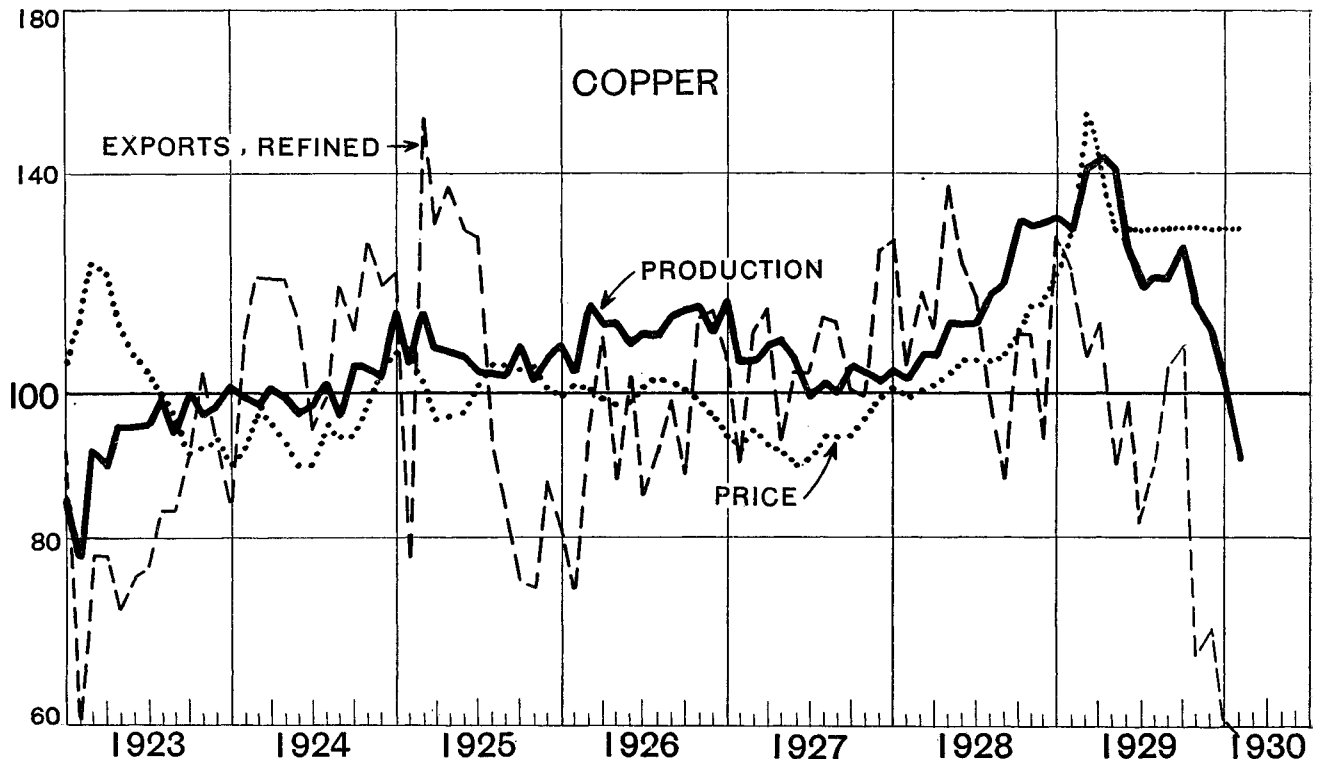
The output of steel sheets by independent mills was smaller than in January due entirely to the shorter month, the ratio of production to capacity showing an

and shipments of steel barrels, on the other hand, were substantially greater than during either the previous month or February, 1929. New orders for steel boilers were smaller both in number and in the area of their heating surface than during either the previous month or the corresponding month of last year. Shipments of cold-finished steel bars were larger than in January but showed a decline from a year ago. Iron and steel exports were smaller than during either prior period.

Shipments of all types enameled-iron sanitary ware were larger than during the previous month but smaller than a year ago, while new orders for lavatories and sinks were greater than both prior periods. New

COPPER PRODUCTION, EXPORTS AND STOCKS

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



increase; the steel sheet output, however, was substantially lower than during February, 1929. Stocks of sheets, in the hands of manufacturers at the end of the month, were greater than a year ago, while unfilled orders declined. Wholesale prices for steel averaged lower during February than during either prior period.

The production of steel castings was only slightly less than during the previous month and was substantially larger than a year ago. The malleable-casting output, on the other hand, exceeded that for January but was smaller than during February, 1929. New orders for both steel and malleable castings were larger than during the previous month but smaller than a year ago.

New orders for fabricated-steel plate were considerably smaller than for either prior period. Production

orders for foundry equipment were considerably larger than during January and almost as great as in February, 1929. Sales of mechanical stokers were likewise greater than during the previous month but somewhat smaller than a year ago.

The production of copper and zinc was smaller than during either the previous month or the corresponding month of last year. The output of lead, on the other hand, exceeded that of either prior period. Stocks of refined copper and zinc were substantially greater than at the end of January or the corresponding month of 1929. Copper prices were unchanged from the previous month and were slightly higher than a year ago. Prices for zinc and lead, on the other hand, showed fractionally declines from the previous month and were considerably lower than during February, 1929.

FUELS

Production of bituminous coal declined seasonally and was also smaller than during February of last year. Exports showed a decline from both prior periods. The output of anthracite coal was also smaller than during either the previous month or the corresponding month of last year. Bituminous-coal prices declined from both prior periods. Anthracite-coal prices, on the other hand, were unchanged from the previous month and only slightly lower than a year ago. Production of coke, both bee-hive and by-product, was smaller than during either the previous month or the corresponding month of last year. Exports of coke were also lower than in either period.

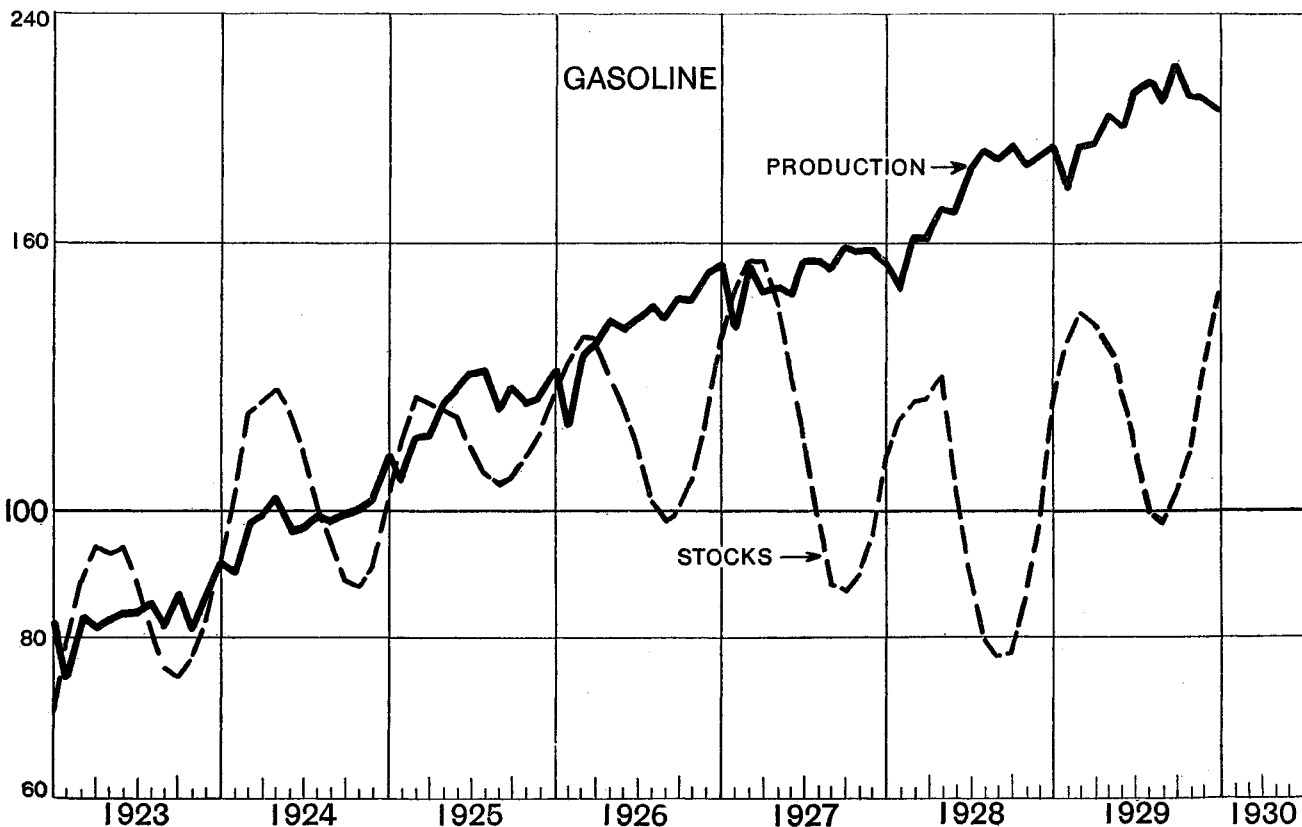
Production of pneumatic tires was slightly larger than during the previous month.

HIDES AND LEATHER

Imports of hides and skins were smaller than during the previous month but substantially greater than in February, 1929. Production of sole leather also declined from the previous month but was larger than a year ago. Exports of sole and upper leather were smaller than during either prior period. Prices of hides and leather were generally smaller than during either the previous month or February, 1929. Production of shoes, despite the shorter month, was only slightly smaller than in January. Shoe production also declined from the corresponding month of 1929,

PRODUCTION AND STOCKS OF GASOLINE

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



AUTOMOBILES AND RUBBER

Automobile production in February showed a seasonal increase over the previous month but was 30 per cent lower than a year ago. The Canadian output showed a similar comparison with both periods, the decline from last year's level being even greater than in the United States. Domestic exports from the United States were lower than in either prior period, an increase from January in exports of passenger cars being more than offset by a decline in exports of trucks. Canadian exports were larger than in January but much smaller than a year ago.

Imports of rubber were smaller than during either the previous month or the corresponding month of last year. Rubber stocks both in the producing countries and in the United States, on the other hand, were considerably larger than during either prior period.

exports likewise being lower than for either prior period. Shoe prices were unchanged from either the previous month or February, 1929.

PAPER AND PRINTING

Imports of wood pulp were, in most instances, greater than during the previous month and in every instance greater than a year ago. The domestic production of newsprint paper was smaller than in January due largely to the fewer working days but exceeded that for February, 1929. The Canadian output showed a similar trend. Stocks of newsprint at the end of February were slightly larger than at the end of the previous month but considerably smaller than a year ago. Canadian stocks, however, exceeded those at the end of either prior period and publishers' stocks while smaller than at the end of January were larger than a year ago.

BUILDING AND CONSTRUCTION

Building contracts awarded during February were smaller than during either the preceding month or the corresponding month of last year. Building costs showed only slight changes from either prior period. Fire losses in the United States and Canada were smaller than during either the previous month or the corresponding month of last year.

LUMBER

Production of lumber was generally lower than in either the previous month or the corresponding month of last year, slight increases for January being recorded in the case of California white pine and northern

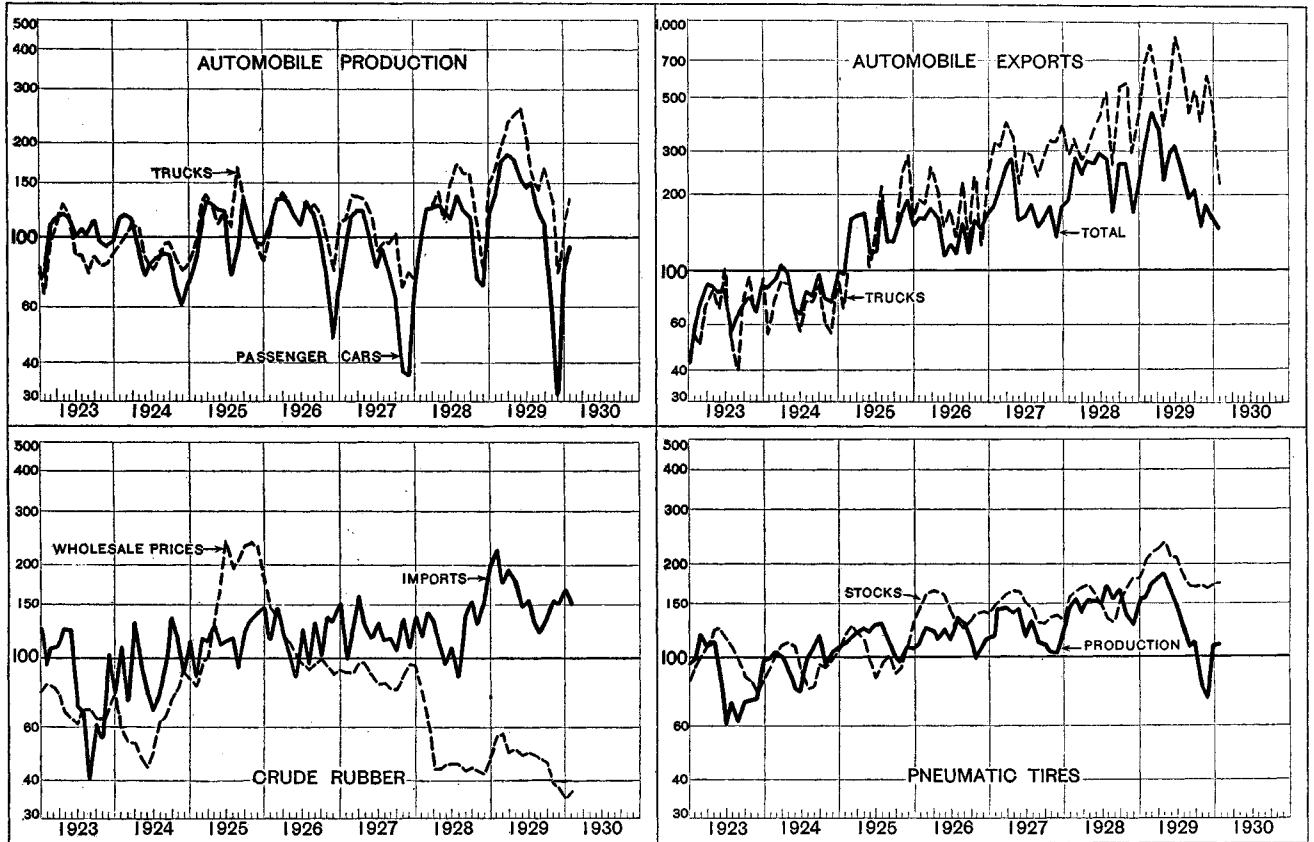
also smaller than for either prior period, but shipments of oak flooring exceeded those in January and were almost as great as during the corresponding month of 1929. Stocks of maple flooring were greater and those for oak flooring smaller than those for either prior period, while new orders of both types showed declines both from the previous month and the corresponding month of last year.

STONE, CLAY, AND GLASS PRODUCTS

Shipments of common brick were substantially larger than during the previous month and a year ago. Stocks and unfilled orders exceeded those at the end of either prior period. Prices were

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



pine, while the output of California redwood exceeded that of a year ago. Lumber shipments, on the other hand, were generally larger than during the previous month but smaller than a year ago, declines from January taking place only in the case of northern hemlock and walnut, while only California redwood was shipped in larger quantities than in February, 1929. Unfilled orders for lumber were smaller than during either prior period, except in the case of California, redwood for which the unfilled orders were larger than at the end of the previous month.

The output of flooring was less than during the previous month, that of maple flooring also being less than a year ago. Shipments of maple flooring were

the same as in January but lower than a year ago.

New orders and shipments of porcelain-plumbing fixtures were considerably less than during either of the previous month or of February, 1929. Unfilled orders were slightly larger than during the previous month but less than a year ago, while stocks were at a lower level than at the end of either prior period.

New orders for terra cotta were considerably smaller than during either the previous month or the corresponding month of 1929. The production of plate glass likewise declined from both prior periods. Production of roofing felt was smaller than during either the previous month or February, 1929, while stocks exceeded those at the end of either prior period.

FOODSTUFFS

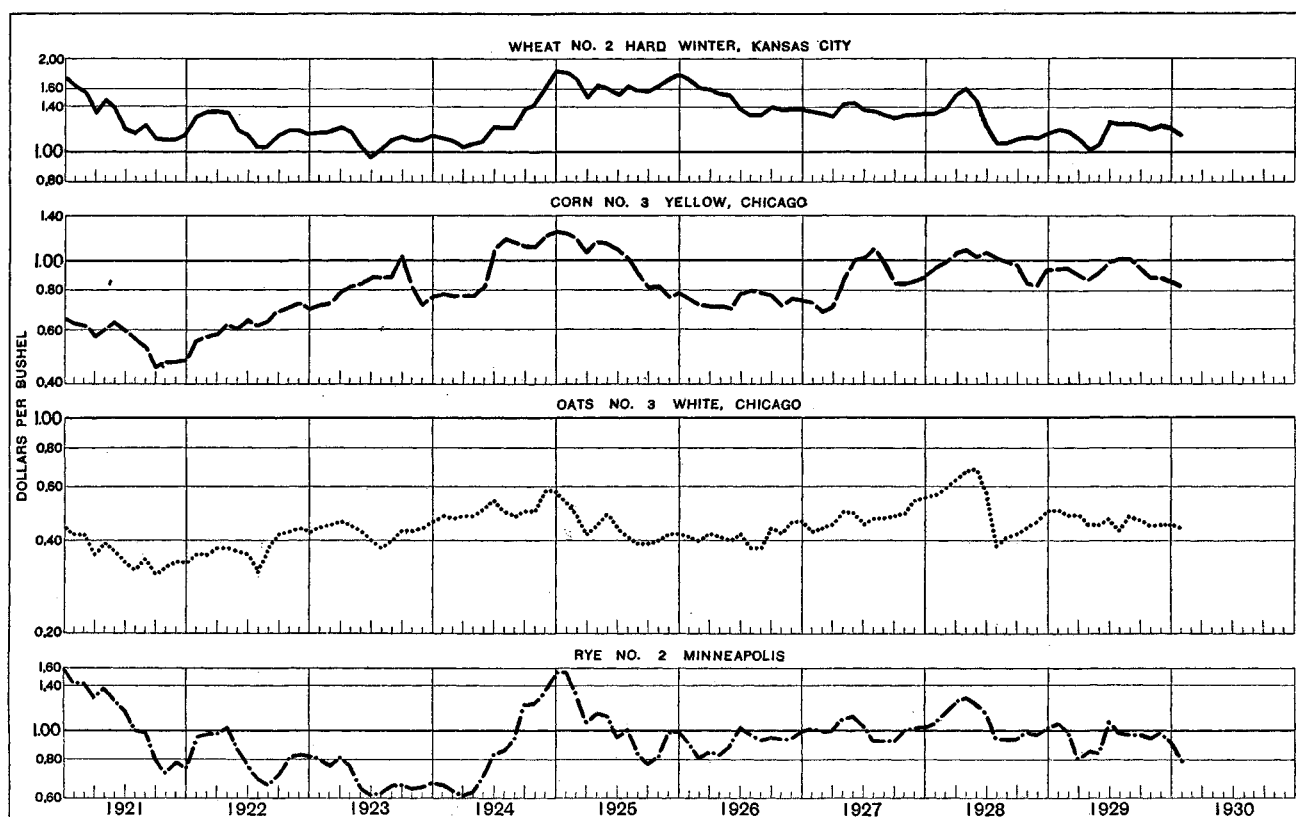
The visible supply of wheat in the United States and Canada at the end of February declined seasonally from the previous month but considerably exceeded the supply at the end of February, 1929. Wheat receipts, while somewhat larger than during January, were considerably less than a year ago, shipments being less than for either prior period. Exports of wheat from the United States declined from the previous month but were substantially greater than a year ago. Exports of Canadian wheat, on the other hand, were larger than in January and less than for the corresponding month of 1929. Wheat prices declined from both prior periods.

beef, under Federal inspection, was less than for either prior period and cold-storage holdings, although greater than February, 1929, were less than at the end of the previous month. Beef prices were uniformly higher than a year ago.

Receipts of hogs at the primary markets were smaller than during either the previous month or the corresponding month of 1929. The output of pork, under Government inspection, was also less than for either prior period. Cold-storage holdings of pork, while 15 per cent larger than at the end of January, were 20 per cent less than a year ago. Prices showed uniform advances both from the previous month and from February, 1929.

MOVEMENT OF GRAIN PRICES

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



The visible supply of corn was substantially greater than at the end of the previous month but less than a year ago. Receipts and shipments of corn at the principal markets were less than in January and practically the same as during the corresponding month of last year. Corn prices declined from both prior periods. The visible supply of barley exceeded that at the end of January but was less than a year ago. The visible supply of oats, on the other hand, declined from the previous month but exceeded that of February, 1929.

Receipts of cattle and calves at the principal markets, while less than during January, were larger than for the corresponding month of last year. The output of

Receipts of sheep, while slightly less than during the previous month, were greater than a year ago, local slaughter showing a similar tendency. Cold-storage holdings at the end of February were greater than at the end of either prior period, and prices showed a corresponding decline both from January and from the corresponding month of last year. Receipts of poultry declined seasonally from the previous month but were larger than at the end of February, 1929, cold-storage holdings showing a similar trend.

Receipts of butter were slightly less than during either the previous month or during February, 1929. Cold-storage holdings, while continuing to decline seasonally, were almost three times as large as a year ago.

As an apparent result of the large holdings, butter prices continued to decline, being 28 per cent lower than in February of last year.

Cheese receipts were slightly lower than during either the previous month or February, 1929. Cold-storage holdings were also lower than at the end of either prior period. Receipts of eggs were larger and cold-storage holdings smaller than for February of last year.

Sugar imports from foreign countries were smaller and those from Hawaii and Porto Rico larger than for either the previous month or the corresponding month of last year, the total imports being larger than in January but smaller than a year ago. Sugar stocks at refineries continued to decline but were 50 per cent greater than at the end of February, 1929. Prices were generally slightly less than for either prior period. The visible supply of coffee was larger than at the end of either prior period. Imports also exceeded those both for the previous month and February, 1929. Coffee prices were fractionally higher than during January but continued far below last year's price level.

TRANSPORTATION

Freight-car loadings showed a gain over the previous month's total, all classes except livestock, fuel, and ore participating in the increase. Car loadings were substantially less than a year ago, however, each of the classes of commodities showing smaller loadings than in February, 1929. Clearances of vessels engaged in foreign trade were smaller than during the previous month but larger than a year ago. Unfilled orders for railway locomotives, while less than at the end of January, continued well above last year's level. New contracts for concrete pavements exceeded those of the previous month, and their area was more than double that for February, 1929.

DISTRIBUTION MOVEMENT

Sales by mail-order houses were slightly larger than in January and slightly less than a year ago. Sales by 10-cent chain stores, on the other hand, were greater than for either prior period. Magazine adver-

tising exceeded that of the previous month but was slightly less than a year ago. Newspaper advertising, on the other hand, was less than for either prior period. Postal receipts at the 100 largest cities were less than during either the previous month or the corresponding month of last year.

BANKING AND FINANCE

Check payments both inside and outside New York City were smaller than during either the previous month or the corresponding month of 1929. Loans and discounts of Federal reserve member banks continued to decline from recent levels but exceeded those at the end of February, 1929. Brokers' loans, while much less than a year ago, were larger than for any month since October, 1929. Except for 90-day time loans, interest rates were generally lower during February than during the previous month and were almost uniformly lower than a year ago.

GOLD, SILVER, AND FOREIGN EXCHANGE

Receipts of domestic gold at the mint, while less than in January, were considerably greater than a year ago. The Rand output also declined from January but was fractionally greater than during the corresponding month of 1929. Gold imports during February greatly exceeded those for either prior period.

Silver production both in the United States and Canada was smaller than during the previous month, that of the United States being smaller and that of Canada greater than during February, 1929. Silver imports and exports were smaller than for either prior period, while stocks of silver in the United States were considerably greater than at the end of either the previous month or the corresponding month of last year. The prices of silver showed a corresponding decline from both prior periods.

Rates for foreign exchange were generally lower than during the previous month, the only exception being in rates with Canada and Brazil. As compared with a year ago, on the other hand, rates with England, Sweden, Switzerland, and Japan showed increases, while rates with India, Canada, and South American countries declined.

INDEXES OF BUSINESS

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

Relative to 1923-1925 monthly average as 100	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929				1930		PER CENT INCREASE (+) OR DECREASE (-)	
			January	February	November	December	January	February	February, 1930, from January, 1930	February, 1930, from February, 1929
PRODUCTION										
TOTAL INDUSTRIAL										
Unadjusted, except for working days.....	125	81	116	120	108	95	103	108	+4.8	-10.0
Adjusted for seasonal variations.....	123	83	117	117	106	99	103	105	+1.9	-10.3
MANUFACTURING										
Total (adjusted for working days only).....	127	79	116	120	107	92	102	109	+6.9	-9.2
Total (adjusted for seasonal variations).....	128	82	117	116	105	96	102	105	+2.9	-9.5
Iron and steel.....	155	59	117	126	100	90	99	118	+19.2	-6.3
Textiles.....	121	77	116	113	108	96	103	98	-2.6	-13.3
Food products.....	110	90	103	101	96	95	96	94	-2.1	-6.9
Paper and printing.....	128	91	123	123	123	120	120			
Lumber.....	110	78	89	79						
Automobiles.....	166	47	150	148	81	49	102	103	+1.0	-30.4
Leather and shoes.....	134	86	95	98	105	93	95	94	-1.1	-4.1
Cement, brick, and glass.....	143	92	134	128	130	113	116	117	+0.9	-8.6
Nonferrous metals.....	137	87	124	123	119	114	105	99	-5.7	-19.5
Petroleum refining.....	178	84	159	160	171	166	163			
Rubber tires.....	169	66	148	152	93	80	107			
Tobacco manufactures.....	143	93	131	129	130	133	131	131	0.0	+1.6
MINERALS										
Total (adjusted for working days only).....	128	84	113	116	113	110	107	103	-3.7	-11.2
Total (adjusted for seasonal variations).....	120	90	117	120	109	116	112	107	-4.5	-10.8
Bituminous coal.....	125	77	103	110	96	102	99	99	0.0	-10.0
Anthracite coal.....	133	1	110	110	92	121	106	102	-3.8	-7.3
Crude petroleum.....	147	88	137	137	131	132	132	130	-1.5	-5.1
Iron-ore shipments.....	143	0			98					
Copper.....	139	82	129	136	118	116	101	95	-5.9	-30.1
Zinc.....	127	93	100	106	105	102	103	99		-6.6
Lead.....	125	75	111	99	114	105	92			
Silver.....	123	85	94	91	114	87	91			
ANIMAL PRODUCTS (Marketings)										
Total.....	124	79	96	80	95	93	95	84	-11.6	+5.0
Wool.....	421	14	34	14	63	70	49	38	-22.4	+171.4
Livestock.....	131	76	102	78	96	90	98	81	-17.3	+3.8
Poultry and eggs.....	148	67	85	67	128	137	89	85	-4.5	+26.9
Dairy products.....	160	64	95	88	81	84	92	87	-5.4	-1.1
Fish.....	283	44	87	138	154	102	135	135	+14.8	-12.3
CROPS (Marketings)										
Total.....	252	45	113	82	155	128	79	63	-20.3	-23.2
Grains *.....	218	38	100	95	69	90	79	81	+2.5	-14.7
Vegetables *.....	199	60	94	96	91	77	89	93	+4.5	-3.1
Fruits *.....	266	43	72	69	93	53	53	55	+3.8	-20.3
Cotton products *.....	373	11	100	55	234	183	76	41	-46.1	-25.5
Miscellaneous crops *.....	344	18	243	136	296	179	107	66	-38.3	-51.5

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

INDEXES OF BUSINESS—Continued

Relative to 1923-1925 monthly average as 100	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929				1930		PER CENT INCREASE (+) OR DECREASE (-)	
			January	February	November	December	January	February	February, 1930, from January, 1930	February, 1930, from February, 1929
PRODUCTION—Continued										
FOREST PRODUCTS										
Total.....	112	62	82	75	81	70	63	62	-1.6	-17.3
Lumber.....	112	59	78	75	77	65	59	59	0.0	-21.3
Pulpwood.....	151	54	123	93	113	100	106	90	-15.1	-3.2
Gum (rosin and turpentine)*.....	204	18	41	26	142	127	48	27	-43.8	+3.8
Distilled wood.....	148	65	104	99	101	100	104	86	-17.3	-13.1
NEW ORDERS										
Total.....	138	72	99	98	73	72	95	88		
Textiles.....	179	70	105	99	89	73	88			
Iron and steel.....	143	71	135	132	81	101	118			
Lumber.....	141	50	80	78	63	52	50			
Paper and printing.....	118	85	111	113	104	92	111			
Stone and clay products.....	129	73	87	93	84	73	73			
STOCKS										
Grand total.....	158	82	139	138	157	158	151	147	-2.6	+6.5
Total manufactured goods.....	125	88	127	127	116	119	122	123	+0.8	-3.1
Foodstuffs.....	136	79	107	111	104	110	105	108	+2.9	-2.7
Textiles.....	138	78	127	127	121	131	125	118	-5.6	-7.1
Iron and steel.....	158	78	152	150	134	135	147	158	+7.5	+5.3
Nonferrous metals.....	181	74	124	117	148	169	180	181	+0.6	+54.7
Lumber.....	125	78	116	112	113	116	118	117	-0.8	+4.5
Stone, clay, etc.....	192	64	180	185	139	161	175	179	+2.3	-4.2
Leather.....	123	66	76	73	74	75	75	73	-2.7	0.0
Rubber.....	199	77	160	178	146	144	146	148	+1.4	-16.9
Paper.....	156	46	145	136	90	73	72	79	+9.7	-41.9
Chemicals and oils.....	137	84	126	130	124	126	130	137	+5.4	+5.4
Total raw materials.....	186	69	148	145	186	186	172	164	-4.7	+13.1
Foodstuffs.....	230	68	158	172	219	213	198	196	-1.0	+14.0
Textiles.....	204	43	161	144	195	204	189	174	-7.9	+20.8
Metals.....	136	54	89	83	122	115	100	83	-17.0	0.0
Chemicals and oils.....	153	73	125	113	129	130	118	112	-5.1	-0.9
UNFILLED ORDERS										
Total.....	167	67	77	80	80	78	80	80	+0.0	+0.0
Textiles.....	154	52	75	81	55	52	55	54	-1.8	-33.3
Iron and steel.....	157	66	86	87	81	87	90	89	-1.1	+2.3
Transportation equipment.....	204	49	53	74	113	116	118	112	-5.1	+51.4
Lumber.....	142	56	74	73	58	66	69	72	+4.3	-1.4
RETAIL TRADE										
Mail order houses (2 houses).....	275	68	145	142	225	275	138	141	+2.2	-0.7
CHAIN STORES:										
Ten-cent.....	308	62	112	122	174	308	117	126	+7.7	+3.3
Restaurant.....	116	87	102	97	108	112	108	100	-7.4	+3.1
DEPARTMENT STORES:										
Sales.....	189	71	92	86	123	185	89	83	-6.7	-3.5
Stocks.....	117	83	89	95	115	94	88	93	+5.7	+2.2
COST OF LIVING										
National Industrial Conference Board Indexes										
(Relative to July, 1914)										
All items weighted.....	172	158	161	161	163	162	160	159	-0.6	-1.2
Food (Department of Labor).....	167	141	155	154	160	158	155	153	-1.3	-0.6
Shelter.....	186	158	159	159	159	159	159	158	-0.6	-0.6
Clothing.....	177	160	169	170	168	169	166	164	-1.2	-3.5
Fuel and light (combined).....	179	156	163	162	162	162	163	162	-0.6	0.0
Fuel.....	208	174	184	184	183	183	184	183	-0.5	-0.5
Light.....	123	118	121	120	120	120	121	121	0.0	+0.8
Sundries.....	176	168	170	170	170	169	168	168	0.0	-1.2

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

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929				1930		PER CENT INCREASE (+) OR DECREASE (-)	
			January	February	November	December	January	February	February, 1930, from January, 1930	February, 1930, from February, 1929
EMPLOYMENT*										
(Relative to 1923-1925 monthly average as 100)										
Number employed, by industries:										
Total, all classes.....	106	91	97	100	98	95	93	93	0.0	-7.0
Iron and steel.....	108	88	97	98	97	92	92	94	+2.2	-4.1
Machinery.....	122	88	107	110	115	112	110	109	-0.9	-0.9
Textiles.....	111	84	96	98	97	94	93	93	0.0	-5.1
Food products.....	109	93	99	99	102	101	97	97	0.0	-2.0
Paper and printing.....	107	96	103	103	107	107	105	104	-1.0	+1.0
Lumber and products.....	104	75	86	86	88	82	77	75	-2.6	-12.8
Transportation equipment—										
Group.....	110	81	94	99	83	81	83	84	+1.2	-15.2
Automobiles.....	131	79	118	130	84	80	86	90	+4.7	-30.8
Leather and products.....	112	88	92	94	94	90	91	92	+1.1	-2.1
Cement, clay and glass.....	107	75	84	85	89	82	75	75	0.0	-11.8
Nonferrous metals.....	113	85	102	106	94	90	86	85	-1.2	-19.8
Chemicals—										
Group.....	119	90	108	111	114	112	111	110	-0.9	-0.9
Petroleum refining.....	125	95	104	107	124	121	121	121	0.0	+13.1
Rubber products.....	117	84	112	112	91	89	90	88	-2.2	-21.4
Tobacco products.....	109	84	84	92	96	89	84	89	+6.0	-3.3
Amount of pay roll by industries:										
Total all classes.....	112	85	101	108	102	99	94	97	+3.2	-10.2
Iron and steel.....	114	77	101	107	100	94	91	98	+7.7	-8.4
Machinery.....	132	83	112	121	122	120	114	115	+0.9	-5.0
Textiles.....	111	77	97	104	96	94	92	94	+2.2	-9.6
Food products.....	109	94	102	103	106	106	103	102	-1.0	-1.0
Paper and printing.....	118	92	111	113	117	118	115	115	0.0	+1.8
Lumber and products.....	107	73	83	87	89	83	73	73	0.0	-16.1
Transportation equipment—										
Group.....	117	80	94	111	89	86	81	90	+11.1	-18.9
Automobiles.....	152	66	115	147	84	73	74	93	+25.7	-36.7
Leather and products.....	116	80	90	95	84	84	85	86	+1.2	-9.5
Cement, clay and glass.....	108	79	79	81	86	80	67	70	+4.5	-13.6
Nonferrous metals.....	128	81	117	124	100	96	92	92	0.0	-25.8
Chemicals—										
Group.....	118	90	106	111	116	114	109	110	+0.9	-0.9
Petroleum refining.....	129	90	105	110	126	125	121	125	+3.3	+13.6
Rubber products.....	150	82	119	146	86	85	89	92	+3.4	-37.0
Tobacco products.....	111	76	76	82	94	89	77	80	+3.9	-2.4
WHOLESALE PRICES										
Department of Labor Indexes										
(Relative to 1926 monthly average as 100)										
All commodities.....	105	94	97	97	94	94	93	92	-1.1	-5.2
Farm products.....	114	94	106	105	101	102	101	98	-3.0	-6.7
Food, etc.....	107	85	99	98	99	99	97	96	-1.0	-2.0
Hides and leather products.....	127	98	114	109	108	107	105	104	-1.0	-4.6
Textile products.....	114	88	96	96	92	90	89	88	-1.1	-8.3
Fuel and lighting.....	112	79	83	81	82	81	80	79	-1.2	-2.5
Metals and metal products.....	113	97	104	104	102	102	101	101	0.0	-2.9
Building materials.....	116	90	97	98	96	96	96	96	0.0	-2.0
Chemicals.....	104	92	96	96	94	94	93	92	-1.1	-4.2
House-furnishing goods.....	111	97	97	97	97	97	97	97	0.0	0.0
Miscellaneous.....	127	79	81	80	80	80	79	79	0.0	-1.2
Classified by condition of manufacture:										
Semimanufactured articles.....	128	92	97	97	96	94	93	92	-1.1	-5.2
Finished products.....	103	93	97	96	94	94	93	93	0.0	-3.1
Raw materials.....	109	92	99	98	95	95	94	92	-2.1	-6.1
Nonagricultural commodities.....	106	91	95	94	93	92	91	91	0.0	-3.2
Commercial Indexes										
(Relative to 1926 monthly average as 100)										
Dun's.....	106	85	103	103	100	99	98	96	-2.0	-6.8
Bradstreet's.....	112	87	101	101	95	90	89	87	-2.0	-13.9

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

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1929				1930		PER CENT INCREASE (+) OR DECREASE (-)	
			January	February	November	December	January	February	February, 1930, from January, 1930	February, 1930, from February, 1929
PRICE INDEX NUMBERS										
FARM PRICES										
(Relative to 1909-1914 average as 100)										
All groups.....	152	125	133	136	136	135	134	131	-2.2	-3.7
Grains.....	178	108	115	123	118	119	118	115	-2.5	-6.5
Fruits and vegetables.....	253	108	109	111	159	163	167	168	+0.6	+51.4
Meat animals.....	167	98	146	150	144	143	146	150	+2.7	0.0
Dairy and poultry.....	166	122	149	148	157	157	146	136	-6.8	-8.1
Cotton and cottonseed.....	252	81	148	149	132	130	128	121	-5.5	-18.8
Unclassified.....	108	79	92	91	90	87	87	84	-3.4	-7.7

PASSENGER-CAR AND MOTOR-TRUCK REGISTRATIONS¹

STATE	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Alabama.....	11,634	21,636	32,873	46,171	58,898	74,637	82,366	90,052	126,642	157,262	194,580	225,930	243,539	269,519	285,533
Arizona.....	7,753	12,300	19,890	23,905	28,979	34,801	35,611	38,034	49,175	57,828	68,029	73,682	81,047	94,372	109,013
Arkansas.....	8,021	15,000	23,693	41,458	49,450	59,082	67,408	84,596	113,300	141,983	183,589	209,419	206,568	214,931	233,128
California.....	163,797	232,440	306,916	407,761	477,450	583,623	680,614	861,807	1,100,283	1,319,394	1,440,541	1,600,475	1,693,195	1,799,890	1,974,341
Colorado.....	28,894	43,296	87,460	83,244	104,865	129,255	145,739	162,328	188,956	213,247	240,097	248,613	268,492	284,867	303,489
Connecticut.....	41,121	56,048	74,645	86,067	102,410	119,134	134,141	152,977	181,748	217,236	250,669	263,235	281,521	309,792	328,063
Delaware.....	5,052	7,102	10,700	12,955	16,152	18,300	21,413	24,560	29,977	35,136	40,140	44,534	47,124	51,210	54,960
Dist. Columbia.....	8,009	13,118	15,493	30,490	35,400	34,161	40,625	52,792	74,811	88,762	103,092	111,497	111,680	126,556	151,450
Florida.....	10,850	20,718	27,000	54,186	55,400	73,914	97,957	116,170	151,990	195,128	286,388	401,562	394,734	352,961	343,977
Georgia.....	25,000	46,025	70,324	104,676	137,000	146,000	131,976	143,423	173,889	207,688	248,093	277,468	300,635	318,856	358,905
Idaho.....	7,071	12,996	24,731	32,289	42,220	50,861	51,294	53,874	62,379	69,227	81,506	94,790	101,336	108,154	118,074
Illinois.....	180,832	248,429	340,292	389,620	478,438	568,924	663,348	781,974	969,331	1,119,236	1,263,177	1,370,503	1,438,985	1,504,369	1,615,088
Indiana.....	96,915	139,065	192,194	227,160	227,255	333,067	400,342	469,939	583,342	651,705	725,410	772,326	813,637	823,806	866,715
Iowa.....	145,109	198,587	254,462	278,313	364,043	437,378	461,084	500,158	571,061	616,128	659,202	698,998	704,203	733,466	784,540
Kansas.....	72,520	112,122	159,343	189,163	228,600	294,159	289,539	327,194	375,594	410,891	457,033	491,270	501,901	533,799	581,223
Kentucky.....	19,500	31,500	47,420	65,884	90,008	112,683	126,802	154,021	198,377	229,804	261,647	281,557	285,621	304,231	332,548
Louisiana.....	11,380	17,000	28,394	40,000	51,000	73,000	77,885	102,284	136,622	178,000	207,000	239,500	255,000	264,293	280,368
Maine.....	21,545	30,972	41,499	44,572	53,425	62,907	77,527	92,539	108,609	127,598	140,499	151,486	163,623	172,638	184,506
Maryland.....	31,047	44,245	60,943	74,696	95,634	102,841	136,249	165,624	169,351	198,465	234,247	252,852	276,863	285,311	319,873
Massachusetts.....	102,633	136,809	174,274	193,497	247,182	274,498	360,732	385,231	481,150	570,578	646,153	690,190	694,107	726,963	787,704
Michigan.....	114,845	160,052	247,006	262,125	325,813	412,717	476,452	578,210	730,658	867,545	989,010	1,118,785	1,154,773	1,249,221	1,395,102
Minnesota.....	93,269	46,000	54,000	204,458	259,741	324,166	323,475	380,557	448,187	503,437	569,694	630,285	646,682	673,573	730,399
Mississippi.....	9,669	25,000	36,600	48,400	59,000	68,486	65,039	77,571	104,286	134,680	177,262	205,200	188,043	246,242	250,011
Missouri.....	76,462	103,587	147,528	188,400	244,363	297,008	346,437	392,523	476,598	540,500	604,166	654,554	682,419	712,965	756,680
Montana.....	14,540	25,105	42,749	51,053	59,324	60,650	58,785	62,650	73,828	79,695	94,656	103,958	112,735	126,035	140,387
Nebraska.....	59,000	101,200	148,101	173,374	200,000	219,000	238,704	256,654	286,053	308,715	338,719	366,773	373,912	391,355	418,226
Nevada.....	2,009	4,919	7,160	8,159	9,305	10,464	10,821	12,116	15,699	18,118	21,169	24,014	25,776	27,376	31,915
New Hampshire.....	13,449	17,508	22,267	24,817	31,625	34,680	42,039	48,406	59,604	71,149	81,498	89,001	96,000	102,644	108,880
New Jersey.....	81,848	109,414	141,918	155,519	190,873	227,737	272,994	342,286	430,958	504,470	580,554	651,415	712,396	758,430	832,332
New Mexico.....	5,100	8,228	14,086	17,647	18,082	22,100	22,559	25,473	32,032	41,680	49,111	54,996	59,291	65,737	78,374
New York.....	255,242	314,222	406,016	459,288	565,511	676,205	812,031	1,002,293	1,204,213	1,412,879	1,625,583	1,815,434	1,937,918	2,083,942	2,263,259
North Carolina.....	21,000	33,904	55,950	72,313	109,017	140,860	148,627	182,550	246,812	302,232	340,287	385,047	430,499	464,376	483,602
North Dakota.....	24,908	40,446	62,993	71,678	82,885	90,840	92,644	99,052	109,266	117,346	144,972	157,822	160,701	173,525	188,046
Ohio.....	181,332	252,431	346,772	412,775	511,031	621,390	720,634	858,716	1,069,100	1,241,600	1,346,400	1,480,246	1,570,734	1,649,699	1,766,614
Oklahoma.....	25,032	52,718	100,199	121,500	144,500	212,880	221,300	249,659	307,000	369,903	424,345	499,938	503,126	529,843	570,791
Oregon.....	23,585	33,917	48,632	63,324	83,332	103,790	118,198	134,125	165,962	192,615	216,553	233,568	244,572	248,118	260,007
Pennsylvania.....	160,137	230,578	325,153	394,186	482,117	570,164	689,589	829,737	1,043,770	1,228,845	1,330,433	1,455,184	1,554,915	1,642,207	1,733,283
Rhode Island.....	16,362	21,406	37,046	36,218	44,833	50,477	54,608	66,083	76,312	95,482	101,756	110,746	118,014	125,698	134,009
South Carolina.....	15,000	25,000	38,332	55,492	70,143	93,843	89,836	95,239	127,467	161,753	168,496	181,189	199,635	216,805	231,274
South Dakota.....	38,724	44,271	67,158	90,521	104,628	120,395	119,274	125,241	131,700	142,396	168,028	168,230	169,552	191,374	204,199
Tennessee.....	7,618	30,000	48,000	63,000	80,422	101,852	117,025	135,716	173,365	204,680	244,626	279,639	294,567	322,137	362,431
Texas.....	40,000	125,000	192,961	251,118	331,310	427,693	467,616	526,238	688,233	801,833	975,083	1,049,869	1,111,407	1,214,297	1,348,107
Utah.....	9,177	13,507	24,076	32,273	35,236	42,616	47,485	49,164	59,525	68,316	73,427	85,380	93,974	98,541	112,661
Vermont.....	11,499	15,671	21,633	22,553	26,807	31,625	37,265	43,881	52,776	61,179	69,576	74,063	79,527	86,231	93,030
Virginia.....	21,357	35,426	55,661	72,228	94,100	115,470	139,200	168,000	218,896	261,945	282,500	322,614	337,607	360,545	387,205
Washington.....	38,823	60,734	91,337	117,278	148,775	173,920	185,359	210,716	258,264	295,443	328,442	363,279	384,583	402,875	442,341
West Virginia.....	13,279	20,571	31,300	38,750	50,203	60,664	93,940	112,763	157,924	191,085	217,589	227,836	245,819	251,556	268,888
Wisconsin.....	79,741	115,645	158,637	196,253	236,290	298,298	341,841	382,542	457,271	525,221	594,386	662,282	698,289	742,135	793,502
Wyoming.....	3,976	7,125	12,523	16,200	21,371	23,926	26,866	30,637	39,831	43,639	47,711	49,883	51,955	56,336	60,680
Total.....	2,445,666	3,512,996	4,983,340	6,146,617	7,565,446	9,231,941	10,463,295	12,283,375	15,092,177	17,593,677	19,937,274	22,001,393	23,133,241	24,493,124	26,501,443

¹ Compiled by the U. S. Department of Agriculture, Bureau of Public Roads, from reports of State authorities, showing total number of automobiles and trucks which paid the regular license fee, registrations and nonresident cars being eliminated. Passenger cars include taxicabs, busses, and other vehicles for hire; trucks include tractors. There is lack of uniformity as between the reports of the several States with respect to the classification of light-weight commercial vehicles, with respect also to vehicles owned by the State, municipal, or county governments, and with respect to the period covered when such period is not the end of the year, but it is believed that these differences are not so material as to negative comparison between the States.

WHEAT GROUND AND WHEAT MILLING PRODUCTS 1929

WHEAT GROUND Thousands of bushels

State	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
United States.....	528, 731	45, 767	41, 292	42, 004	39, 475	42, 738	40, 833	42, 895	50, 725	47, 583	50, 445	43, 912	41, 062
Minnesota.....	92, 060	7, 803	7, 401	7, 513	7, 037	7, 849	7, 369	6, 974	9, 048	8, 364	8, 538	7, 707	6, 457
Kansas.....	80, 522	7, 167	6, 517	6, 524	6, 145	6, 944	6, 284	6, 836	7, 684	6, 841	7, 294	6, 272	6, 014
New York.....	58, 570	5, 239	4, 394	4, 710	4, 482	5, 093	4, 957	4, 610	5, 365	5, 316	4, 759	4, 707	4, 848
Missouri.....	47, 907	4, 038	3, 723	3, 796	3, 692	4, 097	3, 806	3, 723	4, 076	4, 161	4, 533	4, 095	4, 167
Washington.....	24, 404	2, 311	2, 166	2, 242	1, 815	1, 608	1, 748	1, 988	2, 173	2, 253	2, 297	1, 893	1, 910
Texas.....	24, 158	1, 945	1, 719	1, 766	1, 653	1, 754	1, 747	2, 248	2, 487	2, 233	2, 433	2, 082	2, 091
Illinois.....	19, 662	1, 772	1, 540	1, 393	1, 314	1, 488	1, 471	1, 673	2, 112	1, 904	1, 822	1, 593	1, 580
Oklahoma.....	18, 249	1, 421	1, 185	1, 336	1, 205	1, 336	1, 390	1, 622	1, 825	1, 805	1, 921	1, 653	1, 550
Ohio.....	17, 428	1, 578	1, 350	1, 396	1, 254	1, 296	1, 239	1, 308	1, 664	1, 544	1, 816	1, 541	1, 472
Oregon.....	14, 307	1, 376	1, 246	1, 338	1, 261	861	781	1, 074	1, 224	1, 254	1, 517	1, 273	1, 102
Nebraska.....	14, 255	1, 294	1, 133	1, 101	1, 068	1, 163	1, 107	1, 185	1, 392	1, 172	1, 383	1, 149	1, 108
Indiana.....	13, 100	1, 188	1, 015	986	899	1, 059	1, 006	995	1, 291	1, 122	1, 401	1, 133	995
California.....	9, 117	822	769	714	720	786	751	689	810	722	852	758	704
Iowa.....	8, 624	669	624	628	615	700	683	702	897	851	955	719	581
Montana.....	8, 226	581	587	610	639	670	687	715	860	706	865	724	582
Colorado.....	7, 812	657	614	586	489	608	595	655	789	703	860	659	597
Michigan.....	8, 535	778	620	606	660	735	680	737	839	761	800	672	647
Tennessee.....	8, 029	689	625	690	623	634	584	699	817	726	738	637	597
Utah.....	6, 630	570	457	472	458	480	475	484	696	610	770	579	579
Kentucky.....	6, 490	571	527	510	496	517	483	461	618	559	654	521	573
Pennsylvania.....	6, 352	521	468	472	449	496	445	500	669	610	636	541	545
North Dakota.....	5, 659	345	339	345	363	388	367	456	633	663	917	542	301
Wisconsin.....	5, 517	466	438	382	355	434	478	470	500	583	528	534	349
North Carolina.....	5, 470	502	436	451	443	441	410	539	504	477	481	396	390
Virginia.....	4, 657	398	350	383	343	342	313	406	459	444	466	406	347
Idaho.....	3, 545	330	330	321	266	260	287	254	388	277	322	272	238
Maryland.....	3, 140	218	221	231	232	246	229	312	334	345	297	282	213
South Dakota.....	709	38	47	43	43	56	48	62	82	78	72	75	65
All other ¹	5, 597	480	451	463	462	417	413	518	489	499	518	427	460

WHEAT FLOUR PRODUCTION Thousands of barrels

United States.....	115, 308	10, 014	9, 026	9, 207	8, 636	9, 334	8, 612	9, 337	11, 058	10, 373	10, 968	9, 538	9, 905
Minnesota.....	19, 927	1, 692	1, 596	1, 628	1, 529	1, 706	1, 605	1, 511	1, 969	1, 811	1, 839	1, 655	1, 386
Kansas.....	17, 576	1, 576	1, 429	1, 433	1, 346	1, 518	1, 372	1, 490	1, 674	1, 486	1, 586	1, 360	1, 306
New York.....	12, 851	1, 147	964	1, 046	990	1, 125	1, 090	1, 014	1, 186	1, 175	1, 037	1, 037	1, 040
Missouri.....	10, 416	880	810	829	803	893	832	898	885	903	883	888	902
Washington.....	5, 461	515	485	503	406	360	391	446	487	503	514	425	426
Texas.....	5, 307	429	380	390	363	386	332	422	544	489	534	453	460
Illinois.....	4, 317	389	337	306	289	328	324	368	465	415	400	349	346
Oklahoma.....	3, 991	313	261	294	265	293	305	354	397	394	419	360	335
Ohio.....	3, 844	351	301	310	278	281	275	287	364	339	307	339	322
Oregon.....	3, 216	308	279	299	283	193	176	243	276	282	340	288	246
Nebraska.....	3, 078	282	248	241	233	253	236	253	300	250	295	246	236
Indiana.....	2, 668	249	208	200	183	217	199	195	259	232	289	230	207
California.....	2, 008	181	169	163	157	174	165	152	178	159	188	167	155
Iowa.....	1, 881	145	134	135	133	152	150	154	197	188	210	158	125
Montana.....	1, 846	131	132	137	144	151	155	161	194	159	193	161	124
Colorado.....	1, 735	146	137	131	109	135	132	145	175	156	191	146	132
Michigan.....	1, 734	161	129	125	132	141	134	146	168	158	162	141	135
Tennessee.....	1, 727	149	137	144	136	137	123	150	174	156	155	136	128
Utah.....	1, 481	128	104	105	108	108	105	108	155	136	172	128	122
Kentucky.....	1, 422	125	116	114	110	113	117	100	134	121	143	114	127
Pennsylvania.....	1, 361	112	101	101	97	106	96	107	143	130	136	116	117
North Dakota.....	1, 230	74	73	77	79	84	79	99	137	144	200	118	68
Wisconsin.....	1, 197	102	95	84	77	95	103	102	108	126	114	116	75
North Carolina.....	1, 175	109	95	96	95	96	88	113	167	102	103	86	86
Virginia.....	1, 004	86	76	83	73	74	63	87	99	94	101	88	76
Idaho.....	788	73	72	71	59	58	64	57	86	62	72	61	55
Maryland.....	680	47	48	50	51	53	49	67	72	75	64	57	45
South Dakota.....	151	8	10	9	9	12	10	13	17	17	16	16	15
All other ²	1, 236	106	100	103	102	92	91	113	108	110	115	94	103

AVERAGE POUNDS OF WHEAT PER BARREL OF FLOUR Pounds

United States.....	275. 1	274. 2	274. 5	273. 7	274. 3	274. 7	274. 9	275. 6	275. 2	275. 2	275. 9	276. 2	276. 7
Minnesota.....	277. 2	276. 7	278. 2	277. 0	276. 2	276. 0	275. 4	276. 8	275. 7	277. 1	278. 6	279. 4	279. 5
Kansas.....	274. 9	272. 9	273. 7	273. 1	273. 9	274. 4	274. 9	275. 2	275. 4	276. 2	275. 9	276. 7	276. 3
New York.....	273. 5	274. 0	273. 5	270. 0	271. 6	271. 7	273. 0	272. 9	271. 5	271. 5	275. 4	277. 5	279. 6
Missouri.....	276. 0	275. 3	275. 7	274. 8	275. 9	275. 3	274. 5	276. 6	276. 5	276. 4	276. 5	277. 7	277. 2
Washington.....	268. 1	269. 1	267. 9	267. 2	268. 0	268. 3	268. 4	267. 4	267. 7	268. 6	268. 2	267. 5	268. 9
Texas.....	273. 1	272. 0	271. 5	271. 5	272. 6	272. 6	274. 5	274. 1	274. 2	274. 1	273. 4	272. 7	272. 9
Illinois.....	273. 3	273. 4	274. 0	273. 3	272. 7	272. 3	272. 1	272. 7	272. 8	274. 2	273. 5	273. 9	273. 9
Oklahoma.....	274. 3	273. 5	271. 9	273. 1	271. 7	273. 6	273. 5	274. 8	275. 6	275. 1	275. 0	275. 8	277. 5
Ohio.....	272. 0	270. 0	269. 5	269. 9	270. 6	270. 1	270. 8	273. 7	274. 1	273. 2	274. 3	272. 7	274. 5
Oregon.....	266. 9	267. 8	268. 0	268. 6	267. 3	267. 3	266. 3	265. 6	266. 3	266. 7	267. 4	264. 4	265. 9
Nebraska.....	277. 8	275. 1	274. 1	274. 5	275. 3	275. 7	278. 3	278. 9	278. 7	281. 4	280. 8	279. 7	281. 1
Indiana.....	294. 7	285. 7	292. 5	295. 7	295. 2	296. 1	303. 1	306. 1	299. 0	290. 6	231. 5	235. 3	288. 4
California.....	272. 5	272. 3	272. 9	273. 0	272. 5	271. 1	272. 5	271. 4	273. 2	273. 4	272. 1	272. 1	272. 9
Iowa.....	275. 1	276. 9	279. 8	277. 9	278. 8	273. 3	273. 3	273. 0	272. 8	272. 1	272. 5	273. 8	278. 2
Montana.....	267. 4	266. 0	266. 4	266. 7	265. 7	265. 9	266. 4	266. 0	266. 8	267. 3	268. 7	269. 7	273. 8
Colorado.....	270. 2	269. 4	268. 1	269. 2	268. 7	271. 1	269. 7	271. 3	270. 4	270. 3	270. 9	270. 6	271. 5
Michigan.....	295. 4	290. 7	287. 8	290. 3	299. 9	313. 9	305. 4	303. 0	299. 7	288. 8	294. 8	286. 0	283. 7
Tennessee.....	278. 9	278. 2	273. 6	275. 4	275. 3	276. 8	277.						

PAPER-BOARD SHIPPING BOXES ¹

MONTH	CORRUGATED																
	PRODUCTION [Thousands of square feet]								OPERATING TIME [Per cent of normal]								
	1922	1923	1924	1925	1926	1927	1928	1929	1921	1922	1923	1924	1925	1926	1927	1928	1929
January.....	94, 104	217, 649	211, 686	228, 084	266, 256	293, 677	227, 280	352, 021	27	48	76	68	70	75	72	67	78
February.....	104, 561	213, 177	229, 575	263, 862	287, 388	336, 910	326, 430	383, 191	34	55	75	75	76	81	82	75	85
March.....	121, 987	241, 501	247, 460	268, 335	307, 108	338, 400	348, 835	398, 777	35	57	83	80	79	87	87	78	86
April.....	130, 701	222, 121	245, 975	256, 409	284, 161	322, 002	327, 815	387, 596	38	60	86	74	76	82	76	72	83
May.....	139, 414	208, 705	225, 103	250, 406	281, 752	326, 474	323, 493	386, 241	38	64	82	69	75	79	75	69	83
June.....	144, 642	195, 288	193, 800	242, 992	285, 978	290, 546	341, 291	406, 908	39	64	78	66	73	77	68	74	87
July.....	174, 268	205, 725	205, 723	257, 879	298, 657	308, 585	335, 732	384, 885	41	65	80	64	75	78	69	71	82
August.....	221, 132	199, 760	219, 141	286, 261	329, 649	317, 529	364, 756	448, 920	47	72	82	65	80	83	76	77	91
September.....	228, 291	195, 480	231, 066	290, 698	335, 284	308, 585	359, 553	434, 351	54	78	79	69	82	83	79	78	91
October.....	261, 402	228, 085	256, 410	341, 384	364, 808	348, 835	374, 342	457, 425	64	79	79	77	90	89	85	89	93
November.....	249, 204	208, 129	259, 390	332, 112	333, 875	320, 511	370, 302	387, 935	65	80	74	77	88	82	76	82	81
December.....	224, 866	204, 232	248, 956	275, 772	271, 890	272, 807	348, 090	296, 457	53	75	68	74	73	70	64	72	66
Total.....	2, 094, 512	2, 539, 852	2, 774, 285	3, 294, 194	3, 645, 866	3, 784, 861	4, 047, 919	4, 724, 707	45	66	79	72	78	81	75	75	84
Monthly average.....	174, 543	211, 654	231, 190	274, 516	303, 822	315, 405	337, 327	393, 726									
	SOLID FIBER																
January.....	56, 341	92, 969	94, 026	80, 099	84, 117	92, 532	90, 708	99, 151	34	64	88	85	73	78	68	75	77
February.....	61, 736	86, 437	96, 638	75, 098	89, 163	99, 894	97, 677	110, 914	44	69	75	87	76	81	78	84	80
March.....	75, 503	80, 574	108, 826	79, 255	92, 527	98, 063	98, 622	111, 903	53	78	78	90	75	79	76	85	85
April.....	70, 284	81, 281	92, 285	80, 099	86, 640	96, 228	101, 692	104, 676	60	78	78	82	67	77	77	80	79
May.....	52, 963	75, 434	81, 838	80, 933	91, 686	95, 038	102, 402	103, 876	60	74	76	80	69	78	76	80	79
June.....	60, 367	78, 345	69, 561	85, 104	92, 527	83, 399	105, 827	99, 922	67	78	76	70	76	78	64	83	74
July.....	69, 833	82, 866	71, 391	89, 276	95, 051	88, 898	88, 819	96, 877	71	87	77	63	77	75	66	75	82
August.....	102, 578	83, 129	77, 485	87, 607	100, 939	98, 735	99, 499	101, 250	81	90	78	74	74	79	82	84	82
September.....	97, 222	59, 664	80, 096	85, 939	94, 210	91, 831	96, 378	109, 925	81	88	76	79	79	76	84	80	82
October.....	100, 195	80, 606	84, 450	87, 608	98, 416	92, 986	103, 584	116, 746	89	89	88	78	81	81	83	83	68
November.....	89, 781	76, 084	82, 709	83, 437	84, 957	88, 898	108, 307	97, 371	84	84	86	80	80	72	81	79	72
December.....	90, 784	50, 472	81, 838	75, 098	78, 229	82, 482	87, 628	71, 076	58	84	66	76	71	65	72	68	55
Total.....	927, 587	927, 831	1, 021, 133	989, 563	1, 088, 462	1, 109, 014	1, 181, 143	1, 223, 687	65	81	79	79	75	77	76	80	78
Monthly average.....	77, 299	77, 322	85, 995	82, 464	90, 705	92, 418	98, 429	101, 974									
	CORRUGATED AND SOLID FIBER																
January.....	150, 445	310, 618	305, 712	308, 183	350, 373	386, 239	317, 988	451, 172	29	52	79	72	71	76	71	69	78
February.....	166, 297	299, 614	325, 213	338, 960	376, 551	430, 804	424, 107	494, 105	36	58	75	78	76	81	81	79	84
March.....	197, 490	322, 075	356, 286	347, 600	399, 635	436, 463	447, 457	510, 680	39	62	82	83	78	85	79	80	86
April.....	200, 985	303, 402	338, 260	336, 508	369, 801	418, 230	429, 507	492, 272	43	64	84	76	74	81	77	74	82
May.....	192, 377	284, 139	306, 941	331, 339	373, 433	421, 512	425, 895	493, 117	43	66	80	72	74	79	75	72	82
June.....	205, 069	273, 633	253, 361	328, 096	378, 595	373, 945	447, 118	506, 839	46	67	77	67	74	77	67	76	85
July.....	244, 101	238, 591	277, 114	347, 155	393, 708	397, 483	424, 551	481, 762	48	70	79	64	76	77	68	72	80
August.....	323, 710	282, 889	293, 626	373, 868	430, 588	416, 264	464, 255	550, 170	55	78	81	68	79	82	72	79	89
September.....	325, 513	255, 144	311, 162	376, 637	429, 494	400, 416	455, 931	544, 276	61	80	79	72	81	81	80	79	89
October.....	361, 597	308, 691	349, 800	428, 992	463, 284	441, 281	477, 926	574, 171	70	81	81	77	88	87	85	88	91
November.....	338, 985	284, 213	342, 099	415, 549	418, 832	409, 409	478, 699	485, 306	70	81	77	78	86	80	77	82	79
December.....	315, 590	254, 704	330, 794	350, 870	350, 119	355, 289	435, 718	367, 533	54	77	68	75	73	70	66	71	63
Total.....	3, 022, 099	3, 497, 713	3, 795, 423	4, 233, 757	4, 734, 323	4, 893, 875	5, 229, 062	5, 984, 394	50	70	79	74	78	80	75	77	82
Monthly average.....	251, 842	288, 976	316, 286	353, 980	394, 527	407, 823	435, 755	495, 700									

¹ Data from the Paperboard Industries Association, comprising the former National Container Association, which in turn had merged the statistical activities of the Container Club and the National Association of Corrugated and Fiber Box Manufacturers, who formerly reported separately. 39 identical companies report corrugated board data and 11 plants report solid fiber data. Data for the former individual associations, extending back to 1919 for the Container Club, are given in the August, 1923, issue (No. 24), but are not comparable with data shown here, as the former National Association of Corrugated and Fiber Box Manufacturers reported in their totals single face board (used principally for wrapping purposes), which is excluded from the tabulation above. Monthly data for 1921 and 1922 on the present basis, including relative prices of finished board and raw materials, appeared in the November, 1923, issue (No. 27), p. 89. The production of boxes is measured by the area of board passing through the box machines.

WEIGHTED INDEX OF WHOLESALE PRICES FOR CHEMICALS, OILS AND FATS¹

MONTH	CHEMICALS										OILS AND FATS									
	1927 monthly average=100																			
	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
January.....	149.6	133.6	111.7	117.9	107.1	105.9	106.2	103.2	100.7	100.0	206.7	86.9	84.6	97.5	110.8	126.6	116.0	93.1	100.8	98.7
February.....	157.8	130.1	110.1	118.8	106.8	105.1	104.0	102.4	100.5	100.0	208.7	80.8	91.2	102.0	106.0	115.6	111.1	98.9	94.5	101.2
March.....	168.7	125.3	110.4	120.0	106.2	106.6	104.9	101.9	99.6	100.5	197.5	71.8	102.6	109.8	101.6	121.0	115.8	100.7	94.6	101.1
April.....	183.1	122.9	113.1	118.6	106.3	104.8	105.3	101.5	100.0	100.3	199.1	61.8	100.9	113.7	102.5	115.9	113.1	97.7	98.2	97.7
May.....	186.6	120.3	111.1	117.1	104.2	103.9	103.5	101.1	99.9	100.3	180.2	72.5	101.9	111.1	98.9	115.4	119.9	99.2	99.6	92.5
June.....	177.4	123.2	109.8	115.5	103.6	103.4	102.9	101.0	98.7	100.3	176.7	76.6	100.0	106.1	99.4	114.7	132.9	100.7	95.8	91.6
July.....	180.0	119.1	111.4	114.7	101.9	102.8	104.3	99.7	98.5	100.0	173.8	83.2	97.0	99.0	112.3	114.4	126.9	100.7	95.1	91.8
August.....	187.9	115.8	111.5	115.7	101.7	104.2	105.0	99.8	98.8	99.8	142.4	85.4	94.1	98.8	124.8	118.6	119.3	101.5	94.1	95.7
September.....	174.4	117.0	114.6	115.9	101.9	104.5	104.8	100.0	99.2	100.2	130.7	92.5	87.2	99.8	107.5	115.9	115.5	108.4	94.5	99.8
October.....	169.5	115.4	117.1	116.5	102.2	102.8	104.8	99.7	99.3	100.1	132.0	85.9	90.9	100.5	114.1	115.7	97.5	105.5	97.0	104.5
November.....	155.4	116.8	117.9	116.3	102.4	104.0	104.6	99.3	99.5	100.0	110.2	82.9	95.4	100.9	113.9	116.2	96.2	104.0	95.3	98.5
December.....	136.8	114.2	118.3	115.9	102.2	104.1	103.0	99.5	99.6	99.7	91.8	83.7	95.9	102.1	119.8	115.5	91.7	100.3	97.7	97.5
Mon. av.....	168.9	121.1	113.1	116.9	103.9	104.4	104.4	100.8	99.5	100.1	162.5	81.2	95.1	103.4	109.3	117.1	113.0	100.9	96.4	97.6

¹ Compiled by the *Chemical and Metallurgical Engineering*, and represent quotations on 30 chemicals and 15 oils and fats selected on the basis of their importance as representing both qualitatively and quantitatively the principal branches of the chemical industry. These prices are weighted on the basis of the total production plus total imports in the year 1927. The figures are averages of weekly prices. A similar index including 25 of the principal chemicals, used in the new indexes, with yearly data from 1917 to 1923 and monthly data for 1923 and 1924 may be found in the November, 1924, issue (No. 39, p. 105).

AUTOMOBILE FINANCING

YEAR	TOTAL		NEW CARS FINANCED		USED CARS FINANCED		UNCLASSIFIED	
	Number of cars	Volume in dollars	Number of cars	Volume in dollars	Number of cars	Volume in dollars	Number of cars	Volume in dollars
1929								
January.....	152,226	74,278,753	77,684	48,154,587	67,603	23,090,482	6,939	3,031,684
February.....	204,095	87,884,289	103,271	61,478,686	92,974	23,066,587	7,850	3,338,996
March.....	301,700	141,408,566	167,740	98,566,374	121,234	37,635,306	12,726	5,206,886
April.....	375,662	173,991,504	206,267	121,517,771	154,037	46,213,460	15,358	6,260,273
May.....	393,881	181,077,726	213,138	125,393,213	166,010	49,824,789	14,733	5,859,724
June.....	380,989	176,409,673	204,871	122,324,819	163,228	48,872,473	12,890	5,212,381
July.....	380,874	176,578,230	207,424	123,256,076	159,782	47,885,243	13,668	5,436,911
August.....	347,160	160,796,697	186,303	110,197,198	147,976	44,919,792	12,881	5,679,707
September.....	293,251	136,024,669	155,783	92,754,546	125,282	36,396,264	12,186	4,873,859
October.....	270,299	124,054,340	129,167	78,953,869	129,325	40,589,879	11,807	4,520,592
November.....	207,031	92,402,966	95,130	57,454,498	102,941	31,467,351	8,960	3,481,147
December.....	171,205	78,410,747	73,657	46,127,507	91,593	29,648,715	5,955	2,634,525
Total.....	3,478,373	1,603,328,170	1,820,435	1,086,181,144	1,521,985	461,610,341	135,953	55,536,685
1930								
January.....	162,060	72,011,702	76,594	44,374,582	80,694	25,576,240	4,772	2,060,880

Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from reports of 423 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.

PAINT, VARNISH, AND LACQUER PRODUCTS¹

MONTH	1928				1929			
	Total sales	Trade sales	Industrial sales	Not specified	Total sales	Trade sales	Industrial sales	Not specified
January.....	\$26,712,182	\$9,421,310	\$8,963,163	\$8,327,709	\$28,632,481	\$9,903,194	\$10,450,371	\$8,278,916
February.....	28,233,702	10,624,584	9,329,766	8,279,352	28,979,212	10,202,885	10,765,756	8,010,571
March.....	34,309,692	12,914,765	11,042,287	10,352,640	37,413,696	13,494,354	12,418,336	11,511,006
April.....	35,166,508	13,867,952	10,656,746	10,641,810	40,302,496	15,435,710	12,907,993	11,958,793
May.....	41,688,910	17,422,788	11,735,736	12,530,386	43,397,353	17,615,479	13,335,710	12,446,164
June.....	38,564,496	15,395,507	11,539,738	11,629,251	38,812,077	15,017,451	11,959,679	11,834,947
July.....	30,864,223	10,480,095	10,070,556	10,313,572	33,074,863	11,048,925	11,549,751	10,476,187
August.....	35,485,285	12,433,169	12,236,298	10,815,818	39,663,611	15,075,048	13,161,346	11,427,217
September.....	32,381,312	11,239,739	11,140,725	10,000,848	33,815,655	12,270,585	11,255,556	10,289,514
October.....	33,374,460	11,845,718	11,588,220	9,940,522	34,262,898	12,334,788	11,806,243	10,121,867
November.....	27,551,630	9,868,742	10,112,537	7,570,351	27,195,302	10,136,954	9,197,057	7,481,281
December.....	22,571,900	7,849,127	8,353,921	6,366,852	20,311,674	7,434,326	6,900,403	5,910,945
Total.....	386,904,300	143,363,496	126,771,693	116,769,111	405,861,318	149,959,699	135,768,201	120,133,418
Monthly average.....	32,242,025	11,946,958	10,564,308	9,730,759	33,821,777	12,496,042	11,314,017	10,011,118

¹ Compiled by the *U. S. Department of Commerce, Bureau of the Census*, and represents the total sales of paint, varnish, and lacquer products as reported by 602 firms. Trade sales include shipments to dealers, jobbers, painters, and consumers. Industrial sales are those to manufacturers, railroads, the Government, marine, and all other similar users.

FACTORY EMPLOYMENT AND PAY ROLL IN ILLINOIS ¹

(1925-27 monthly average=100)

MONTH	EMPLOYMENT								PAY ROLL							
	1922	1923	1924	1925	1926	1927	1928	1929	1922	1923	1924	1925	1926	1927	1928	1929
January.....	96.1	109.0	107.9	100.4	101.6	99.7	90.6	93.2	102.8	99.0	96.0	101.3	98.2	87.6	94.7	
February.....	96.1	111.6	110.3	101.9	103.2	100.3	93.1	100.3	105.0	104.4	100.1	106.3	102.0	94.8	100.7	
March.....	98.0	114.4	110.3	100.8	103.7	100.0	94.2	102.2	108.0	101.5	97.6	105.3	101.1	94.5	101.6	
April.....	98.6	115.2	109.0	99.8	103.4	99.4	93.0	103.0	109.0	100.6	97.8	106.1	101.4	93.1	105.2	
May.....	101.6	115.4	106.2	98.8	103.0	98.8	93.6	103.7	110.1	97.3	97.0	105.6	99.9	95.1	105.7	
June.....	102.3	115.9	102.6	98.4	103.0	98.5	95.8	104.1	113.1	92.7	97.2	105.4	102.5	97.9	107.5	
July.....	100.7	113.6	98.0	97.1	103.0	94.9	93.9	103.4	89.3	105.8	86.0	93.9	101.0	95.5	102.7	
August.....	102.3	112.2	98.4	97.2	102.6	96.2	96.3	105.1	92.0	105.5	88.0	95.8	103.0	97.8	106.0	
September.....	104.3	111.1	99.0	99.6	104.9	96.0	97.7	105.8	94.6	108.2	90.5	93.6	102.8	94.2	105.0	
October.....	105.7	111.1	98.0	100.4	104.4	95.5	97.8	103.8	98.4	110.4	92.7	100.7	106.6	96.6	105.8	
November.....	107.6	110.7	97.5	101.1	103.0	93.6	98.3	102.7	102.0	105.4	92.6	101.4	103.6	93.7	101.3	
December.....	110.1	109.9	99.5	101.6	101.6	92.6	99.2	99.3	104.2	103.8	97.6	103.2	102.9	92.9	96.3	
Monthly average.....	² 101.9	112.5	103.1	99.8	103.1	97.1	95.3	102.6	³ 96.7	107.4	95.3	97.9	104.2	98.0	95.2	102.7

¹ Compiled by the Illinois Department of Labor. These data have been shifted from the old base of 1922 to the three-year period 1925-27 agreed upon by the Committee on Governmental Labor Statistics as the standard base period. These data represent the monthly trend of employment and pay rolls in manufacturing industries in Illinois.

² Eleven months' average.

³ Six months' average.

UNEMPLOYMENT IN THE UNITED STATES AND IN PRINCIPAL CITIES

UNEMPLOYMENT IN THE UNITED STATES

[Compiled and published by the American Federation of Labor and represent the percentages of unemployment in the various industries and cities shown below.]

[Per cent of union members unemployed]

TRADES	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, all trades.....	1928	18	18	18	16	13	11	12	9	10	9	10	13
	1929	15	15	14	12	11	9	9	9	10	11	12	16
	1930	20	22	* 21									
Building trades.....	1928	36	39	38	32	25	22	24	19	22	18	21	23
	1929	30	33	34	29	26	19	16	18	21	22	23	32
	1930	38	43	* 42									
Meta' trades.....	1928	18	16	16	12	12	10	13	9	8	8	7	7
	1929	8	8	7	6	5	5	6	7	7	7	8	11
	1930	15	18	* 19									
Printing trades.....	1928	4	5	5	5	4	4	5	5	5	5	4	3
	1929	4	5	5	4	3	3	4	4	3	4	4	4
	1930	5	5	* 6									
All other trades.....	1928												10
	1929												
	1930	12	13	* 12									

* Preliminary.

UNEMPLOYMENT IN CITIES

[Per cent of union members unemployed in identical unions]

City	ALL TRADES		BUILDING TRADES		ALL OTHER TRADES	
	Feb., 1930	Mar., 1930	Feb., 1930	Mar., 1930	Feb., 1930	Mar., 1930
Atlanta, Ga.....	11	11	41	44	4	4
Baltimore, Md.....	15	17	24	28	7	7
Birmingham, Ala.....	18	19	46	49	8	8
Boston, Mass.....	19	20	37	36	9	11
Buffalo, N. Y.....	26	24	45	34	20	20
Chicago, Ill.....	24	25	52	53	10	11
Cincinnati, Ohio.....	22	19	51	43	9	9
Cleveland, Ohio.....	25	26	40	40	11	12
Denver, Colo.....	27	26	49	46	16	17
Detroit, Mich.....	25	25	40	40	16	16
Jersey City, N. J.....	28	30	31	39	27	27
Los Angeles, Calif.....	21	23	36	40	16	18
Milwaukee, Wis.....	12	12	34	34	5	5
Minneapolis, Minn.....	19	19	35	36	12	11
New York, N. Y.....	26	23	47	41	16	15
Omaha, Neb.....	13	12	38	39	7	5
Paterson, N. J.....	23	22	46	40	12	13
Philadelphia, Pa.....	23	25	40	39	15	19
Pittsburgh, Pa.....	18	17	36	36	7	6
San Antonio, Texas.....	11	16	42	65	4	4
San Francisco, Calif.....	12	13	25	28	11	11
St. Louis, Mo.....	19	17	48	44	10	9
Seattle, Wash.....	25	15	38	34	18	6
Washington, D. C.....	12	10	33	31	3	8

TREND OF BUSINESS MOVEMENTS

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

The cumulative shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
TEXTILES												
Wool												
Receipts at Boston:												
Total.....thous. of lbs..	12, 148	12, 714	15, 272	15, 828	12, 166	19, 673	17, 202	-23. 1	-29. 3	36, 875	27, 994	-24. 1
Domestic.....thous. of lbs..	6, 931	8, 299	9, 344	6, 500	5, 012	4, 532	1, 836	-22. 9	+173. 0	6, 368	11, 512	+80. 8
Foreign.....thous. of lbs..	5, 217	4, 415	5, 928	9, 328	7, 154	15, 141	15, 366	-23. 3	-53. 4	30, 507	16, 482	-46. 0
Imports:												
In condition imported.....thous. of lbs..	19, 463	19, 510	20, 246	26, 464	18, 498	36, 523	33, 398	-30. 1	-44. 6	69, 921	44, 962	-35. 7
Grease equivalent.....thous. of lbs..	23, 066	23, 021	24, 565	29, 423	20, 221	38, 835	37, 386	-31. 3	-45. 9	76, 221	49, 644	-34. 9
Consumption by textile mills, grease equivalent.....thous. of lbs..	59, 352	46, 694	37, 802	43, 627	38, 330	54, 031	47, 993	-12. 1	-20. 1	102, 024	81, 957	-19. 7
Machinery activity, hourly:												
Looms—												
Wide.....per ct. of hours active..	65	59	54	53	52	69	69	-1. 9	-24. 6			
Narrow.....per ct. of hours active..	66	65	53	50	41	63	59	-18. 0	-30. 5			
Carpet and rug.....per ct. of hours active..	71	65	55	51	51	65	67	0. 0	-23. 9			
Sets of cards.....per ct. of hours active..	85	74	63	63	65	84	85	+3. 2	-23. 5			
Combs.....per ct. of hours active..	91	82	72	79	86	83	84	+8. 9	+2. 4			
Spinning spindles—												
Woolen.....per ct. of hours active..	78	69	61	62	61	82	82	-1. 6	-25. 6			
Worsted.....per ct. of hours active..	72	65	57	55	59	69	69	+7. 3	-14. 5			
Prices:												
Raw, territory, fine, scoured.....dolls. per lb..	.90	.88	.84	.81	.79	1. 12	1. 09	-2. 5	-27. 5			
Raw, Ohio and Pa. fleeces, 3/4 blood, combing, grease.....dolls. per lb..	.43	.43	.41	.38	.36	.55	.55	-5. 3	-34. 5			
Worsted yarn.....dolls. per lb..	1. 48	1. 43	1. 40	1. 38	1. 35	1. 58	1. 58	-2. 2	-14. 6			
Women's dress goods, French serge, 39-in.....dolls. per yd..	.98	.98	.98	.98	.98	.98	.98	0. 0	0. 0			
Suiting, 13-oz.....dolls. per yd..	1. 901	1. 901	1. 901	1. 838	1. 800	2. 008	2. 008	-2. 1	-10. 4			
Cotton												
Receipts into sight.....thous. of bales..	4, 184	2, 682	2, 105	840	417	1, 126	638	-50. 4	-34. 6	1, 764	1, 257	-28. 7
Imports, unmanufactured.....bales..	19, 815	35, 502	36, 190	51, 474	23, 643	54, 930	39, 625	-54. 1	-40. 3	94, 564	75, 117	-20. 6
Exports, unmanufactured (excl. linters).....bales..	1, 251, 300	1, 048, 760	910, 321	728, 737	402, 074	788, 595	613, 394	-44. 8	-34. 5	1, 401, 989	1, 130, 811	-19. 3
Consumption by textile mills.....bales..	640, 798	544, 150	453, 892	577, 235	495, 204	668, 286	594, 720	-14. 2	-16. 3	1, 263, 006	1, 072, 439	-15. 1
Stocks, domestic, end of month:												
Totals, mills and w'houses.....thous. of bales..	6, 672	7, 514	7, 759	7, 237	6, 670	6, 383	5, 606	-7. 8	+19. 0			
Mills.....thous. of bales..	1, 361	1, 672	1, 844	1, 830	1, 812	1, 768	1, 744	-1. 0	+3. 9			
Warehouses.....thous. of bales..	5, 312	5, 842	5, 914	5, 407	4, 859	4, 615	3, 862	-10. 1	+25. 8			
Stocks, world visible, end of month:												
Total.....thous. of bales..	6, 677	7, 453	8, 098	8, 059	7, 854	7, 607	7, 226	-2. 5	+8. 7			
American.....thous. of bales..	4, 982	5, 644	5, 960	5, 576	5, 150	5, 510	5, 043	-7. 6	+2. 1			
Machinery activity of spindles:												
Active spindles.....thousands..	30, 135	29, 649	29, 070	29, 198	28, 927	30, 753	31, 009	-0. 9	-6. 7			
Total activity.....millions of hours..	9, 004	7, 812	6, 770	8, 173	7, 091	9, 227	8, 223	-13. 2	-13. 8			
Activity per spindle.....hours..	258	226	196	236	205	261	233	-13. 1	-12. 0			
Ratio to capacity.....per cent..	108. 7	100. 9	88. 2	100. 3	97. 7	111. 0	110. 7	-2. 6	-11. 7			
Prices:												
To producer.....dolls. per lb..	.175	.162	.160	.158	.148	.179	.180	-6. 3	-17. 8			
In New York, middling.....dolls. per lb..	.186	.175	.173	.173	.157	.202	.202	-9. 2	-22. 3			
Cotton Yarn												
Carded sales yarn:												
Production.....thous. of lbs..	18, 199	22, 013	13, 364	17, 571	13, 086	18, 311	18, 718	-25. 5	-30. 1	37, 029	30, 657	-17. 2
Stocks, end of month.....thous. of lbs..	7, 173	7, 842	9, 865	10, 773	11, 775	8, 836	8, 765	+9. 3	+34. 3			
Unfilled orders, end of month.....thous. of lbs..	40, 749	37, 785	35, 776	35, 056	36, 165	43, 246	42, 722	+3. 2	-15. 3			
Prices:												
22/1 cones, Boston.....dolls. per lb..	.359	.346	.340	.323	.310	.382	.372	-4. 0	-16. 7			
40/1s, southern spinning.....dolls. per lb..	.503	.491	.494	.500	.486	.510	.512	-2. 8	-5. 1			
Cotton Goods												
Cotton textiles:												
Production.....thous. of yds..	283, 064	345, 146	243, 735	323, 287	266, 849	342, 806	292, 873	-17. 5	-8. 9	635, 679	590, 136	-7. 2
New orders.....thous. of yds..	222, 196	222, 911	302, 934	292, 034	243, 861	317, 078	340, 709	-16. 5	-28. 4	657, 787	535, 895	-18. 5
Shipments.....thous. of yds..	265, 450	276, 377	214, 148	331, 481	275, 543	345, 354	309, 118	-17. 2	-11. 2	654, 472	606, 024	-7. 4
Stocks, end of month.....thous. of yds..	362, 657	431, 426	461, 013	452, 819	445, 125	389, 195	372, 950	-1. 7	+19. 4			
Unfilled orders, end of mo.....thous. of yds..	395, 698	342, 232	431, 018	391, 571	360, 889	440, 585	472, 176	-7. 8	-23. 6			
Fine cotton goods, production.....pieces..	454, 524	390, 501	367, 706	420, 190	350, 334	403, 300	410, 372	-15. 2	-13. 2	813, 672	776, 524	-4. 6
Cotton cloth:												
Imports.....thous. of sq. yds..	5, 936	5, 080	4, 508	4, 455	3, 505	6, 069	4, 400	-21. 3	-20. 3	10, 469	7, 960	-24. 0
Exports.....thous. of sq. yds..	43, 709	35, 720	34, 657	39, 153	32, 045	55, 186	51, 492	-18. 2	-37. 8	106, 678	71, 198	-33. 3
Fabric for tire manufacture:												
Consumption.....thous. of lbs..	13, 707	10, 269	8, 677			19, 779	20, 327					
Elastic webbing, shipments.....thous. of dolls..	1, 600	1, 413	1, 149	1, 444	1, 421	1, 412	1, 572	-1. 6	-9. 6	2, 984	2, 865	-4. 0
Prices:												
Print cloth, 64 x 60.....dolls. per yd..	.078	.076	.069	.068	.065	.076	.075	-4. 4	-13. 3			
Sheeting, brown.....dolls. per yd..	.087	.087	.084	.083	.079	.090	.089	-4. 8	-11. 2			

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	TEXTILES—Continued											
Cotton Finishing												
White, dyed and printed (outside mills):												
Billings, finished goods.....thous. of yds...	81,549	63,663	61,816	63,457	64,271	81,676	81,418	+1.3	-21.1	163,094	127,728	-21.7
New orders, gray yardage.....thous. of yds...	78,806	57,971	54,172	71,723	57,834	86,302	88,460	-19.4	-34.6	174,762	129,557	-25.9
Shipments, finished goods.....cases...	46,173	38,616	36,521	41,793	37,014	53,196	54,391	-11.4	-31.9	107,587	78,807	-26.8
Stocks, finished goods, end mo.....cases...	37,635	37,634	38,220	35,428	32,967	36,374	37,153	-6.8	-11.3			
Operating activity.....per ct. of capacity...	65	55	50	57	62	65	74	+8.8	-16.2			
Unfilled orders, end of month.....days...	3.9	3.8	3.6	4.3	4.3	5.6	6.4	-2.8	-34.4			
Printed only (mills and outside):												
Production.....thous. of yds...	82,724	64,727	57,548	60,091	60,930	82,259	78,307	+1.4	-22.2	160,566	121,030	-24.6
Stocks, end of month.....thous. of yds...	87,446	84,924	80,825	73,230	72,642	80,212	81,206	-0.8	-10.5			
Silk												
Imports, raw.....thous. of lbs...	9,396	8,227	9,164	7,346	6,644	9,105	7,002	-9.6	-6.3	16,197	13,990	-13.6
Deliveries (consumption).....bales...	57,489	50,562	44,159	57,683	49,852	57,349	46,228	-13.6	+7.8	103,577	107,535	+3.8
Stocks, end of month:												
At warehouses.....bales...	64,129	76,452	90,772	76,264	68,646	49,943	46,993	-10.0	+46.1			
At manufacturing plants.....bales...	28,200	29,726	27,017	29,100		25,778	25,026					
Silk machinery activity:												
Broad looms.....per cent of normal...	102.6	101.2	98.3	105.6	109.7	94.7	99.8	+3.9	+9.9			
Narrow looms.....per cent of normal...	58.1	57.4	54.1	59.6	56.2	48.0	53.6	-5.7	+4.9			
Spinning spindles.....per cent of normal...	66.9	66.2	64.5	67.0	69.3	61.0	66.5	+3.4	+4.2			
Prices:												
Raw, Japanese, 13-15, N. Y.....dolls. per lb...	4.925	4.679	4.580	4.630	4.433	4.998	5.096	-4.3	-13.0			
Silk goods, composite.....dolls. per yd...	1.18	1.18	1.18	1.17	1.17	1.16	1.18	0.0	-0.8			
Rayon												
Imports.....thous. of lbs...	1,540	1,083	1,162	1,159	954	1,707	1,267	-17.7	-24.7	2,974	2,113	-29.0
Stocks, bonded, end of month.....thous. of lbs...	2,538	2,536	3,082	3,087		3,036	2,889					
Price, 150 denier, A grade, N. Y.....dolls. per lb...	1.15	1.15	1.15	1.15	1.15	1.50	1.30	0.0	-11.5			
Clothing												
Men's and boys' garments cut:												
Suits.....thous. of garments...	1,670	1,598	1,807	2,094		2,440	2,434					
Separate trousers.....thous. of garments...	2,253	1,818	1,576	1,999		2,134	2,080					
Overcoats.....thous. of garments...	716	443	242	256		350	374					
Overalls:												
Cut.....thous. of dozen garments...	471	384	291	2378	378	374	363	0.0	+4.1	737	756	+2.6
Net shipments.....thous. of dozen garments...	391	312	275	2341	355	311	327	+4.1	+8.6	638	696	+9.1
Unfilled orders, end of mo.....thous. of dozen garments...	170	157	168	207	158	261	238	-23.7	-33.6			
Hosiery:												
Production.....thous. of dozen pairs...	4,255	3,770	3,054	3,398	3,182	3,611	3,206	-6.4	-0.7	6,817	6,580	-3.5
Net shipments.....thous. of dozen pairs...	4,427	4,047	3,063	2,703	2,709	3,241	3,076	+0.2	-11.9	6,317	5,412	-14.3
Stocks, end of month.....thous. of dozen pairs...	7,736	7,628	7,658	7,940	8,788	7,564	6,970	+10.7	+26.1			
New orders.....thous. of dozen pairs...	4,521	3,747	2,848	2,607	2,587	3,345	2,928	-0.8	-11.6	6,273	5,194	-17.2
Unfilled orders, end of month.....thous. of dozen pairs...	4,139	3,736	3,327	3,020	2,842	4,237	4,191	-5.9	-32.2			
Knit underwear:												
Production.....thous. of dozen garments...	1,414	1,227	2,951	2,109	1,121	1,049	1,077	+1.1	+4.1	2,126	2,230	+4.9
Net shipments.....thous. of dozen garments...	1,564	1,219	2,873	2,944	977	948	995	+3.5	-1.8	1,943	1,921	-1.1
Stocks, end of month.....thous. of dozen garments...	1,295	1,258	2,120	2,143	1,549	1,271	1,310	+7.9	+18.2	2,803	2,233	-20.3
New orders.....thous. of dozen garments...	1,405	1,150	2,820	2,119	1,034	1,447	1,356	-13.6	-23.7			
Unfilled orders, end of month.....thous. of dozen garments...	1,620	1,513	2,150	2,163	1,677	2,009	2,358	+2.8	-28.9			
Burlaps and Fibers												
Imports:												
Burlaps.....thous. of lbs...	42,067	41,952	45,738	73,098	71,053	57,109	61,735	-2.8	+15.1	118,844	144,151	+21.3
Fibers (unmanufactured).....long tons...	26,613	30,554	24,950	30,262	23,640	34,109	43,524	-21.9	-45.7	77,633	53,902	-30.6
Pyroxylin-Coated Textiles												
Pyroxylin spread.....thous. of lbs...	3,875	2,783	2,460	3,098	3,093	5,389	6,073	-0.2	-19.1	11,462	6,191	-46.0
Shipments billed.....thous. of linear yards...	3,529	2,516	2,050	2,786	2,708	4,303	4,603	-2.8	-41.2	8,906	5,494	-38.3
Unfilled orders, end of month.....thous. of linear yards...	2,403	2,045	1,747	2,373	2,404	4,286	4,099	+1.3	-41.4			
Fur												
Sales by dealers.....thous. of dollars...	8,187	4,163	2,262	2,968	7,667	10,188	14,157	+158.3	-45.8	24,345	10,635	-56.3
Buttons												
Fresh-water pearl buttons:												
Production.....ratio to capacity...	48.1	48.4	48.7	42.3		46.4	52.1					
Stocks, end of month.....thous. of gross...	10,636	10,635	10,694	9,700		11,306	11,249					
Imports:												
Buttons—												
Product of Philippines.....thous. of gross...	66	59	64	64	71	30	70	+10.9	+1.4	100	135	+35.0
All other.....thous. of gross...	6	6	17	261	5	36	160			196	266	+35.7
Shells—												
Mother of pearl.....thous. of pounds...	828	1,355	1,225	566	443	331	601	-48.8	-35.9	1,022	1,309	+28.1
All other.....thous. of pounds...	52	7,042	124	32	516	283	240		+115.0	523	548	+4.8
Taqua nuts.....thous. of pounds...	3,015	2,013	1,667	1,149	477	3,084	2,383	-58.5	-80.0	5,467	1,626	-70.3

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or de-crease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
IRON AND STEEL												
Iron												
Manganese ore, imports...thous. of long tons..	25	24	15	38	22	15	21	-42.1	+4.8	36	60	+66.7
Iron ore:												
Imports.....thous. of long tons..	270	269	286	293	203	180	241	-30.7	-15.8	421	496	+17.8
Consumption.....thous. of long tons..	5,366	4,701	4,076	4,101	4,062	5,195	4,819	-1.0	-15.7	10,014	8,163	-18.5
Stocks, end of month:												
Total.....thous. of long tons..	41,135	41,500	37,646	33,528	29,475	30,189	25,414	-12.1	+16.0			
At furnaces.....thous. of long tons..	34,770	35,010	31,503	27,674	23,939	24,878	20,475	-13.5	+16.9			
On Lake Erie docks...thous. of long tons..	6,365	6,490	6,143	5,854	5,536	5,311	4,939	-5.4	+12.1			
Pig-iron production:												
Total, United States...thous. of long tons..	3,588	3,181	2,837	2,827	2,839	3,443	3,206	+0.4	-11.4	6,649	5,666	-14.8
Merchant furnaces...thous. of long tons..	685	724	613	613	555	791	707	-9.5	-21.5	1,498	1,168	-22.0
Canada.....thous. of long tons..	91	87	83	87	71	88	94	-18.4	-24.5	182	158	-13.2
Furnaces in blast, end of month:												
Furnaces.....number	203	177	157	172	179	202	207	+4.1	-13.5			
Capacity.....long tons per day..	113,600	98,450	88,250	96,370	102,250	111,985	115,770	+6.1	-11.7			
Ohio gray-iron foundries:												
Meltings—												
Actual.....long tons	23,855	17,196	13,782	15,419	16,012	19,710	23,037	+3.8	-30.5	42,747	31,431	-26.5
Normal.....long tons	20,627	19,105	18,726	18,693	17,751	18,917	22,288	-5.1	-20.4	41,205	36,444	-11.6
Ratio to normal...per cent of normal	115.6	90.0	73.5	82.4	90.2	104.2	103.3	+9.5	-12.7			
Stocks, end of month...per cent of normal	117	109	118	129	145	126	121	+12.4	+19.8			
Receipts.....per cent of normal	112	84	73	88	101	105	107	+14.8	-5.6			
Malleable castings:												
Production.....short tons	² 65,526	² 46,459	² 46,029	² 61,145	66,024	73,125	73,875	+8.0	-10.6	147,000	127,169	-13.5
Operating activity...per ct. of capacity	² 66.7	² 47.7	² 47.3	² 61.2	67.4	77.7	77.1	+10.1	-12.6			
Shipments.....short tons	² 58,733	² 46,487	² 47,689	² 57,596	58,847	77,231	71,093	+2.2	-17.2	148,324	116,443	-21.5
New orders.....short tons	² 61,164	² 40,145	² 43,475	² 57,801	60,723	76,787	77,976	+5.1	-22.1	154,763	118,524	-23.4
Wholesale prices:												
Foundry, No. 2,												
northern.....dolls. per long ton..	20.26	20.26	20.26	20.26	20.26	19.26	19.26	0.0	+5.2			
Basic (valley furnace)...dolls. per long ton..	18.50	18.50	18.50	18.50	18.50	17.50	17.50	0.0	+5.7			
Composite pig iron...dolls. per long ton..	19.03	19.10	19.10	19.08	18.99	19.05	19.07	-0.5	-0.4			
Cast-iron Boilers and Radiators												
Round boilers:												
Production.....thous. of lbs.	15,407	11,430	8,972	10,356	10,659	11,248	12,488	+2.9	-14.6	23,736	21,015	-11.5
Shipments.....thous. of lbs.	23,487	12,162	10,453	7,304	5,516	9,605	7,676	-24.5	-28.1	17,281	12,820	-25.8
New orders.....thous. of lbs.	19,583	10,652	9,184	6,366	5,158	8,224	7,071	-19.0	-27.1	15,295	11,524	-24.7
Stocks, end of month...thous. of lbs.	66,509	66,476	65,855	67,836	73,404	77,015	80,880	+8.2	-9.2			
Square boilers:												
Production.....thous. of lbs.	32,819	23,521	17,398	20,033	21,355	32,938	31,631	+6.6	-32.5	64,569	41,388	-35.9
Shipments.....thous. of lbs.	43,135	24,382	20,010	13,836	10,191	17,888	14,269	-26.3	-28.6	32,157	24,027	-25.3
New orders.....thous. of lbs.	35,715	23,109	17,972	13,345	10,415	15,866	13,111	-22.0	-20.6	28,977	23,700	-18.0
Stocks, end of month...thous. of lbs.	135,030	134,117	126,800	132,837	143,638	136,986	153,759	+8.1	-6.6			
Radiators:												
Production...thous. sq. ft. heating surface..	12,299	8,634	6,821	9,253	9,222	14,512	14,354	-0.3	-35.8	28,866	18,475	-36.0
Shipments...thous. sq. ft. heating surface..	18,214	12,501	9,905	6,047	4,433	9,407	7,316	-26.7	-39.4	16,723	10,480	-37.3
New orders...thous. sq. ft. heating surface..	16,148	12,648	8,681	6,276	4,845	8,998	7,315	-22.8	-33.8	16,313	11,121	-31.8
Stocks, end of month...thous. sq. ft. heating surface..	53,715	49,500	46,371	49,717	54,589	52,599	59,721	+9.8	-8.6			
Gas-fired boilers:												
Shipments.....dollars	522,400	273,092	188,063	118,418	111,401	115,100	129,966	-5.9	-14.3	245,066	229,819	-6.2
Shipments.....thous. B. t. u.	427,629	241,285	164,635	100,030	91,644	88,463	100,888	-8.4	-9.2	189,351	191,674	+1.2
Production.....thous. B. t. u.	317,234	187,095	87,949	115,939	188,190	202,075	186,770	-12.9	+0.8	388,845	404,129	+3.9
Stocks, end of month...thous. B. t. u.	808,223	764,098	702,144	845,210	917,929	704,041	706,569	+8.6	+29.9			
Crude Steel												
Steel ingots, production:												
United States, total...thous. of long tons..	4,512	3,513	2,896	3,786	4,068	4,490	4,326	+7.4	-6.0	8,816	7,854	-10.9
Ratio to capacity...per cent	85	69	59	72	86	85	92	+19.4	-6.5			
Canada.....thous. of long tons..	116	94	82	115	107	116	117	-7.0	-8.5	233	222	-4.7
U. S. Steel Corporation:												
Unfilled orders, end of month...thous. of long tons..	4,087	4,125	4,417	4,469	4,480	4,109	4,144	+0.2	+8.1			
Steel castings:												
Production—												
Total.....short tons	² 120,950	² 110,310	² 106,597	² 109,220	107,657	93,413	97,568	-1.4	+10.3	190,981	216,877	+13.6
Ratio to capacity...per cent	² 83	² 76	² 73	² 76	74	64	67	-2.6	+10.4			
Railroad specialties...short tons	² 50,102	² 49,994	² 34,667	² 48,292	43,352	35,689	40,282	-10.2	+7.6	75,971	91,644	+20.6
Miscellaneous.....short tons	² 70,848	² 60,316	² 71,930	² 60,928	64,305	57,724	57,286	+5.5	+12.3	115,010	125,233	+8.9
New orders—												
Total.....short tons	² 136,221	² 97,899	² 90,306	² 101,643	114,664	124,313	115,639	+12.8	-0.8	239,952	216,307	-9.9
Ratio to capacity...per cent	² 94	² 67	² 62	² 70	79	85	85	+12.9	0.0			
Railroad specialties...short tons	² 72,432	² 41,361	² 33,980	² 42,502	53,961	64,809	58,903	+26.8	-8.5	123,712	96,403	-22.1
Miscellaneous.....short tons	² 63,789	² 56,538	² 56,326	² 59,141	60,703	59,504	56,736	+2.7	+7.1	116,240	119,904	+3.2
Sheets, black, blue, galvanized, and full finished:												
Production—												
Total.....net tons	319,660	204,071	181,916	291,529	275,952	391,404	326,468	-5.4	-15.5	717,872	567,481	-20.9
Ratio to capacity...per cent	95.3	65.8	60.0	77.6	83.9	109.9	109.7	+8.1	-23.5			
Stocks, end of month—												
Total.....net tons	169,300	178,736	173,619	191,532	201,609	198,874	188,441	+5.3	+7.0			
Unsold.....net tons	63,174	71,680	72,611	73,948	75,771	63,739	61,058	-2.5	+24.1			
Shipments.....net tons	291,135	207,200	178,575	241,677	241,441	362,229	325,848	-0.1	-25.9	688,077	483,118	-29.8
New orders.....net tons	258,810	134,391	234,699	382,122	203,315	438,390	389,496	-46.8	-17.8	827,886	585,437	-29.3
Unfilled orders, end of month...net tons	478,038	395,696	443,127	558,412	517,215	652,602	706,955	-7.4	-26.8			
Wholesale prices:												
Steel billets, Bessemer...dolls. per long ton..	35.00	35.00	34.60	34.00	33.00	33.00	33.25	-2.9	-0.8			
Iron and steel comp...dolls. per long ton..	36.27	36.04	35.95	35.64	35.24	36.25	36.25	-1.1	-2.8			
Structural steel beams...dolls. per lb.	1.90	1.90	1.90	1.90	1.80	1.90	1.90	-5.3	-5.3			
Composite finished steel...dolls. per lb.	2.51	2.50	2.50	2.46	2.43	2.55	2.55	-1.2	-4.7			

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
IRON AND STEEL—Continued												
Fabricated Steel Products												
Steel barrels:												
Production.....barrels.....	629,976	572,621	624,365	582,407	604,769	558,492	567,398	+3.8	+6.6	1,125,890	1,187,116	+5.4
Ratio to capacity.....per cent.....	52.5	50.8	54.7	48.7	46.7	48.4	47.6	-4.1	-1.9			
Shipments.....barrels.....	638,681	567,257	618,003	574,763	599,324	548,581	563,532	+4.3	+6.4	1,112,113	1,174,087	+5.6
Stocks, end of month.....barrels.....	56,212	61,570	67,938	75,582	80,967	86,376	90,242	+7.1	+34.4			
Unfilled orders, end of month.....barrels.....	901,621	993,601	1,338,933	1,408,511	1,591,927	1,661,710	1,543,846	+13.0	+3.1			
Track work, production.....short tons.....	12,902	11,326	10,826	11,830	12,524	10,344	12,180	+5.9	+2.8	22,524	24,354	+8.1
Iron, steel, and heavy hardware sales.....rel. to Jan., 1921.....	243	207	---	192	175	---	---					
Lock washers, shipments.....thous. of dolls.....	263	159	175	287	295	290	317	+2.8	-6.9	607	582	-4.1
Steel plate, fabricated, new orders:												
Total.....short tons.....	32,099	42,295	23,535	25,076	27,193	32,805	38,684	-46.7	-53.7	91,499	77,269	-15.5
Ratio to capacity.....per cent.....	39	53	30	24	35	41	74	-45.9	-53.7			
Oil storage tanks.....short tons.....	8,786	9,033	3,669	7,432	7,399	11,035	16,093	-0.5	-54.0	27,148	14,828	-46.4
Steel bars, cold finished, shipments.....short tons.....	39,296	27,648	23,705	33,845	37,745	50,276	52,934	+5.3	-28.7	103,210	73,590	-28.7
Steel boilers, new orders:												
Quantity.....number.....	1,712	1,239	1,029	942	881	1,075	1,042	-6.5	-15.5	2,117	1,823	-13.9
Area.....thous. of sq. ft.....	1,871	1,160	880	1,082	935	1,252	1,196	-13.0	-21.8	2,448	2,017	-17.6
Iron and steel:												
Exports.....long tons.....	247,646	241,829	215,242	225,090	197,426	274,296	259,711	-12.3	-24.0	534,007	422,516	-20.9
Imports.....long tons.....	49,502	44,045	39,022	34,710	35,830	45,573	45,333	+3.2	-21.0	90,906	70,540	-22.4
Water softening apparatus, shipments.....units.....	1,450	1,068	831	1,240	1,141	1,080	1,506	-8.0	-24.2	2,586	2,981	+7.9
Water systems, shipments.....units.....	12,254	8,758	7,237	8,296	7,853	7,935	6,450	-5.3	+21.8	14,385	16,149	+12.3
Pumps:												
Domestic shipments—												
Pitcher, hand, etc.....units.....	41,566	35,062	37,849	44,389	49,127	50,723	48,135	+10.7	+2.1	98,858	93,516	-5.4
Power, horizontal type.....units.....	2,532	1,780	1,601	1,449	1,965	2,265	2,085	+35.6	-5.8	4,350	3,414	-21.5
Steam, power, and centrifugal—												
New orders.....thous. of dolls.....	1,868	1,533	1,580	1,543	---	1,695	1,432					
Shipments.....thous. of dolls.....	1,934	1,535	1,763	1,394	---	1,481	1,578					
Unfilled orders, end of mo.....thous. of dolls.....	3,981	3,975	3,787	3,842	---	3,800	3,659					
Agricultural machinery and equipment:												
Shipments—												
Total.....rel. to 1923-25.....	167.4	135.2	168.2	203.7	---	156.3	210.2					
Domestic.....rel. to 1923-25.....	134.8	90.0	117.6	159.8	---	135.5	172.8					
Foreign.....rel. to 1923-25.....	334.6	367.1	427.9	428.8	---	293.4	405.0					
Production.....rel. to 1923-25.....	157.1	163.3	171.3	177.8	---	168.1	177.3					
Foundry equipment:												
New orders.....rel. to 1922-24.....	245.3	128.6	208.0	160.1	196.4	180.5	197.0	+22.7	-0.3			
Shipments.....rel. to 1922-24.....	214.1	152.2	201.9	223.6	169.6	177.3	214.8	-24.2	-21.0			
Unfilled orders, end of mo.....rel. to 1922-24.....	492.5	445.4	473.2	395.6	424.7	336.1	321.2	+7.4	+32.2			
Stokers, mechanical, sales:												
Quantity.....number.....	178	107	79	253	73	97	80	+37.7	-8.7	177	120	-28.8
Power.....horsepower.....	56,108	39,469	44,976	13,198	22,648	42,392	31,554	+71.6	-28.2	73,946	35,846	-51.5
Machine tools:												
New orders.....rel. to 1922-24.....	322	179	166	182	170	292	336	-6.6	-49.4			
Shipments.....rel. to 1922-24.....	315	251	243	183	214	255	303	+16.9	-29.4			
Unfilled orders, end of mo.....rel. to 1922-24.....	697	629	561	565	541	676	702	-4.2	-22.9			
Electric hoists:												
New orders—												
Quantity.....number.....	461	412	392	369	387	533	750	+4.9	-48.4	1,283	756	-41.1
Value.....dollars.....	231,372	214,661	227,897	194,832	184,502	253,194	346,810	-5.3	-46.8	600,004	379,334	-36.8
Shipments.....dollars.....	233,215	224,647	198,500	220,678	222,107	213,663	201,404	+0.6	+10.3	415,067	442,785	+6.7
Electric overhead cranes:												
Shipments.....thous. of dolls.....	1,322	1,162	1,380	977	773	852	586	-20.9	+31.9	1,438	1,750	+21.7
New orders.....thous. of dolls.....	1,142	1,405	734	406	832	1,383	1,173	+104.9	-29.1	2,556	1,238	-51.6
Unfilled orders, end of mo.....thous. of dolls.....	4,699	4,933	4,429	3,765	3,836	2,547	3,285	+1.9	+16.8			
Woodworking machinery:												
New orders.....thous. of dolls.....	1,251	1,009	1,013	1,111	1,120	1,949	1,893	+0.8	-40.8	3,842	2,231	-41.9
Shipments.....thous. of dolls.....	1,568	1,186	1,074	967	934	1,420	1,490	-3.4	-37.3	2,910	1,901	-34.7
Shipments.....number of machines.....	1,246	852	754	759	536	998	1,008	-29.4	-46.6	2,001	1,295	-35.3
Cancellations.....thous. of dolls.....	47	35	20	12	64	50	57	+12.3	+1.3	107	76	-29.0
Unfilled orders, end of mo.....thous. of dolls.....	1,461	1,257	1,208	1,347	1,488	2,367	2,579	+10.5	-42.3			
Electric industrial trucks and tractors:												
Shipments, domestic—												
Total.....number of vehicles.....	134	110	124	123	106	133	131	-13.8	-19.1	264	229	-13.3
Exports.....number of vehicles.....	33	8	27	17	7	19	3	-58.8	+133.3	22	24	+9.1
Fire-extinguishing equipment, shipments:												
Motor vehicles.....number.....	118	134	1127	91	83	90	76	-8.8	+9.2	166	174	+4.8
Hand types.....number.....	47,840	36,078	34,330	43,651	47,096	45,608	47,376	+7.9	-0.6	92,984	90,747	-2.4
Patents issued:												
Total, all classes.....number.....	4,462	3,519	4,634	3,163	3,592	3,835	3,127	+13.6	+14.9	6,962	6,755	-3.0
Agricultural implements.....number.....	63	43	49	40	38	47	41	-5.0	-7.3	88	78	-11.4
Internal-combustion engines.....number.....	86	40	62	42	57	51	48	+35.7	+18.8	99	99	0.0
Oil burners:												
Shipments, total.....number of burners.....	15,037	7,213	4,780	2,469	2,940	3,037	3,113	-15.2	-5.6	6,150	6,409	+4.2
Stocks, end of mo.....number of burners.....	7,480	6,486	5,938	2,469	6,277	4,494	4,442	+14.8	+41.3			
New orders.....number of burners.....	13,346	6,661	3,933	3,427	3,003	3,508	3,201	-12.4	-6.2	6,709	6,730	+0.3
Unfilled orders, end of mo.....number of burners.....	2,318	1,766	919	931	1,455	1,322	1,410	+56.3	+3.2			
NONFERROUS METALS												
Copper												
Production:												
Mines.....short tons.....	82,575	75,934	74,772	67,838	59,547	86,325	84,735	-12.2	-28.7	171,060	127,385	-52.5
Smelter.....short tons.....	97,405	94,861	89,789	84,451	74,094	101,151	95,234	-12.3	-22.2	196,385	158,545	-19.3
Refined (N. and S. America).....short tons.....	152,840	145,376	138,203	132,374	121,195	154,472	141,885	-8.4	-14.3	295,857	253,569	-14.3
World production, blister.....short tons.....	175,360	170,585	165,728	154,252	139,229	178,783	167,090	-9.7	-16.7	345,873	293,481	-15.1
Domestic shipments, refined.....short tons.....	105,729	68,979	58,150	69,932	61,879	100,135	98,771	-11.5	-37.4	198,906	131,811	-33.7
Exports.....short tons.....	44,502	27,524	28,807	24,808	24,427	52,523	49,896	-1.5	-51.0	102,419	49,235	-51.9
Stocks (North and South America), end of mo.:												
Refined.....short tons.....	88,401	126,919	171,320	203,404	233,123	62,749	55,213	+14.6	+322.2			
Blister.....short tons.....	254,786	258,192	268,406	270,209	264,789	245,210	241,085	-2.0	+9.8			
Wholesale price, electrolytic.....dolls. per lb.....	.1778	.1778	.1778	.1778	.1778	.1660	.1773	0.0	+0.3			

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
NONFERROUS METALS—Continued												
Tin												
Deliveries (consumption).....long tons	6,515	6,595	5,740	5,815	4,940	8,795	6,750	-15.0	-26.8	15,545	10,755	-30.8
Stocks, end of month:												
World visible supply.....long tons	25,580	25,171	28,140	29,032	33,581	24,237	26,402	+15.7	+27.2			
United States.....long tons	2,720	2,050	2,820	3,081	3,626	2,611	3,307	+17.7	+9.6			
Imports.....long tons	6,201	5,818	5,253	7,079	5,460	9,498	7,325	-22.9	-25.5	16,823	12,539	-25.5
Wholesale price, pig tin.....dolls. per lb.	.4235	.4022	.3979	.3891	.3867	.4916	.4937	-0.6	-21.7			
Zinc												
Retorts in operation, end of month.....number	66,996	58,083	57,375	58,849	57,289	63,314	67,631	-2.7	-15.3			
Production.....short tons	50,938	47,620	48,590	51,133	44,924	49,709	48,154	-12.1	-6.7	97,863	96,057	-1.8
Stocks, end of month.....short tons	57,116	63,061	77,262	87,933	90,703	45,418	40,620	+3.2	+123.3			
Ore, Joplin district:												
Shipments.....short tons	48,810	42,418	39,641	2 38,031	35,095	48,777	50,848	-7.3	-31.0	99,625	73,126	-26.6
Stocks, mines, end of month.....short tons	44,622	57,943	47,637	29,313	25,531	27,309	24,535	-12.9	+4.1			
Price, slab, prime western.....dolls. per lb.	.0674	.0624	.0567	.0523	.0518	.0635	.0635	-1.0	-18.4			
Lead												
Production.....short tons	61,813	59,760	55,025	2 48,308	51,114	58,607	48,254	+5.8	+5.9	106,861	99,422	-7.0
Ore shipments:												
Joplin district.....short tons	7,588	8,850	6,434	2 2,847	3,477	6,097	8,929	+22.1	-61.1	15,026	6,324	-57.9
Utah.....short tons	77,693	89,545	76,421	87,569		71,412	71,282					
Receipts in U. S. ore.....short tons	58,364	51,674	53,286	47,862		53,881	50,954					
Stocks, U. S. and Mexico, end mo. short tons	167,192	161,671	151,586	149,403		156,182	160,597					
Price, pig, desilverized, N. Y.....dolls. per lb.	.0687	.0629	.0625	.0625	.0624	.0665	.0685		-8.9			
Other Metal Products												
Babbitt metal, consumption:												
Total apparent.....thous. of lbs.	5,519	4,522	3,343	2 4,408	3,727	6,093	5,720	-15.4	-34.8	11,813	8,135	-31.1
Direct by producers.....thous. of lbs.	1,512	1,316	949	2 1,003	901	1,217	1,025	-10.2	-12.1	2,242	1,904	-15.1
Sale to consumers.....thous. of lbs.	4,007	3,206	2,394	2 3,405	2,826	4,876	4,696	-17.0	-39.8	9,572	6,231	-34.9
Copper wire cloth:												
Production.....thous. of sq. ft.	422	441	437	486	423	461	411	-13.0	+2.9	872	909	+4.2
Shipments.....thous. of sq. ft.	417	367	377	437	351	412	305	-19.7	+15.1	717	788	+9.9
Stocks, end of month.....thous. of sq. ft.	933	973	1,021	1,051	1,090	1,064	1,077	+4.6	+2.0			
New orders.....thous. of sq. ft.	454	504	336	435	423	376	410	-2.8	+3.2	786	858	+9.2
Unfilled orders, end of mo. thous. of sq. ft.	257	302	402	246	303	302	325	+23.2	-6.8			
Make and hold orders, end of month.....thous. of sq. ft.	499	570	546	485	561	486	494	+15.7	+13.6			
Pails and tubs, galvanized:												
Production.....dozens	129,282	102,400	112,962	145,588		151,106	151,019					
Shipments.....dozens	135,197	90,684	107,733	154,731		165,745	170,813					
Other galvanized ware:												
Production.....dozens	45,117	32,951	33,114	33,982		40,649	60,471					
Shipments.....dozens	49,511	30,123	25,441	29,165		36,896	43,329					
ENAMELED SHEET-METAL WARE:												
Shipments.....dozen pieces	371,292	305,714	391,523	332,092		427,871	390,577					
Electrical Equipment												
Electrical porcelain, shipments:												
Standard.....dollars	123,222	109,258	58,354	135,413	87,952	141,065	102,547	-35.0	-14.2	243,612	223,365	-8.3
Special.....dollars	176,323	144,652	121,308	127,890	116,754	128,299	144,025	-8.7	-18.9	272,324	244,584	-10.2
Glazed nail knobs.....thous. of pieces	4,404		1,750	4,454	2,701	4,383	3,761	-39.47	-28.2	8,114	7,155	-11.2
Unglazed nail knobs.....thous. of pieces	1,605		1,186	2,309	1,863	2,906	2,103	-19.3	-11.4	5,009	4,172	-16.7
Tubes.....thous. of pieces	1,645		717	1,627	1,291	1,911	1,468	-20.7	-12.1	3,379	2,918	-13.6
Laminated phenolic products, shipments:												
Outlet boxes and covers, shipments.....pieces	2,850,984	2,036,381	1,465,610	2,448,375	1,921,846	3,273,963	2,168,723	-21.5	-11.4	5,442,686	4,370,221	-19.7
Vulcanized fiber:												
Shipments, total.....thous. of dolls.	942	718	599	709		767	759					
Consumption.....thous. of lbs.	4,013	2,999	2,576	2,595		3,531	2,974					
Industrial reflectors, sales.....units	179,068	137,942	132,476	130,369	106,021	149,046	137,291	-18.7	-22.8	286,337	236,390	-17.4
Power cables, shipments.....thous. of ft.	3,288	2,297	2,087	1,627		1,995	1,711					
Power switching equipment:												
New orders:												
Indoor.....dollars	175,077	130,408	146,189	159,869	135,513	155,569	127,807	-15.2	+6.0	283,376	295,382	+4.2
Outdoor.....dollars	503,226	371,592	364,769	464,069	346,035	390,866	304,866	-25.4	+13.5	695,732	810,104	+16.4
Motors (direct current):												
New orders.....dollars	1,214,044	921,543	999,790	910,301		735,875	1,013,394					
Billings (shipments).....dollars	1,089,590	860,552	907,048	776,071		724,498	779,650					
Flexible cords:												
Shipments.....thous. of ft.	51,840	43,897	33,916	40,280		49,909	45,973					
Stocks, end of month.....thous. of ft.	52,459	48,305	58,239	48,494		41,757	45,238					
Welding sets, new orders:												
Single operator.....units	302	248	247	256	280	281	328	+9.4	-14.6	609	536	-12.0
Multiple operator.....units	7	7	9	1	5	11	4	+400.0	+25.0	15	6	-60.0
Nonmetallic conduits, shipments.....thous. of ft.	8,015	6,180	4,727		4,383	7,475	5,048					
Electric furnaces, new orders.....kilowatts	7,208	3,218	2,991	8,630	4,015	10,769	12,092	-53.5	-66.8	22,861	12,645	-45.7
Manufactured mica:												
Shipments.....thous. of dolls.	274	179	149	227	206	285	289	-9.3	-28.7	574	433	-24.6
Unfilled orders, end of mo. thous. of dolls.	206	167	224	219	230	305	338	+5.0	-32.0			
Delinquent accounts, electrical trade:												
Amount.....dollars	167,129	172,495	184,652	240,428	233,176	124,671	2 159,913	-3.0	+45.8			
Delinquent firms.....number	1,392	1,152	1,170	1,486	1,465	1,037	2 1,128	-1.4	+29.9			

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	AUTOMOBILES											
Production:												
United States—												
Total.....	380,017	217,570	120,004	² 273,170	323,962	401,037	466,418	+18.6	-30.5	867,455	597,132	-31.2
Passenger cars.....	320,327	169,282	91,235	234,527	275,811	347,332	405,704	+17.6	-32.0	753,090	510,338	-32.2
Taxicabs.....	868	1,646	1,483	572	1,022	2,064	2,108	+78.7	-51.5	4,172	1,594	-61.8
Trucks.....	58,822	46,642	27,286	² 38,071	47,129	51,591	58,602	+23.8	-19.6	110,193	85,200	-22.7
Canada—												
Total.....	14,523	9,424	5,495	10,388	15,548	21,501	31,287	+49.7	-50.3	52,788	25,936	-50.9
Passenger cars.....	8,975	7,137	4,426	8,856	13,021	17,164	25,584	+47.0	-49.1	42,748	21,877	-48.8
Trucks.....	5,548	2,287	1,069	1,532	2,527	4,337	5,703	+64.9	-55.7	10,040	4,059	-59.6
Exports (assembled):												
From United States—												
Total.....	32,443	25,815	32,115	28,169	25,482	37,665	55,058	-9.5	-53.7	92,723	53,651	-42.1
Passenger cars.....	20,931	13,929	13,830	15,293	18,732	24,631	35,253	+22.5	-46.9	59,884	34,025	-43.2
Trucks.....	11,512	11,886	18,285	12,876	6,750	13,034	19,805	-47.6	-65.9	32,839	19,626	-59.6
From Canada—												
Total.....	9,637	5,905	4,806	2,953	4,237	8,971	10,849	+43.5	-60.9	19,820	7,190	-63.7
Passenger cars.....	5,635	3,522	3,015	1,317	2,498	5,640	7,694	+89.7	-67.5	13,334	3,815	-71.4
Trucks.....	4,002	2,383	1,851	1,636	1,739	3,331	3,155	+6.3	-44.9	6,486	3,375	-48.0
Shipments (General Motors Co.):												
To dealers.....	122,104	60,977	40,222	106,509	126,196	127,580	175,148	+18.5	-27.9	302,728	232,705	-23.1
To users.....	139,319	90,871	48,253			104,488	138,570					
Accessories and parts:												
Shipments—												
Original equipment rel. to Jan., 1925.....	160	78	34	135	141	212	243	+4.4	-42.0			
Replacement parts rel. to Jan., 1925.....	166	139	132	137	131	141	136	-4.4	-3.7			
Accessories rel. to Jan., 1925.....	91	83	90	79	66	77	69	-16.5	-4.3			
Service parts rel. to Jan., 1925.....	147	115	119	135	151	192	192	+11.9	-21.4			
Rim production.....	1,647	597	879	1,601	1,653	1,835	2,265	+3.2	-28.0	4,100	3,254	-20.6
New passenger-car registrations:												
Total.....	288,782	183,616	138,732	180,094		² 219,760	235,266					
Highest price group.....	11,561	7,150	5,188	5,210		² 6,452	6,187					
Second highest group.....	47,606	26,768	21,252	26,083		² 37,786	34,437					
Third highest group.....	47,795	33,292	28,165	30,488		² 49,372	50,192					
Lowest price group.....	181,450	116,252	84,007	188,055		² 124,583	144,006					
Miscellaneous.....	370	154	120	258		² 1,567	444					
FUELS												
Coal and Coke												
Bituminous:												
Production—												
United States.....	51,235	45,677	² 46,814	49,778	39,555	51,456	47,906	-20.5	-17.4	90,356	89,333	-10.1
Canada.....	1,560	1,519	1,488	1,630		1,537	1,611					
Exports.....	1,596	1,486	1,084	953	835	917	996	-12.4	-16.4	1,916	1,788	-6.7
Consumption—												
By vessels.....												
By electric power.....	343	333	268	283		284	267					
plants.....	4,061	3,778	4,025	⁴ 4,028	3,443	4,146	3,713	-14.5	-7.3	7,859	7,471	-4.9
By railroads.....	8,444	7,836	8,011	8,210		² 8,635	8,241					
By coke plants—												
United States.....	7,389	6,884	6,575	² 6,538	6,248	7,028	6,581	-5.2	-5.1	13,614	12,836	-5.7
Canada.....	324	303	317	312		300	279					
Prices—												
Mine aver. (spot).....	1.90	1.88	1.88	1.86	1.78	1.85	1.81	-4.3	-4.3			
Wholesale, comp.....	3.961	3.959	3.980	3.982	3.951	4.035	4.021	-0.8	-1.9			
Retail, composite.....	8.98	9.00	9.05	9.11	9.04	9.09	9.07	-0.8	-0.3			
Anthracite:												
Production.....	8,332	6,042	7,658	7,038	6,157	7,337	6,676	-12.5	-7.7	14,007	13,195	-5.8
Exports.....	396	267	313	271	262	298	271	-3.3	-4.4	572	533	-6.8
Prices—												
Wholesale, comp.....	12.999	12.999	12.999	13.033	13.033	13.107	13.107	0.0	-0.6			
Retail, composite.....	14.98	14.98	15.00	15.00	15.00	15.06	15.07	0.0	-0.5			
Coke:												
Production, U. S.—												
Beehive.....	470	413	345	309	275	479	440	-11.0	-37.5	919	584	-36.5
By-product.....	4,610	4,321	4,181	4,196	4,004	4,360	4,090	-4.6	-2.1	8,450	8,200	-3.0
Production, Canada.....	233	224	222	225		221	202					
Exports.....	126	98	111	101	75	104	76	-25.7	-1.3	180	176	-2.2
Price, furnace, Connellsville.....	2.70	2.69	2.64	2.59	2.60	2.75	2.96	+0.4	-12.2			
Petroleum												
Crude petroleum:												
Production.....	88,099	78,161	80,339	² 75,050	67,923	² 72,399	² 65,952	-9.5	+3.0	138,351	152,577	+10.3
Stocks at end of month—												
Total (comparable).....	384,502	380,393	381,391	379,826	381,406	372,913	376,939	+0.4	+1.2			
Tank farms and pipe lines.....												
Refineries.....	339,639	336,158	335,084	335,318	335,728	330,059	² 331,946	+0.1	+1.1			
California—	44,863	44,235	46,307	44,808	45,678	42,854	² 44,993	+2.6	+1.5			
Light.....	42,041	41,571	41,049	41,868	44,241	20,110	² 23,075	+5.7	+91.7			
Heavy.....	111,076	110,718	106,499	¹ 107,123	107,739	98,991	² 98,991	+0.6	+8.8			
Imports.....	5,766	4,535	5,877	5,450	4,321	8,075	7,016	-20.7	-38.4	15,091	9,771	-35.3
Consumption (run to stills).....	88,390	81,061	80,663	80,163	72,414	78,825	72,031	-9.7	+0.5	150,856	152,577	+1.1
Refinery operations.....	79	75	72	71	71	76	76	0.0	-6.6			
Price, Kansas-Oklahoma.....	1.300	1.300	1.300	1.229	1.181	1.185	1.110	-3.9	+6.4			
Oil wells completed.....	1,556	1,407	1,060	1,060	969	1,111	1,090	-8.6	-11.1	2,201	2,029	-7.8
Mexico—												
Production.....	3,085	3,400	3,926	3,719		3,515	3,130					
Exports.....	2,395	1,923	1,705	1,517		1,895	1,208					
Venezuela—												
Production.....	11,591	11,252	12,182	11,518	10,899	11,521	10,326	-5.4	+5.5	21,847	22,417	+2.6
Exports.....	10,718	11,235	11,929	10,781	10,266	9,982	9,032	-4.8	+13.7	19,014	21,047	+10.7

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
FUELS—Continued												
Petroleum—Continued												
Gasoline:												
Production—												
Raw (at refineries)..... thous. of bbls.	39,663	37,350	37,464	36,654	33,949	34,690	29,590	-7.4	+14.7	266,280	70,603	+6.5
Natural gas (at plants)..... thous. of bbls.	4,912	4,504	4,457	4,410	4,248	3,983	3,736	-3.7	+13.7	7,719	8,658	+12.2
Exports..... thous. of bbls.	5,896	3,938	5,890	5,291	4,809	4,506	3,797	-9.1	+26.7	8,303	10,100	+21.6
Consumption..... thous. of bbls.	32,816	31,502	26,881	25,731	26,509	22,962	22,416	+3.0	+18.3			
Stocks, end of month—												
Raw (at refineries)..... thous. of bbls.	35,042	37,780	43,132	49,676	53,229	40,669	45,729	+7.2	+16.4			
Natural gas (at plants)..... thous. of bbls.	490	514	604	611	572	741	821	-6.4	-30.3			
Prices—												
Wholesale, New York.....dolls. per gal.	.165	.165	.165	.165	.158	.178	.170	-4.2	-7.1			
Retail, wagon, 50 cities.....dolls. per gal.	.158	.165	.165			.151	.147					
Retail distribution, 41 States.....thous. of gals.	997,007	895,124	839,313	759,771		684,445	629,580					
Kerosene:												
Production..... thous. of bbls.	5,379	4,829	4,848	4,489	4,398	4,700	4,435	-2.0	-0.8	9,135	8,887	-2.7
Exports..... thous. of bbls.	2,237	1,302	1,676	1,938	1,198	1,896	1,582	-38.2	-24.3	3,478	3,136	-9.8
Consumption..... thous. of bbls.	3,136	3,040	3,151	2,997	3,205	2,956	3,119	+6.9	-8.9	6,475	6,202	-4.2
Stocks at refineries, end mo. thous. of bbls.	8,865	9,366	9,039	8,571	8,565	8,865	8,210	-0.1	+4.3			
Price, 150° water white.....dolls. per gal.	.072	.073	.067	.064	.062	.077	.075	-3.1	-17.3			
Gas and fuel oils:												
Production..... thous. of bbls.	38,974	36,134	36,261	33,213	31,185	36,838	34,331	-6.1	-9.2	71,169	64,398	-9.5
Consumption—												
By vessels..... thous. of bbls.	4,540	4,110	4,100	4,223		3,915	4,252					
By electric pow. plants..... thous. of bbls.	1,083	1,173	1,112	1,090	748	939	860	-31.4	-13.0	1,799	1,838	+2.2
By railroads..... thous. of bbls.	4,961	4,564	4,413	4,556		4,476	4,235					
Price, Okla. 24-26, refineries.....dolls. per bbl.	.838	.863	.929	.950	.913	.625	.638	-3.9	+43.1			
Lubricating oil:												
Production..... thous. of bbls.	2,885	2,555	2,765	2,880	2,727	2,945	2,503	-5.3	+8.9	5,448	5,607	+2.9
Consumption..... thous. of bbls.	1,378	1,858	1,716	1,288	1,622	1,521	1,751	+52.3	+12.1	3,272	3,250	-0.7
Stocks at refineries, end mo. thous. of bbls.	8,021	8,117	8,269	8,956	8,852	8,649	8,534	-1.2	+3.7			
Price, cylinder oil.....dolls. per gal.	.365	.335	.362	.351	.345	.299	.289	-1.7	+10.4			
Asphalt:												
Production..... thous. of short tons.	356	247	188	191	181	188	203	-5.2	-10.8	396	372	-6.1
Stocks, end of month..... thous. of short tons.	227	234	240	244	261	229	236	+7.0	+10.6			
Imports..... thous. of short tons.	17	7	10	5	3	13	9	-40.0	-60.7	2.2	8	-63.6
Coke:												
Production..... thous. of short tons.	172	155	171	146	140	138	127	-4.1	+10.2	265	285	+7.5
Stocks, end of month..... thous. of short tons.	672	688	745	741	756	405	388	+2.0	+94.8			
Wax:												
Production..... thous. of lbs.	56,377	50,775	49,104	52,360	50,960	58,885	50,027	-2.7	+1.9	108,912	103,320	-5.1
Stocks, end of mo. thous. of lbs.	189,094	185,559	187,900	206,249	213,487	123,521	140,053	+3.5	+52.4			
RUBBER												
Crude Rubber												
World shipments, plantation..... long tons.	73,853	68,303	74,748	77,297		79,177	74,311					
Imports (including latex)..... long tons.	38,454	43,901	43,232	47,904	42,998	57,686	64,286	-10.2	-33.1	121,872	90,902	-25.4
Consumption by tire mfrs. thous. of lbs.	41,775	31,186	26,728			54,161	57,559					
World stocks, end of month:												
World total..... long tons.	279,515	287,547	307,670	334,809		230,935	244,340					
United States..... long tons.	88,483	92,219	105,138	120,649	131,748	76,342	90,058	+9.2	+46.3			
Europe..... long tons.	63,929	72,259	75,432	82,417		30,255	30,778					
Producing countries..... long tons.	37,902	34,200	36,260	36,915	41,095	33,038	36,254	+11.3	+13.4			
Afloat..... long tons.	89,200	88,869	90,840	94,828		101,300	87,250					
Wholesale price, smoked sheets, New York.....dolls. per pound.	.196	.166	.160	.150	.158	.201	.239	+5.3	-33.9			
Tires and Tubes												
Pneumatic tires:												
Production..... thousands.	3,689	2,703	2,446	3,611	3,616	5,042	5,184	+0.1	-30.2	10,226	7,227	-29.3
Stocks, end of month..... thousands.	9,633	9,701	9,470	9,718	9,900	10,284	11,621	+1.9	-14.8			
Shipments—												
Domestic..... thousands.	3,520	2,500	2,448	3,356	3,086	4,721	3,750	-8.0	-17.7	8,471	6,442	-24.0
Export..... thousands.	199	168	142	180	210	248	212	+16.7	-0.9	460	390	-15.2
Inner tubes:												
Production..... thousands.	4,000	2,835	2,787	3,682	3,684	4,888	5,077	+0.1	-27.4	9,965	7,366	-26.1
Stocks, end of month..... thousands.	10,242	10,276	10,245	10,294	10,429	11,639	12,749	+1.3	-18.2			
Shipments—												
Domestic..... thousands.	3,629	2,679	2,620	3,755	3,293	5,271	3,815	-12.3	-13.7	9,086	7,048	-22.4
Export..... thousands.	122	105	103	114	129	160	143	+13.2	-9.8	303	243	-19.8
Solid and cushion:												
Production..... thousands.	22	19	19	25	23	32	30	-8.0	-23.3	62	48	-22.6
Stocks, end of month..... thousands.	91	94	98	126	127	151	147	+0.8	-13.6			
Shipments—												
Domestic..... thousands.	23	15	12	20	19	31	30	-5.0	-36.7	61	39	-36.1
Export..... thousands.	2	1	2	2	2	2	2	0.0	0.0	4	4	0.0
Other Rubber Products												
Rubber-proofed fabrics, production:												
Total..... thous. of yds.	6,116	4,395	2,291			2,828	3,028					
Auto fabrics..... thous. of yds.	778	540	488	966	885	686	811	-8.4	+9.1	1,497	1,851	+23.6
All other..... thous. of yds.	1,720	1,308	882	1,076		1,153	1,099					
Raincoat fabrics..... thous. of yds.	3,618	2,547	921	1,239		989	1,118					
Rubber heels:												
Production..... thous. of pairs.	22,386	17,863	14,781	15,470		19,975	18,979					
Shipments—												
To shoe manufacturers..... thous. of pairs.	13,746	11,653	8,639	10,989		12,867	10,196					
To repair trade..... thous. of pairs.	7,994	6,571	4,148	5,106		6,909	6,737					
For export..... thous. of pairs.	920	801	956	1,049		1,001	1,479					
Stocks, end of month..... thous. of pairs.	42,109	41,286	41,544	40,528		50,649	50,010					

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
RUBBER—Continued												
Other Rubber Products—Continued												
Rubber soles:												
Production.....thous. of pairs.....	3,502	3,400	3,003	3,496	.....	3,876	2,869					
Shipments—												
To shoe manufacturers.....thous. of pairs.....	2,691	2,676	2,372	3,261	.....	2,934	2,217					
To repair trade.....thous. of pairs.....	647	576	449	491	.....	861	755					
For export.....thous. of pairs.....	90	109	88	138	.....	156	24					
Stocks, end of month.....thous. of pairs.....	3,443	3,421	3,545	3,227	.....	4,274	4,077					
Mechanical rubber goods:												
Shipments—												
Total.....thous. of dolls.....	5,887	4,932	4,751	5,177	.....	6,033	6,135					
Belting.....thous. of dolls.....	1,477	1,203	1,086	1,150	.....	1,305	1,413					
Hose.....thous. of dolls.....	2,135	1,830	1,895	2,042	.....	2,378	2,271					
All other.....thous. of dolls.....	2,274	1,899	1,770	1,984	.....	2,350	2,452					
Rubber bands, shipments.....thous. of lbs.....	216	170	189	226	.....	219	240	+1.8	-4.2	459	456	-0.7
Rubber flooring, shipments.....thous. of sq. ft.....	543	517	618	459	.....	418	432					
Calendared rubber clothing:												
Production.....no. coats and sundries.....	99,588	75,392	49,093	56,949	64,934	58,130	59,825	+14.0	+8.5	117,955	121,883	+3.3
Net orders.....no. coats and sundries.....	76,194	95,423	16,095	31,638	39,568	31,437	30,286	+25.1	+30.6	61,723	71,206	+15.4
HIDES AND LEATHER												
Hides												
Imports:												
Total hides and skins.....thous. of lbs.....	48,489	50,958	41,932	39,094	35,116	38,679	31,919	-10.2	+10.0	70,598	74,210	+5.1
Calfskins.....thous. of lbs.....	4,836	3,542	2,621	2,953	2,318	2,608	1,951	-21.5	+13.8	4,559	5,271	+15.6
Cattle hides.....thous. of lbs.....	28,284	28,227	26,060	19,145	18,835	21,456	16,195	-1.4	+16.6	37,651	38,030	+1.0
Goatskins.....thous. of lbs.....	6,434	9,838	6,293	6,728	6,087	5,911	7,841	-9.5	-22.4	13,752	12,815	-6.8
Sheepskins.....thous. of lbs.....	5,091	5,032	3,350	5,473	3,715	5,060	3,785	-32.1	-1.8	8,845	9,188	+3.9
Stocks, end of month:												
Total hides and skins.....thous. of lbs.....	259,050	270,188	269,892	269,925	.....	262,326	249,563					
Cattle hides.....thous. of lbs.....	208,910	220,779	220,509	221,718	.....	219,274	210,760					
Calf and kip skins.....thous. of lbs.....	27,596	27,573	26,584	25,480	.....	23,636	21,595					
Sheep and lamb skins.....thous. of lbs.....	22,544	21,836	22,799	22,727	.....	19,416	17,208					
Prices:												
Green salted, packers' heavy native steers.....dolls. per lb.....	.186	.164	.160	.163	.148	.205	.153	-9.2	-3.3			
Calfskins, country, No. 1.....dolls. per lb.....	.197	.179	.174	.176	.164	.219	.171	-5.8	-4.1			
Inspected slaughter of livestock:												
United States—												
Cattle.....thous. of animals.....	839	731	658	713	561	736	569	-21.3	-1.4	1,305	1,274	-2.4
Calves.....thous. of animals.....	398	358	346	374	329	369	311	-12.0	+5.8	680	703	+3.4
Swine.....thous. of animals.....	3,857	4,499	5,083	5,001	4,034	5,738	4,478	-19.3	-9.9	10,216	9,035	-11.6
Sheep.....thous. of animals.....	1,365	1,159	1,091	1,223	1,187	1,150	953	-3.1	+24.6	2,103	2,412	+14.7
Canada—												
Cattle and calves.....thous. of animals.....	120	114	71	68	57	71	57	-16.2	0.0	128	125	-2.2
Swine.....thous. of animals.....	207	234	221	207	168	249	208	-13.8	-19.2	457	375	-17.9
Sheep.....thous. of animals.....	178	135	50	31	20	35	21	-35.5	-4.8	56	51	-8.9
Leather												
Sole and belting leather:												
Production—												
Sole only.....thous. of backs, bends, sides.....	1,302	1,226	1,235	1,359	1,239	1,284	1,102	-8.8	+12.4	2,386	2,598	+8.9
Sole and belting.....thous. of lbs.....	25,665	23,901	23,894	25,444	.....	23,891	20,989					
Stocks, end of month—												
In process of tanning.....thous. of lbs.....	82,679	83,922	84,197	84,624	.....	77,989	81,432					
Finished.....thous. of lbs.....	60,044	63,451	64,084	65,846	.....	81,518	78,607					
Exports.....thous. of sq. ft.....	583	600	500	757	430	1,054	729	-43.2	-41.0	1,783	1,187	-33.4
Price oak, scoured backs.....dolls. per lb.....	.55	.55	.52	.50	.49	.59	.57	-2.0	-14.0			
Upper leather:												
Production.....thous. of sq. ft.....	80,473	69,750	72,672	68,296	.....	66,424	62,954					
Stocks, end of month—												
In process of tanning.....thous. of sq. ft.....	147,328	170,067	143,576	146,077	.....	138,500	136,749					
Finished.....thous. of sq. ft.....	217,384	233,599	244,428	254,236	.....	249,468	249,739					
Exports.....thous. of lbs.....	9,007	8,378	7,776	8,763	8,320	10,998	9,304	-5.1	-11.1	20,362	17,083	-16.1
Chrome calf, "B" grades.....dolls. per sq. ft.....	.49	.48	.48	.46	.46	.53	.51	0.0	-9.8			
Leather Products												
Shoes:												
Production.....thous. of pairs.....	37,191	27,723	22,475	26,147	.....	27,246	27,707					
Exports.....thous. of pairs.....	426	342	294	290	189	423	357	-34.8	-48.5	790	479	-39.4
Wholesale prices—												
Men's black calf blucher, Boston.....dolls. per pair.....	6.75	6.75	6.75	6.75	6.75	6.75	6.75	0.0	0.0			
Men's dress welt, tan calf oxford, St. Louis.....dolls. per pair.....	4.85	4.85	4.85	4.85	4.85	4.85	4.85	0.0	0.0			
Women's black kid, dress welt, lace, oxford.....dolls. per pair.....	4.25	4.25	4.25	4.25	4.25	4.25	4.25	0.0	0.0			
Gloves, cut.....dozen pairs.....	318,041	284,929	213,861	265,407	280,143	214,826	240,116	+5.6	+16.7	454,942	545,550	+19.9
PAPER AND PRINTING												
Wood Pulp												
Groundwood:												
Production.....short tons.....	79,900	79,408	82,240	92,701	.....	97,352	82,011					
Consumption and shipments.....short tons.....	95,290	91,156	84,255	93,924	.....	93,733	81,639					
Stocks, end of month.....short tons.....	57,695	45,947	43,932	42,709	.....	84,636	85,018					
Imports.....short tons.....	27,020	21,223	36,186	28,423	39,105	25,832	14,228	+37.6	+174.8	40,060	67,528	+68.6
Sulphite, unbleached:												
Production.....short tons.....	10,831	10,756	10,505	10,775	.....	10,184	9,581					
Consumption and shipments.....short tons.....	10,609	10,508	10,260	11,057	.....	10,249	9,746					
Stocks, end of month.....short tons.....	1,732	1,980	2,225	1,943	.....	1,990	1,820					
Imports.....short tons.....	68,974	80,133	56,302	97,570	85,163	82,915	61,22	-12.7	+39.1	144,140	182,733	+26.8

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	PAPER AND PRINTING—Continued											
Wood Pulp—Continued												
Sulphite, bleached:												
Production..... short tons..	28,813	26,148	25,395	29,442		27,058	24,230					
Consumption and shipments..... short tons..	28,624	25,837	25,619	29,126		27,215	24,551					
Stocks, end of month..... short tons..	3,068	3,379	3,155	3,471		2,602	2,481					
Imports..... short tons..	31,563	27,589	36,028	29,593	35,999	36,258	28,022	+21.6	+28.5	64,280	65,592	+2.0
Total sulphite:												
Production..... short tons..	81,721	75,381	71,392	78,738		78,500	69,737					
Consumption and shipments..... short tons..	81,066	74,735	71,027	79,310		78,400	70,567					
Stocks, end of month..... short tons..	11,222	11,808	12,233	11,661		13,569	12,787					
Sulphate:												
Production..... short tons..	31,167	29,142	25,503	29,189		30,740	28,520					
Consumption and shipments..... short tons..	31,595	28,335	25,664	29,046		30,445	29,127					
Stocks, end of month..... short tons..	5,589	6,396	6,255	6,378		4,193	4,193					
Soda:												
Production..... short tons..	25,443	24,046	23,410	25,576		24,116	22,475					
Consumption and shipments..... short tons..	25,895	24,373	23,451	25,684		24,045	23,536					
Stocks, end of month..... short tons..	3,928	3,601	3,560	3,452		5,674	4,613					
Other grades:												
Production..... short tons..	62	22	40	48		21	49					
Consumption and shipments..... short tons..	3434	98	72	67		36	48					
Stocks, end of month..... short tons..	130	54	22	3		8	9					
Total (all grades):												
Production..... short tons..	218,293	207,990	202,585	226,252		230,729	202,792					
Consumption and shipments..... short tons..	233,880	218,697	204,468	227,631		226,661	204,917					
Stocks, end of month..... short tons..	78,564	67,866	65,982	64,203		108,687	106,620					
Newsprint Paper												
Production:												
United States, total..... short tons..	122,009	113,729	112,583	124,851	112,394	123,822	103,644	-10.0	+8.4	227,466	237,245	+4.3
Ratio to capacity..... per cent..	81	81	80	86		85	77					
Canada..... short tons..	251,914	252,046	230,068	206,305	189,154	212,191	187,200	-8.3	+1.0	399,391	395,459	-1.0
Consumption by publishers..... short tons..	207,218	205,814	194,907	176,172	171,889	183,502	170,864	-2.4	+0.6	354,366	348,061	-1.8
Shipments:												
United States..... short tons..	122,040	116,725	117,131	124,262	110,714	120,263	108,375	-10.9	+2.2	228,638	234,976	+2.8
Canada..... short tons..	252,591	253,219	234,100	202,008	178,691	209,020	186,395	-11.5	-4.1	395,415	380,699	-3.7
Imports..... short tons..	221,010	221,078	230,579	198,620	154,138	196,882	165,331	-22.4	-6.8	362,213	352,758	-2.6
Exports, Canada..... short tons..	232,441	229,142	220,171	199,773	163,204	195,047	174,469	-18.3	-6.5	369,516	362,977	-1.8
Stocks, end of month:												
At mills—												
United States..... short tons..	26,573	23,549	19,023	18,778	20,552	38,003	35,642	+9.4	-42.3			
Canada..... short tons..	30,064	28,891	24,946	29,154	39,598	21,406	25,536	+35.8	+55.1			
At publishers..... short tons..	188,570	198,550	220,024	231,879	224,155	197,480	188,595	-9.3	+18.9			
In transit to publishers..... short tons..	51,864	61,525	58,524	48,925	47,174	45,982	48,050	-3.6	-1.8			
Price, roll, f. o. b. mill.....dolls. per 100 lbs.	3.25	3.25	3.25	3.25	3.25	3.25	3.25	0.0	0.0			
Box Board												
Operation:												
Thousands of inch-hours.....	9,496	8,515	7,609	8,623	7,775	9,297	8,436	-9.8	-7.8	17,733	16,398	-7.5
Per cent of capacity.....	80.1	77.5	69.9	75.5	73.8	81.4	80.0	-2.3	-7.7			
Production..... short tons..	264,631	238,658	186,596	233,314	220,269	248,290	228,034	-5.6	-3.4	476,324	453,583	-4.8
New orders..... short tons..	264,338	213,263	174,570	235,390	217,495	241,086	227,595	-7.6	-4.4	468,681	452,885	-3.4
Shipments..... short tons..	268,494	237,696	180,194	228,854	224,176	247,498	227,206	-2.0	-1.3	456,094	453,030	-0.7
Stocks, end of month..... short tons..	59,244	62,065	64,197	63,242	68,844	56,804	57,398	+8.9	+19.9			
Stocks of waste paper, end of month:												
On hand..... short tons..	185,169	193,511	198,099	190,879	190,789	137,251	126,212	0.0	+51.2			
In transit and unshipped purchases..... tons..	73,135	52,862	50,380	59,742	59,379	49,104	54,121	-0.6	+9.7			
Unfilled orders, end of month..... short tons..	85,600	66,969	59,334	76,975	71,721	87,974	87,726	-6.8	-18.2			
Consumption of waste paper..... short tons..	254,166	230,498	175,957	224,197	215,754	238,652	217,442	-3.8	-0.8	474,704	439,951	-7.3
Other Paper												
Binder's board, production..... short tons..	2,682	1,882	1,661			3,172	2,581					
Book paper:												
Production..... short tons..	154,860	144,020	133,939	148,672		131,999	122,015					
Ratio to capacity..... per cent..	104	105	98	103		95	92					
Shipments..... short tons..	138,290	139,123	153,939	144,212		132,791	126,286					
Stocks, end of month..... short tons..	79,580	85,946	85,946	91,103		79,099	74,353					
New orders—												
Coated... p. ct. of normal production..	89	82	83	87	90	81	94	+3.4	-4.3			
Uncoated... p. ct. of normal production..	92	84	75	87	87	82	82	0.0	0.0			
Unfilled orders, end of month—												
Coated... p. ct. of normal production..	11	8	8	11	11	10	9	0.0	+22.2			
Uncoated... p. ct. of normal production..	8	7	6	7	8	8	9	+14.3	-11.7			
Wrapping paper:												
Production..... short tons..	89,021	86,196	78,872	84,693		101,604	87,082					
Ratio to capacity..... per cent..	80	84	77	79		81	89					
Shipments..... short tons..	93,650	86,196	77,295	86,133		100,690	86,298					
Stocks, end of month..... short tons..	82,491	82,458	84,025	82,616		95,288	93,107					
Fine paper:												
Production..... short tons..	41,830	38,746	35,281	40,734		38,228	37,789					
Ratio to capacity..... per cent..	91	91	83	92		92	90					
Shipments..... short tons..	40,868	36,809	32,176	41,589		40,522	38,885					
Stocks, end of month..... short tons..	48,830	50,749	53,848	53,274		50,934	49,849					
All other grades:												
Production..... short tons..	113,260	99,192	88,194	98,057		106,157	100,337					
Shipments..... short tons..	114,395	97,863	84,994	94,554		104,445	102,634					
Stocks, end of month..... short tons..	56,189	57,500	60,700	64,111		62,902	60,605					
Total paper (inc. newsprint and box board):												
Production..... short tons..	785,611	719,379				750,100	678,901					
Ratio to capacity..... per cent..	89	88	87	93		71	86					
Shipments..... short tons..	777,707	719,887				746,209	689,684					
Stocks, end of month..... short tons..	353,004	360,891				383,030	370,954					

¹ Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	PAPER AND PRINTING—Continued											
Paper-board Shipping Boxes												
Production:												
Total.....thous. of sq. ft.	574,171	485,309	367,533	468,548	508,222	451,172	494,105	+8.5	+2.9	945,277	976,770	+3.3
Corrugated.....thous. of sq. ft.	457,425	387,935	290,457	369,950	404,516	352,021	383,191	+9.3	+5.6	735,212	774,466	+5.3
Solid fiber.....thous. of sq. ft.	116,746	97,374	71,076	98,598	103,706	99,151	110,914	+5.2	-6.5	210,065	202,304	-3.7
Operating activity:												
Total.....per cent of normal	91	79	63	74	77	78	84	+4.1	-8.3			
Corrugated.....per cent of normal	93	81	66	75	78	78	85	+4.0	-8.2			
Solid fiber.....per cent of normal	86	72	55	72	75	77	80	+4.2	-6.2			
Abrasive paper and cloth:												
Domestic sales.....reams	91,782	69,103	50,771			96,056	86,037					
Foreign sales.....reams	24,238	24,134	20,628			17,753	21,457					
Rope paper sacks, shipments...rel. to 1921-22	115	102	86	103	96	103	96	-6.8	0.0			
Printing												
Book publication:												
American manufacture.....no. of titles	807	873	537	449		508	681					
Imported.....no. of titles	134	235	228	156		150	113					
Sales books:												
New orders.....thous. of books	13,834	12,108	9,832	13,028	11,684	12,861	11,762	-10.3	-0.7	24,643	24,712	+0.3
Shipments.....thous. of books	14,147	12,785	11,819	11,993	11,587	12,167	11,984	-3.4	-3.3	24,151	23,580	-2.4
Blank forms, new orders.....thous. of sets	75,622	66,464	57,063	55,321		54,165	53,308					
Printing activity.....relative to 1924	108	102	103			117	120					
BUILDING CONSTRUCTION AND HOUSING												
Building Costs												
Building materials:												
Frame house, 6-rm. 1st of mo...rel. to 1913	178	178	177	178	178	177	175	0.0	+1.7			
Brick house, 6-rm. 1st of mo...rel. to 1913	183	182	181	182	182	183	180	0.0	+1.1			
Bldg. costs, 1st of mo...rel. to 1913	206.3	208.5	209.5	209.0	206.5	209.4	210.4	-1.2	-1.9			
Bldg. costs (A. G. C.), 1st of mo...rel. to 1913	202	201	202	203	203	203	204	0.0	-0.5			
Construction costs (Am. Appraisal):												
Frame.....rel. to 1913	205	206	204	204	204	204	204	0.0	0.0			
Brick, steel frame.....rel. to 1913	198	198	197	197	198	197	197	+0.5	+0.5			
Brick, wood frame.....rel. to 1913	215	215	214	214	215	213	213	+0.5	+0.9			
Reinforced concrete.....rel. to 1913	202	202	201	202	203	201	201	+0.5	+1.0			
Contracts and Fire Losses												
Contracts awarded (36 States):												
Commercial buildings.....thous. of sq. ft.	12,611	13,180	4,746	7,774		15,250	11,077					
Industrial buildings.....thous. of sq. ft.	9,041	6,913	13,340	3,538		7,085	7,892					
Residential buildings.....thous. of sq. ft.	27,478	20,670	17,182	12,914		27,898	25,659					
Educational buildings.....thous. of sq. ft.	5,461	3,796	3,008	2,619		2,631	3,400					
Other public and semi-public buildings.....thous. of sq. ft.	7,255	4,455	3,191	3,149		2,863	2,845					
Grand total.....thous. of sq. ft.	62,590	49,268	41,946	30,601		56,331	51,696					
Contracts awarded, value (36 States):												
Commercial buildings.....thous. of dolls.	63,682	99,072	30,368	50,907		98,644	65,926					
Industrial buildings.....thous. of dolls.	59,607	38,085	66,888	37,857		60,439	52,395					
Residential buildings.....thous. of dolls.	131,809	110,848	111,480	63,117		132,862	123,759					
Educational buildings.....thous. of dolls.	35,970	24,914	18,703	17,798		17,171	22,095					
Other public and semi-public buildings.....thous. of dolls.	54,998	36,344	27,988	33,220		23,142	26,470					
Public works and utilities.....thous. of dolls.	80,206	68,811	48,870	103,041		61,811	49,096					
Grand total.....thous. of dolls.	426,171	378,074	304,297	305,859		394,069	339,739					
Contracts awarded, Canada.....thous. of dolls.	57,084	45,376	32,549	37,530	28,464	41,963	28,426	-24.2	+0.1		65,994	-6.2
Building volume (A. G. C.).....rel. to 1913	233	225	169	131	114	148	122	-13.0	-6.6			
Fire losses:												
United States and Canada, (Journal of Commerce).....thous. of dolls.	29,072	28,256	30,870	31,393		36,225	26,872					
Canada (Monetary Times).....thous. of dolls.	3,777	3,864	4,081	5,100	2,412	2,664	3,078	-52.7	-21.6	5,742	7,512	+30.8
BUILDING MATERIALS												
Softwood Lumber												
Southern pine:												
Production (computed).....M ft. b. m.	384,227	342,631	317,741			425,009	373,118					
Operation.....per cent of full time	82	75	68			87	85					
Shipments (computed).....M ft. b. m.	375,228	313,137	290,725			398,047	357,918					
New orders (computed).....M ft. b. m.	368,246	290,667	304,487			417,700	382,654					
Stocks, end of mo. (computed).....M ft. b. m.	1,039,022	1,068,516	1,095,532			1,005,916	1,021,116					
Unfilled orders, end of mo. (comp.).....M ft. b. m.	279,535	257,065	270,827			306,168	330,904					
Exports, lumber.....M ft. b. m.	51,211	48,363	62,487	52,752	43,535	61,693	57,815	-17.5	-24.7	119,508	96,287	-19.4
Exports, timber.....M ft. b. m.	11,315	7,283	11,734	9,484	12,068	11,507	5,580	+27.2	+116.3	17,087	21,552	+26.1
Price, flooring.....dolls. per M ft. b. m.	39.50	36.00	38.00	37.32	37.39	36.55	36.89	+0.2	+1.4			
Douglas fir:												
Production (computed).....M ft. b. m.	312,011	309,772	260,979	199,651		316,039	280,228					
Shipments (computed).....M ft. b. m.	300,372	266,351	228,300	220,590		296,343	304,401					
New orders (computed).....M ft. b. m.	303,953	253,369	240,835	242,178		349,165	336,184					
Unfilled orders, end of month.....M ft. b. m.	295,895	215,319	273,065	293,657		403,331	360,804					
Exports, lumber.....M ft. b. m.	80,888	53,261	74,967	47,487	33,107	84,299	57,167	-19.8	-33.3	141,466	85,593	-39.5
Exports, timber.....M ft. b. m.	50,558	33,508	33,309	36,064	27,887	59,984	36,999	-22.7	-24.6	96,983	63,951	-34.1
Price, No. 1 common.....dolls. per M ft. b. m.	17.82	17.42	16.84	16.85	16.71	17.17	18.43	-0.8	-9.3			
Price, flooring, 1 x 4, "B" and better, V. G.....dolls. per M ft. b. m.	42.42	42.13	41.94	41.63	41.35	44.44	40.85	-0.7	+1.2			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	BUILDING MATERIALS—Continued											
Softwood Lumber—Continued												
California redwood:												
Production (computed).....M ft. b. m.	36,745	48,438	30,634	41,084	36,667	29,560	32,789	-10.8	+11.8	62,349	77,751	+24.7
Shipments (computed).....M ft. b. m.	36,064	39,170	25,253	30,893	34,173	30,944	30,944	+10.6	+10.2	61,944	65,066	+5.0
New orders (computed).....M ft. b. m.	33,080	40,579	23,230	35,633	36,106	34,801	33,431	+1.3	+8.0	68,232	71,739	+5.1
Unfilled orders, end of month (computed).....M ft. b. m.	37,097	38,364	36,626	27,079	37,210	35,756	37,686	+37.4	-1.3	-----	-----	-----
California white pine:												
Production.....M ft. b. m.	131,790	100,037	60,651	29,185	30,660	69,930	44,382	+5.1	-30.9	114,312	59,845	-47.6
Shipments.....M ft. b. m.	88,363	62,585	56,767	64,837	68,659	100,633	97,671	+5.9	-29.7	198,304	133,496	-32.7
Stocks, end of month.....M ft. b. m.	567,326	607,775	623,554	568,607	526,140	535,998	483,998	-7.5	+8.7	-----	-----	-----
New orders.....M ft. b. m.	71,398	60,174	54,835	65,322	66,385	95,905	84,890	+1.6	-21.8	180,795	131,707	-27.2
Unfilled orders, end of month.....M ft. b. m.	172,154	172,309	189,732	151,560	148,691	176,506	168,766	-1.9	-11.9	-----	-----	-----
Northern pine:												
Lumber—												
Production.....M ft. b. m.	38,422	8,548	11,682	14,935	15,549	23,818	22,054	+4.1	-29.5	45,872	30,484	-33.5
Shipments.....M ft. b. m.	43,737	32,726	19,496	23,200	26,144	33,167	32,302	+12.7	-19.1	65,469	49,344	-24.6
New orders.....M ft. b. m.	35,578	20,167	14,459	22,670	21,257	35,363	29,398	-6.2	-27.7	64,761	43,927	-32.2
Lath—												
Production.....thousands..	5,739	1,310	653	527	517	4,692	2,986	-1.9	-82.7	7,678	1,044	-86.4
Shipments.....thousands..	6,892	5,008	2,783	3,251	3,543	6,952	5,185	+9.0	-31.7	12,137	6,794	-44.0
North Carolina pine:												
Production (computed).....M ft. b. m.	45,878	43,995	40,138	41,097	-----	45,143	65,506	-----	-----	-----	-----	-----
Shipments (computed).....M ft. b. m.	47,264	47,096	38,038	36,946	-----	38,976	60,347	-----	-----	-----	-----	-----
Northern hemlock:												
Production.....M ft. b. m.	11,943	9,230	10,839	11,153	8,515	18,877	14,802	-23.7	-42.5	33,679	19,668	-41.6
Shipments.....M ft. b. m.	12,378	9,328	4,922	7,862	5,241	9,855	13,020	-33.3	-59.7	22,875	13,103	-42.7
Hardwood Lumber												
Walnut lumber:												
Production.....M ft. b. m.	5,284	3,807	3,745	2,363	1,838	2,974	2,780	-22.2	-33.9	5,754	4,201	-27.0
Shipments.....M ft. b. m.	4,017	3,069	2,301	2,070	1,771	3,163	3,433	-14.4	-48.4	6,596	3,841	-41.8
Stocks, end of month.....M ft. b. m.	15,817	17,130	18,601	18,727	18,079	12,305	11,654	-3.5	+55.1	-----	-----	-----
New orders.....M ft. b. m.	3,313	2,513	1,607	2,071	1,445	3,307	3,662	-30.2	-60.5	6,969	3,516	-49.5
Unfilled orders, end of month.....M ft. b. m.	6,562	6,475	5,590	4,418	3,704	5,664	5,833	-16.2	-36.5	-----	-----	-----
Walnut logs:												
Purchased.....M ft. log measure..	4,158	3,144	2,404	1,701	2,009	2,285	2,021	+18.1	-0.6	4,306	3,710	-13.9
Made into lumber and veneer.....M ft. log measure..	3,996	2,975	2,288	2,021	1,818	2,538	2,126	-10.0	-14.5	4,664	3,839	-17.7
Stocks, end of month.....M ft. log measure..	2,265	3,299	2,790	2,510	2,682	1,557	1,261	+6.9	+112.7	-----	-----	-----
Northern hardwoods:												
Production.....M ft. b. m.	14,643	15,895	21,303	29,484	24,694	37,916	44,370	-16.2	-44.3	82,285	54,178	-34.2
Shipments.....M ft. b. m.	22,604	18,220	12,969	17,119	17,773	29,093	30,515	+3.8	-41.8	59,608	34,892	-41.5
Lower Michigan hardwoods:												
Production.....M ft. b. m.	3,613	1,940	3,542	3,075	-----	5,456	6,237	-----	-----	-----	-----	-----
Shipments.....M ft. b. m.	4,189	2,707	3,716	2,210	-----	4,950	6,223	-----	-----	-----	-----	-----
Stocks, end of month.....M ft. b. m.	20,582	16,210	26,639	15,065	-----	27,126	26,912	-----	-----	-----	-----	-----
Gum:												
Stocks, total, end of month.....mill. ft. b. m.	482	517	512	534	-----	516	504	-----	-----	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	359	397	387	404	-----	369	344	-----	-----	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	143	134	125	130	-----	147	160	-----	-----	-----	-----	-----
Oak:												
Stocks, total, end of month.....mill. ft. b. m.	1,022	1,033	1,049	1,040	-----	919	930	-----	-----	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	823	852	869	877	-----	751	757	-----	-----	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	199	181	181	174	-----	167	173	-----	-----	-----	-----	-----
All hardwoods:												
Production.....mill. ft. b. m.	296	250	210	251	-----	308	319	-----	-----	-----	-----	-----
Shipments.....mill. ft. b. m.	278	221	169	206	-----	293	319	-----	-----	-----	-----	-----
New orders.....mill. ft. b. m.	281	184	165	199	-----	319	334	-----	-----	-----	-----	-----
Stocks, total, end of month.....mill. ft. b. m.	2,887	2,979	2,997	3,061	-----	2,717	2,707	-----	-----	-----	-----	-----
Stocks, unsold, end of month.....mill. ft. b. m.	2,227	2,356	2,383	2,440	-----	2,102	2,037	-----	-----	-----	-----	-----
Unfilled orders, end of month.....mill. ft. b. m.	660	622	614	621	-----	615	670	-----	-----	-----	-----	-----
Exports, planks, joists, etc.....M ft. b. m.	194,065	153,069	200,816	151,906	129,070	240,384	177,682	-15.0	-27.4	418,066	280,976	-32.8
Flooring												
Maple flooring:												
Production.....M ft. b. m.	7,813	5,574	6,107	6,589	5,992	7,771	7,022	-9.1	-14.7	14,793	12,581	-15.0
Shipments.....M ft. b. m.	6,896	4,379	3,060	4,625	3,771	5,114	6,053	-18.5	-37.7	11,167	8,396	-24.8
Stocks, end of month.....M ft. b. m.	22,421	23,659	26,523	28,314	30,150	24,733	25,466	+6.5	+18.4	-----	-----	-----
New orders.....M ft. b. m.	4,297	3,227	3,053	4,245	3,696	5,999	8,317	-12.9	-55.6	14,316	7,941	-44.5
Unfilled orders, end of month.....M ft. b. m.	7,095	5,717	5,519	5,827	6,008	8,019	10,443	+3.1	-42.5	-----	-----	-----
Oak flooring:												
Production.....M ft. b. m.	35,813	25,111	22,667	28,617	27,943	41,204	24,865	-2.4	+12.4	66,069	56,560	-14.4
Shipments.....M ft. b. m.	29,704	21,202	47,506	26,317	28,272	31,999	28,551	+7.4	-1.0	60,550	54,589	-9.8
Stocks, end of month.....M ft. b. m.	76,342	82,103	83,233	87,391	87,251	97,000	91,987	-0.2	-5.1	-----	-----	-----
New orders.....M ft. b. m.	19,743	16,420	21,775	35,286	29,874	29,736	31,761	-15.3	-5.9	61,497	65,160	+6.0
Unfilled orders, end of month.....M ft. b. m.	30,887	25,810	45,272	51,026	57,602	44,626	45,666	+12.9	+26.1	-----	-----	-----
Fabricated Structural Steel												
New orders (prorated).....short tons..	342,650	227,150	319,550	* 252,000	292,000	273,350	265,650	+16.0	+9.9	539,000	544,000	+0.9
Ratio to capacity.....per cent..	89	59	83	63	73	71	69	-----	-----	-----	-----	-----
Shipments (prorated).....short tons..	350,350	284,900	277,200	* 244,000	304,000	281,050	238,700	+24.6	+27.4	519,750	548,000	+5.4
Ratio to capacity.....per cent..	91	74	72	61	76	73	62	-----	-----	-----	-----	-----
Portland Cement												
Production.....thous. of bbls..	16,731	14,053	11,215	8,498	8,162	9,881	8,522	-4.0	-4.2	18,403	16,660	-9.5
Operation.....per ct. of capacity..	77.0	66.6	51.5	38.8	41.5	46.5	44.8	+7.0	-7.4	-----	-----	-----
Shipments.....thous. of bbls..	18,695	11,222	5,951	4,955	7,012	5,707	5,448	+41.5	+28.7	11,155	11,967	+7.3
Stocks, end of month.....thous. of bbls..	15,381	18,213	23,550	* 27,081	28,231	26,797	29,870	+4.2	-5.5	-----	-----	-----
Stocks, clinker, end of month.....thous. of bbls..	5,934	6,134	7,526	9,646	11,573	9,642	12,436	+20.0	-6.9	-----	-----	-----
Wholesale prices, composite.....dolls. per bbl..	1.493	1.510	1.555	1.576	1.617	1.650	1.650	+2.6	-2.0	-----	-----	-----

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	BUILDING MATERIALS—Continued											
Other Stone, Clay, and Glass Products												
Common brick:												
Stocks, end of month—												
Burned.....thousands..	395,919	497,099	475,735	428,508	513,057	517,120	366,150	+19.7	+40.1			
Unburned.....thousands..	284,402	291,237	247,723	234,126	259,889	241,887	184,620	+11.0	+40.8			
Shipments.....thousands..	151,723	131,919	107,241	58,117	75,524	115,924	74,537	+30.0	+1.3	190,461	133,641	-29.8
Unfilled orders, end of month.....thousands..	133,083	154,766	141,143	115,907	140,451	136,014	91,615	+21.2	+53.3			
Plants closed down.....number..	58	115	132	126	126	79	82	0.0	+53.7			
Price, red, New York.....dolls. per thous..	9.50	10.00	10.00	10.50	10.50	11.50	11.50	0.0	-8.7			
Sand-lime brick:												
Production.....thousands..	17,563	14,011	9,215	² 6,586	4,660	10,548	7,432	-29.2	-37.3	17,960	11,246	-37.5
Shipments by rail.....thousands..	5,150	4,956	2,658	² 2,356	2,449	1,674	2,955	+3.9	-17.1	4,629	4,805	+3.8
Shipments by truck.....thousands..	10,863	9,938	5,246	² 3,686	3,503	6,206	5,942	-5.0	-41.0	12,148	7,189	-40.8
Stocks, end of month.....thousands..	12,957	10,854	13,859	² 13,691	10,166	16,082	16,974	-25.7	-40.1			
Unfilled orders, end of month.....thousands..	12,943	9,708	7,008	² 7,904	8,873	7,253	10,665	+12.2	-16.8			
Floor and wall tile:												
Production.....thous. of sq. ft..	5,380	4,385	² 3,653	3,446		5,712	5,601					
Shipments, quantity.....thous. of sq. ft..	5,088	4,060	3,122	3,311		4,299	4,373					
Shipments, value.....thous. of dolls..	2,097	1,647	² 1,314	1,340		1,701	1,669					
Stocks, end of month.....thous. of sq. ft..	18,557	19,027	² 17,641	17,977		16,011	17,489					
Terra cotta, new orders:												
Quantity.....net tons..	6,566	7,452	8,307	8,048	5,900	10,056	11,270	-26.7	-47.6	21,326	13,948	-34.6
Value.....thous. of dolls..	716	790	870	839	636	1,090	1,196	-24.2	-46.8	2,286	1,475	-35.5
Plate glass:												
Production, polished.....thous. of sq. ft..	14,621	12,131	8,482	10,018	9,804	11,426	11,289	-2.1	-13.2	22,715	19,892	-12.4
Roofing												
Roofing, felt:												
Production, dry felt.....tons..	25,502	19,249	16,191	21,042	15,743	19,833	24,271	-25.2	-35.1	44,104	36,785	-16.6
Stocks, end of month, dry felt.....tons..	4,790	5,009	4,970	6,382	7,087	4,630	3,274	+11.0	+116.5	7,904	13,469	+70.4
Prepared roofing:*												
Shipments—												
Total.....no. of sqs..	3,311,817	2,326,479	2,638,989	² 2,382,804	1,356,151	2,420,296	3,374,148	-43.1	-59.8	5,794,444	3,738,955	-35.5
Smooth roll.....no. of sqs..	1,501,917	1,160,533	949,927	1,224,481	709,277	1,324,710	1,798,614	-42.1	-60.6	3,123,324	1,933,758	-38.1
Grit roll.....no. of sqs..	840,373	532,463	512,867	² 492,974	338,308	484,506	716,989	-34.1	-53.8	1,201,495	831,282	-30.8
Shingles—												
Strip, patented, and hexagon.....no. of sqs..	794,465	509,996	481,757	² 598,316	252,006	515,078	745,284	-57.9	-66.2	1,260,362	850,322	-32.5
Individual and single thickness.....no. of sqs..	175,062	123,487	94,438	67,033	56,560	96,002	113,261	-15.6	-50.1	209,263	123,593	-40.9
BUILDING EQUIPMENT												
Enameled Ware												
Baths:												
Shipments.....pieces..	65,530	50,417	46,715	40,967	46,204	69,415	66,221	+12.8	-30.2	135,636	87,171	-35.7
Stocks, end of month.....pieces..	162,465	166,397	163,728	173,523	179,512	188,738	207,324	+3.5	-13.4			
New orders.....pieces..	56,855	46,374	52,592	32,558	64,732	66,991	73,997	+98.8	-12.5	140,988	97,290	-31.0
Unfilled orders, end of month.....pieces..	47,525	41,776	40,668	29,774	49,637	35,073	42,556	+66.7	+16.6			
Lavatories:												
Shipments.....pieces..	85,889	66,951	² 66,300	53,122	60,603	81,701	80,420	+14.1	-24.6	162,121	113,725	-29.9
Stocks, end of month.....pieces..	176,319	173,570	² 155,189	163,283	166,201	230,527	255,596	+1.8	-35.0			
New orders.....pieces..	71,967	56,899	² 60,575	40,836	101,899	80,614	88,671	+149.5	+14.9	169,225	142,735	-15.7
Sinks:												
Shipments.....pieces..	93,446	68,675	² 65,947	58,343	62,530	93,321	79,162	+7.2	-21.0	172,483	120,873	-29.9
Stocks, end of month.....pieces..	243,409	248,685	² 234,340	251,446	269,281	276,037	304,051	+7.1	-11.4			
New orders.....pieces..	78,600	63,073	55,271	49,776	91,348	86,866	88,647	+83.5	+3.0	175,513	141,124	-19.6
Miscellaneous sanitary ware:												
Shipments.....pieces..	38,630	28,557	² 27,642	24,288	26,425	41,197	33,974	+8.8	-22.2	75,171	50,713	-32.5
Stocks, end of month.....pieces..	123,220	123,138	² 122,228	113,355	117,678	137,588	141,960	+3.8	-17.1			
New orders.....pieces..	34,254	27,606	² 25,074	23,009	31,128	42,036	37,136	+35.3	-16.2	79,172	54,137	-31.6
Small ware (all except baths):												
Unfilled orders, end of month.....pieces..	174,176	152,527	120,824	86,492	160,775	111,258	171,204	+85.9	-6.1			
Vitreous china plumbing fixtures:												
New orders.....pieces..	240,606	215,092	201,858	200,253	253,726	277,050	485,657	+26.7	-47.8	762,707	453,979	-40.5
Shipments.....pieces..	215,033	174,149	170,381	205,673	179,748	261,102	253,235	-12.6	-29.0	514,337	385,421	-25.1
Unfilled orders, end of month.....pieces..	369,348	410,291	441,768	436,348	510,326	405,574	637,996	+17.0	-20.0			
Stocks, end of month.....pieces..	601,832	624,472	640,171	632,740	643,622	570,749	540,639	+1.7	+19.0			
Porcelain plumbing fixtures:												
Net new orders.....pieces..	8,548	6,228	6,452	² 10,330	6,721	12,565	12,381	-34.9	-45.7	24,946	17,051	-31.6
Shipments.....pieces..	8,269	6,541	4,257	² 5,327	4,240	11,576	9,219	-20.4	-54.0	20,795	9,567	-54.0
Unfilled orders, end of month.....pieces..	25,376	23,832	25,778	² 30,374	32,781	34,864	36,798	+7.9	-10.9			
Stocks, end of month.....pieces..	40,682	39,798	38,226	37,815	39,352	44,688	45,769	+4.1	-14.0			
Plumbing fixtures, 6 pieces.....dollars..	99.20	100.58	100.58	100.55	102.89	100.30	98.41	+2.3	+4.6			
Illuminating Glassware												
Production:												
Total.....number of turns..	4,265	3,995	3,471	2,847	2,636	3,950	2,974	-7.4	-11.4	6,924	5,483	-20.8
Ratio to capacity.....per ct. of capacity..	50.2	53.2	47.0	35.4	35.5	49.0	42.6	+0.3	-16.7			
New orders.....per ct. of capacity..	52.9	44.4	35.1	35.6	35.6	41.2	42.8	0.0	-16.8			
Shipments.....per ct. of capacity..	51.1	49.0	40.0	34.8	36.4	39.9	42.5	+4.6	-14.4			
Unfilled orders, end of month.....number of weeks' supply..	1.5	1.3	1.0	1.1	1.1	1.3	1.0	0.0	+10.0			
Stocks, end of mo.....number of weeks' supply..	4.6	4.8	5.2	5.4	5.5	5.3	5.8	+1.9	-5.2			
Wooden Furniture												
Household furniture and case goods:												
Shipments.....dolls., average per firm..	82,440	61,523	35,891	46,398	50,664	51,553	56,778	+22.1	-0.2	108,331	103,062	-4.9
Unfilled orders.....dolls., average per firm..	62,355	42,811	30,135	46,593	39,067	58,765	51,676	-16.2	-24.4			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>												
BUILDING EQUIPMENT—Continued												
Wooden Furniture—Continued												
Grand Rapids district:												
Unfilled orders, end of month.....No. of days' production...	45	42	32	29	27	40	36	-6.9	-25.0			
New orders.....No. of days' production...	29	28	11	21	16	24	23	-23.8	-30.4			
Shipments.....No. of days' production...	35	27	18	21	18	24	23	-14.3	-21.7			
Outstanding accounts, end of month.....No. of days' sales...	61	57	50	48	31	56	90	-35.4	-65.6			
Cancellations.....per cent of new orders...	23.0	13.0	31.0	17.0	11.0	10.0	9.0	-35.3	+22.2			
Plant operation.....per cent of full time...	104.0	94.0	89.0	79.0	72.0	97.0	95.0	-8.9	-24.2			
Steel furniture:												
Business group—												
Shipments.....thous. of dolls..	2,984	2,631	2,782	2,883	2,486	3,661	3,288	-13.8	-24.4	6,949	5,369	-22.7
New orders.....thous. of dolls..	2,842	2,901	2,583	2,299	2,385	3,945	3,109	+3.7	-23.3	7,054	4,684	-33.6
Unfilled orders, end mo. thous. of dolls..	2,060	2,345	2,166	1,799	1,771	2,593	2,419	-1.6	-26.8			
Shelving—												
Shipments.....thous. of dolls..	979	860	856	659	668	902	974	+1.4	-31.4	1,876	1,327	-29.3
New orders.....thous. of dolls..	928	801	735	708	750	1,100	919	+5.9	-18.4	2,019	1,458	-27.8
Unfilled orders, end mo. thous. of dolls..	1,015	950	824	697	777	819	766	+11.5	+1.4			
PLYWOOD AND VENEER												
Plywood:												
New orders.....thous. of sq. ft. of surface...	9,643	4,318	6,465	9,258	4,585			+43.2				
Shipments.....thous. of sq. ft. of surface...	7,697	5,039	4,150	5,120	4,810			+23.4				
Unfilled orders, end of month.....thous. of sq. ft. of surface...	12,112	10,104	10,984	14,641	13,416			+33.3				
Rotary-cut veneer:												
Receipts.....number of carloads..	251	184	214	149	209	175	140	+40.3	+49.3	315	358	+13.7
Purchases.....number of carloads..	306	141	161	207	211	241	186	+1.9	+13.4	427	418	-2.1
Bushel baskets:												
Production.....dozens..	225,014	191,120	194,958	121,580	152,751	135,090	134,581	+25.6	+13.5	269,671	274,331	+1.7
Shipments.....dozens..	237,942	94,347	170,138	84,212	101,721	126,002	68,655	+20.8	+48.2	195,257	155,933	-4.8
Stocks, end of month.....dozens..	428,789	525,562	558,489	395,866	446,004	331,992	394,452	+12.7	+13.1			
GLASS CONTAINERS												
Actual production:												
Quantity.....gross..	2,572	2,274	1,963	2,336	2,074	2,367	2,261	-11.2	-8.3	4,628	4,410	-4.7
Relation to capacity.....per cent..	75.6	69.0	62.0	70.1	67.3	73.6	76.1	-4.0	-11.6			
New orders.....gross..	2,996	2,501	4,171	4,056	2,363	3,089	2,797	-41.7	-15.5	5,886	6,419	+9.1
Shipments.....gross..	2,445	2,005	1,705	2,011	2,011	2,435	2,139	-4.7	-6.0	4,574	4,121	-9.9
Unfilled orders, end of month.....gross..	8,320	8,571	11,434	13,011	13,636	9,306	10,749	-2.9	+17.6			
Stock, end of month.....gross..	6,121	6,387	6,648	6,858	6,868	6,460	6,552	+0.1	+4.8			
CHEMICALS AND OILS												
Chemicals												
Sulphuric acid:												
Exports.....thous. of lbs..	544,462	460,174	914,769	882,315	344,127	429,264	626,792	-61.0	-45.1	1,056,056	1,226,442	+16.1
Price, wholesale.....dolls. per 100 lbs..	.78	.78	.78	.78	.78	.78	.78	0.0	0.0			
Nitrate of soda:												
Imports.....long tons..	54,821	43,047	65,569	89,421	85,837	85,698	146,304	-4.0	-41.3	230,002	175,258	-23.8
Production in Chile.....metric tons..	207,800	261,000	285,500	280,000		274,500	255,500					
Potash salts:												
Imports (commercial).....long tons..	51,757	23,603	23,237	44,077	40,811	24,724	26,489	-7.4	+43.3	53,213	84,888	+59.5
Production in France												
(K ₂ O content).....metric tons..	44,500					42,393	37,513					
Sales in Germany												
(K ₂ O content).....metric tons..	79,159	84,670	99,594	186,000	202,711	164,736	144,676	+9.0	+40.1	309,412	388,711	+25.6
Superphosphate (acid phosphate):												
Production.....short tons..	348,793	346,785	354,226	455,273		356,365	307,300					
Stocks, end of month.....short tons..	1,512,044	1,750,442	2,002,935	2,325,603		2,205,953	2,316,451					
Shipments.....short tons..	154,012	77,647	77,269	117,345		118,625	179,023					
Fertilizer:												
Exports.....long tons..	129,849	101,823	147,483	104,221	163,776	99,751	100,508	+57.1	+62.9	200,259	267,997	+33.8
Consumption, Southern States.....short tons..	101,295	60,692	94,958	504,440	1,071,004	462,499	817,359	+112.3	+31.0	1,269,858	1,575,444	+24.1
Crude arsenic:												
Production.....short tons..	3,113	1,203	2,049	1,079		1,136	1,262					
Stocks, end of month.....short tons..	3,309	3,112	3,774	3,677		3,019	2,782					
Refined arsenic:												
Production.....short tons..	1,036	1,197	1,063	742		913	900					
Stocks, end of month.....short tons..	3,672	3,993	4,131	3,879		3,571	3,643					
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs..	247	321	193	151	182	92	188	+20.5	-3.2	280	333	+18.9
Coal tar.....thous. of lbs..	18	20	24	2,052	2,320	58	29	+13.1		87	4,372	+402.5
Price index numbers:												
Crude drugs.....rel. to Aug., 1914..	180	176	172	170	169	195	195	-0.6	-13.3			
Essential oils.....rel. to Aug., 1914..	161	155	146	133	123	191	195	-7.5	-36.9			
Drugs and pharmaceuticals.....rel. to Aug., 1914..												
Chemicals.....rel. to 1927..	177	177	177	177	176	164	164	-0.6	+7.3			
Oils and fats.....rel. to 1927..	105	99	98	94	95	99	101	+1.1	-5.9			
Wood Chemicals												
Acetate of lime:												
Production—												
United States.....thous. of lbs..	12,532	11,982	11,666	11,798	9,588	11,996	11,400	-18.7	-15.9	23,396	21,386	-8.6
Canada.....thous. of lbs..	367	1,027	1,246	1,545	1,180	1,263	1,090	-23.6	+8.3	2,353	2,725	+15.8
Shipments—												
United States.....thous. of lbs..	12,171	10,661	6,729	3,921	4,616	11,525	11,108	+17.7	-58.4	22,633	8,537	-62.3
Canada.....thous. of lbs..	301	943	248	178	718	1,214	1,074	+303.4	-33.1	2,288	896	-60.8

‡ Revised

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	CHEMICALS AND OILS—Continued											
Wood Chemicals—Continued												
Acetate of lime—Continued.												
Stocks, end of month—												
United States.....thous. of lbs.	1,687	2,826	7,761	15,536	20,719	1,544	1,739	+33.4				
Canada.....thous. of lbs.	201	172	1,111	2,498	3,032	174	189	+21.4				
Exports.....thous. of lbs.		13				42	16					
Price, wholesale.....dolls. 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.	719,064	705,320	830,331	715,886	615,032	700,613	685,567	-14.1	-10.3	1,386,180	1,330,918	-4.0
Canada.....gallons.	16,904	45,242	57,587	65,090	53,754	52,925	46,067	-17.4	+16.7	98,992	118,844	+20.1
Stocks at crude plants, end of month—												
United States.....gallons.	255,204	273,097	247,360	389,876	510,218	235,052	227,515	+30.9	+124.3			
Canada.....gallons.	12,924	14,469	26,580	38,408	27,033	28,103	35,693	-29.6	-24.3			
Stocks at refineries and in transit—												
United States.....gallons.	530,710	615,852	728,473	903,304	838,421	145,093	153,423	-7.2	+446.5			
Canada.....gallons.	47,479	30,510	11,518	9,038	16,400	48,495	47,832	+81.5	-65.7			
Exports.....gallons.	12,329	83,634	11,791	47,571	15,691	43,915	37,213	-67.0	-57.8	81,128	63,262	-22.0
Wood at chemical plants:												
Consumption—												
United States.....cords.	75,508	71,209	70,279	73,326	60,416	73,308	69,760	-17.6	-13.4	143,068	133,742	-6.5
Canada.....cords.	1,954	5,436	6,720	7,625	5,950	6,630	5,824	-22.0	+2.2	12,454	13,575	+9.0
Stocks, end of month—												
United States.....cords.	527,210	500,387	486,236	601,972	488,884	497,965	483,150	-18.8	+1.2			
Canada.....cords.	71,530	71,015	70,756	71,022	70,717	72,933	74,100	-0.4	-4.6			
Daily capacity—												
Total.....cords.	3,246	3,246	3,246	3,246	3,246	3,336	3,336	0.0	-2.7			
Shutdown.....cords.	289	329	302	222	416	292	334	+87.4	+24.6			
Methanol, refined:												
Production—												
United States.....gallons.	445,183	488,212	432,978	248,723	394,647	494,501	449,800	+58.7	-12.3	944,801	643,370	-31.9
Canada.....gallons.	56,300	58,150	72,200	41,500	47,100	59,800	47,700	+13.5	-1.3	107,500	88,600	-17.6
Stocks, end of month—												
United States.....gallons.	725,620	755,326	795,868	695,155	705,258	503,054	550,702	+1.5	+28.1			
Canada.....gallons.	14,238	44,164	32,175	28,405	37,630	35,534	38,393	+32.5	-2.0			
Shipments—												
United States.....gallons.	558,179	412,683	478,056	425,071	451,173	506,624	466,621	+6.1	-3.3	973,245	876,244	-10.0
Canada.....gallons.	48,632	46,335	34,803	41,274	30,484	47,629	33,623	-26.1	-9.3	81,252	71,758	-11.7
Price, wholesale, N. Y.....dolls. per gal.	.58	.52	.51	.47	.46	.58	.58	-2.1	-20.7			
Ethyl Alcohol												
Production.....thous. of gals.	25,426	20,898	16,262	11,601	10,943	15,282	13,830	-5.7	-20.9	29,112	22,544	-22.6
Withdrawn for denaturation.....thous. of gals.	24,203	20,989	18,861	11,174	9,801	13,911	11,813	-12.3	-17.0	25,724	20,975	-18.5
Warehouse stocks, end of month.....thous. of gals.	11,932	11,462	8,199	7,298	7,496	8,701	9,662	+2.7	-22.4			
Explosives												
(Black powder, permissible, and other high explosives)												
Production.....thous. of lbs.	42,108	36,134	31,015	31,986	33,244	33,596	35,392	+3.9	-6.1	68,988	65,230	-5.4
Shipments.....thous. of lbs.	40,246	37,068	29,236	31,709	31,574	35,576	34,322	-0.4	-8.0	69,898	63,283	-9.6
New orders.....thous. of lbs.	40,295	35,534	29,784	30,828	30,584	35,082	32,606	-0.8	-6.2	67,688	61,412	-9.3
Stocks, end of month.....thous. of lbs.	17,811	16,734	18,311	18,636	20,522	18,071	19,151	+10.1	+7.2			
Naval Stores												
Turpentine (gum):												
Net receipts, southern ports.....barrels.	33,356	33,813	28,921	10,237	5,075	8,175	4,758	-50.4	+6.7	12,933	15,312	+18.4
Stocks at port, end of month.....barrels.	67,038	68,546	68,432	58,485	45,338	79,837	67,956	-22.5	-33.3			
Price, southern, New York.....dolls. per gal.	.56	.53	.54	.55	.55	.61	.58	0.0	-5.2			
Rosin (gum):												
Net receipts, southern ports.....barrels.	120,886	139,264	128,057	50,791	30,605	45,203	29,284	-39.7	+4.5	74,487	81,306	+9.3
Stocks at 3 ports, end of month.....barrels.	244,767	256,895	257,595	221,568	184,451	227,409	177,232	-16.8	+4.1			
Price, B. New York.....dolls. per bbl.	9.27	8.79	8.26	8.05	7.59	8.87	8.30	-5.7	-8.6			
Rosin (wood):												
Production.....barrels.	40,903	40,678	36,628	40,954	39,615	37,765	33,152	-3.3	+19.5	70,917	80,569	+13.6
Stocks, end of month.....barrels.	84,111	88,038	88,909	90,258	88,355	120,956	126,264	-2.1	-30.0			
Turpentine (wood):												
Production.....barrels.	7,449	7,498	7,068	7,510	7,478	7,347	6,436	-0.4	+16.2	13,783	14,988	+8.7
Stocks, end of month.....barrels.	5,569	7,289	8,889	10,581	12,190	7,869	7,648	+15.2	+59.4			
Pine oil:												
Production.....gallons.	259,017	249,603	216,330	254,894	238,944	238,703	204,700	-6.3	+16.7	443,403	493,838	+11.4
Stocks, end of month.....gallons.	875,424	946,258	950,202	1,005,571	1,096,756	938,737	890,181	+9.1	+22.0			
Fats and Oils												
Total vegetable oils and copra:												
Exports.....thous. of lbs.	3,061	3,362	3,828	4,666	3,814	2,884	3,637	-18.3	+4.9	6,521	8,480	+30.0
Imports.....thous. of lbs.	88,409	67,961	80,124	84,194	67,603	74,261	80,125	-19.7	-15.6	154,386	151,797	-1.7
Copra, imports.....short tons.	17,208	19,722	15,022	18,488	26,376	23,474	22,209	+42.7	+18.8	45,683	44,864	-1.8
Copra or coconut oil:												
Imports.....thous. of lbs.	36,770	24,728	39,775	37,699	19,213	35,164	35,264	-49.0	-45.5	70,428	56,912	-19.2
Consumption in oleomargarine.....thous. of lbs.	19,511	16,803	17,917	18,490	14,356	15,455	15,221	-22.4	-5.7	30,676	32,846	+7.1
Oleomargarine:												
Production.....thous. of lbs.	36,624	33,432	32,883	32,540	28,402	29,474	28,943	-12.7	-1.9	58,417	60,942	-4.3
Consumption.....thous. of lbs.	34,591	35,281	32,145	30,309	30,793	27,847	32,713	+1.6	-5.9	60,560	61,102	+0.9
Animal glues, shipments.....thous. of lbs.	8,071	6,146	5,757			6,109	6,435					

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	October	Novem-ber	Decem-ber	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
<i>The cumulatives shown are through Feb-ruary. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"</i>												
CHEMICALS AND OILS—Continued												
Cottonseed												
Cottonseed:												
Receipts at mills.....short tons..	1,487,577	763,046	566,192	321,230	287,464	414,705	² 161,020	-10.5	+78.5	575,725	608,694	+5.7
Consumption (crush).....short tons..	896,904	785,271	618,821	665,552	520,030	747,740	² 512,083	-21.9	+1.6	1,259,823	1,185,582	-5.9
Stocks at mills, end of month.....short tons..	1,181,420	1,159,195	1,106,566	760,745	528,006	999,198	² 648,135	-30.6	-18.5			
Cottonseed oil, crude:												
Production.....thous. of lbs..	276,280	245,396	192,001	207,046	163,759	236,916	² 165,497	-20.9	-1.1	402,413	370,805	-7.9
Stocks, end of month.....thous. of lbs..	121,341	124,002	116,150	126,525	109,070	141,243	² 126,357	-13.8	-13.7			
Cottonseed oil, refined:												
Production.....thous. of lbs..	206,597	218,269	187,050	172,089	160,524	203,358	² 168,453	-6.7	-4.7	371,811	332,613	-10.5
Stocks, end of month.....thous. of lbs..	232,699	326,843	422,335	465,226	512,572	511,838	² 567,515	+10.2	-9.7			
Price, yellow, prime, New York.....dolls. per lb..	.093	.090	.087	.084	.084	.103	.109	0.0	-22.9			
Consumption in oleomargarine.....thous. of lbs..	3,022	2,852	3,511	2,629	2,351	2,283	2,314	-10.6	+1.6	4,597	4,980	+8.3
Cottonseed cake and meal:												
Production.....short tons..	398,987	349,335	272,531	297,234	227,931	338,282	² 234,766	-23.3	-2.9	573,048	525,165	-8.4
Stocks, end of month.....short tons..	162,074	199,181	203,554	206,062	205,909	238,778	² 257,932	-0.1	-20.2			
Exports.....short tons..	33,434	23,714	30,894	25,063	4,918	34,135	27,011	-80.4	-81.8	61,146	29,981	-51.0
Flaxseed												
Minneapolis and Duluth:												
Receipts.....thous. of bush..	3,189	1,313	575	251	119	369	346	-52.6	-65.6	715	370	-48.3
Shipments.....thous. of bush..	1,697	1,445	592	163	162	283	399	-0.6	-59.4	682	325	-52.3
Stocks, end of month.....thous. of bush..	1,179	594	882	877	745	1,063	727	-15.1	+2.5			
Imports.....thous. of bush..	2,582	1,686	1,290	1,074	2,279	1,411	2,529	+112.2	-9.9	3,940	3,353	-14.9
Mill receipts at Duluth:												
Superior.....thous. of bush..	935	96	4,919	2,938	69	34	34			103	2,938	
Price, No. 1, Minneapolis.....dolls. per bush..	3.32	3.24	3.22	3.08	3.05	2.45	2.55	-1.0	+19.6			
Linseed oil:												
Shipments from Minneapolis.....thous. of lbs..	13,707	8,467	5,043	5,198	5,493	12,782	13,214	+5.7	-58.4	25,996	10,691	-58.9
Price, New York.....dolls. per lb..	.159	.150	.147	.140	.141	.100	.102	+0.7	+38.2			
Linseed cake and meal:												
Shipments from Minneapolis.....thous. of lbs..	30,466	17,442	18,977	20,859	13,600	24,411	23,479	-34.8	-42.1	47,890	34,459	-28.0
Exports.....thous. of lbs..	52,423	53,104	45,745	52,833	33,970	45,718	² 44,233	-35.7	-23.2	89,951	86,803	-3.5
FOODSTUFFS												
Wheat												
Visible supply, end of month:												
United States.....thous. of bush..	202,781	191,833	185,113	168,925	160,375	130,063	126,503	-5.1	+26.8			
Canada.....thous. of bush..	213,381	217,102	217,903	210,643	202,282	188,742	184,467	-4.0	+9.7			
Receipts, principal markets.....thous. of bush..	36,256	20,625	22,887	17,530	19,920	22,537	28,698	+13.6	-30.6	51,235	37,450	-26.9
Shipments, principal markets.....thous. of bush..	27,116	24,121	16,402	14,170	11,234	16,762	15,192	-20.7	-26.1	31,954	25,404	-20.5
Exports:												
United States—												
Wheat only.....thous. of bush..	8,767	9,977	7,067	8,245	5,185	3,399	3,214	-37.1	+61.3	6,613	13,430	+103.1
Including wheat flour.....thous. of bush..	14,664	15,181	12,121	13,825	9,350	9,559	8,704	-32.4	+7.4	18,263	23,175	+26.9
Canada—												
Including wheat flour.....thous. of bush..	23,215	24,866	18,684	7,258	8,898	25,030	19,711	+22.6	-54.9	44,741	16,156	-63.9
Prices:												
No. 1, Northern Spring, Minneapolis.....dolls. per bush..	1.31	1.28	1.31	1.27	1.25	1.21	1.28	-1.6	-2.3			
No. 2 Red Winter, St. Louis.....dolls. per bush..	1.32	1.29	1.35	1.34	1.23	1.42	1.40	-8.2	-12.1			
No. 2 Hard Winter, Kansas City.....dolls. per bush..	1.22	1.19	1.21	1.19	1.13	1.14	1.18	-5.0	-4.2			
Wheat Flour												
Grindings of wheat:												
United States.....thous. of bush..	50,445	43,913	41,062	² 43,812	40,500	45,767	41,292	-7.6	-1.9	87,059	84,312	-3.2
Canada.....thous. of bush..	6,814	7,261	4,837	5,201		7,794	7,286					
Production:												
United States, actual.....thous. of bbls..	10,968	9,538	8,905	² 9,510	8,782	10,014	9,026	-7.7	-2.7	19,040	18,292	-3.9
United States, prorated.....thous. of bbls..	12,153	10,740	9,770	9,948		10,808	10,020					
Canada.....thous. of bbls..	1,528	1,629	1,073	1,168		1,698	1,600					
Grain ofal, production.....thous. of lbs..	886,004	776,745	728,157	² 772,726	726,752	792,580	716,899	-5.9	+1.4	1,509,479	1,499,478	-0.7
Capacity operated, flour mills.....per cent.	62	58	54	56	58	58	60	+3.6	-3.3			
Consumption (computed).....thous. of bbls..	11,642	9,884	8,043	9,808		9,229	8,986					
Stocks, all positions, end of month (computed).....thous. of bbls..	8,700	8,400	9,100	8,000		7,580	7,400					
Exports:												
United States.....thous. of bbls..	1,311	1,156	1,123	1,240	925	1,369	1,220	-25.4	-24.2	2,589	2,165	-16.4
Canada.....thous. of bbls..	534	538	605	503	481	933	998	-4.4	-51.8	1,931	984	-49.0
Wholesale prices:												
Standard patents, Minn.....dolls. per bbl..	6.91	6.69	6.88	6.75	6.39	6.34	6.81	-5.3	-6.2			
Winter, straights, Kansas City.....dolls. per bbl..	6.01	5.92	5.95	5.84	5.63	5.52	5.73	-3.6	-1.7			
Corn												
Exports, including meal.....thous. of bush..	732	752	870	819	916	12,357	8,087	+11.8	-88.7	20,444	1,735	-1.5
Visible supply, end of month.....thous. of bush..	3,924	3,646	8,469	16,286	24,270	28,012	36,265	+49.0	-33.1			
Receipts, principal markets.....thous. of bush..	18,303	18,526	31,221	31,344	29,564	39,876	29,229	-5.7	+1.1	69,105	60,908	-11.9
Shipments, prin. markets.....thous. of bush..	11,075	9,287	15,493	16,438	13,785	19,838	13,951	-16.1	-1.2	33,789	30,223	-10.6
Grinding (starch, glucose).....thous. of bush..	8,721	6,453	6,053	7,622	6,568	8,364	8,719	-13.8	-24.7	17,083	14,190	-16.9
Prices:												
No. 3, Yellow, Chicago.....dolls. per bush..	.95	.88	.88	.85	.82	.93	.94	-3.5	-12.8			
No. 3, Yellow, Kansas City.....dolls. per bush..	.92	.87	.84	.82	.78	.87	.87	-4.9	-10.3			
No. 3, White, Chicago.....dolls. per bush..	.96	.87	.88	.86	.84	.95	.95	-2.3	-11.6			

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
FOODSTUFFS—Continued												
Barley												
Receipts, principal markets.....thous. of bush.	5,554	3,808	3,848	2,826		3,970	4,960					
Visible supply, end of month.....thous. of bush.	9,877	9,886	9,927	4,894	8,545	8,932	9,293	+74.6	-8.0			
Exports.....thous. of bush.	1,795	1,038	1,213	734	1,017	2,277	3,244	+38.6	-68.6	5,521	1,751	-68.3
Price, No. 2, Minneapolis.....dolls. per bush.	.59	.60	.59	.58	.57	.66	.70	-1.7	-18.6			
Oats												
Receipts, principal markets.....thous. of bush.	15,336	7,098	7,084	6,741	7,336	9,919	9,562	+8.8	-23.3	19,481	14,077	-27.7
Visible supply, end of month.....thous. of bush.	32,069	29,720	29,314	25,220	22,527	16,212	16,819	-10.7	+33.9			
Exports, including meal.....thous. of bush.	1,320	955	443	377	389	1,273	2,760	+3.2	-48.8	2,033	766	-62.3
Price, No. 3, white, Chicago.....dolls. per bush.	.47	.45	.45	.45	.44	.50	.50	-2.2	-12.0			
Grindings, Canada.....thous. of bush.	1,156	908	793	661		824	925					
Production, oatmeal and rolled oats, Canada.....thous. of lbs.	14,632	10,457	8,891	7,318		9,956	11,710					
Rye												
Receipts, principal markets.....thous. of bush.	3,405	1,496	5,946	1,250		1,045	1,119					
Visible supply, end of month.....thous. of bush.	9,903	10,588	8,656	9,184		5,973	6,239					
Exports, including flour.....thous. of bush.	552	22	26	28	36	197	126	+28.6	-71.4	323	64	-80.2
Price, No. 2, Minneapolis.....dolls. per bush.	.97	.95	.98	.91	.78	1.01	1.05	-14.3	-25.7			
Total Grains												
Total grains exports, incl. flour.....thous. of bush.	19,073	17,948	14,673	15,783	11,707	25,663	20,921	-25.8	-44.0	46,584	27,490	-41.0
Rice												
Southern paddy, receipts at mills.....bbls.	2,330,286	1,415,999	797,381	869,702	961,209	621,096	591,678	+10.5	+62.5	1,212,774	1,830,911	+51.0
Shipments:												
Total from mills.....pockets (100 lbs.)	1,376,400	1,133,769	1,023,346	1,073,165	1,005,421	973,256	816,370	-6.3	+23.2	1,739,626	2,078,586	+16.1
New Orleans.....pockets (100 lbs.)	249,474	178,168	132,592	88,638	81,050	146,342	122,455	-8.6	-33.8	268,797	169,688	-36.9
Stocks, end of month.....pockets (100 lbs.)	2,173,838	2,551,417	2,439,182	2,317,594	2,360,083	2,515,008	2,354,518	+1.8	+0.2			
Exports.....pockets (100 lbs.)	229,686	340,753	420,212	323,281	221,954	504,921	368,378	-31.3	-39.7	873,299	545,235	-37.6
Imports.....pockets (100 lbs.)	6,662	12,494	53,488	34,334	20,273	76,593	29,251	-41.0	-30.7	105,844	54,607	-48.4
Fruits and Vegetables												
Apples:												
Cold-storage holdings, end of month.....thous. of bbls.	7,997	9,380	7,967	2,634	4,218	6,875	4,517	-30.1	-6.6			
Car-lot shipments.....carloads.	36,366	14,046	5,729	6,095	6,314	7,656	7,697	+3.6	-18.0	15,353	12,409	-19.2
Potatoes, car-lot shipments.....carloads.	31,253	15,299	14,826	19,857	19,593	19,479	19,868	-1.3	-1.4	39,347	39,450	+0.3
Onions, car-lot shipments.....carloads.	5,484	2,815	2,232	3,277	2,743	2,436	1,791	-16.3	+53.2	4,227	6,020	+42.4
Citrus fruits, car-lot shipments.....carloads.	8,652	8,936	10,927	10,091	10,187	15,226	13,338	+1.0	-23.6	28,564	20,278	-29.0
Hay												
Receipts.....tons.	6,386	4,442	5,048	6,107		7,030	6,932					
Cattle and Beef												
Cattle movements, primary markets:												
Receipts.....thousands.	2,407	2,943	1,555	1,639	1,326	2,639	1,195	-19.1	+11.0	2,834	2,965	+4.6
Shipments, total.....thousands.	1,271	1,012	627	623	508	561	405	-18.5	+25.4	966	1,131	+17.1
Shipments, stocker and feeder.....thousands.	757	556	255	233	201	178	117	-13.7	+71.8	295	434	+47.1
Local slaughter.....thousands.	1,170	958	923	995	806	1,061	790	-19.0	+2.0	1,851	1,801	-2.7
Beef products:												
Production, inspected.....thous. of lbs.	2,458,440	399,272	370,843	408,525	327,527	419,676	328,857	-19.8	-0.4	748,533	736,052	-1.7
Apparent consumption.....thous. of lbs.	2,453,543	386,168	364,142	2,415,507	333,898	430,985	339,194	-19.6	-1.6	770,179	749,405	-2.7
Exports.....thous. of lbs.	1,223	1,100	1,175	1,292	1,133	1,119	1,273	-12.3	-11.0	2,392	2,425	+1.4
Cold-storage holdings, end of month.....thous. of lbs.	72,059	93,444	103,883	99,020	95,256	93,990	88,771	-3.8	+7.3			
Prices:												
Cattle, corn-fed, Chicago.....dolls. per 100 lbs.	13.31	12.69	12.13	12.47	12.53	13.53	12.06	+0.5	+3.9			
Steer rounds, No. 2.....dolls. per lb.	.236	.240	.240	.240	.236	.240	.209	-1.7	+12.9			
Western dressed steers, N. Y.....dolls. per lb.	.238	.236	.235	.235	.223	.245	.215	-5.1	+3.7			
Hogs and Pork												
Hog movements, primary markets:												
Receipts.....thousands.	2,371	3,933	2,426	4,720	3,791	5,133	2,000	-19.7	-5.2	9,133	8,511	-6.8
Shipments, total.....thousands.	1,381	1,396	1,449	1,797	1,491	1,864	1,502	-17.0	-0.7	3,366	3,288	-2.3
Shipments, stocker and feeder.....thousands.	50	52	53	38	56	47	49	+47.4	+14.3	96	94	-2.1
Local slaughter.....thousands.	2,333	2,543	2,801	2,905	2,297	3,266	2,454	-20.9	-7.5	5,750	5,202	-9.5
Pork products, total:												
Production, inspected.....thous. of lbs.	2,651,681	738,485	851,300	874,334	705,032	974,060	770,096	-19.4	-8.4	1,744,156	1,579,366	-9.4
Apparent consumption.....thous. of lbs.	2,717,951	657,403	602,470	2,692,820	491,032	2,628,309	537,342	-29.1	-8.6	1,165,651	1,183,852	+1.6
Exports.....thous. of lbs.	97,081	114,707	140,377	105,817	97,263	2,122,773	93,681	-8.1	+3.8	216,454	203,080	-6.2
Cold-storage holdings, end of month:												
Total.....thous. of lbs.	591,247	558,146	703,084	2,779,277	896,422	978,806	1,118,606	+15.0	-19.9			
Fresh and cured.....thous. of lbs.	491,402	489,629	620,986	2,687,106	783,707	838,280	944,742	+14.1	-17.0			
Lard (including in pork products):												
Production.....thous. of lbs.	128,951	144,987	176,607	177,251		213,780	164,915					
Exports.....thous. of lbs.	70,698	83,257	80,053	73,291	65,953	2,901,137	65,924	-10.0		156,061	139,244	-10.8
Cold-storage holdings, end of month.....thous. of lbs.	99,845	68,517	82,098	2,921,711	112,715	140,526	173,804	+22.3	-3.52			
Prices:												
Hogs, heavy, Chicago.....dolls. per 100 lbs.	9.65	9.27	9.47	9.61	10.41	9.10	10.13	+8.3	+2.8			
Ham, smoked, Chicago.....dolls. per lb.	.242	.218	.215	.239	.252	.231	.231	+5.4	+9.1			
Lard, prime contract, N. Y.....dolls. per lb.	.114	.109	.108	.109	.112	.121	.123	+2.8	-8.9			

2 Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
FOODSTUFFS—Continued												
Sheep and Lambs												
Sheep movement, primary market:												
Receipts.....thousands..	4,093	2,168	1,703	1,903	1,796	1,877	1,544	-5.6	+16.3	3,421	3,699	+8.1
Shipments, total.....thousands..	281	1,207	732	786	735	837	683	-6.5	+7.6	1,520	1,521	+0.1
Shipments, stocker and feeder.....thousands..	1,831	575	183	126	101	188	115	-19.8	-12.2	303	227	-25.1
Local slaughter.....thousands..	1,328	995	967	1,111	1,041	1,041	840	-6.3	+23.9	1,881	2,152	+14.4
Lamb and mutton:												
Production, inspected.....thous. of lbs..	52,677	45,233	43,742	50,289	49,564	45,485	38,424	-1.4	+29.0	83,909	99,853	+19.0
Apparent consumption.....thous. of lbs..	51,963	44,976	43,605	50,814	48,778	47,139	39,908	-4.0	+22.2	87,047	99,592	+14.4
Cold-storage holdings, end of month.....thous. of lbs..	4,992	5,194	5,317	4,667	5,411	4,009	3,252	+15.9	+66.4			
Pieces:												
Sheep, ewes, Chicago.....dolls. per 100 lbs..	4.63	4.98	4.94	6.26	5.18	8.39	7.72	-17.3	-32.9			
Sheep, lambs, Chicago.....dolls. per 100 lbs..	12.09	11.97	12.00	12.68	10.44	15.59	15.59	-17.7	-33.0			
Miscellaneous Meats												
Cold-storage holdings, end of mo. thous. of lbs..	63,914	72,744	89,742	89,144	90,127	88,678	91,363	+1.1	-1.4			
Total Meats												
Production, inspected.....thous. of lbs..	1,162,798	1,182,990	1,265,885	1,333,148	1,082,124	1,439,221	1,137,377	-18.8	-4.9	2,576,598	2,415,272	-6.3
Cold-storage holdings, end of mo. thous. of lbs..	732,212	729,528	902,026	972,108	1,087,216	1,165,483	1,301,992	+11.8	-16.5			
Apparent consumption.....thous. of lbs..	1,223,571	1,088,547	1,010,217	1,159,141	873,708	1,106,629	916,444	-24.6	-4.7	2,023,073	2,032,849	+0.5
Poultry												
Receipts at 5 markets.....thous. of lbs..	37,725	73,662	77,325	33,886	24,800	30,969	20,672	-25.7	+20.0	51,641	58,186	+12.7
Cold-storage holdings, end of mo. thous. of lbs..	86,873	115,876	140,723	141,552	133,138	102,380	89,088	-5.9	+49.4			
Fish												
Total catch, prin. ports.....thous. of bbls..	33,243	27,332	18,074	23,918	27,583	15,496	24,564	+15.3	+12.3	40,060	51,501	+28.6
Cold-storage holdings, 15th of mo. thous. of lbs..	75,323	78,968	75,847	62,428	49,797	62,375	48,364	-20.2	+3.0			
Canned salmon:												
Shipments, United States.....cases..	584,590	378,695	553,078	505,831	371,960	523,761	428,399	-26.5	-13.2	952,160	877,791	-7.8
Exports, Canada.....cases..	162,831	177,252	159,488	71,285	91,823	205,096	73,556	+28.8	+24.8	278,652	163,108	-41.5
Butter												
Production (factory).....thous. of lbs..	109,733	90,631	94,350	103,949	96,206	95,234	92,020	-7.4	+4.5	187,254	200,155	+6.9
Receipts, 5 markets.....thous. of lbs..	42,963	38,228	39,843	43,507	41,014	44,925	41,557	-5.7	-1.3	86,482	84,521	-2.3
Cold-storage holdings, creamery, end of month.....thous. of lbs..	138,405	111,650	81,935	60,230	46,513	24,747	11,910	-22.8	+290.5			
Apparent consumption.....thous. of lbs..	172,923	153,125	160,464	160,417	141,901	157,457	143,208	-11.5	-0.9	300,665	302,318	+0.5
Wholesale price, New York.....dolls. per lb..	.46	.43	.41	.37	.36	.48	.50	-2.7	-28.0			
Cheese												
Total, all varieties:												
Production (factory).....thous. of lbs..	27,665	22,554	22,542	23,807	22,293	29,219	28,761	-6.4	-22.5	57,980	46,100	-20.5
Receipts, 5 markets.....thous. of lbs..	14,344	11,828	10,880	12,525	12,467	13,781	13,878	-0.5	-10.2	27,659	24,992	-9.6
Apparent consumption.....thous. of lbs..	42,329	37,112	35,695	40,424	33,807	40,192	36,450	-16.4	-7.3	76,642	74,231	-3.1
Cold-storage holdings, end mo. thous. of lbs..	94,879	86,949	80,623	69,223	61,906	74,016	63,968	-10.6	-3.2			
Imports.....thous. of lbs..	6,911	6,902	7,015	5,361	4,395	7,291	5,687	-18.0	-22.7	12,978	9,756	-24.8
Exports, United States.....thous. of lbs..	195	130	241	181	198	244	194	+9.4	+2.1	438	379	-13.5
Exports, Canada.....thous. of lbs..	17,144	13,925	4,963	1,552	280	1,500	714	-82.0	-60.8	2,214	1,832	-17.3
American whole milk:												
Cold-storage holdings, end of month.....thous. of lbs..	78,058	71,065	63,478	53,672	47,879	57,764	49,546	-10.8	-3.4			
Wholesale price, New York.....dolls. per lb..	.24	.24	.23	.21	.21	.25	.24	0.0	-12.5			
Eggs												
Receipts, 5 markets.....thous. of cases..	735	532	633	917	1,110	918	832	+21.0	+33.4	1,750	2,027	+15.8
Cold-storage holdings, end of month:												
Case.....thous. of cases..	4,930	2,631	704	139	84	248	11	-39.6				
Frozen.....thous. of lbs..	70,331	61,772	53,644	44,080	35,016	48,055	38,250	-20.6	-8.5			
Milk												
Condensed milk:												
Total stocks, mfrs., end of mo.—												
Case goods.....thous. of lbs..	29,182	27,126	25,462	21,740	18,671	10,393	8,463	-14.1	+120.6			
Bulk goods.....thous. of lbs..	27,559	24,514	23,006	23,475	20,256	6,271	5,826	-13.7	+247.7			
Unsold stocks, mfrs., end of mo.—												
Case goods.....thous. of lbs..	23,614	21,722	20,341	16,502	14,077	5,339	3,227	-14.7	+336.2			
Bulk goods.....thous. of lbs..	7,735	6,855	7,600	6,289	4,678	2,925	2,669	-25.6	+75.3			
Exports.....thous. of lbs..	4,019	2,771	3,100	2,623	3,582	3,432	3,486	+36.6	+2.8	6,918	6,205	-10.3
Wholesale price, New York.....dolls. per case..	6.13	6.13	6.13	6.13	6.13	6.18	6.18	0.0	-0.8			
Evaporated milk:												
Manufacturers' stocks, end of mo.—												
Total, case goods.....thous. of lbs..	244,035	231,970	211,954	175,974	153,121	137,163	116,823	-13.0	+31.1			
Unsold, case goods.....thous. of lbs..	192,084	185,455	169,345	143,769	129,499	112,430	95,025	-9.9	+35.0			
Exports.....thous. of lbs..	5,179	4,767	5,339	5,339	5,121	6,021	6,006	-12.3	-22.5	12,627	10,960	-13.2
Wholesale price, New York.....dolls. per case..	3.95	3.95	3.95	3.95	3.95	4.58	4.58	0.0	-13.8			
Production, condensed and evaporated milk.....thous. of lbs..	124,434	107,119	117,095	125,073	124,835	129,982	129,095	-0.2	-3.3	259,077	249,908	-3.5
Powdered milk:												
Manufacturers' stocks, end mo.—												
Case goods.....thous. of lbs..	29,118	29,616	31,061	29,933	25,502	13,450	11,525	-14.5	+121.3			
Exports.....thous. of lbs..	673	446	561	944	454	372	488	-51.9	-7.0	860	1,398	+62.6
Net new orders.....thous. of lbs..	6,879	6,927	6,845	8,956	8,613	27,341	26,982	-3.8	+23.4	14,323	17,569	+22.7

¹ Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
FOODSTUFFS—Continued												
Milk—Continued												
Fluid milk:												
Receipts—												
Boston (includ. cream).....thous. of qts..	18,699	18,990	18,224	19,192		16,631	15,560					
Greater New York.....thous. of qts..	116,449	111,999				111,129	102,039					
Production—												
Minneapolis, St. Paul.....thous. of lbs..	23,739	24,670	28,884	32,554		28,388	27,025					
Consumption in manufacture of oleomargarine.....thous. of lbs..	10,321	9,486	9,169	9,035	7,714	8,036	7,835	-14.6	-1.5	15,781	16,749	+5.5
Sugar												
Raw:												
Imports—												
From Hawaii, Porto Rico.....long tons..	92,684	31,962	14,232	77,132	140,019	68,900	101,159	+81.5	+38.4	170,059	217,151	+27.7
From foreign countries.....long tons..	256,953	182,891	156,031	192,123	166,971	255,768	444,157	-13.1	-62.4	699,925	359,094	-48.7
Meltings, 8 ports.....long tons..	380,758	305,946	235,605	326,416	328,181	332,872	380,899	+0.5	-13.8	713,771	654,597	-8.3
Stocks at refineries, end month.....long tons..	798,870	728,484	682,429	616,247	570,970	221,334	381,067	-7.3	+49.8			
Refined:												
Shipments, 2 ports.....long tons..	60,610	37,394	45,152	60,224	42,906	50,026	63,778	-28.8	-32.7	113,804	103,130	-9.4
Stocks, 2 ports.....long tons..	39,375	43,783	46,243	32,994	32,746	23,042	37,044	-0.8	-11.6			
Exports, including maple.....long tons..	5,674	4,454	3,363	5,637	4,280	8,243	9,944	-24.1	-57.0	18,187	9,917	-45.5
Prices:												
Wholesale, 96° centrif., N. Y. dolls. per lb.	.040	.038	.038	.037	.037	.038	.037	0.0	0.0			
Wholesale, granulated, N. Y. dolls. per lb.	.054	.050	.050	.051	.049	.050	.049	-3.9	0.0			
Retail, granulated, N. Y. dolls. per lb.	.061	.061	.059	.059	.059	.061	.060	0.0	-1.7			
Retail average, 51 cities.....relative to 1913..	122	122	120	120	118	122	120	-1.7	-1.7			
Cuban movement (raw):												
Receipts at Cuban ports.....long tons..	94,130	88,875	116,101	192,153	659,637	638,996	959,318	+243.3	-31.2	1,598,314	851,790	-46.7
Exports.....long tons..	241,256	174,904	192,160	145,189	179,432	237,350	468,615	+23.6	-61.7	705,965	324,621	-54.0
Stocks, end of month.....long tons..	326,927	254,694	181,460	312,187	815,389	457,157	947,380	+161.2	-13.9			
Candy												
Sales by manufacturers.....thous. of dolls..	38,523	37,673	33,734	24,538	24,893	26,052	28,045	+1.4	-11.2	54,097	49,431	-8.6
Coffee												
Imports.....thous. of bags..	1,004	822	955	1,036	1,229	1,033	1,035	+18.6	+18.7	2,068	2,265	+9.5
Visible supply:												
World.....thous. of bags..	5,043	4,979	5,079	5,119	5,322	5,038	5,022	+4.0	+6.0			
United States.....thous. of bags..	686	598	693	671	852	732	849	+27.0	+0.4			
Receipts, total, Brazil.....thous. of bags..	1,365	1,446	1,553	1,455	1,469	1,139	1,126	+1.0	+30.5	2,265	2,924	+29.1
Clearances:												
Total, Brazil, for world.....thous. of bags..	1,324	1,214	1,199	1,470	1,427	1,176	1,165	-2.9	+22.5	2,341	2,897	+23.8
Total, Brazil, for U. S.....thous. of bags..	682	573	587	881	722	678	684	-18.0	+5.6	1,362	1,603	+17.7
Price, Rio No. 7, Brazil grades.....dolls. per lb..	.139	.116	.099	.103	.105	.183	.184	+1.9	-42.9			
Tea												
Imports.....thous. of lbs..	10,555	9,087	8,680	6,537	5,602	10,073	6,802	-14.3	-17.6	16,875	12,139	-28.1
Price, Formosa fine, New York.....dolls. per lb..	.310	.310	.304	.300	.300	.322	.330	0.0	-9.1			
Cocoa												
Shipments from the Gold and Nigerian Coasts, Africa.....long tons..	18,491	40,483	36,748	43,838	29,551	59,863	39,993	-32.6	-26.1	99,856	73,389	-26.5
Imports.....long tons..	16,147	14,270	22,824	25,176	15,082	15,753	28,236	-40.1	-46.6	43,989	40,258	-8.5
Spot price, Accra, New York.....dolls..	.1063	.0920	.0931	.0938	.0925	.1038	.1083	-1.4	-14.6			
TOBACCO												
Consumption (tax-paid withdrawals):												
Large cigars.....thousands..	701,711	622,938	410,863	418,900	426,522	427,716	437,476	+1.8	-2.5	865,192	845,422	-2.3
Small cigarettes.....thousands..	11,202,294	9,041,043	8,261,357	10,208,232	8,465,005	10,160,263	8,062,499	-17.1	+5.0	18,222,762	18,673,237	+2.5
Manufac. tobacco and snuff.....thous. of lbs..	33,738	28,342	24,682	33,014	30,308	33,160	29,083	-8.2	+4.2	62,243	63,322	+1.7
Exports:												
Unmanufactured.....thous. of lbs..	79,150	72,609	66,504	46,885	57,037	45,804	48,703	+21.7	+17.1	94,507	103,922	+10.0
Cigarettes.....thousands..	586,767	433,294	683,757	465,404	430,886	1,010,368	926,297	-7.4	-53.5	1,936,665	896,350	-53.7
Sales of loose-leaf warehouses.....thous. of lbs..	166,456	151,945	73,484	60,907	23,079	174,751	80,574	-62.1	-71.4	255,325	83,986	-67.1
TRANSPORTATION												
River and Canal Cargo Traffic												
Panama Canal:												
Total cargo traffic.....thous. of long tons..	2,846	2,535	2,525			2,859	2,550					
In American vessels.....thous. of long tons..	1,344	1,271	1,219			1,218	1,138					
In British vessels.....thous. of long tons..	774	579	718			806	816					
Sault Ste. Marie canals.....thous. of short tons..	11,213	6,952	482									
New York State canals.....thous. of short tons..	491	333										
Cape Cod Canal.....short tons..	243,668	196,259	189,811	186,172	162,509	141,496	137,634	-12.7	+18.1	279,130	348,681	+24.9
Suez Canal.....thous. of met. tons..	2,997	2,726	2,919	2,744		2,990	2,682					
Welland Canal.....short tons..	623,651	448,150	47,603									
St. Lawrence Canal.....short tons..	749,287	523,328	23,942									
Mississippi River Govt. barges.....short tons..	137,021	103,000				131,918	109,419					
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.....short tons..	1,151,819	1,034,382	757,527	578,224	709,242	478,265	525,700	+22.7	+34.9	1,003,965	1,287,466	+28.2
Allegheny River.....short tons..	366,351	317,967	156,993	93,825	61,420	88,940	80,683	-34.5	-23.9	169,623	155,245	-8.5
Monongahela River.....short tons..	2,464,099	2,367,506	2,173,207	2,134,161	2,179,305	2,287,541	1,960,686	+2.1	+11.2	4,248,227	4,313,466	+1.5

² Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	TRANSPORTATION—Continued											
Ocean Traffic												
Clearances, vessels in foreign trade:												
Total.....thous. of net tons.....	7,503	6,971	5,607	5,693	5,368	5,484	5,308	-5.7	+1.1	10,793	11,061	+2.5
American.....thous. of net tons.....	3,041	2,982	2,078	2,023	1,977	1,950	1,909	-2.3	+3.6	3,859	4,000	+3.7
Foreign.....thous. of net tons.....	4,463	3,989	3,529	3,670	3,391	3,534	3,399	-7.6	-0.2	6,933	7,061	+1.8
Shipbuilding												
Completed during month:												
Total.....gross tons.....	8,620	14,347	13,692	23,779	.....	7,413	3,323	.....	.....	.....	.....	.....
Steel seagoing.....gross tons.....	2,167	7,369	10,633	21,493	.....	3,392	1,335	.....	.....	.....	.....	.....
Building or under contract, end of month:												
Merchant vessels.....thous. of gross tons.....	400	384	372	376	.....	126	168	.....	.....	.....	.....	.....
Freight Cars												
Surplus (daily av. last week of month):												
Total.....cars.....	124,194	340,740	447,141	392,552	440,275	278,213	217,400	+12.2	+102.5	.....	.....	.....
Box.....cars.....	80,956	181,198	246,982	217,024	206,531	136,959	98,986	-4.8	+108.6	.....	.....	.....
Coal.....cars.....	17,066	114,826	144,353	123,469	180,089	92,243	72,613	+45.9	+148.0	.....	.....	.....
Shortage (daily av. last week of month):												
Total.....cars.....	436	.....	.....	9	.....	79	76	.....	.....	.....	.....	.....
Box.....cars.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coal.....cars.....	34	.....	.....	.....	.....	11	6	.....	.....	.....	.....	.....
Car loadings:												
Total.....cars.....	4,677,375	4,891,835	3,340,993	3,349,424	3,505,962	3,571,455	2,766,136	+4.7	-6.9	7,337,591	6,855,386	-6.6
Grain and grain products.....cars.....	185,681	191,975	159,676	156,665	174,980	182,094	188,659	+11.7	-7.3	370,753	331,645	-10.5
Livestock.....cars.....	149,101	156,889	101,798	108,036	102,960	117,943	105,679	-4.7	-2.6	223,622	210,996	-5.6
Coal and coke.....cars.....	877,576	1,001,992	816,589	828,272	797,867	857,973	897,593	-3.7	-11.1	1,755,566	1,626,139	-7.4
Forest products.....cars.....	254,356	275,208	181,810	181,810	217,239	216,960	240,895	+19.5	-9.8	457,855	399,049	-12.8
Ore.....cars.....	240,164	146,073	32,877	33,657	33,474	35,640	36,975	-0.5	-9.5	72,615	67,131	-7.6
Merchandise and l. c. l.....cars.....	1,086,098	1,276,286	908,085	890,152	938,429	916,161	969,937	+5.4	-3.2	1,886,098	1,828,581	-3.0
Miscellaneous.....cars.....	1,884,399	1,843,412	1,140,158	1,150,832	1,241,013	1,244,684	1,326,398	+7.8	-6.4	2,571,082	2,391,845	-7.0
Railroad Operations												
Operating revenues:												
Freight.....thous. of dolls.....	483,038	384,040	340,821	337,993	.....	367,236	362,957	.....	.....	.....	.....	.....
Passenger.....thous. of dolls.....	66,118	62,451	74,438	70,452	.....	74,997	68,247	.....	.....	.....	.....	.....
Total operating.....thous. of dolls.....	608,661	499,211	468,879	451,190	.....	487,463	475,112	.....	.....	.....	.....	.....
Operating expenses.....thous. of dolls.....	404,327	372,167	362,814	356,469	.....	369,738	349,684	.....	.....	.....	.....	.....
Net operating income.....thous. of dolls.....	152,987	86,669	72,227	55,474	.....	77,176	84,769	.....	.....	.....	.....	.....
Freight carried.....mills. ton-miles.....	47,814	38,723	36,040	36,664	.....	39,210	38,129	.....	.....	.....	.....	.....
Railway Equipment												
Locomotives (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....number.....	57,195	57,038	56,819	56,753	56,650	58,608	58,508	-0.2	-3.2	.....	.....	.....
Tractive power.....mills. of lbs.....	2,538	2,535	2,531	2,530	2,529	2,559	2,557	.....	-1.1	.....	.....	.....
In bad order, end of month—												
Quantity.....number.....	7,631	7,833	7,662	7,937	8,342	8,161	8,383	+5.1	-0.5	.....	.....	.....
Per cent of total in use.....per cent.....	13.4	13.8	13.6	14.1	14.8	14.0	14.4	+5.0	+2.8	.....	.....	.....
Installed.....number.....	166	187	158	160	115	111	114	-28.1	+0.9	225	275	+22.2
Retired.....number.....	327	343	377	227	218	236	214	-4.0	+1.9	450	445	-1.1
New orders.....number.....	125	84	167	163	16	28	68	-90.2	-76.5	96	179	+86.5
Shipment, manufacturers' (Census)—												
Total.....number.....	96	95	67	48	67	23	23	+39.6	+191.3	46	115	+150.0
Steam, domestic.....number.....	90	75	62	48	60	6	20	+25.0	+200.0	26	108	+315.4
Electric, domestic.....number.....	6	.....	1	.....	4	6	1	.....	+300.0	7	4	-42.9
Unfilled orders (railroads), end of mo.—												
From manufacturers.....number.....	248	234	336	334	343	236	253	+2.7	+35.6	.....	.....	.....
In railroad shops.....number.....	46	65	95	107	107	42	38	0.0	+181.5	.....	.....	.....
Unfilled orders, manufacturers' (Census)—												
Total.....number.....	423	398	490	587	533	278	339	-9.2	+57.2	.....	.....	.....
Steam, domestic.....number.....	347	340	435	527	479	251	301	-9.1	+59.1	.....	.....	.....
Electric, domestic.....number.....	49	49	48	50	46	21	20	-8.0	+130.0	.....	.....	.....
Exports, steam.....number.....	11	21	13	2	8	18	13	+300.0	-38.5	31	10	-67.7
Freight cars (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....thous. of cars.....	2,265	2,264	2,263	2,265	2,267	2,275	2,271	+0.1	-0.2	.....	.....	.....
Capacity.....mills. of lbs.....	209,137	209,340	209,516	209,842	210,268	209,014	208,718	+0.2	+0.7	.....	.....	.....
In bad order, end of month—												
Quantity.....cars.....	126,055	124,257	118,807	124,260	122,327	136,319	144,620	-1.6	-15.4	.....	.....	.....
Per cent of total in use.....per cent.....	5.7	5.6	5.4	5.6	5.5	6.2	6.6	+1.8	-16.7	.....	.....	.....
New orders.....cars.....	17,207	5,126	9,785	6,632	15,931	12,452	14,393	+140.2	+10.7	26,845	22,563	-16.0
Shipments—												
Total.....cars.....	7,818	6,956	7,856	8,095	9,600	1,814	1,152	+18.6	.....	2,966	17,695	+496.6
Domestic.....cars.....	7,363	6,891	7,513	7,426	9,366	525	887	+26.1	.....	1,412	16,792	.....
Unfilled orders (railroads)—												
Total.....cars.....	33,123	30,069	34,085	33,457	30,800	28,121	40,539	-7.9	-24.0	.....	.....	.....
From manufacturers.....cars.....	29,857	25,677	29,796	28,057	25,722	24,109	35,891	-8.3	28.3	.....	.....	.....
In railroad shops.....cars.....	3,266	4,392	4,289	5,400	5,078	4,012	4,648	-6.0	+9.3	.....	.....	.....
Passenger cars:												
New orders—												
Total.....cars.....	51	57	77	58	134	228	21	+131.0	.....	249	192	-22.9
Shipments—												
Total.....cars.....	69	189	116	95	78	111	90	-17.9	-13.3	201	173	-13.9
Domestic.....cars.....	69	149	116	80	78	109	90	-2.5	-13.3	199	158	-20.6

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	TRANSPORTATION—Continued											
Highways												
Concrete pavements, new contracts:												
Total.....thous. of sq. yds..	13,151	5,358	7,462	6,595	6,887	7,461	3,241	+4.4	+112.5	10,702	13,482	+26.0
Road.....thous. of sq. yds..	9,157	3,207	5,043	5,244	5,357	6,089	1,689	+2.2	+217.2	7,778	10,601	+36.3
Federal-aid highways:												
Completed—												
Cost.....thous. of dolls..	27,504	25,131	28,326	7,680	9,266	16,057	13,188	+20.7	-29.7	29,245	16,946	-42.1
Distance.....miles..	996	779	813	273	358	557	373	+31.1	-4.0	930	631	-32.2
Under construction, end of month.....miles..	8,322	7,805	7,256	7,054	6,843	7,835	7,679	-3.0	-10.9			
Passenger Travel												
National parks:												
Visitors.....number..	67,012	52,563	35,762	47,296	48,342	46,242	43,505	+2.2	+11.1	89,747	95,638	+6.6
Automobiles entered.....number..	12,415	8,574	5,675	19,335	9,926	7,473	10,835	-48.7	-8.4	18,308	29,261	+59.8
Arrivals from abroad:												
Immigrants.....number..	26,740	21,522	17,842	14,767	17,806	17,806	17,254					
United States citizens.....number..	47,757	25,129	21,177	23,985	23,985	23,450	33,216					
Departures abroad:												
Emigrants.....number..	4,907	3,053	4,880	3,947	3,947	4,670	4,154					
United States citizens.....number..	39,767	20,413	27,404	31,991	31,991	28,808	32,347					
Passports issued.....number..	8,485	8,895	7,323	8,485	9,899	9,513	8,888	+16.7	+11.4	18,401	18,384	-0.1
Pullman Company operations:												
Revenue.....thous. of dolls..	6,800	5,722	6,507	7,143	7,143	7,033	6,417					
Passengers carried.....thousands..	2,721	2,437	2,731	2,760	2,760	2,836	2,555					
Trend of business in hotels:												
Room occupancy.....per ct. of capacity..	75	73	67	73	70	73	72	-4.1	-2.8			
Average sale per occupied room.....dollars..	4.11	4.17	3.92	4.04	4.05	4.12	4.13	+0.2	-1.9			
Warehouses												
Public merchandise warehouses, space occupied.....per ct. of total..	76.4	77.1	75.9	74.8	74.8	67.7	68.3					
PUBLIC UTILITIES												
Telephone companies:												
Operating revenues.....thous. of dolls..	79,653	77,604	78,675	77,845	77,845	74,788	71,034					
Operating income.....thous. of dolls..	20,047	18,302	18,271	18,012	18,012	19,821	17,716					
Telegraph companies:												
Commercial telegraph tolls.....thous. of dolls..	12,485	10,540	11,298	11,298	11,298	11,180	10,265					
Operating revenues.....thous. of dolls..	15,947	13,633	14,572	14,572	14,572	14,133	13,060					
Operating income.....thous. of dolls..	2,029	2,260	2,304	2,304	2,304	1,668	1,396					
Gas and electric companies:												
Gross earnings.....thous. of dolls..	197,500	202,500	211,500	211,000	211,000	203,000	194,000					
Net earnings.....thous. of dolls..	83,000	92,000	100,000	100,000	100,000	92,000	86,000					
Electric railways (212 companies):												
Passengers carried.....thous. of persons..	774,466	748,624	795,643	781,927	705,454	799,843	741,023	-9.8	-4.8	1,540,866	1,487,381	-3.5
Average fare.....cents..	8.272	8.272	8.272	8.288	8.288	8.194	8.198					
ELECTRIC POWER												
Electric power production:												
Total.....mills. of kw.-hours..	8,708	8,243	8,510	8,647	8,647	8,241	7,429					
By water power.....mills. of kw.-hours..	2,730	2,643	2,748	2,900	2,900	2,698	2,442					
By fuels.....mills. of kw.-hours..	5,978	5,600	5,762	5,747	5,747	5,543	4,987					
In street railways, manfg. plants, etc.....mills. of kw.-hours..	389	360	402	412	412	437	383					
In central stations.....mills. of kw.-hours..	8,319	7,883	8,108	8,235	8,235	7,804	7,046					
Electric power production (Canada):												
Total.....mills. of kw.-hours..	1,594	1,595	1,535	1,545	1,545	1,508	1,346					
By water power.....mills. of kw.-hours..	1,559	1,559	1,497	1,505	1,505	1,479	1,315					
Exported.....mills. of kw.-hours..	126	124	102	113	113	114	111					
Electric power, gross revenue.....thous. of dolls..												
Consumption of electrical energy:												
By geographic divisions—												
United States.....rel. to 1923-25..	134.6	122.9	116.4	121.8	123.5	132.5	140.4	+1.4	-12.0			
New England.....rel. to 1923-25..	126.2	118.1	107.0	120.5	113.3	127.6	132.8	-6.0	-14.7			
North Central.....rel. to 1923-25..	136.9	122.2	109.0	128.0	136.8	138.8	149.5	+6.9	-8.5			
Middle Atlantic.....rel. to 1923-25..	133.0	124.3	120.5	125.8	126.0	125.7	130.7	+0.2	-3.6			
Southern.....rel. to 1923-25..	131.2	122.8	130.4	110.0	118.3	120.5	137.7	+7.5	-14.1			
Western.....rel. to 1923-25..	133.8	142.6	126.0	115.2	127.5	131.9	140.8	+10.7	-9.4			
By industry—												
All industry.....rel. to 1923-25..	134.6	122.9	116.4	121.8	123.5	132.5	140.4	+1.4	-12.0			
Chemical and allied products.....rel. to 1923-25..	145.0	147.3	148.0	136.7	139.6	129.2	138.7	+2.1	+0.6			
Food and kindred products.....rel. to 1923-25..	131.7	127.9	121.1	132.3	129.2	128.0	127.5	-2.3	+1.3			
Rolling mills and steel plants.....rel. to 1923-25..	144.8	123.2	120.5	143.1	143.0	153.5	163.3	-0.1	-12.4			
Metal working plants.....rel. to 1923-25..	145.0	128.7	127.2	126.7	130.5	135.8	153.7	+3.0	-15.1			
Metal groups.....rel. to 1923-24..	145.1	126.7	124.9	132.9	135.0	142.6	157.3	+1.6	-14.2			
Leather and its products.....rel. to 1923-25..	93.0	97.6	89.0	92.3	86.5	94.3	102.1	-6.3	-15.3			
Lumber and its products.....rel. to 1923-25..	109.8	111.8	92.8	87.5	94.7	107.4	107.6	+8.2	-12.0			
Paper and pulp.....rel. to 1923-25..	141.0	133.7	132.1	120.8	138.0	126.2	125.2	+14.2	+10.2			
Rubber and its products.....rel. to 1923-25..	135.1	113.1	108.4	144.4	185.4	148.2	154.7	+28.4	+19.8			
Shipbuilding.....rel. to 1923-25..	134.4	114.0	120.4	124.4	125.4	108.2	95.5	+0.8	+31.3			
Stone, clay, and glass.....rel. to 1923-25..	159.2	146.2	146.2	124.2	116.7	137.4	148.7	-6.0	-21.5			
Textiles.....rel. to 1923-25..	129.8	115.5	109.8	112.4	103.3	129.4	133.0	-8.1	-22.4			
Automobiles, including repair parts.....rel. to 1923-25..	122.4	88.4	79.4	99.8	116.6	149.4	161.5	+16.8	-27.8			

2 Revised.

TREND OF BUSINESS MOVEMENTS—Continued

	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or de-crease (-) cumulative] 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
EMPLOYMENT AND WAGES												
Employment in factories:												
New York State.....rel. to 1923..	89.7	87.6	84.2	82.3	81.9	84.8	87.1	-0.5	-6.0			
New Jersey.....rel. to 1923..	103	100	95	93	94	97	98	+1.1	-4.1			
Pennsylvania.....rel. to 1923..	87	93	91	90	90	81	84	0.0	+7.1			
Delaware.....rel. to 1923..	83	84	84	81	81	75	77	0.0	+5.2			
Maryland.....rel. to 1924..	93.1	90.9	89.2	86.2	87.2	85.7	88.9	+1.2	-1.9			
Iowa.....rel. to 1923..	133.6	130.0	126.8	122.9	125.2	121.8	124.4	+1.9	+0.6			
Illinois.....rel. to 1925-27..	103.8	102.7	99.3	97.8	98.0	98.2	100.3	+0.2	-2.3			
Wisconsin.....rel. to 1923..	98.1	94.7	90.1	90.0	90.0	94.2	97.2					
Ohio.....rel. to 1923..	113	107	102	101	101	108	112					
Cleveland.....rel. to Jan., 1921..	119.2	108.8	106.2	109.1	109.1	117.9	123.6					
Milwaukee.....number..	40,599	39,591	39,016	39,823	39,823	40,707	42,143					
New York State.....number..	496,578	485,018	465,915	455,480	453,284	469,125	482,252	-0.5	-6.0			
Oklahoma.....number..	38,620	37,510	34,093	33,081	33,081	32,618	32,207					
Total pay roll:												
New York State (weekly).....thous. of dolls..	14,938	14,328	13,860	13,524	13,304	13,938	14,465	-1.6	-8.0			
Oklahoma (weekly).....thous. of dolls..	1,054	1,032	934	900	900	884	881					
Wisconsin.....rel. to 1923..	106.0	100.4	89.7	87.7	87.7	96.1	110.0					
New York State.....rel. to 1923..	99.1	95.0	91.9	89.7	88.3	92.5	96.0	-1.6	-8.0			
New Jersey.....rel. to 1923..	118	112	107	105	106	108	111	+1.0	-4.5			
Pennsylvania.....rel. to 1923..	93	90	86	85	86	82	90	+1.2	-4.4			
Delaware.....rel. to 1923..	90	90	90	86	86	79	83	0.0	+3.6			
Illinois.....rel. to 1925-27..	105.8	101.3	96.3	91.2	94.0	94.7	100.7	+3.1	-6.7			
Employment,												
Canada.....rel. to calendar year 1926..	125.6	124.6	119.1	111.2	111.6	109.1	110.5	+0.4	+1.0			
Ohio construction.....rel. to 1923..	136.9	125.1	112.0	90.4	90.4	89.3	88.1					
Employment, trade-unions:												
United States.....per cent of total..	89.0	88.0	84.0	80.0	78.0	85.0	85.0	-2.5	-8.2			
Canada.....per cent of total..	94.0	90.7	88.6	89.2	89.2	93.7	93.2					
Anthracite mines:												
Employment.....rel. to 1923-25..	109.8	107.6	110.8	105.6	107.8	109.8	109.4	+2.1	-1.5			
Pay roll.....rel. to 1923-25..	116.6	87.6	110.3	92.1	103.7	112.6	107.0	+12.6	-3.1			
Federal civilian employees,												
Washington, D. C., end month.....number..	63,713	63,877	63,946	64,356	64,662	62,257	62,388	+0.5	+3.6			
Average weekly earnings, factories:												
Illinois.....dollars..	29.17	28.52	28.12	28.30	29.24	28.72	28.42	+3.3	+2.9			
New York State.....dollars..	30.08	29.54	29.75	29.70	29.36	29.71	29.99	-1.1	-2.1			
Wisconsin.....dollars..	26.70	26.13	24.18	24.10	24.45	24.45	27.15					
Oklahoma.....dollars..	27.28	27.51	27.38	27.21	27.21	27.09	27.36					
New York.....rel. to 1923..	110.4	108.4	109.2	109.0	107.8	109.1	110.1	-1.1	-2.1			
New Jersey.....rel. to 1923..	115	113	113	114	114	112	114	0.0	0.0			
Pennsylvania.....rel. to 1923..	107	105	102	102	104	102	103	+2.0	-3.7			
Delaware.....rel. to 1923..	107	106	107	105	105	104	106	0.0	-0.9			
Illinois.....rel. to 1925-27..	102.8	100.5	99.1	99.7	103.1	98.0	102.4	+3.4	+0.7			
Wisconsin.....rel. to 1923..	108.1	105.8	98.2	95.9	95.9	102.0	113.3					
Average weekly earnings (National Industrial Conference Board):												
Grand total (both sexes).....dollars..	28.80	27.72	27.53	27.51	27.90	28.08	28.53	+1.4	-2.2			
Total male.....dollars..	31.60	29.37	29.83	29.53	29.75	30.51	31.63	+0.7	-5.9			
Skilled male.....dollars..	33.14	30.81	31.25	30.87	31.08	31.97	33.08	+0.7	-6.0			
Unskilled male.....dollars..	25.64	23.86	24.35	24.31	24.59	25.13	26.12	+1.2	-5.9			
Total women.....dollars..	17.84	17.03	17.36	17.02	17.09	17.16	17.82	+0.4	-4.1			
Average weekly hours:												
Nominal (both sexes).....hours..	49.4	49.3	49.2	49.2	49.3	49.7	49.7	+0.2	-0.8			
Actual (both sexes).....hours..	49.4	46.9	47.4	46.4	46.7	48.5	49.5	+0.6	-5.7			
Wages, road labor, by districts:												
New England.....cents per hour..	51	49	51	52	51	52	49	-1.9	+4.1			
Middle Atlantic.....cents per hour..	42	42	45	47	44	45	49	-6.4	-10.2			
South Atlantic.....cents per hour..	27	24	27	25	25	23	22	0.0	+13.6			
East South Central.....cents per hour..	26	26	25	25	25	26	27	0.0	-7.4			
West South Central.....cents per hour..	30	30	31	31	29	31	30	-6.5	-3.3			
East North Central.....cents per hour..	38	39	39	40	40	45	46	0.0	-13.0			
West North Central.....cents per hour..	37	37	38	40	39	38	42	-2.5	-7.1			
Mountain.....cents per hour..	48	48	50	46	46	44	42	0.0	+9.5			
Pacific.....cents per hour..	53	52	53	53	53	52	52	0.0	+1.9			
United States, average.....cents per hour..	40	40	40	40	39	36	37	-2.5	+5.4			
Wage rates, U. S. Steel Corp.....cents per hour..	50	50	50	50	50	50	50	0.0	0.0			
Wages, steel sheet workers.....per cent of base..	127.0	127.0	127.0	127.0	127.0	125.5	125.5	0.0	+1.2			
Applicants per 100 jobs, employment agencies:												
United States.....number..	127	153	166	201	201	156	153	0.0	+31.4			
Eastern States.....number..	132	153	187	231	213	154	152	-7.8	+40.1			
Central States.....number..	148	177	181	231	225	164	164	-2.6	+37.2			
Southern States.....number..	164	205	222	250	271	283	267	+8.4	+1.5			
Western States.....number..	71	75	77	101	91	80	81	-9.9	+12.3			
Illinois.....number..	147	181	177	257	246	182	169	-4.3	+45.6			
Wisconsin.....number..	128	160	163	196	196	138	142					
Canada.....number..	143	164	154	160	160	168	158					
Factory Labor Turnover												
(Percentage of number on pay roll)												
Departures:												
Total.....per cent (annual basis).....	42.6	38.4	29.3	28.1	33.0	36.2	41.7	+17.4	-20.9			
Voluntary quits.....per cent (annual basis).....	28.5	19.4	12.7	13.1	16.0	26.7	31.0	+22.1	-48.4			
Lay offs.....per cent (annual basis).....	9.4	15.3	14.2	12.2	13.8	4.2	4.7	+13.1	+193.6			
Discharges.....per cent (annual basis).....	4.7	3.7	2.4	2.8	3.2	5.3	6.0	+14.3	-46.7			
Accessions.....per cent (annual basis).....	46.0	23.7	14.6	23.7	26.9	58.6	56.9	+13.5	-52.7			
Industrial disputes:												
Disputes.....number..	42	39	34	37	34	34	34					
Workers involved.....number..	8,326	7,320	3,825	7,504	39,484	39,484	40,385					
Man-days lost in month.....number..	290,324	225,482	129,484	284,217	949,692	949,692	921,583					

2 Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per cent. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
DISTRIBUTION MOVEMENT												
Retail Sales												
Mail-order houses:												
Total sales, 2 houses.....thous. of dolls.	79,256	73,697	90,019	45,151	46,031	47,400	46,396	+1.9	-0.8	93,796	91,182	-2.8
Sears, Roebuck & Co.....thous. of dolls.	47,075	43,846	54,220	26,820	27,625	29,271	27,741	+3.0	-0.4	57,012	54,445	-4.5
Montgomery Ward & Co.....thous. of dolls.	32,181	29,851	35,799	18,331	18,406	18,129	18,655	+0.4	-1.3	36,784	36,737	-0.1
Ten-cent chain stores:												
Total sales (4 chains).....thous. of dolls.	51,061	49,879	87,948	34,657	37,523	33,513	36,351	+8.3	+3.2	69,864	72,180	+3.3
Total stores operated (4 chains).....number	2,834	2,856	2,870	2,880	2,892	2,659	2,681	+0.4	+7.9			
F. W. Woolworth & Co.....thous. of dolls.	27,673	26,160	44,153	18,408	20,030	17,660	19,375	+8.8	+3.4	37,035	38,438	+3.8
Stores operated.....number	1,823	1,828	1,828	1,829	1,835	1,728	1,742	+0.3	+5.3			
S. S. Kresge Co.....thous. of dolls.	13,761	14,021	24,242	9,352	9,944	9,019	9,774	+6.3	+1.7	18,793	19,296	+2.7
Stores operated.....number	568	584	597	604	611	509	515	+1.2	+18.6			
McCrorry Stores Corp.....thous. of dolls.	3,798	3,854	7,293	2,695	2,907	2,691	2,844	+7.9	+2.2	5,535	5,602	+1.2
Stores operated.....number	243	243	242	243	241	229	231	-0.8	+4.3			
S. H. Kress & Co.....thous. of dolls.	5,824	5,844	12,260	4,202	4,642	4,143	4,358	+10.5	+6.5	8,501	8,844	+4.0
Stores operated.....number	200	201	203	204	205	193	193	+0.5	+6.2			
Metropolitan.....thous. of dolls.	1,663	1,819	3,432	971	995	799	882	+2.5	+12.8	1,681	1,966	+17.0
Stores operated.....number	141	151	151	150	105	109	109	0.0	-3.7			
W. T. Grant Co.....thous. of dolls.	6,164	6,504	11,536	3,784	3,911	3,329	3,516	+3.4	+11.2	6,845	7,695	+12.4
Stores operated.....number	263	273	279	279	280	218	221	+0.4	+26.7			
F. & W. Grand.....thous. of dolls.	2,016	2,067	3,601	1,296	1,326	1,096	1,175	+2.3	+12.9	2,271	2,622	+15.5
Stores operated.....number	91	94	94	94	94	83	83	0.0	+13.3			
Other chain stores:												
Isaac Silver & Bros.....thous. of dolls.	919	833	1,527	457	534	365	441	+16.8	+21.1	806	991	+23.0
Stores operated.....number	45	45	45	45	44	31	32	-2.2	+37.5			
J. C. Penny Co.....thous. of dolls.	23,301	24,420	29,589	10,611	11,197	9,016	9,378	+5.5	+19.4	18,394	21,808	+18.6
Stores operated.....number	1,373	1,389	1,395	1,395	1,396	1,023	1,026	+0.1	+36.1			
G. C. Murphy Co.....thous. of dolls.	1,403	1,464	2,649	939	989	814	910	+5.3	+8.7	1,724	1,928	+11.8
Stores operated.....number	150	152	153	154	154	140	139	0.0	+10.8			
Restaurant chains:												
Total sales (3 chains).....thous. of dolls.	5,256	4,980	5,176	4,989	4,582	4,707	4,470	-8.2	+2.5	9,177	9,571	+4.3
Stores operated.....number	373	376	375	374	373	375	373	-0.3	0.0			
Childs Co., sales.....thous. of dolls.	2,412	2,299	2,407	2,307	2,148	2,184	2,144	-6.9	+0.2	4,328	4,455	+2.9
Stores operated.....number	109	111	111	111	110	113	112	-0.9	-1.8			
J. R. Thompson Co., sales.....thous. of dolls.	1,367	1,284	1,320	1,300	1,177	1,224	1,147	-9.5	+2.6	2,371	2,477	+4.5
Stores operated.....number	121	122	121	121	121	124	125	0.0	-3.2			
Waldorf System (Inc.), sales.....thous. of dolls.	1,477	1,397	1,449	1,382	1,257	1,299	1,228	-9.0	+2.4	2,527	2,639	+4.4
Stores operated.....number	143	143	143	142	142	138	136	0.0	+4.4			
Installment sales in New England dept. stores, ratio to total sales.....per cent.	8.8	8.5	5.4	16.2		10.4	10.2					
Advertising												
Magazine advertising.....thous. of lines												
Magazine advertising, total cost.....thous. of dolls.	3,046	3,074	2,882	1,999	2,382	2,101	2,459	+19.2	-3.1			
Newspaper advertising.....thous. of lines	20,319	20,070	18,420	12,411	16,808	12,689	16,316	+35.4	+3.0	29,005	29,219	+0.7
Radio broadcast.....thous. of lines	118,616	112,958	100,202	88,873	81,702	97,162	89,698	-8.1	-8.9	186,860	170,575	-8.7
National advertising in newspapers:*												
Cost of facilities.....thous. of dolls.	1,948	1,908	1,969	1,989	1,873	1,258	1,372	-5.8	+36.5	2,630	3,862	+46.8
Total.....thous. of lines	64,037	52,879	36,724	47,887	44,996	52,270	50,308	-6.0	-10.6	102,578	92,883	-9.5
Passenger cars.....thous. of lines	7,396	4,098	2,664	8,000	6,497	11,010	8,166	-18.8	-20.4	19,176	14,497	-24.4
Tires, trucks, and accessories.....thous. of lines	5,719	5,996	4,279	3,449	3,983	3,927	3,842	+18.9	+3.7	7,769	7,332	-5.6
Financial.....thous. of lines	8,812	6,578	6,943	9,128	5,221	9,625	6,692	-42.8	-22.0	16,317	14,349	-12.1
Building materials.....thous. of lines	769	338	109	129	182	246	330	+41.1	-44.8	576	311	-46.0
Electrical appliances, supplies.....thous. of lines	1,354	1,062	935	664	615	470	850	-7.4	-27.6	1,320	1,279	-3.1
Foods and beverages.....thous. of lines	7,713	6,848	3,452	5,555	6,766	3,955	5,631	+26.3	+20.2	9,586	12,121	+26.4
Heating and plumbing equipment.....thous. of lines	817	513	344	395	275	402	495	-30.4	-44.4	897	670	-25.3
Medical.....thous. of lines	5,595	5,967	3,072	6,456	6,206	8,117	6,841	-3.9	-9.3	14,958	12,662	-15.3
Radio.....thous. of lines	7,109	5,734	4,021	1,603	1,700	2,148	2,547	+6.1	-33.3	4,695	3,303	-29.6
Tobacco.....thous. of lines	4,617	4,112	1,515	3,177	3,345	2,703	4,049	+5.3	-17.4	6,752	6,522	-3.4
Toilet requisites.....thous. of lines	3,807	2,267	1,177	2,432	3,163	2,742	3,765	+30.1	-16.0	6,507	5,595	-14.0
Transportation.....thous. of lines	2,530	2,802	2,747	2,461	2,175	2,324	2,010	-11.6	+8.2	4,334	4,636	+7.0
All other.....thous. of lines	7,800	6,565	5,466	4,738	4,866	4,601	5,089	+2.7	-4.4	9,690	9,604	-0.9
Postal Business												
Postal receipts:												
50 selected cities.....thous. of dolls.	35,743	32,723	40,785	32,199	29,457	31,615	29,993	-8.5	-1.8	61,608	61,656	+0.1
50 industrial cities.....thous. of dolls.	3,737	3,364	4,565	3,561	3,473	3,466	3,326	-2.5	+4.4	6,792	7,034	+3.6
Money orders:												
Domestic issued (50 cities)—												
Quantity.....thousands	3,843	3,745	4,096	3,805	3,597	3,626	3,480	-5.5	+3.4	7,106	7,402	+4.2
Value.....thous. of dolls.	39,963	39,085	40,876	38,356	35,617	36,025	34,621	-7.1	+2.9	70,646	73,973	+4.7
Domestic paid (50 cities)—												
Quantity.....thousands	12,690	11,829	12,850	11,266	10,165	10,967	10,377	-9.8	-2.0	21,344	21,431	+0.4
Value.....thous. of dolls.	107,699	97,825	101,453	86,593	78,066	83,154	77,387	-9.8	+0.9	160,541	164,659	+2.6
Air mail, weight dispatched.....pounds	705,772	624,750	618,991	518,398	555,176	488,709	433,941	+7.1	+27.9	922,650	1,073,574	+16.4
BANKING AND FINANCE												
Check payments:												
New York City.....mills. of dolls.	63,825	53,604	39,850	34,732	31,117	54,719	46,289	-10.4	-32.8	101,008	65,849	-34.8
Outside of New York City.....mills. of dolls.	32,261	28,519	26,932	25,723	21,534	28,126	24,515	-16.3	-12.2	52,641	47,267	-10.2
Canada.....mills. of dolls.	2,461	2,260	1,858	1,674	1,446	2,124	1,723	-13.6	-16.1	3,847	3,120	-18.9
Federal reserve banks:												
Bills discounted.....mills. of dolls.	991	912	632	407	343	821	952	-15.7	-64.0			
Notes in circulation.....mills. of dolls.	1,880	1,930	1,910	1,702	1,637	1,645	1,654	-3.8	-1.0			
Total investments.....mills. of dolls.	658	602	915	747	796	646	511	+6.6	+55.8			

* Revised.

* See table on p. 18 of the March, 1930, issue for earlier data.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	BANKING AND FINANCE—Continued											
Federal reserve banks—Continued.												
Total reserve.....mills. of dolls.	3,177	3,135	3,011	3,188	3,187	2,835	2,844	0.0	+12.1			
Total deposits.....mills. of dolls.	2,696	2,437	2,414	2,369	2,408	2,437	2,413	+1.6	-0.2			
Reserve ratio.....per cent.	69.4	71.8	69.6	78.3	78.8	69.4	69.9	+0.6	+12.7			
Federal reserve member banks:												
Total loans and discounts.....mills. of dolls.	18,934	17,698	17,649	16,676	16,428	16,121	16,366	-1.5	+0.4			
Total investments.....mills. of dolls.	5,496	5,655	5,514	5,529	5,575	6,053	5,972	+0.8	-6.6			
Net demand deposits.....mills. of dolls.	15,110	13,890	14,118	12,949	12,944	13,395	13,308	0.0	-2.7			
Brokers' loans, end of month:												
To N. Y. Stock Ex. members—												
Total.....mills. of dolls.	6,109	4,017	3,990	3,985	4,168	6,735	6,679	+4.6	-37.6			
Ratio to market value.....per cent.	8.51	6.32	6.16	5.77	5.89	9.48	9.29	+2.1	-26.6			
By New York F. R. member banks.....mills. of dolls.												
	5,538	3,450	3,424	3,345	3,489	5,559	5,507	+4.3	-36.6			
Deposits, New York State savings banks, end of month.....mills. of dolls.												
	4,372	4,333	4,392	4,416	4,436	4,410	4,423	+0.5	+0.3			
Interest rates:												
Time loans, 90 days.....per cent.	8.00	5.38	4.88	3.88	4.75	7.75	7.63	+22.4	-37.7			
Call loans, renewal.....per cent.	6.43	5.44	4.83	4.64	4.32	7.05	7.06	-6.9	-38.8			
Prime com. paper (4-6 mos.).....per cent.	6.25	5.75	5.00	4.88	4.75	5.38	5.50	-2.7	-13.6			
Prime bankers' acceptances.....per cent.	5.13	4.19	3.88	3.94	3.81	4.88	5.13	-3.3	-25.7			
N. Y. Fed. Res. Bank (redis.).....per cent.	5.00	4.50	4.50	4.00	4.00	5.00	5.00	0.0	-20.0			
Federal land banks.....per cent.	5.51	5.79	5.79	5.79	5.72	5.05	5.06	-1.2	+13.0			
Intermediate credit banks.....per cent.	5.68	5.70	5.57	5.34	5.24	5.33	5.33	-1.9	-1.7			
Public Finance												
Government debt, gross, end of month.....mills. of dolls.												
	16,698	16,692	16,301	16,423	16,460	17,379	17,345	+0.2	-5.1			
Customs receipts.....thous. of dolls.	57,607	44,126	39,298	41,278	35,935	45,549	48,651	-12.9	-26.1	94,200	77,213	-18.0
Total ordinary receipts.....thous. of dolls.	175,998	143,889	742,942	151,195	138,540	163,889	158,794	-8.4	-12.8	322,683	289,735	-10.2
Expenditures chargeable to ordinary receipts.....thous. of dolls.	364,678	218,407	443,191	347,351	236,742	371,595	185,494	-31.8	+27.6	557,089	584,093	+4.8
U. S. money in circulation:												
Daily average.....mills. of dolls.	4,810	4,845	4,943	4,652	4,556	4,748	4,686	-2.1	-2.8			
Gold and Silver												
Gold:												
Domestic receipts at mint.....fine ounces.	121,193	113,723	82,970	75,955	72,009	68,042	55,651	-5.2	+29.4	123,693	147,964	+19.6
Rand output.....fine ounces.	888,690	861,593	851,134	882,801	818,000	876,452	815,284	-7.3	+0.3	1,691,736	1,700,801	+0.5
Monetary stock of U. S.—												
daily average.....mills. of dolls.	4,381	4,374	4,324	4,283	4,319	4,115	4,143	+0.8	+4.2			
Imports.....thous. of dolls.	21,321	7,123	8,121	12,908	60,198	48,577	26,913	+366.4	+123.7	75,490	73,106	-3.2
Exports.....thous. of dolls.	3,805	30,289	72,547	8,948	207	1,378	1,425		-85.5	2,803	9,155	+226.6
Silver:												
Production—												
United States.....thous. of fine oz.	5,130	5,795	4,592	4,753	4,713	5,023	4,776	-0.8	-1.3	9,799	9,466	-3.4
Canada.....thous. of fine oz.	2,605	1,833	1,761	1,716	1,225	1,747	1,124	-28.6	+9.0	2,871	2,941	+2.4
Stocks, end of month—												
United States.....thous. of fine oz.	1,451	1,322	529	535	977	595	642	+82.6	+52.2			
Canada.....thous. of fine oz.	489	598	827	1,244	1,144	344	684	-8.0	+67.3			
Imports.....thous. of dolls.	5,403	5,144	4,479	4,756	3,923	8,260	4,458	-17.5	-12.0	12,718	8,679	-31.8
Exports.....thous. of dolls.	7,314	8,678	6,369	5,891	5,331	8,264	6,595	-9.5	-19.2	14,859	11,223	-24.5
Price at New York.....dolls. per fine oz.	.499	.496	.485	.450	.432	.570	.562	-4.0	-23.1			
Business Failures												
Liabilities (United States):												
Total commercial.....thous. of dolls.	31,314	52,046	67,465	61,185	51,326	53,877	34,036	-16.1	+50.8	87,913	112,511	+28.0
Manufacturers.....thous. of dolls.	12,071	14,180	33,266	19,500	20,724	16,690	11,891	+6.3	+44.3	28,581	40,224	+40.7
Trade establishments.....thous. of dolls.	14,464	16,122	28,550	29,814	20,909	32,024	17,891	-29.9	+16.9	49,915	50,723	+1.6
Agents and brokers.....thous. of dolls.	4,778	21,744	5,649	11,871	9,693	5,164	4,255	-18.3	+127.8	9,419	21,664	+128.9
Liabilities (Canada).....thous. of dolls.	2,577	3,302	3,754	6,174	7,539	2,533	2,442	+22.1	+208.7	4,975	13,713	+175.6
Firms (United States):												
Total commercial.....number	1,822	1,796	2,037	2,759	2,262	2,535	1,965	-18.0	+15.1	4,500	5,021	+11.6
Manufacturers.....number	483	481	559	680	526	614	478	-22.6	+10.0	1,092	1,206	+10.4
Trade establishments.....number	1,211	1,166	1,344	1,913	1,605	1,769	1,378	-16.1	+16.5	3,147	3,518	+11.3
Agents and brokers.....number	128	149	134	166	131	152	109	-21.1	+20.2	261	297	+13.8
Firms (Canada).....number	178	184	259	265	209	214	178	-21.1	+17.4	392	474	+20.9
By groups:												
Manufacturers—												
Metals.....number	35	41	50	32	36	30	40	+12.5	-10.0	70	68	-2.9
Textiles.....number	66	70	69	106	58	75	54	-45.3	+7.4	129	164	+27.1
Lumber.....number	94	82	112	105	94	92	88	-10.5	+6.8	180	199	+10.6
Chemicals.....number	3	10	11	14	11	11	6	-21.4	+83.3	17	28	+47.1
Printing and engraving.....number	10	13	11	13	17	25	15	+30.8	+13.3	40	30	-25.0
Foodstuffs.....number	36	37	28	60	38	47	39	-36.7	-2.6	86	98	+14.0
Leather, etc.....number	17	6	18	13	24	10	10	-27.6	+30.0	34	31	-8.8
Liquors and tobacco.....number	4	7	6	3	4	9	7	+33.3	-42.9	16	7	-56.2
Stone, clay, and glass.....number	8	12	8	10	3	15	4	-70.0	-25.0	19	13	-31.6
All other.....number	210	203	246	319	252	286	215	-21.0	+17.2	501	571	+14.0
Traders—												
General stores.....number	78	67	102	136	94	116	111	-30.9	-15.3	227	230	+1.3
Foods and tobacco.....number	408	374	356	453	376	499	424	-17.0	-11.3	923	829	-10.2
Clothing.....number	191	198	244	437	369	351	246	-16.2	+48.8	597	803	+34.5
Household furniture.....number	167	177	209	380	286	374	266	-24.7	+7.5	640	666	+4.1
Chemicals and paints.....number	86	69	90	97	88	66	51	-8.3	+72.5	117	185	+58.1
Books and paper.....number	10	5	6	11	10	17	13	-9.1	-23.1	30	21	-30.0
All other.....number	271	276	307	399	385	346	267	-3.5	+44.2	613	784	+27.9

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	BANKING AND FINANCE—Continued											
Life Insurance												
<i>(Association of Life Insurance Presidents)</i>												
Policies and certificates, new (44 companies):												
Ordinary.....	289,055	281,360	311,303	254,432	267,344	220,823	238,684	+5.1	+12.0	459,507	521,776	+13.6
Industrial.....	879,483	941,358	868,763	802,585	783,235	1,051,983	801,644	-2.4	-12.2	1,943,627	1,585,820	-18.4
Group.....	49,062	39,571	120,316	43,081	34,732	57,921	26,859	-19.4	+29.3	84,780	77,813	-8.2
Total policies and certificates.....	1,217,600	1,262,289	1,300,382	1,100,098	1,085,311	1,330,727	1,157,187	-1.3	-6.2	2,487,914	2,185,409	-12.2
Amount of new insurance (44 companies):												
Ordinary.....	707,478	704,316	841,215	712,855	730,735	659,843	683,542	+2.5	+6.9	1,343,385	1,433,590	+7.5
Industrial.....	240,489	249,246	234,046	218,027	212,813	265,998	230,779	-2.4	-7.8	496,777	430,840	-13.3
Group.....	105,393	86,165	160,514	64,313	59,930	98,637	58,607	-6.8	+2.3	157,244	124,243	-21.0
Total insurance.....	1,053,360	1,039,727	1,235,775	995,195	1,003,478	1,024,478	972,928	+0.8	+3.1	1,997,406	1,998,673	+0.1
Premium collections (44 companies):												
Ordinary.....	169,724	156,465	190,844	164,920	162,944	160,867	160,630	-1.3	+1.4	321,497	327,864	+2.0
Industrial.....	51,705	57,973	97,619	58,711	55,659	53,806	51,956	-5.2	+7.1	105,762	114,370	+8.1
Group.....	8,497	10,051	10,560	9,699	8,099	8,938	17,660	-16.2	-54.1	26,598	17,768	-33.2
Annuities.....				14,112	4,185			-70.3			18,297	
Total.....	229,926	224,519	299,023	247,412	230,887	223,611	230,246	-6.7	+0.3	453,857	478,299	+5.4
Admitted life insurance assets (40 companies):												
Grand total.....	13,906	14,015	14,135	14,238	14,329	12,982	13,071	+0.6	+9.6			
Mortgage loans—												
Total.....	5,972	6,002	6,048	6,082	6,100	5,619	5,642	+0.3	+8.1			
Farm.....	1,599	1,598	1,591	1,590	1,588	1,604	1,601	-0.1	-0.8			
All other.....	4,373	4,404	4,457	4,492	4,512	4,015	4,041	+0.4	+11.7			
Bonds and stocks (book value):												
Total.....	5,234	5,237	5,264	5,310	5,344	4,912	4,951	+0.6	+7.9			
Government.....	1,063	1,040	1,053	1,058	1,062	986	979	+0.4	+7.7			
Railroad.....	2,534	2,540	2,539	2,549	2,554	2,452	2,462	+0.2	+3.7			
Public utility.....	1,295	1,311	1,319	1,348	1,367	1,219	1,231	+1.4	+11.0			
All other.....	342	346	353	355	361	262	272	+1.7	+32.7			
Policy loans and premium notes.....												
Total.....	1,738	1,807	1,842	1,874	1,897	1,554	1,569	+1.2	+20.9			
<i>(Life Insurance Sales Research Bureau)</i>												
Sales of ordinary life insurance:												
United States total.....	787,133	782,497	915,894	755,821	798,793	719,491	744,513	+5.7	+7.3	1,464,004	1,554,530	+6.2
Eastern manuf. dis.....	309,637	320,244	350,504	325,695	345,320	311,189	321,051	+6.0	+7.6	632,240	671,015	+6.1
Western manuf. dis.....	184,974	181,245	211,265	169,279	177,421	166,287	174,226	+4.8	+1.8	340,513	346,700	+1.8
Western agric. district.....	121,985	115,195	143,354	105,575	107,335	100,841	100,163	+1.7	+7.2	201,004	212,908	+5.9
Southern district.....	89,697	88,032	110,994	83,228	86,836	73,292	80,016	+4.3	+8.5	153,308	170,064	+10.9
Far western district.....	80,840	77,781	99,777	72,046	81,797	67,882	69,057	+13.5	+18.4	136,939	153,943	+12.3
Canada total, 15 companies.....	52,985	56,673	55,350	46,788	45,499	51,097	47,443	-2.8	-4.1	98,540	92,287	-6.3
Dividend and Interest Payments												
Grand total.....	737,450	514,450	690,947	1,120,014	517,054	925,075	2,439,700	-53.8	+17.6	1,364,775	1,637,068	+20.0
Interest payments.....	424,650	263,650	412,447	557,014	224,154	516,375	199,000	-59.8	+12.6	715,375	781,168	+9.2
Dividend payments:												
Total.....	312,800	250,800	278,500	563,000	292,900	408,700	2,240,700	-48.0	+21.7	649,400	855,900	+31.8
Industrial and misc.....	241,500	186,100	215,500	419,000	220,000	289,800	2,179,500	-47.5	+22.6	469,300	639,000	+36.2
Steam railroads.....	43,900	40,000	38,500	54,500	45,200	43,000	240,100	-17.1	+12.7	83,100	99,700	+20.0
Street railroads.....	15,900	12,200	14,500	17,500	9,700	16,000	9,100	-44.6	+6.6	25,100	27,200	+8.4
New Security Issues												
Foreign loans in the U. S.....	40,917	35,523	58,751	75,000	89,000	32,482	52,107	+18.7	+70.8	84,589	164,000	+93.9
Foreign governments.....	3,500		4,000	4,000	40,000	15,750	10,000	+300.0		25,750	44,000	+70.9
Total corporation.....	757,254	202,131	344,946	702,179	496,209	970,874	2,975,578	-29.3	-49.1	1,946,452	1,198,388	-38.4
Purpose of issue—												
New capital.....	724,166	186,793	261,891	629,033	468,574	828,327	2,853,184	-25.5	-45.1	1,681,511	1,097,657	-34.7
Refunding.....	33,088	15,338	83,055	73,096	27,635	142,547	122,394	-62.2	-77.4	264,941	100,731	-62.0
Type of security—												
Stocks.....	471,166	126,733	203,594	126,813	156,143	633,336	2,673,023	+23.1	-76.8	1,306,359	282,956	-78.3
Bonds and notes.....	286,088	75,398	141,352	575,366	340,066	337,538	302,555	-40.9	+12.4	640,093	915,432	+43.0
Class of industry—												
Railroads.....	57,220	65,784	133,183	60,483	118,225	61,613	11,695	+95.5		73,308	178,708	+143.8
Public utilities.....	102,356	26,509	150,779	492,000	172,445	175,084	2,253,001	-65.0	-31.8	428,085	664,445	+55.2
Industrials.....	98,202	51,400	20,897	34,595	141,395	234,405	2,165,897	+308.7	-14.8	400,302	175,990	-56.0
Oil.....	109,680	5,287	4,300	2,275	6,500	24,070	26,597	+185.7	-1.5	30,667	8,775	-71.4
Land and buildings.....	23,723	19,259	12,683	28,193	17,725	69,009	118,249	-37.1	-85.0	187,258	45,918	-75.5
Shipping and misc.....	306,075	33,893	22,504	84,634	39,119	405,693	2,394,300	-53.8	-90.1	799,993	123,753	-84.5
States and municipalities:												
Permanent loans.....	122,346	65,974	287,517	210,851	74,270	73,351	88,753	-28.5	-16.3	162,104	178,121	+9.9
Temporary loans.....	99,563	74,187	50,624	96,779	22,157	114,675	71,749	-77.1	-69.1	186,424	118,936	-36.2
Agricultural Finances												
Loans outstanding, end mo.:												
Federal farm loan banks.....	1,200,932	1,199,174	1,197,282	1,195,787	1,195,735	1,195,089	1,199,766	0.0	-0.3			
Joint-stock land banks.....	590,507	587,723	584,824	582,062	580,148	604,375	603,827	-0.3	-3.9			
Federal intermediate credit banks.....	75,373	76,780	76,091	77,129	77,802	79,462	78,532	+0.9	-0.9			
Bond sales (Canada):												
Govt. and provincial.....	2,000	14,995	33,500	3,358	8,500	6,417		+153.1		6,417	11,858	+84.8
Municipal.....	1,050	15,766	28,139	7,773	12,521	7,037		+61.1	+77.9	24,059	20,294	-15.6
Corporation.....	23,775	3,944	31,830	15,000	35,290	13,202	28,725	+135.3	+22.9	41,930	50,290	+19.9
Tax-exempt securities outstanding, end of month.....												
Total.....	18,409	18,452	19,040	19,061	19,162	17,116	17,156	+0.5	+11.7			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. increase (+) or decrease (-) cumulative 1930 from 1929
	October	November	December	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
	BANKING AND FINANCE—Continued											
Stocks and Bonds												
Stock prices, average daily closing:												
25 industrials, average.....dolls. per share.....	395.95	274.63	286.95	294.78	315.25	344.17	350.88	+6.9	-10.2			
25 railroads, average.....dolls. per share.....	142.30	123.25	126.84	126.29	131.94	132.40	131.70	+4.5	+0.2			
Southern cotton mills.....dolls. per share.....	88.61	86.99	86.73	85.63	84.90	101.04	99.76	-0.9	-14.9			
103 stocks, average.....dolls. per share.....	69.91	62.40	62.48	65.46	66.56	87.48	85.73	+1.7	-22.4			
Stock prices, average weekly closing:												
Industrials, rails, and utilities,												
(404).....rel. to 1926.....	201.7	151.1	153.8	156.3	165.5	185.2	186.5	+5.9	-11.3			
All industrials (337).....rel. to 1926.....	194.4	144.8	146.9	148.8	155.9	192.5	192.3	+4.8	-18.9			
All railroads (33).....rel. to 1926.....	157.0	135.1	136.3	136.5	142.5	141.8	141.6	+4.4	+0.0			
All utilities (34).....rel. to 1926.....	276.6	194.4	200.9	208.7	230.5	192.7	202.4	+10.4	+13.9			
Automobiles and trucks (13).....rel. to 1926.....	195.6	133.7	133.6	135.0	145.0	281.4	277.1	+7.4	-47.7			
Automobile tires and rubber goods (7).....rel. to 1926.....	147.4	103.0	99.6	95.9	103.7	195.4	188.9	+8.1	-45.1			
Airplane (10).....rel. to 1926.....	693.9	382.2	360.2	363.3	413.8	903.0	913.6	+13.9	-54.7			
Agricultural implements (4).....rel. to 1926.....	373.2	270.1	276.0	296.0	329.1	384.8	392.5	+11.2	-16.2			
Chain stores (17).....rel. to 1926.....	138.7	104.3	106.1	102.3	100.2	158.6	152.9	-2.1	-34.5			
Copper and brass (9).....rel. to 1926.....	258.7	204.0	196.0	192.8	193.3	262.0	286.2	+0.3	-32.5			
Food, other than meat (20).....rel. to 1926.....	176.2	141.4	144.1	146.0	150.6	180.9	177.4	+3.2	-15.1			
Machinery and machine equipment (10).....rel. to 1926.....	172.3	135.3	142.5	145.6	154.4	167.7	173.5	+6.0	-11.0			
Oil producing and refining (16).....rel. to 1926.....	161.4	130.6	131.9	128.8	127.5	137.4	132.6	-1.0	-3.8			
Railroad equipment (9).....rel. to 1926.....	143.6	119.5	123.7	124.1	127.9	139.2	140.2	+3.1	-8.8			
Rayon (5).....rel. to 1926.....	111.0	102.0	96.7	91.2	86.1	171.5	155.5	-5.6	-44.6			
Steel and iron (10).....rel. to 1926.....	217.1	169.1	169.9	177.1	187.8	173.8	178.9	+6.0	+5.0			
Textiles (30).....rel. to 1926.....	103.1	77.8	76.0	78.3	85.0	143.7	138.3	+8.6	-38.5			
Theaters, motion pictures, and amusements (7).....rel. to 1926.....	131.5	96.5	88.6	96.0	121.2	150.6	149.3	+26.3	-18.8			
Tobacco and tobacco products (10).....rel. to 1926.....	146.4	128.4	135.0	139.3	152.3	153.1	146.1	+9.3	+4.2			
Traction, motor transportation, etc. (9).....rel. to 1926.....	80.4	72.8	75.2	78.4	82.4	101.7	100.6	+5.1	-18.1			
Stock yields:												
Total common (90).....per cent.....	3.33	4.54	4.48	4.38	4.14	3.36	3.38	-5.5	+22.5			
Industrials (50).....per cent.....	3.61	4.89	4.83	4.75	4.53	3.34	3.40	-4.6	+33.2			
Public utilities (20).....per cent.....	2.05	3.16	3.08	2.91	2.64	2.66	2.58	-9.3	+2.3			
Railroads (20).....per cent.....	4.26	4.95	5.01	5.03	4.80	4.56	4.58	-4.6	+4.8			
Preferred high grade industrial (20).....per cent.....	5.54	5.65	5.54	5.53	5.52	5.42	5.43	-0.2	+1.7			
Stock sales, N. Y. Stock Exch. thous. of shares.....	141,668	72,455	83,802	62,308	68,723	110,804	77,969	+10.3	-11.9	188,773	131,031	-30.6
Bond sales:												
Miscellaneous.....thous. of dolls.....	337,374	275,288	262,174	201,400	195,046	235,427	174,447	-3.2	+11.8	400,874	396,446	-3.3
Liberty-Treasury.....thous. of dolls.....	15,839	15,746	15,391	7,975	8,136	13,772	9,504	+2.0	-14.4	23,276	16,111	-30.8
Total.....thous. of dolls.....	353,213	291,034	277,565	209,375	203,182	249,199	183,951	-3.0	+10.5	433,150	412,557	-4.8
Bond prices:												
Highest-grade rails.p. ct. of par. 4% bond.....	86.69	87.79	89.18	89.52	88.81	90.09	88.63	-0.8	+0.2			
Second-grade rails.p. ct. of par. 4% bond.....	79.35	80.14	82.66	82.39	82.66	81.27	80.22	+0.3	+3.0			
Public utility.....p. ct. of par. 4% bond.....	73.31	72.03	73.41	73.45	74.10	80.16	79.63	+0.9	-6.9			
Industrial.....p. ct. of par. 4% bond.....	74.88	74.18	75.26	74.49	74.59	78.89	78.20	+0.1	-4.6			
Comb. price index.p. ct. of par. 4% bond.....	78.28	78.08	79.65	79.44	79.58	82.39	81.48	+0.2	-2.3			
Bond prices, list of following month:												
5 Liberty bonds.....p. ct. of par.....	102.20	104.24	103.76	103.08	103.87	102.49	101.36	+0.8	+2.5			
16 foreign govt. and city.....p. ct. of par.....	102.74	103.89	104.31	104.60	104.52	104.52	104.07	-0.1	+0.3			
Comb. price index, 66 bonds.....p. ct. of par.....	97.75	99.11	98.50	99.02	99.22	100.08	99.47	+0.2	-0.3			
Bond yields:												
Total, 60 high grade.....per cent.....	4.73	4.70	4.64	4.64	4.65	4.60	4.65	+0.2	0.0			
Railroads (15).....per cent.....	4.66	4.57	4.50	4.51	4.53	4.50	4.56	+0.4	-0.7			
Industrials (15).....per cent.....	5.08	5.09	5.03	5.04	5.02	4.96	5.01	-0.4	+0.2			
Utilities (15).....per cent.....	4.91	4.88	4.80	4.79	4.79	4.79	4.79	0.0	0.0			
Municipal (15).....per cent.....	4.29	4.25	4.22	4.23	4.24	4.16	4.25	+0.2	-0.2			
Municipal bond yield (20).....per cent.....	4.37	4.29	4.23	4.29	4.27	4.19	4.22	-0.5	+1.2			
U. S. Treasury notes and certificates, 3-6 months.....per cent.....	4.37	3.47	3.03	3.39	3.36	4.66	3.94	-0.9	-14.7			
Liberty and Treasury bonds.....per cent.....	3.67	3.45	3.46	3.51	3.50	3.59	3.66	-0.3	-4.4			
Long-term and real-estate bonds issued:												
Grand total.....thous. of dolls.....	19,275	7,820	8,100	23,363	15,290	61,065	34,049	-34.6	-55.1	95,114	38,653	-59.4
Purpose of issue—												
Finance construction.....thous. of dolls.....	13,875	1,910	4,530	17,500	3,050	13,610	8,945	-82.6	-65.9	22,555	20,550	-8.9
Real-estate mortgage.....thous. of dolls.....	2,250	1,055	215	2,075	3,205	11,245	7,824	+54.5	-59.0	19,069	5,280	-72.3
Acquisitions and improvements.....thous. of dolls.....	200	4,380	300	750	200	26,200	2,870	-73.3	-93.0	29,070	950	-96.7
Kind of structure—												
Office and commercial.....thous. of dolls.....	2,050	115	1,530	17,225	8,800	12,535	6,700	-48.9	+31.3	19,235	26,025	+35.3
Hotels.....thous. of dolls.....	11,600	4,010	690	690	690	2,275	2,275	0.0	0.0	2,275	690	-69.7
Apartments.....thous. of dolls.....	225	1,040	3,090	235	235	2,925	2,160	0.0	0.0	5,085	235	-95.4
FOREIGN EXCHANGE RATES												
Europe:												
England.....dolls. per £ sterling.....	4.87	4.88	4.88	4.87	4.86	4.85	4.85	-0.2	+0.2			
France.....dolls. per franc.....	.039	.039	.039	.039	.039	.039	.039	0.0	0.0			
Italy.....dolls. per lira.....	.052	.052	.052	.052	.052	.052	.052	0.0	0.0			
Belgium.....dolls. per franc.....	.140	.140	.140	.139	.139	.139	.139	0.0	0.0			
Netherlands.....dolls. per guilder.....	.403	.404	.404	.402	.401	.401	.401	-0.2	0.0			
Sweden.....dolls. per krone.....	.268	.269	.270	.268	.268	.267	.267	-0.4	+0.4			
Switzerland.....dolls. per franc.....	.193	.194	.194	.194	.193	.192	.192	-0.5	+0.5			
Asia:												
Japan.....dolls. per yen.....	.478	.487	.490	.491	.491	.455	.452	0.0	+8.6			
India.....dolls. per rupee.....	.362	.363	.364	.363	.362	.365	.364	-0.3	-0.5			
America:												
Canada.....dolls. per Canadian doll.....	.983	.984	.991	.989	.992	.998	.996	+0.3	-0.4			
Argentina.....dolls. per gold peso.....	.950	.939	.930	.913	.865	.958	.958	-5.3	-9.7			
Brazil.....dolls. per milreis.....	.119	.118	.113	.111	.112	.119	.119	+0.9	-5.9			
Chile.....dolls. per paper peso.....	.121	.121	.121	.121	.120	.121	.121	-0.8	-0.8			

TREND OF BUSINESS MOVEMENTS—Continued

	1929			1930		1929		PER CENT INCREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH FEB. 28		Per ct. in-crease (+) or de-crease (-) cumu-lative 1930 from 1929
	October	Novem-ber	Decem-ber	January	February	January	February	Feb., 1930, from Jan., 1930	Feb., 1930, from Feb., 1929	1929	1930	
<i>The cumulatives shown are through February. Earlier data for items shown here may be found on pages 27 to 133 of the February, 1930, "Survey"</i>												
U. S. FOREIGN TRADE												
Imports												
Grand total.....thous. of dolls..	391,063	338,472	309,809	310,968	281,790	368,897	369,442	-9.4	-23.7	738,339	592,759	-19.7
By grand divisions:												
Europe—												
Total.....thous. of dolls..	138,934	106,816	86,562	88,783	77,770	107,106	104,350					
France.....thous. of dolls..	20,128	13,524	11,081	10,831	17,607	13,691	13,799					
Germany.....thous. of dolls..	26,232	19,917	15,164	17,607	7,770	19,374	21,473					
Italy.....thous. of dolls..	13,733	12,135	9,030	7,770	9,030	9,022	8,272					
United Kingdom.....thous. of dolls..	35,050	24,081	18,131	18,163	18,163	27,527	25,501					
North America—												
Total.....thous. of dolls..	81,684	73,254	66,393	68,784	37,394	82,284	79,923					
Canada.....thous. of dolls..	46,073	42,456	37,637	37,394	37,394	42,053	36,981					
South America—												
Total.....thous. of dolls..	56,186	46,432	49,099	44,035	44,035	57,889	60,171					
Argentina.....thous. of dolls..	11,617	11,236	9,507	6,572	6,572	9,422	10,601					
Asia and Oceania—												
Total.....thous. of dolls..	109,074	102,846	101,296	97,712	39,240	113,330	115,305					
Japan.....thous. of dolls..	43,375	39,240	39,413	31,106	31,106	38,424	32,158					
Africa, total.....thous. of dolls..	5,146	9,206	7,223	11,653	11,653	8,287	9,693					
By economic classes:												
Crude materials.....thous. of dolls..	126,532	121,448	115,631	109,076	98,644	142,251	137,792	-9.6	-28.4	280,043	207,720	-25.8
Foodstuffs, crude, and food animals.....thous. of dolls..	47,210	40,590	41,249	39,375	39,394	47,681	50,184	0.0	-21.5	97,865	78,769	-19.5
Manufactured foodstuffs.....thous. of dolls..	35,085	28,669	24,389	23,933	20,415	28,773	36,763	-14.7	-44.5	65,536	44,348	-32.3
Semimanufactures.....thous. of dolls..	82,259	66,150	57,826	67,971	59,053	70,981	69,480	-13.1	-15.0	140,461	127,025	-9.6
Finished manufactures.....thous. of dolls..	99,976	81,615	70,713	70,613	64,284	79,211	75,222	-9.0	-14.5	154,433	134,897	-12.7
Exports												
Grand total, including reexports.....thous. of dolls..	528,578	442,311	426,596	411,314	351,000	488,023	441,751	-14.7	-20.5	929,774	762,314	-18.0
By grand division:												
Europe—												
Total.....thous. of dolls..	263,351	222,733	211,846	207,209	207,209	235,732	200,043					
France.....thous. of dolls..	33,631	26,797	25,838	25,216	25,216	26,268	24,408					
Germany.....thous. of dolls..	57,552	41,458	41,038	31,391	31,391	41,159	34,339					
Italy.....thous. of dolls..	16,348	14,096	14,506	11,390	11,390	15,995	12,712					
United Kingdom.....thous. of dolls..	95,129	84,782	77,917	79,351	79,351	90,696	69,303					
North America—												
Total.....thous. of dolls..	127,224	103,601	93,959	88,911	88,911	110,186	107,398					
Canada.....thous. of dolls..	83,946	68,002	57,003	54,162	54,162	70,927	70,762					
South America—												
Total.....thous. of dolls..	44,049	36,437	38,618	37,481	37,481	51,949	53,075					
Argentina.....thous. of dolls..	17,153	13,515	15,681	13,919	13,919	19,370	19,394					
Asia and Oceania—												
Total.....thous. of dolls..	81,979	70,218	72,540	67,357	67,357	80,364	70,220					
Japan.....thous. of dolls..	31,362	28,097	27,442	23,997	23,997	26,114	22,472					
Africa, total.....thous. of dolls..	11,975	9,322	9,633	10,357	10,357	9,792	11,015					
By economic classes:												
Total domestic exports only.....thous. of dolls..	522,378	435,480	420,578	404,869	343,071	480,384	434,529	-15.3	-21.0	914,913	747,940	-18.3
Crude materials.....thous. of dolls..	174,270	144,771	125,995	104,094	67,886	120,619	92,323	-34.8	-26.5	212,942	171,979	-19.2
Foodstuffs, crude and food animals.....thous. of dolls..	24,110	22,557	17,363	17,711	13,253	29,666	24,082	-25.2	-45.0	53,748	30,964	-42.4
Manufactured foodstuffs.....thous. of dolls..	47,737	43,727	41,363	39,842	33,553	47,536	39,628	-15.8	-15.3	87,164	73,395	-15.8
Semimanufactures.....thous. of dolls..	64,558	51,837	54,443	50,795	45,306	67,704	60,961	-10.8	-25.7	128,665	96,100	-25.3
Finished manufactures.....thous. of dolls..	211,702	172,589	181,414	192,427	183,073	214,859	217,537	-4.9	-15.8	432,396	375,501	-13.2
Agricultural exports (quantities):												
All commodities.....rel. to 1910-1914..	166	150	130	113	79	133	107	-30.1	-26.2			
All commodities except cotton.....rel. to 1910-1914..	147	147	129	123	105	155	134	-14.6	-21.6			
CANADIAN FOREIGN TRADE												
Total trade:												
Imports.....thous. of dolls..	116,261	108,733	84,365	84,910	80,922	96,959	97,042	-4.7	-16.6	194,001	165,832	-14.5
Exports.....thous. of dolls..	121,437	113,746	90,477	75,369	68,150	97,296	83,812	-9.6	-18.7	181,108	143,519	-20.8

PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

OFFICE OF THE SECRETARY

Air Commerce Bulletin, Feb. 15, 1930. 24 pages, 1 chart. This bulletin is issued semi-monthly by Aeronautics Branch of Department of Commerce and contains short articles on aviation developments and a list of air transport routes.

Same, March 1, 1930. 20 pages.

Radio Service Bulletin, Feb., 1930. 30 pages. Issued monthly by Radio Division of Department of Commerce. Contains list of radio stations and references to current radio literature. Single copies, 5¢; annual subscription, 25¢.

BUREAU OF THE CENSUS

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

Census of Electrical Industries, 1927: Telegraphs.—This report shows a comparison of commercial land and ocean-cable telegraph systems, and presents statistics on commercial and railway land telegraph systems, commercial cable systems, Government telegraph and cable lines, and commercial wireless systems. Paper, 29 pages, price 5¢.

The Clay-Products Industries and Sand-Lime Brick, 1928.—This report is one of an annual series compiled in cooperation with California State Mining Bureau and the geological surveys of a number of States. Data are presented concerning clay products (other than pottery) and nonclay refractories, as well as pottery and sand-lime brick, with comparative data for earlier years. Paper, 25 pages, price 5¢.

Lumber, Lath, and Shingles, 1928.—This report is one of the Forest Products annual series compiled in cooperation with Forest Service of Department of Agriculture. Statistics as to lumber cut, number of mills, and production of lath and shingles by kind of wood are presented. Paper, 23 pages, price 5¢.

BUREAU OF FOREIGN AND DOMESTIC COMMERCE

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

Monthly Summary of Foreign Commerce of United States, Jan., 1930.—Parts I and II. Part I contains statistics of exports of domestic merchandise, and imports by articles for January, 1929 and 1930, and for six months ended December, 1929 and 1930. Part II contains summaries of export and import trade; monthly average import and export prices; and statistics of trade with Alaska, Hawaii, and Porto Rico. Single copies, Part I, 10¢; Part II, 5¢. Annual subscription, \$1.25.

Glossary of Electrical Terms and Instructions to Exporters for Guidance in Properly Labeling and Classifying Electrical Apparatus and Supplies in Shippers' Export Declarations.—Revised Jan., 1930. viii+20 pages.

Markets for Sawmill and Woodworking Machinery in Mexico, Guatemala, Panama, Cuba and Porto Rico.—Trade Information Bulletin No. 675; ii+21 pages. Price, 10¢.

Dried-Fruit Industry and Trade of South Africa.—Trade Information Bulletin No. 676; ii+11 pages. Price, 10¢.

Margarine Industry of Europe.—Trade Information Bulletin No. 677; ii+13 pages. Price, 10¢.

Markets for Fuel-Oil Burners in Eastern Hemisphere.—Trade Information Bulletin No. 679; ii+35 pages. Price, 10¢.

BUREAU OF STANDARDS

Bureau of Standards Journal of Research, Mar., 1930, Vol. 4, No. 3. Pages 329-450, illustrations, plates, charts. This journal contains the papers formerly issued as Scientific and Technologic Papers series, which have been discontinued. The articles in the journal are known as the Research Papers series and are issued separately after publication in the journal. Price of single copies varies according to size of the journal. Price of volume, 40¢; annual subscription, \$2.75.

Reliability of Fusible Tin Boller Plugs in Service, by John R. Freeman, Jr., J. A. Scherrer, and S. J. Rosenberg. Research Paper No. 129. Reprint from Bureau of Standards Journal of Research, Vol. 4, Jan., 1930, pp. 1-22, 1 illus., 5 pages plates. Description of tests made to determine serviceability of this class of plug. Price, 10¢.

Standards for Testing Magnetic Permeameters, by Raymond L. Sanford. Research Paper No. 140. Reprint from Bureau of Standards Journal of Research, Vol. 4, Feb., 1930, pp. 177-188, 1 illus., 7 charts. Methods employed for calibration of magnetic standards. Price, 5¢.

Ultra-violet Reflecting Power of Aluminum and Several Other Metals, by W. W. Coblenz and R. Stair. Research Paper No. 141. Reprint from Bureau of Standards Journal of Research, Vol. 4, Feb., 1930, pp. 189-193, 3 charts. Data on ultra-violet reflecting power of aluminum, duralumin, rhodium, and tin. Price, 5¢.

Ring and Ball Method of Test for Softening Point of Bituminous Materials, Resins, and Similar Substances, by Percy H. Walker. Research Paper No. 142. Reprint from Bureau of Standards Journal of Research, Vol. 4, Feb., 1930, pp. 195-201, 1 illus. Description of apparatus used to determine softening point of bituminous materials when heated. Price, 5¢.

BUREAU OF MINES

Commercial Possibilities of Texas-New Mexico Potash Deposits, by James S. Wroth. Bulletin 316; vi+144 pages, 4 illus., 1 chart. Report on potash resources in Texas and New Mexico and possibilities for development at a cost to compete with imported product. Price, 25¢.

Metal-mine Accidents in United States During Calendar Year 1928, by William W. Adams. Bulletin 320; vi+102 pages, 1 illus. Shows number of men employed in mines, the number killed or injured, and causes of accidents. Price, 20¢.

BUREAU OF FISHERIES

Destruction of Oyster Bottoms in Mobile Bay by Flood of 1929, by Paul S. Galtsoff. Document No. 1069. (Appendix XI to Report of U. S. Commissioner of Fisheries for 1929, pp. 741-758, 1 illus., 2 maps.) Study of condition of oyster beds in Mobile Bay, with suggestions for their rehabilitation and improvement. Price, 10¢.

Propagation and Distribution of Food Fishes, Fiscal Year 1929, by Glen C. Leach. Document No. 1070. (Appendix XII to Report of Commissioner of Fisheries for Fiscal Year 1929, pp. 759-823, 3 illus.) Report on cooperation with States in propagation of fish, activities of different hatcheries in production and distribution of fish and fish eggs, and work in cooperation with Forest Service in replenishing mountain lakes and streams with fish. Price, 15¢.

BUREAU OF NAVIGATION

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

Merchant Vessels of United States, Including Yachts and Government Vessels, Year Ended June 30, 1929. 1021 pages. List of merchant and Government vessels and yachts, showing name of vessel, tonnage, dimensions, where built, name of owner, home port, number of crew, official number, and signal letters. Price, \$2.

COAST AND GEODETIC SURVEY

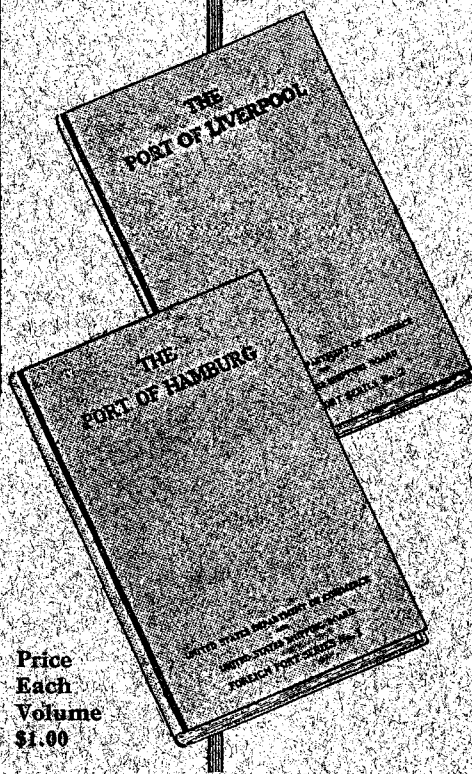
Magnetic Surveys, Purposes, Methods, and Instruments. Rev. ed., 1930. Serial No. 272; ii+13 pages.

Triangulation in Hawaii, by Hugh C. Mitchell. Special Publication No. 156; vi+240 pages, 2 pages of plates, 15 maps. Report on all triangulation executed in Hawaiian Islands since 1871. Price, 50¢.

Triangulation in Colorado, 1927 Datum, by Oscar S. Adams. Special Publication No. 160; vi+72 pages, 5 illus., 1 plate. Price, 15¢.

LIGHTHOUSE SERVICE

Atlantic Coast of United States: Local Light List, Including Lights, Fog Signals, Buoys, and Daymarks, New York and Approaches, Narragansett Bay to Cape May, Third Lighthouse District, 1930 (corrected to Dec. 15, 1929). 248 pages. This list describes all aids to navigation maintained by United States on Atlantic Coast from Narragansett Bay to Cape May. Price, 20¢.



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BUFFALO: Chamber of Commerce Bldg.
CHARLOTTE, N. C.: 1207 First National Bank.
CHATTANOOGA: Manufacturers' Association.
CHICAGO: Room 577, 38 South Dearborn Street.
CINCINNATI: Chamber of Commerce.

CLEVELAND: Chamber of Commerce.
DALLAS: Chamber of Commerce Bldg.
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DES MOINES: 121 Federal Building.
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