

UNITED STATES
DEPARTMENT OF COMMERCE
WASHINGTON

SURVEY OF CURRENT BUSINESS

JANUARY, 1931

No. 113



ISSUED BY
BUREAU OF FOREIGN AND DOMESTIC COMMERCE

IMPORTANT NOTICE

In addition to figures given from Government sources, there are also incorporated for completeness of service figures from other sources generally accepted by the trades, the authority and responsibility for which are noted in the "Sources of Data" on pages 140-143 of the August, 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 August, 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 equivalent scale points higher than the preceding month. Another movement with a relative number of, say, 50 also increases 10 per cent, making its relative number 55. On the ordinary (arithmetic) scale this item would rise only 5 equidistant points, whereas the previous item rose 40 points, yet each showed the same percentage increase. The ratio charts avoid difficulty and give to each of the two movements exactly the same vertical rise, and hence the slopes of the two lines are directly comparable. The ratio charts compare percentage changes while the arithmetic charts compare absolute changes.

RECORD BOOK

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

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



SURVEY OF CURRENT BUSINESS



PUBLISHED BY

UNITED STATES DEPARTMENT OF COMMERCE

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

No. 113

WASHINGTON

January, 1931

CONTENTS

SUMMARIES		INDEX BY SUBJECTS	
	Page		Text page Table page
Preliminary summary for December.....	1	Textiles.....	9 23-24
Monthly business indicators:		Metals and metal products.....	10 25-28
Ratio charts.....	2	Fuels.....	11 28, 29
Yearly averages, 1923-1929; monthly averages, 1929-30 (table).....	3	Automobiles and rubber.....	11 28-30
Business conditions in November.....	4	Hides and leather.....	11 30-31
Indexes of business.....	15	Paper and printing.....	11 31, 32
		Building construction and housing.....	12 32-33
		Lumber.....	12 33-34
		Stone, clay, and glass products.....	12 34-35
		Chemicals and oils.....	-- 36-37
		Foodstuffs and tobacco.....	13 37-41
		Transportation and public utilities.....	14 41-43
		Employment and wages.....	5 43, 44
		Distribution movement (trade, etc.).....	-- 44-45
		Banking, finance, and insurance.....	14 45-48
		Foreign exchange and trade.....	14 48
DETAILED TABLES			
Sales of the Great Atlantic and Pacific Tea Co.....	18		
Automobile financing (revised).....	18		
Sulphuric acid.....	19		
Superphosphate.....	19		
Urban and rural population of the United States.....	20		
Plastic paints, cold water paints, and calcimines.....	20		
Prospective carloadings, first quarter of 1931.....	21-22		

PRELIMINARY SUMMARY FOR DECEMBER

The volume of business operations in the Nation as a whole in the first weeks of December, as reflected by bank debits outside of New York City, were smaller than for the preceding period and the corresponding number of weeks in 1929. The value of new building contracts decreased from the previous period and were under those of a year ago. The activity of steel plates declined from the last of November, and was considerably under December of last year. Wholesale prices of commodities, as measured by Fisher's index, continued to decline during December, and were considerably lower than a year ago. Prices of wheat rose slightly during the first weeks of December, but were considerably under those of the same period last year. Cotton middling prices in New York continued to decline and were lower than a year ago, while iron and steel prices remained on the same level as during the closing weeks of November, but were considerably under 1929 prices.

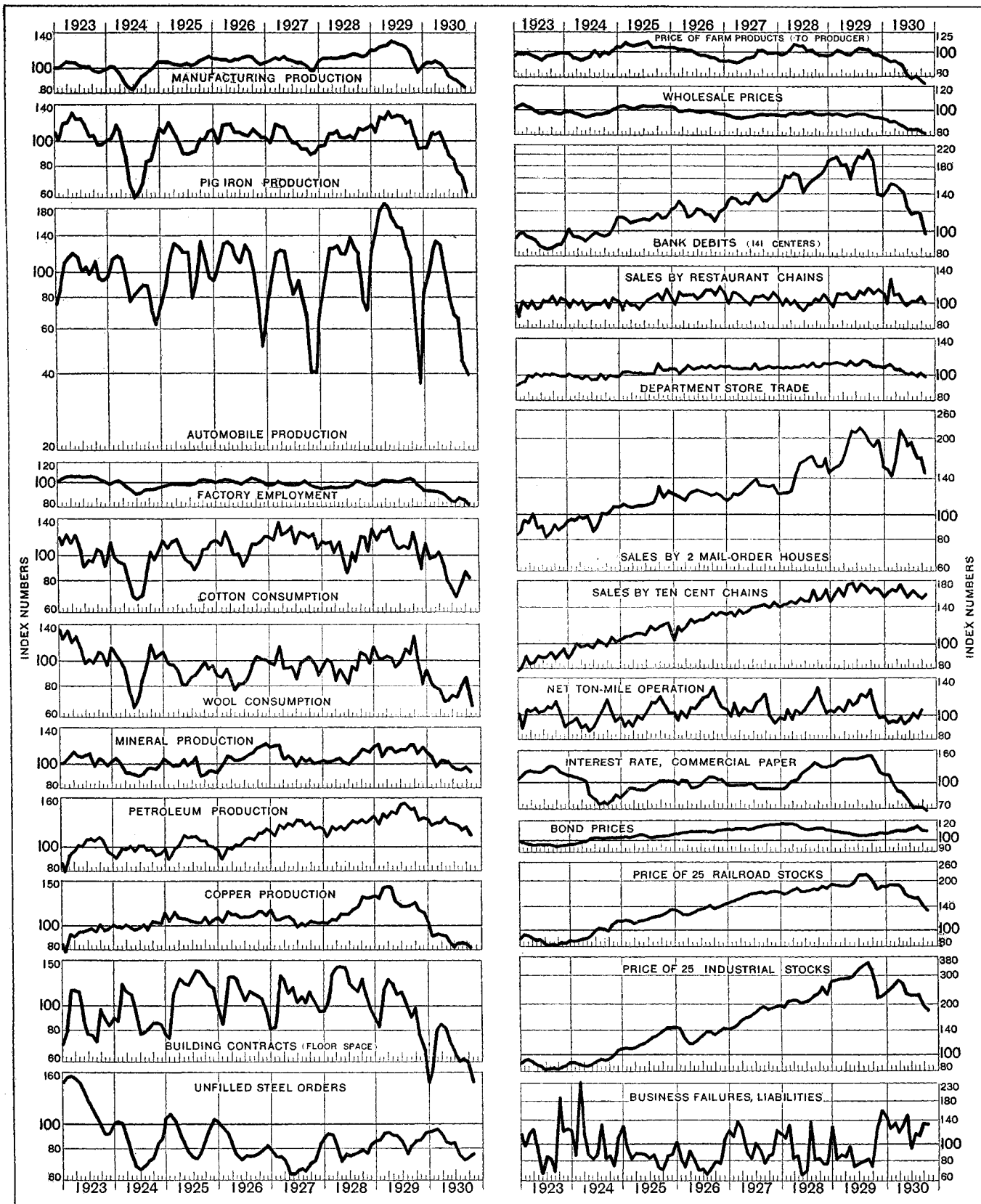
Loans and discounts of Federal reserve member banks declined slightly from the November level, and

rates at the end of December on time money were higher than at the close of November, and rates on call money also moved up during December. Both rates, however, were materially lower than during the same period in 1929 and 1928. Bond prices during December continued to decline from those of November, and were about on the same level as during the same period in 1929, but lower than 1928. Stock prices also continued to decline during December, reaching the low point of the year during the final week of the month. Brokers' loans declined during December and were materially under 1929. The Federal reserve ratio continued to decline but was considerably higher than during December, 1929. The number of commercial failures remained on a comparatively high level both in respect to November and to December, 1929.

Freight carloadings continued on a low level during December, being under the weekly average for November and materially under the average for December of the year previous. Lumber production fell off when compared with December, 1929, as did bituminous coal production.

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								1928				1929				1930				
	1923	1924	1925	1926	1927	1928	1929		Aug.	Sept.	Oct.	Nov.	Aug.	Sept.	Oct.	Nv.	July	Aug.	Sept.	Oct.	Nov.
	1923-1925 monthly average=100																				
Industrial production:																					
*Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	113.0	115.0	114.0	112.0	125.0	122.0	117.0	105.0	93.0	90.0	91.0	86.0	83.0	
*Total minerals.....	105.0	96.0	99.0	108.0	107.0	106.0	115.0	105.0	107.0	114.0	113.0	115.0	118.0	110.0	97.0	96.0	94.0	98.0	98.0	92.0	
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	105.0	102.5	112.9	110.5	125.7	117.1	120.1	106.5	88.4	84.5	76.2	72.5	62.5	
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.9	120.9	120.0	134.5	123.4	142.9	131.0	131.2	101.9	84.8	89.5	83.0	78.7	64.6	
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	139.5	125.6	120.2	77.8	150.8	125.8	114.9	65.8	79.4	67.5	65.6	45.4	39.1	
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	150.9	143.9	141.1	121.2	149.5	138.6	134.6	113.1	137.4	143.4	129.7	115.9	89.3	
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	102.6	95.9	120.1	119.1	108.9	106.4	124.7	105.4	73.8	68.7	76.8	86.6	80.8	
Wool (consumption).....	112.8	94.6	92.6	89.7	97.0	94.7	103.1	95.2	91.8	108.6	105.7	111.1	105.0	125.3	98.5	73.2	71.3	80.4	86.5	65.9	
Raw material output:																					
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	96.7	91.6	101.6	92.6	100.0	98.7	102.6	95.2	111.8	91.4	91.2	96.7	84.9	
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	115.0	178.3	252.1	179.7	134.5	177.1	246.3	154.6	86.6	115.3	165.6	197.9	138.5	
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	88.6	76.8	87.1	83.6	91.8	80.3	89.2	81.4	65.5	66.0	61.2	68.4	64.7	
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	126.7	124.6	129.8	123.8	150.1	142.5	144.0	128.3	125.0	121.9	115.6	118.4	111.0	
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	102.3	95.9	96.3	117.5	107.4	102.6	104.1	119.8	106.8	79.7	81.9	88.7	101.3	87.5	
Copper.....	93.4	100.2	106.4	110.2	104.9	114.9	127.1	116.7	118.8	131.1	129.6	119.6	120.4	125.2	115.1	82.3	85.1	85.8	84.8	80.6	
Power and construction:																					
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.8	149.8	145.1	158.0	154.6	166.6	160.8	173.7	164.3	156.9	157.1	154.8	163.0	153.4	
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	118.8	114.2	129.1	111.1	100.5	90.2	98.9	76.9	67.2	60.2	62.1	59.5	49.9	
Unfilled orders:																					
General index.....	121.7	87.0	91.3	84.6	74.0	76.2	80.8	74.6	74.6	71.7	74.1	76.0	76.9	77.0	74.0	74.5	69.6	67.4	63.8	63.5	
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	75.9	77.4	78.6	76.9	76.6	81.7	85.6	86.4	84.2	75.0	71.7	72.9	76.2	
Stocks:																					
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	107.9	116.3	133.3	137.5	127.4	139.4	155.1	156.5	125.4	132.2	147.8	157.2	161.7	
Manfd. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	116.3	112.1	111.5	114.7	116.2	114.2	114.4	116.2	124.5	120.5	117.7	119.0	119.5	
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	52.4	89.3	155.0	180.6	58.1	106.4	176.9	118.6	108.0	119.1	165.3	236.6	265.0	
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	48.4	45.8	40.3	46.1	92.2	83.7	78.1	112.1	284.5	307.1	318.6	322.4	326.7	
Employment:																					
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	98.3	100.3	100.2	98.8	102.0	105.4	103.3	98.9	84.6	85.1	86.4	84.3	81.0	
Prices:																					
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	100.7	102.2	99.3	97.1	103.6	102.2	101.4	98.6	80.4	78.3	80.4	76.8	74.6	
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	98.2	99.4	97.1	96.0	97.0	96.8	95.6	93.7	83.2	83.4	83.6	82.0	79.8	
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	103.0	105.3	104.8	104.8	107.0	107.4	107.2	106.7	96.2	96.0	97.3	96.5	94.5	
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	98.0	99.3	99.3	99.3	99.4	99.2	99.3	99.3	92.6	92.6	93.2	92.6	91.4	
Distribution (values):																					
*Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	158.2	184.5	149.9	156.9	161.0	165.1	198.2	192.8	211.1	189.9	125.7	117.8	120.8	120.3	97.6	
*Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	107.0	112.0	108.0	111.0	114.0	112.0	108.0	100.0	102.0	99.0	102.0	102.0	98.0	
*Mail-order sales, 2 houses.....	89.3	97.2	111.9	120.6	126.2	147.7	188.6	168.7	170.8	156.2	155.6	223.3	212.1	194.7	186.0	190.8	193.2	167.1	167.8	145.4	
*10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	147.0	165.0	148.0	151.0	174.0	168.0	159.0	166.0	152.0	163.0	156.0	151.0	158.3	
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	105.0	109.3	127.7	118.0	110.0	114.5	133.5	122.0	101.2	98.1	107.9	121.1	106.2	
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	107.3	98.9	110.0	101.1	114.3	108.8	121.1	104.8	68.2	67.6	70.1	76.6	63.4	
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	115.2	99.8	111.0	144.9	143.5	100.2	115.1	139.2	118.5	70.2	78.4	82.2	86.2	76.1	
Transportation:																					
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	113.7	117.4	129.3	112.5	120.5	118.5	128.2	103.8	95.4	100.3	97.1	105.3		
Finance:																					
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	125.6	127.3	128.3	129.8	135.3	139.1	151.1	141.3	135.3	134.3	135.8	133.8	131.8	
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	124.8	130.6	127.6	124.8	142.2	145.0	145.0	133.4	75.4	69.6	69.6	69.6	66.8	
Federal reserve ratio.....	99.0	104.1	96.9	96.0	98.1	89.1	93.4	90.0	86.5	87.0	84.5	97.7	94.2	89.9	93.0	108.2	104.3	105.7	106.7	103.4	
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	109.8	111.0	111.3	112.0	104.1	103.9	105.2	105.0	109.5	111.5	113.3	110.9	109.1	
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.5	194.3	173.8	178.5	176.4	186.0	216.3	217.7	203.5	176.2	162.6	157.8	157.5	139.1	129.0	
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	213.4	228.9	234.5	252.6	344.5	358.5	316.3	219.4	225.8	225.9	225.0	191.1	161.8	
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	137.3	80.1	82.5	95.8	79.6	80.5	73.9	122.8	93.9	116.0	110.7	132.8	130.3	

*Seasonal adjustments.

BUSINESS CONDITIONS IN NOVEMBER

PRODUCTION

Industrial production in November, according to the weighted index of the Federal Reserve Board, showed a decline from both the preceding month and the corresponding month in 1929. The output of manufactured commodities and minerals likewise declined from both periods, after adjustments are made for seasonal variation. In manufacturing, declines from October, after seasonal corrections are made, were registered by the various groups as follows: Iron and steel, 13.3 per cent; food products, 3.2 per cent; leather and shoes, 10 per cent; stone, clay, and glass, 11.3 per cent; nonferrous metals, 7.4 per cent; and tobacco manufactures, 7.7

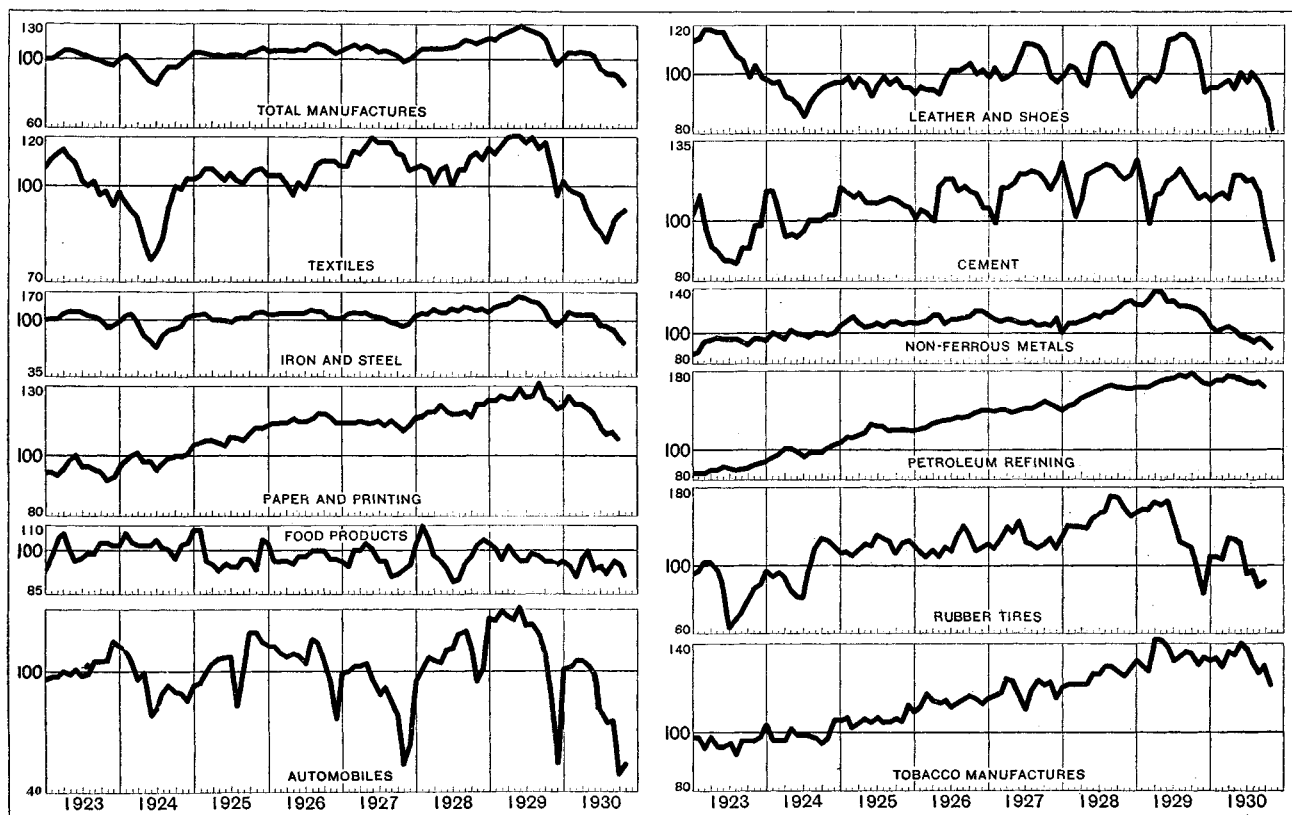
which exceeded the figures of the previous October. The greatest decline from November, 1929, was recorded by the iron ore industry with a decrease in output of 48 per cent, followed by the silver industry with a drop of 38.6 per cent in output; zinc industry, 34 per cent; copper industry, 29.8 per cent; petroleum industry, 14.4 per cent; bituminous coal, 12.2 per cent; and the anthracite industry with a drop in volume of production of 5.7 per cent.

DISTRIBUTION

Unfilled orders of manufactured goods at the end of November recorded slight declines from the preceding

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



per cent. The textile industry was the only group reporting an increase during November in respect to October. All industrial groups, however, registered a rate of productive operations under those of November, 1929, and November, 1928. The greatest decrease in activity with respect to November, 1929, was recorded by the iron and steel industry with 35 per cent followed by the leather and shoes group with a decline in activity of 23.6 per cent; stone, clay, and glass, 21.1 per cent; nonferrous metals, 16 per cent; textiles, 14.8 per cent; tobacco manufactures, 8.4 per cent; and food products, 5.2 per cent.

In the output of minerals, all groups declined from both the preceding period and the month of November, 1929, excepting copper and silver production, both of

month and material declines from the same month in 1929. As compared with the month of October, 1930, orders for iron and steel increased slightly, while orders for transportation equipment showed a downward trend. Textile orders declined slightly.

Wholesale trade in November, as reported to the Federal Reserve Board, by firms selling groceries, dry goods, hardware, and drugs, indicated that sales in these lines were considerably smaller than during November, 1929. The total sales for the year to date also declined from the corresponding period of the year previous. Department store sales of 525 leading establishments in the 12 Federal reserve districts were about the same during November as in October, whereas a small increase would normally be expected during this

period. The November sales were considerably under the same month of the year previous.

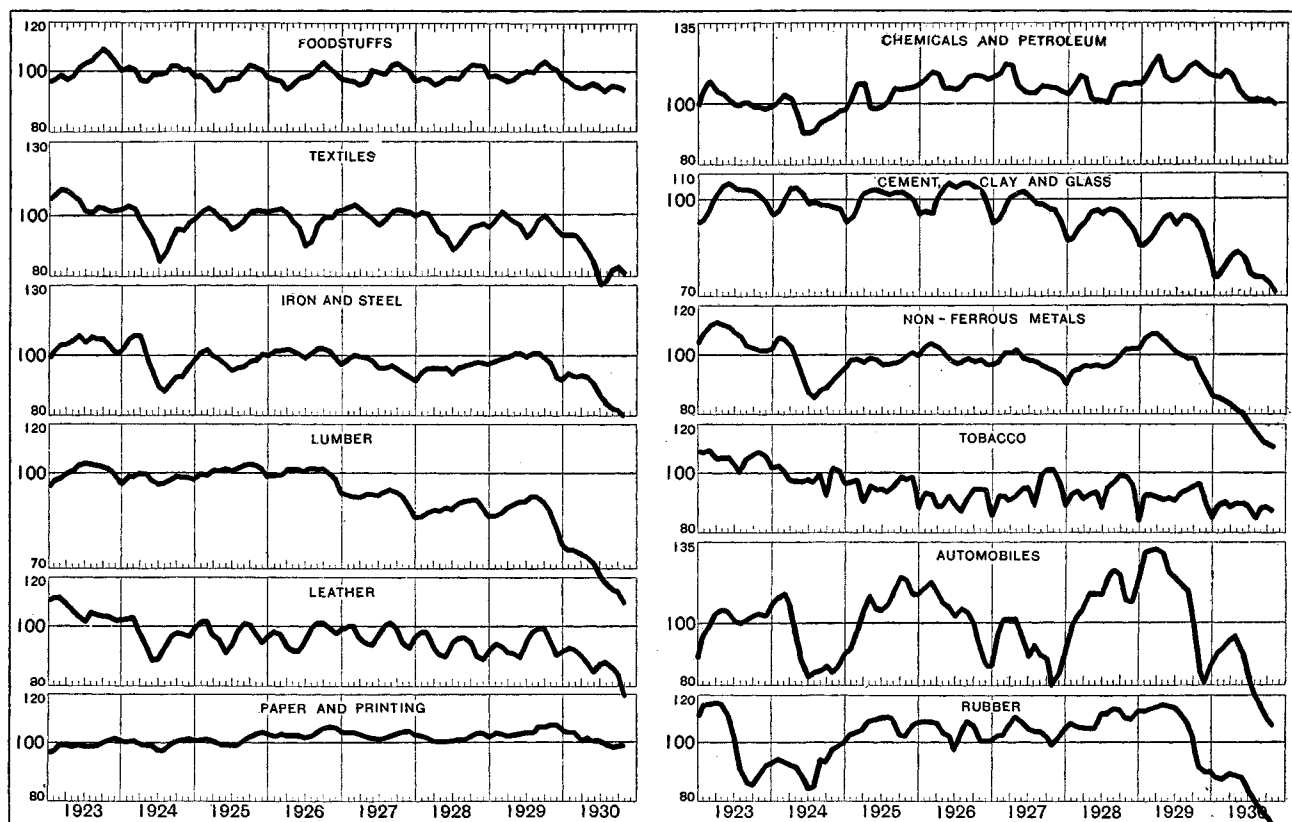
Sales of leading 5-and-10-cent stores registered slight losses in comparison with October and were considerably under November, 1929. Mail-order sales also showed a downward tendency during November and like the sales of the 10-cent chains, fell off from the year previous.

IMPORTS AND EXPORTS

Total imports of merchandise during November were smaller than during the preceding month and materially under November, 1929. All commodity groups registered decreases from October. Total exports showed a loss also in comparison with October, losses being recorded by all commodity groups with exception of foodstuffs.

FACTORY EMPLOYMENT, BY GROUPS

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



PRICES

The general index of wholesale prices in November, as compiled by the Department of Labor, showed a slight decline from the month of October, and was considerably lower than November, 1929. Prices of miscellaneous products during November remained the same as in October, and the price of semimanufactured articles increased fractionally. Prices of all other commodity groups, however, declined during the month.

The index representing prices received by farmers for their products was 2.8 per cent lower than October and 24.2 per cent lower than the same month in 1929. As compared with the prices that ruled in October,

increases occurred in dairy and poultry products, cotton and cottonseed, and in the group of unclassified commodities, while declines were noted in the prices for grains, fruits, and vegetables, and meat animals. In comparison with November, 1929, declines occurred without exception in each case.

EMPLOYMENT

Factory employment, as indicated by the indexes of the Federal Reserve Board, showed some decreases from the month of October and were materially lower than the year previous. In comparison with the previous month employment decreased in all industrial groups. As compared with the month of November, 1929, all groups also showed declines.

Factory pay rolls, in general, in keeping with the decreased employment, were lower than the month

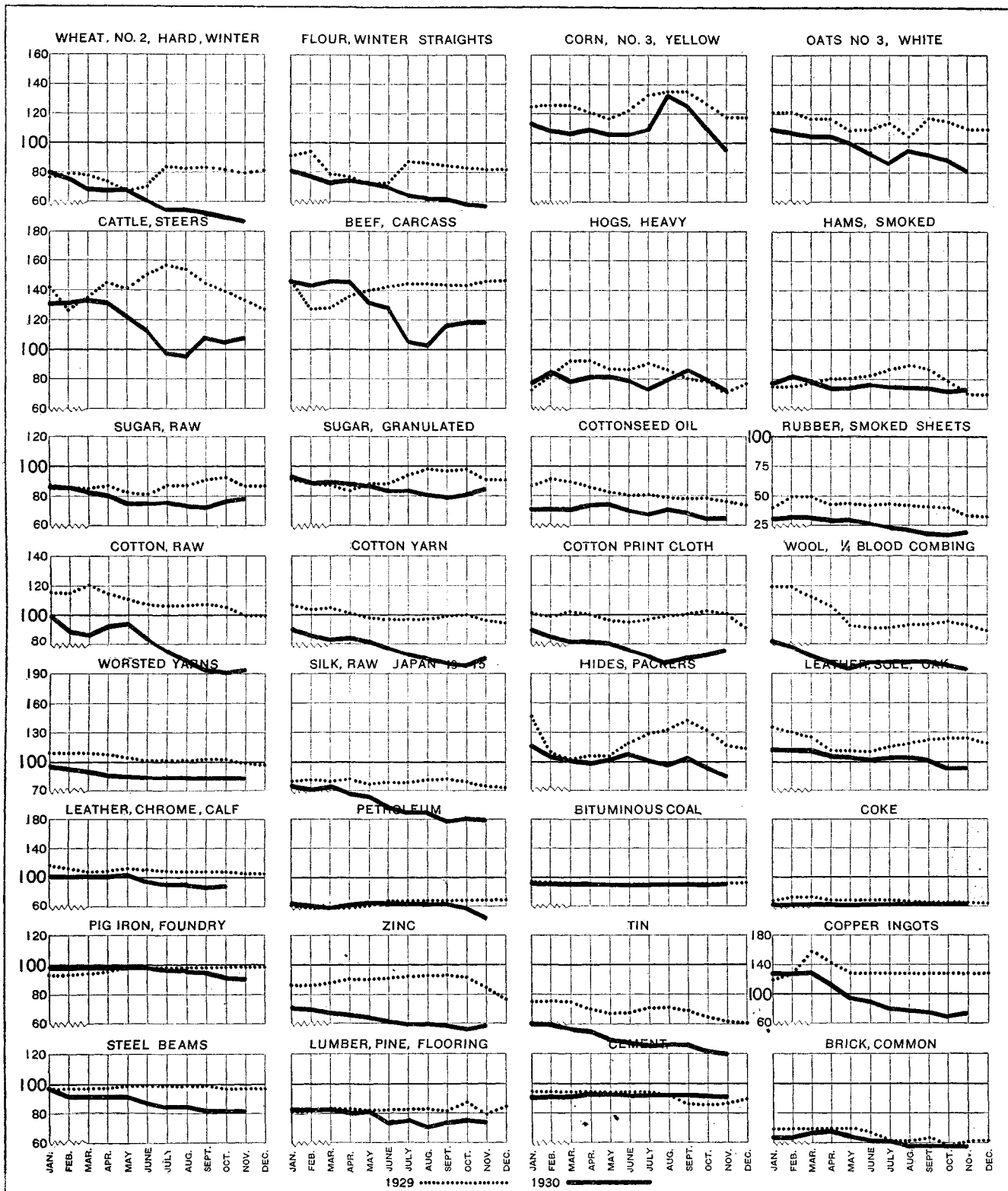
previous. No industrial group recorded a gain in pay rolls during November in comparison with October, and all groups were also materially under November, 1929.

COST OF LIVING

The general cost-of-living index, as compiled by the National Industrial Conference Board declined slightly during October and was 8 per cent under the index for the month of November, 1929. Declines from October occurred in the food, shelter, clothing, and sundries groups, while fuel and light were on the same plane as October. As compared with November, 1929, all cost-of-living groups registered substantial declines.

WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



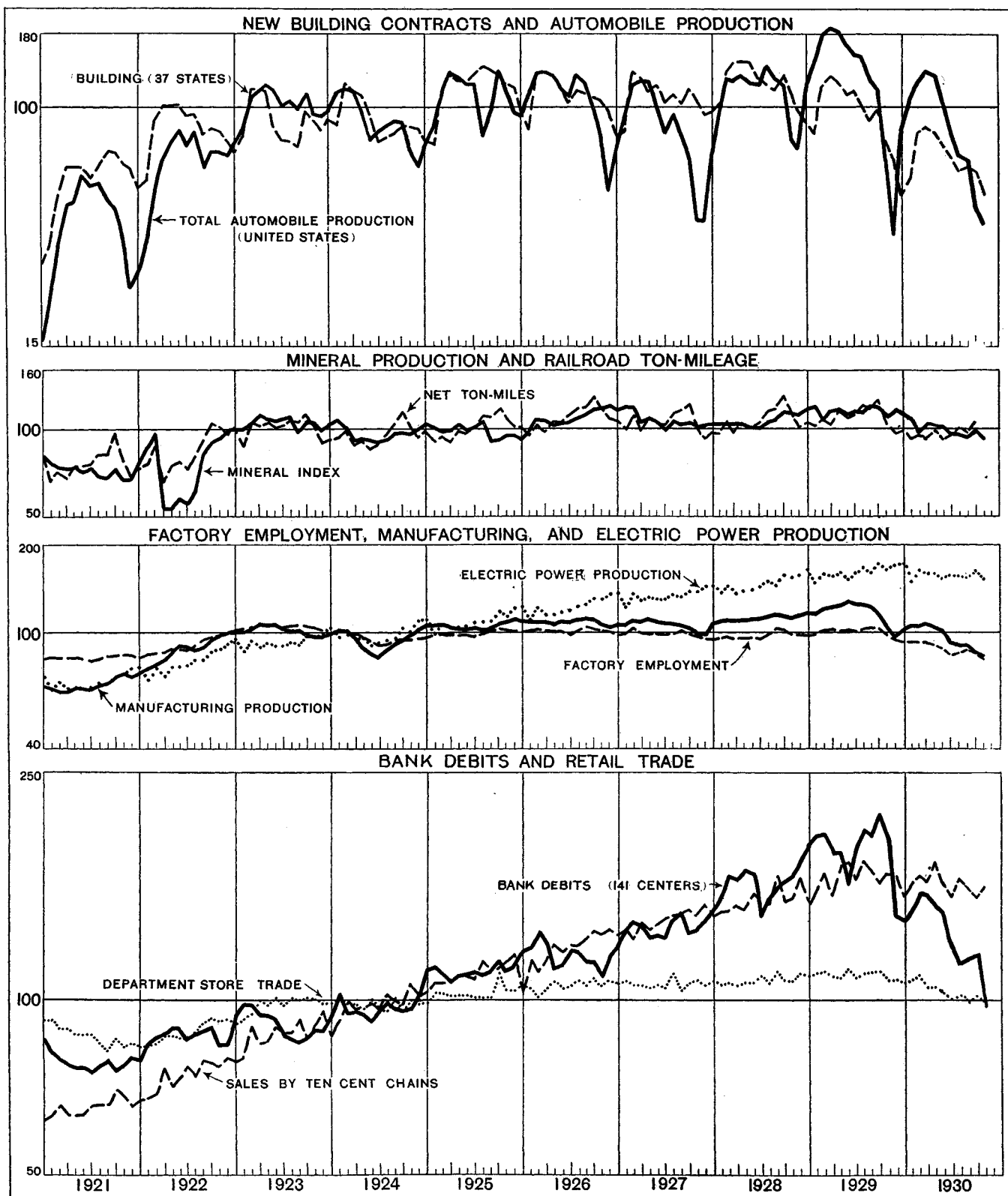
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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				
		October, 1930	November, 1930	November, 1929	1926 average=100				
					Septem- ber, 1930	October, 1930	Novem- ber, 1930	October, 1929	Novem- ber, 1929
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER									
Wheat.....	Bushel	0.656	0.600	1.034	52	49	44	83	77
Corn.....	Bushel	.819	.663	.810	131	117	95	132	116
Potatoes.....	Bushel	1.017	.950	1.348	59	55	51	74	73
Cotton.....	Pound	.092	.096	.162	66	61	64	116	107
Cottonseed.....	Ton	20.73	21.28	30.75	88	76	78	115	113
Cattle, beef.....	Pound	.0854	.0841	.0863	102	101	99	138	134
Hogs.....	Pound	.0879	.0820	.0854	80	74	70	77	72
Lambs.....	Pound	.0615	.0621	.1074	58	53	54	95	93
FARM PRODUCTS—MARKET PRICE									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel	.82	.75	1.28	55	52	47	83	81
Wheat, No. 2, red, winter (St. Louis).....	Bushel	.87	.83	1.29	57	56	54	85	83
Wheat, No. 2, hard, winter (Kansas City).....	Bushel	.74	.69	1.19	52	50	46	82	80
Corn, No. 3, yellow (Chicago).....	Bushel	.82	.71	.88	125	109	95	127	117
Oats, No. 3, white (Chicago).....	Bushel	.36	.33	.45	93	88	80	115	110
Barley, No. 2 (Minneapolis).....	Bushel	.52	.48	.60	83	81	75	92	94
Rye, No. 2 (Minneapolis).....	Bushel	.49	.43	.95	60	53	47	105	103
Cotton, middling upland (New York).....	Pound	.107	.110	.175	62	61	63	106	100
Wool, 1/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound	.80	.29	.43	37	65	63	93	93
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.	9.969	10.313	12.688	108	105	108	140	133
Hogs, heavy (Chicago).....	Cwt.	8.856	8.863	9.269	86	80	72	78	75
Sheep, ewes (Chicago).....	Cwt.	3.844	3.375	4.981	47	43	51	70	76
Sheep, lambs (Chicago).....	Cwt.	7.031	7.125	11.969	54	51	52	88	87
FOOD									
Flour, standard patents (Minneapolis).....	Barrel	4.981	4.694	6.688	60	59	56	82	79
Flour, winter straights (Kansas City).....	Barrel	4.231	4.140	5.920	61	58	57	83	82
Sugar, 96° centrifugal (New York).....	Pound	.033	.034	.038	72	76	79	93	87
Sugar, granulated, in barrels (New York).....	Pound	.044	.047	.050	79	81	85	98	92
Cottonseed oil, prime yellow (New York).....	Pound	.076	.076	.090	69	64	64	79	76
Beef, fresh, carcass, good native steers (Chicago).....	Pound	.195	.195	.240	116	119	119	144	146
Beef, fresh, carcass, good (New York).....	Pound	.205	.205	.236	119	120	120	139	138
Fork, smoked hams (Chicago).....	Pound	.221	.222	.218	74	72	72	79	71
Butter, creamery, 92 score (New York).....	Pound	.40	.36	.43	89	89	80	96	96
Oleomargarine, standard, uncolored (Chicago).....	Pound	.205	.205	.235	90	90	90	103	103
TEXTILES									
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound	.235	.254	.346	67	66	71	100	96
Cotton-print cloth 64 x 60-38 1/2"-5.35-yards to pound.....	Yard	.055	.057	.076	70	73	76	103	100
Cotton sheeting, brown 4/4 Trion (New York).....	Yard	.066	.066	.087	75	71	71	94	94
Worsted yarns, 23/2's cross-bred stock, white, in skein (Boston).....	Pound	1.200	1.200	1.425	84	84	84	103	99
Women's dress goods, French, 39 inches, at mills, serge.....	Yard	.900	.900	.975	87	87	87	94	94
Suitings, unfinished worsted—13-ounce, mill.....	Yard	1.601	1.601	1.901	80	80	80	95	95
Suitings, serge, 11-ounce, 56-58 inch.....	Yard	1.746	1.746	1.959	81	81	81	90	90
Silk, Japan, 13-15.....	Pound	2.512	2.463	4.679	39	41	40	80	76
Hosiery, women's pure silk, mill.....	Dozen pair	7.000	6.750	9.000	63	61	58	80	78
LEATHER									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound	.133	.118	.164	104	95	84	132	117
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound	.172	.156	.179	95	99	90	114	103
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound	.410	.410	.545	100	94	94	124	124
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	3.893	3.900	3.959	90	90	90	92	92
Coal, bituminous, prepared sizes (composite price).....	Net ton	4.342	4.336	4.518	90	91	91	94	94
Coal, anthracite, chestnut (composite price).....	Long ton	12.762	12.751	12.999	92	93	93	94	94
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton	2.600	2.575	2.688	63	63	63	66	65
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel	1.098	.850	1.300	63	58	45	69	69
METALS									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton	18.885	18.760	20.260	95	92	91	98	98
Pig iron, basic, valley furnace.....	Long ton	17.000	17.000	18.500	95	92	92	100	100
Steel billets, Bessemer (Pittsburgh).....	Long ton	31.000	31.000	35.000	89	89	89	100	100
Copper ingots, electrolytic, early delivery (New York).....	Pound	.0960	.1011	.1778	75	70	73	129	129
Brass, sheets, mill.....	Pound	.169	.176	.233	93	89	93	122	122
Lead, pig, desilverized, for early delivery (New York).....	Pound	.0515	.0510	.0629	65	61	61	82	75
Tin, straits (New York).....	Pound	.2686	.2589	.4022	45	41	40	65	62
Zinc, slab, western (St. Louis).....	Pound	.0406	.0427	.0624	58	55	58	92	85
BUILDING MATERIAL AND MISCELLANEOUS									
Lumber, pine, southern, yellow flooring, mill.....	M feet	34.010	33.440	37.810	74	75	74	88	84
Brick, common red, domestic building (New York).....	Thousand	9.500	9.500	10.000	58	58	58	58	61
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel	1.600	1.588	1.510	92	92	91	86	87
Steel beams, mill (Pittsburgh).....	Cwt.	1.600	1.600	1.900	82	82	82	97	97
Rubber, smoked sheets (New York).....	Pound	.083	.091	.166	17	17	19	40	34
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

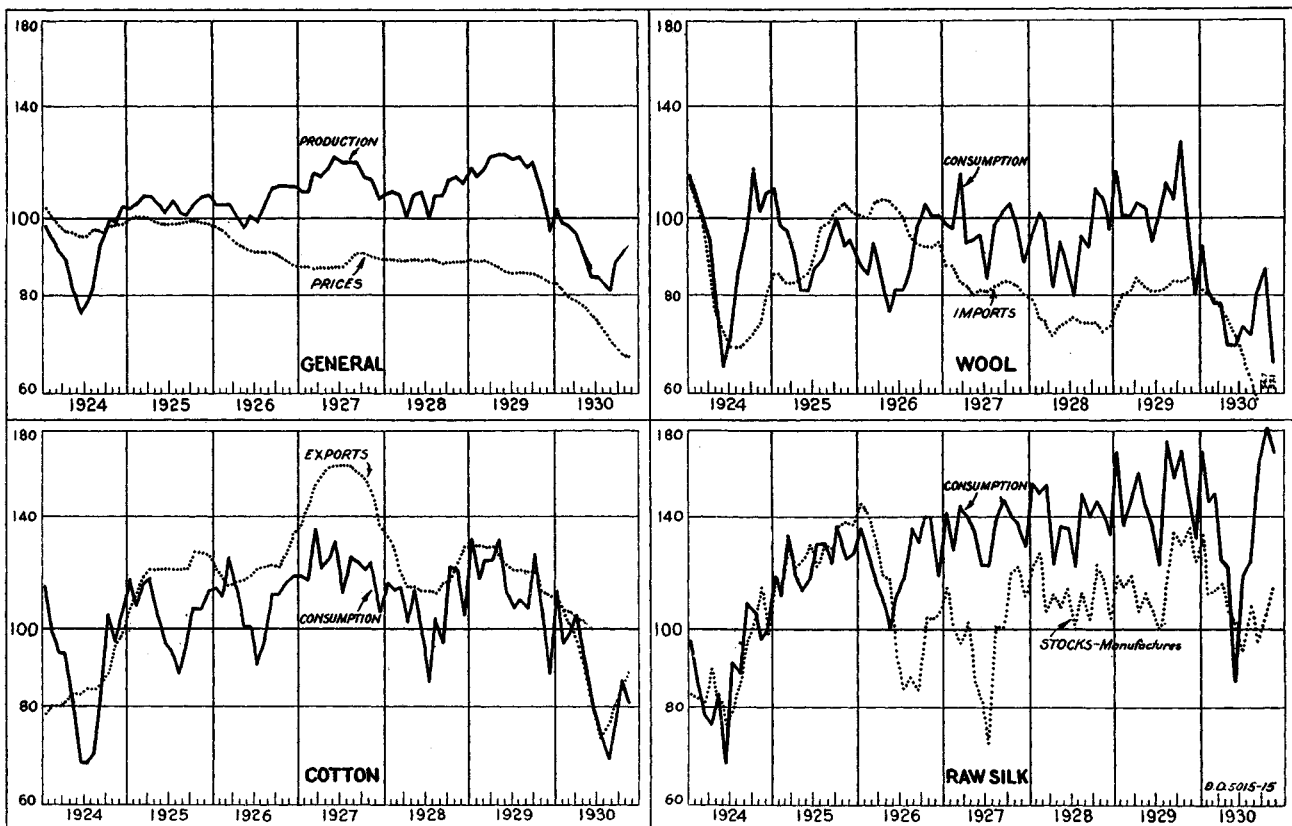
The rate of activity in the textiles industry during November, as measured by the consumption of electrical energy for power purposes, was 10.3 per cent above that recorded during October, but was 18.4 per cent under November, 1929, and 28.9 per cent under November, 1928.

Cotton textiles production decreased during November, but was in excess of the September production. The November production, however, was 40.2 per cent

1929, but were 193,260 bales under the receipts during November, 1928. Stocks of raw cotton at the end of November were 2,496,925 bales, or 33.4 per cent above the stocks on hand at the close of November, 1929, and 3,173,694 bales, or 46.7 per cent over November, 1928. Consumption of raw cotton by textile mills during November was 36.4 per cent under November, 1929, and 33.4 per cent under 1928. Spindle activity in the cotton industry was about 6.5 per cent under October and was 18.9 per cent under November of the year previous.

THE TEXTILE INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. October, 1930, is latest month plotted. Curves covering imports of wools and exports of cotton are plotted from 12 months' moving monthly average plotted on the end month]



under November, 1929, and 39.6 per cent under November, 1928. New orders, shipments, and unfilled orders at the end of November were all materially under the figures for these items recorded for the same period in 1929 and 1928. Stocks of cotton textiles at the close of November were slightly above the figure reported at the close of October, but was materially under the stock as on hand at the close of November, 1929 and 1928.

Receipts of raw cotton during November totaled 2,749,024 bales, a drop of 920,945 bales from the total October receipts. This is just about the same decrease which was witnessed for the same period in 1928 and 1929. The total November receipts of cotton were 67,101 bales above the receipts reported for November,

The consumption of silk during November decreased by 4,604 bales, or by 7.4 per cent from October. This consumption of silk was 13.3 per cent over that reported for November, 1929, and 20.2 per cent over the same period in 1928. Stocks of silk in the warehouses at the close of November were 2,040 bales, or 4 per cent under the stocks on hand at the close of October. These stocks were also 35.8 per cent under those at the close of November, 1929, and 1.2 per cent under 1928.

Total wool receipts at Boston showed a decrease of 51 per cent from the October receipts, and were 50.8 per cent under November, 1929. Imports during November were slightly above those of the month previous, but when compared with November, 1929, a decline of 53.8 per cent was recorded.

METALS

Iron-ore shipments from the mines during November dropped to the unusually low figure of 1,988,000 long tons. The decrease of 64 per cent was materially greater than the normal decrease for this season of the year. Last year the decrease in iron-ore shipments from October to November was 50.6 per cent, and in 1928 it was 50.2 per cent. The shipments from the mines in November were 49.6 per cent under November, 1929, and 52.8 per cent under the same month in 1928.

Pig-iron production during November witnessed about the same decrease from October as was reported

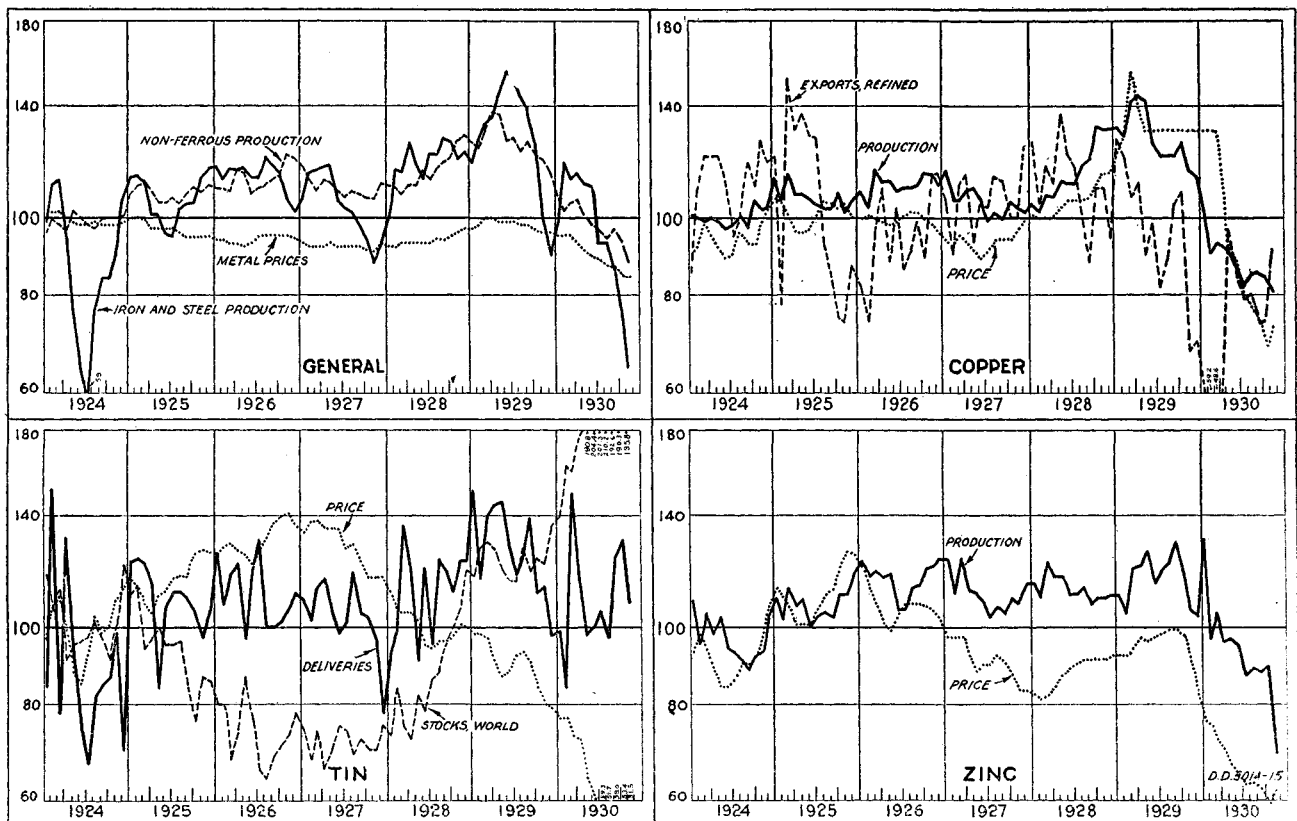
177 furnaces were in blast with a total capacity of 98,450 long tons per day.

Unfilled orders of the United States Steel Corporation at the close of November showed an increase of 4.5 per cent in orders placed during November over the previous month, but were 11.7 per cent below the level of orders for November of the year previous.

Copper production declined 5 per cent from the October output, and was 30 per cent under November, 1929. Domestic shipments of refined copper decreased by 13,010 short tons from October, and 6,286 short tons from the year previous. Stocks of refined copper in North and South America increased slightly over

THE METAL INDUSTRIES

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



for the same period in 1929. The total production during November of 1,867,000 long tons was 10.3 per cent under October and 41.3 per cent under November of the year previous.

The output of steel ingots registered declines of 17.8 and 36.5 per cent, respectively, from the previous month and November, 1929. The ratio of total steel-ingot production to capacity declined to 45 per cent during November, as against 69 per cent for November, 1929, and 87 per cent in November, 1928.

Steel furnaces in blast at the end of the month total 107 with a capacity of 60,205 long tons per day. At the close of November of the year previous a total of

the previous month and were 191 per cent over the stocks at the close of November, 1929. Zinc production was under that of both October and November, 1929.

The imports of gold into the United States rose materially during November, being 12.6 per cent in excess of the October importations and almost six times the gold imported during November of the year previous. The Rand output of gold during November slightly exceeded that of October and November of the year previous. Silver production in the United States remained on approximately the same level as for the past four months, but was materially under that reported for November, 1929.

FUELS

The production of bituminous coal in the United States registered a decrease of 13.6 per cent from the October production and was 18 per cent lower than during November the year previous. Anthracite production also witnessed a material reduction during November, reaching a plane of 31.3 per cent under October, but was only 10.4 per cent under November, 1929. In the year previous the curtailed production of anthracite from October to November amounted to 27.5 per cent, and in 1928 it was 12.8 per cent, so that the curtailed production during the current November was greater than would have been expected at that season of the year.

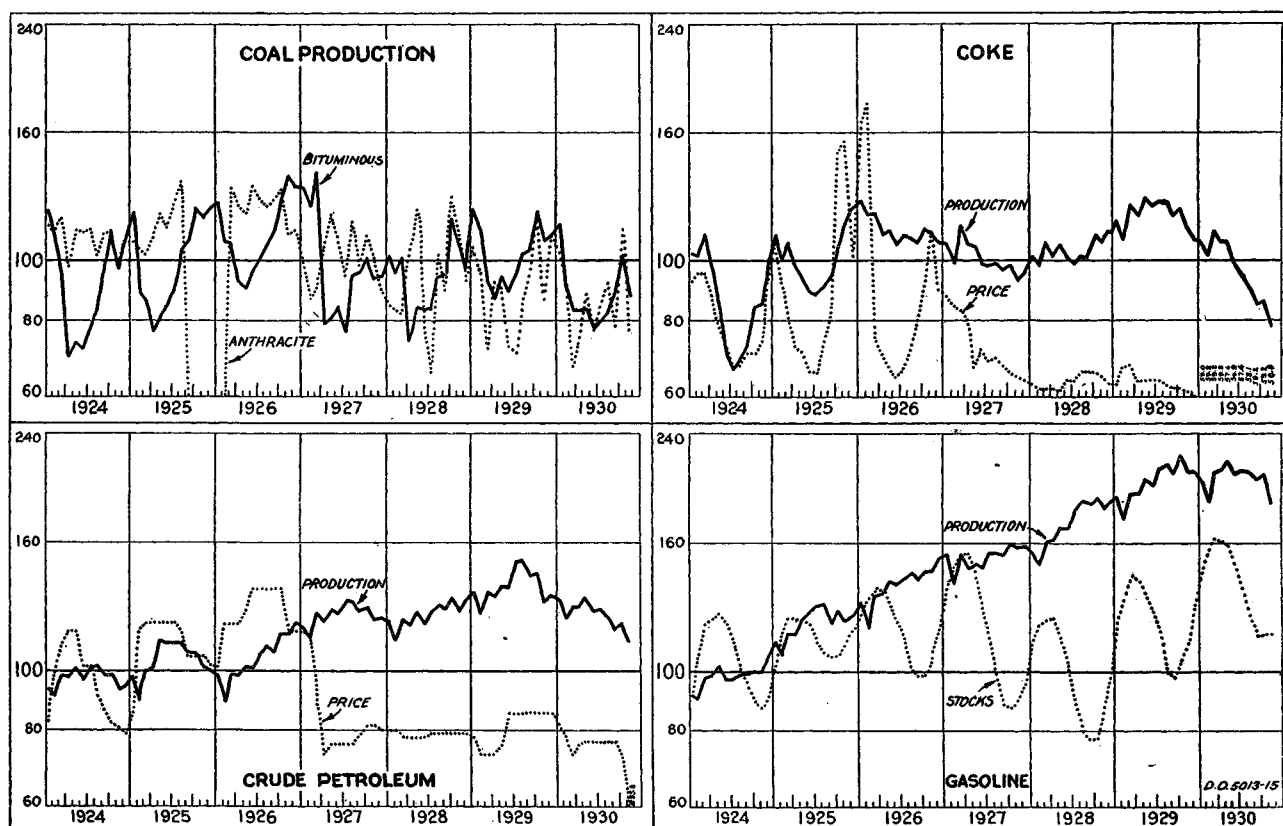
loss of 15.8 per cent from the October figure, and 34.8 per cent less than a year previous.

HIDES AND LEATHER

The production of hides, as shown by the number of cattle and sheep slaughtered under Federal inspection, was the lowest since February. Production of cattle skins was less than in November, 1929, while the number of sheep skins exceeded the year previous by 12.6 per cent. In Canada decreases were recorded in respect both to previous months and to the same month in 1929. Wholesale prices of hides decreased during November to the lowest point recorded for several years. The price of sole leather remained the

THE FUEL INDUSTRIES

[Relative numbers, monthly average 1923-1925 taken as 100. November, 1930, is latest month plotted where data were available]



Production of beehive coke in the United States decreased by 5.8 per cent during November in respect to October, but the November production was about 38 per cent of the production reported for November, 1929, and 39.4 per cent of the 1928 November production.

AUTOMOBILES AND RUBBER

Automobile production continued the downward trend which started in May. The total November production of 97,528 passenger cars and 31,300 trucks is one of the lowest figures recorded in recent years, but is still 9,430 cars in excess of the very low production during December, 1929. Passenger-car output was 13 per cent less than in October and 41.9 per cent lower than in 1929. Truck output likewise recorded a

same as for October, but was 25.4 per cent under the price quoted during November of the year previous. Wholesale prices of men's and women's shoes remained on the same plane as reported for the previous months of the year, and were also on the same level as for November, 1929.

PAPER AND PRINTING

Shipments of newsprint in both the United States and Canada were lower than in either the month of October or November of the year previous. Production in the United States declined 12.5 per cent from the month of October, and 18.8 per cent from the year previous. Canadian production during November was only 5.6 per cent under the October figure, but was 20 per cent under November, 1929. Shipments

of newsprint in the United States decreased from October by 9 per cent and were 19.8 per cent under the same period in 1929. Stocks at the mills at the close of November were somewhat smaller than at the close of October, but were 35.5 per cent over the stocks on hand at the close of November of the year previous.

CONSTRUCTION

Building contracts awarded for new construction and engineering projects declined in value during November to the lowest point of the year, but the number of projects and the floor space involved, while

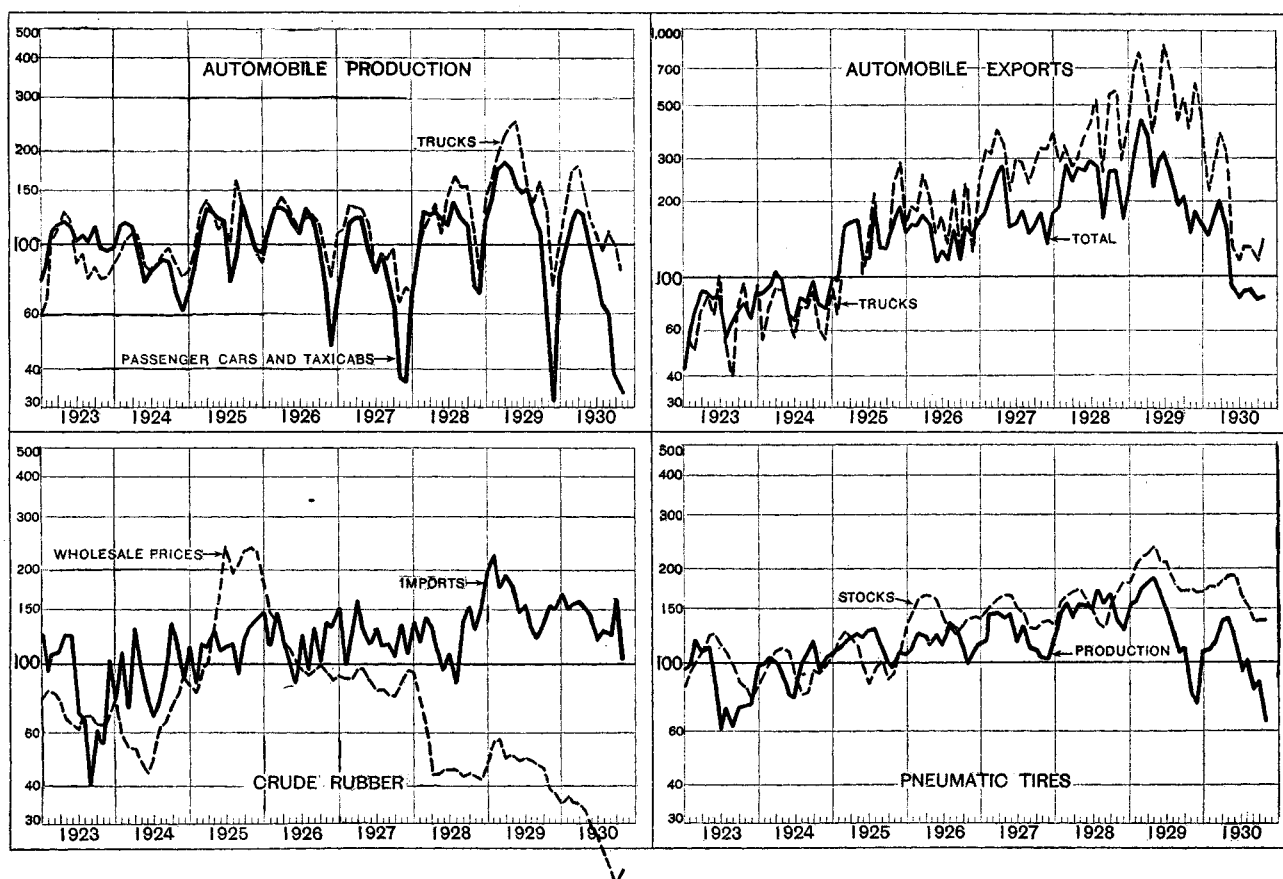
22.6 per cent greater than in November, 1929. Canadian fire losses were greater in November by 13.6 per cent as compared with October, but were 17.8 per cent under November, 1929.

LUMBER

Lumber production in general was on a lower plane than during October and materially under November of the year previous. Most species of the softwoods showed a material decrease, while the hardwoods in most cases increased in volume of production over October, but were still on a plane materially under

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



under October, were in excess of January and February of 1930. The value of the contracts awarded for all types of construction was 35.1 per cent under that reported for November, 1929. Compared with the year previous the amount of floor space involved in the November contracts declined by 64.9 per cent, and the same item for industrial buildings dropped 70 per cent. The value of contracts awarded for residential construction decreased 22.8 per cent in respect to October and was 28.9 per cent under 1929.

Construction costs decreased slightly during the month and were about 6 per cent under the same period in 1929. Fire losses in the United States in November were 3.1 per cent smaller than in October, but were

29.9 per cent greater than in November, 1929. Retail sales of lumber during November were materially under those of October and also under November of the year previous.

STONE, CLAY, AND GLASS

Portland cement output showed a decrease in volume of 23.6 per cent from the October output, recording a decrease of somewhat greater proportion than is normal for this season of the year. The November production was also 21 per cent under November of the year previous. Face-brick production, shipments, and unfilled orders all showed declines from previous periods. Stocks of face brick on hand at the close of November rose slightly but were some 13.4 per cent

under the stocks reported for the close of November, 1929. Terra-cotta orders declined from both periods, the value being 58.4 per cent under that reported for November of the year previous. Illuminating glass production during November was under October and 48.4 per cent under November, 1929.

FOODSTUFFS

The visible supply of wheat, as well as receipts at the principal centers, decreased slightly from the preceding month, but both items exceeded the figures recorded during November, 1929. Shipments of wheat were 16.8 per cent under October and 12.8 per cent under

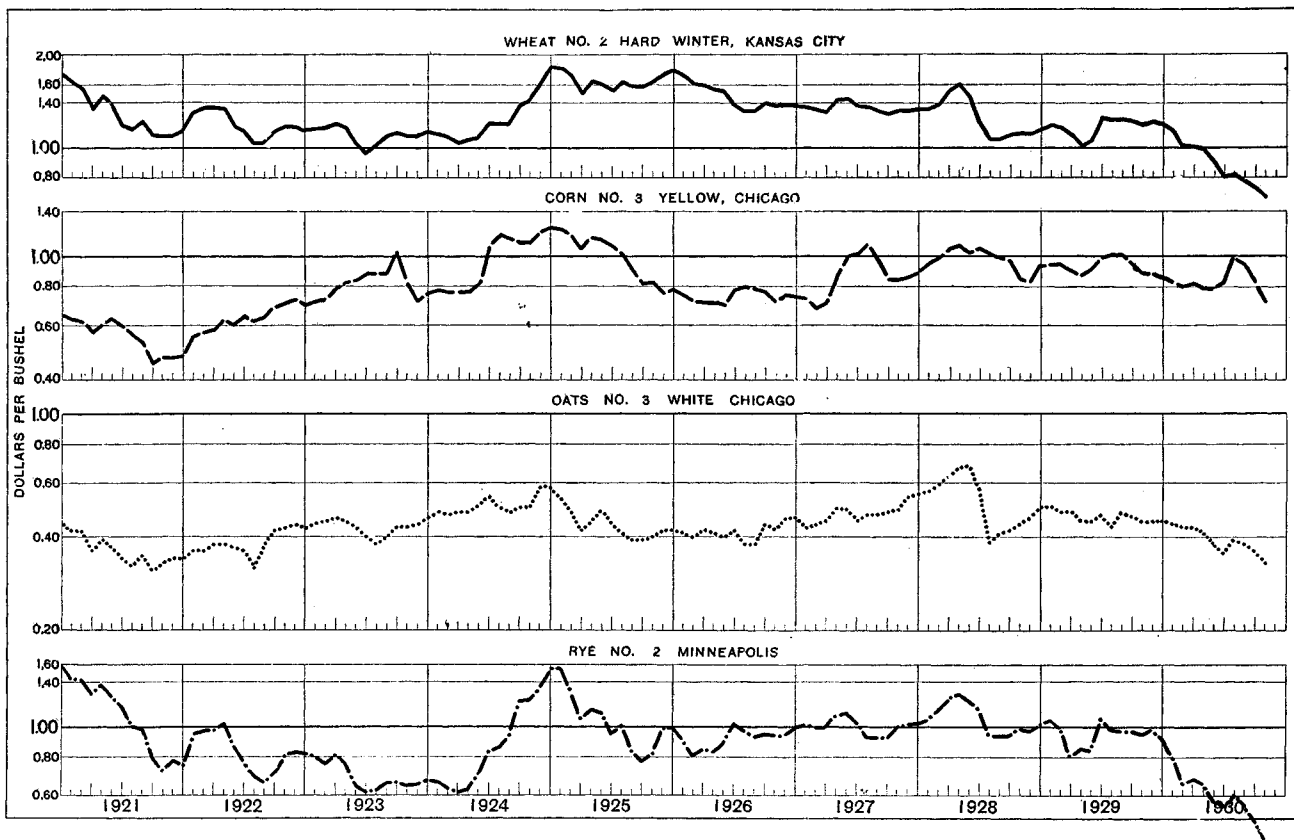
21.6 per cent under the year previous. The apparent consumption of beef during the month was materially under both previous periods. Total meat production during November was under that of October and November, 1929.

Wholesale prices of western dressed steers in New York and fresh native steers in Chicago remain the same as in October, but were materially under November, 1929, prices.

Cold-storage holdings of butter showed a loss of 19.7 per cent from those held at the close of October and were 21.2 per cent smaller than the year previous. Cheese held in cold storage also decreased from the

MOVEMENT OF GRAIN PRICES

[Weighted price per bushel. November is latest month plotted]



November of the year previous. The visible supply and receipts of corn were materially greater than in October, but the receipts were 7.8 per cent under those of November, 1929. Shipments of corn were the lowest of the year, and were 9.6 per cent less than those of November of the year previous. Rice shipments decreased from October and November, 1929.

Receipts, shipments, and local slaughter decreased from the month of October and were under November, 1929. The production of Federal-inspected beef and veal declined materially from October and was 14.2 per cent under November, 1929. Cold-storage holdings of these products at the end of November, although increasing 14.7 per cent from the previous month, were

October holdings, but were practically the same as reported at the close of November, 1929.

Refined sugar shipments from two ports during November declined slightly from October, but were 60.2 per cent greater than the shipments reported for November, 1929. Stocks of sugar at the end of November, on the other hand, were less than at the close of November of the year previous.

The visible world supply of coffee at the close of November was fractionally the same as at the close of the month previous. Receipts of coffee in Brazil were greater than for both previous periods, but the clearances from Brazil were less than for the two previous periods. Price of Rio No. 7 declined during the month

and was 32 per cent under that of 1929. The price of tea rose slightly but was 27.4 per cent under the November, 1929, price.

Car-lot shipments of apples declined by 51.2 per cent from the October shipments, but were still 24.2 per cent over the November, 1929, figure. Onions in car-lot shipments were only about one-half of the October shipments, while the shipments of citrus fruit increased seasonally by 80 per cent in comparison with October. Potato shipments were materially under those of October, but slightly over those of 1929.

TRANSPORTATION

Transportation on inland waterways and canals reflected the seasonal conditions and was materially decreased in respect to October. The Cape Cod, Welland, and St. Lawrence canals all reported a volume of traffic slightly in excess of November, 1929. Traffic on the Monongahela River, however, was 23.4 per cent under that reported for November, 1929, and traffic on the Ohio River between Pittsburgh and Wheeling was 10.4 per cent under the 1929 figure. Carloadings on the railroad, as a whole, were seasonally greater than during October, but were 15.6 per cent under the total loadings reported for November, 1929. Ore shipments were the only classification to fall below the October figure. Orders for locomotives declined to 4 in number as against 84 in November, 1929. Orders for new freight cars declined from October and were 51.8 per cent of the November, 1929, orders.

BANKING AND FINANCING

Bank debits, outside of New York City, were 16.9 per cent lower than the previous month, and 30.8 per cent lower than for the same period for the year previous. Total loans and discounts of the Federal Reserve member banks at the close of November showed only slight change from October, but were 6.8 per cent under the figure reported for November, 1929. The value of new life insurance written during No-

vember registered a decline of 4.8 per cent from the preceding period, but was 16.5 per cent under the year previous. Total dividends and payments paid during December exceeded those of November and also exceeded December, 1929, by 0.8 per cent.

Interest rates on time money were lower than in October, while call money rates remained the same. Both, however, were materially under the rates quoted during November, 1929. Business failures were less than during October, due largely to the shorter month, but were materially in excess of the figures reported for the same month in 1929.

GOLD, SILVER, AND FOREIGN EXCHANGE

Gold receipts at the United States Mint were substantially less than for October, but were about the same as reported for November, 1929. Gold exports were materially under October and November of the year previous. Imports of gold, however, were much larger than the preceding period, and also were materially greater than for November, 1929. Silver production in the United States during November registered a slight reduction from the preceding month of October, and was substantially under the 1929 production. Canadian production of the metal, on the other hand, showed gains over both periods. Losses were noted in both exports and imports of silver during November, but were below the level of the same month in 1929.

Foreign exchange quotations of the principal countries in November were generally the same as in the preceding month and the corresponding period of 1929. As compared with October, slight losses were registered by the Netherlands and Sweden. No exchange registered an increase. As compared with November, 1929, gains were registered by Japan and Canada. Decreased rates of exchange in comparison with 1929 were registered by England, Belgium, Netherlands, Sweden, India, and Argentina.

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	1928			1929			1930		
			September	October	November	September	October	November	September	October	November
PRODUCTION											
TOTAL INDUSTRIAL											
Unadjusted, except for working days.....	125	81	116	118	115	123	120	108	92	90	85
Adjusted for seasonal variations.....	127	83	114	115	113	122	117	106	91	88	84
MANUFACTURING											
Total (adjusted for working days only).....	127	79	116	117	115	122	119	107	91	87	84
Total (adjusted for seasonal variations).....	129	82	116	115	113	122	117	105	91	86	83
Iron and steel.....	155	59	128	126	120	140	124	100	86	75	65
Textiles.....	121	77	107	112	113	116	118	108	88	91	92
Food products.....	110	89	95	98	102	98	96	96	96	94	91
Paper and printing.....	130	91	118	116	121	130	126	123	109	106	103
Lumber.....	110	78	82	81	85						
Automobiles.....	166	45	136	119	92	133	113	81	68	45	50
Leather and shoes.....	134	81	110	103	97	116	113	106	100	90	81
Cement.....	126	86	130	122	122	118	113	109	111	97	86
Glass, plate.....	174	65	135	131	143	174	172	149	95	101	91
Nonferrous metals.....	137	87	117	121	126	125	122	119	96	95	88
Petroleum refining.....	178	84	162	160	159	173	178	171	165	160	151
Rubber tires.....	169	66	169	167	154	116	114	94	84	88	77
Tobacco manufactures.....	143	93	128	126	124	136	135	130	125	129	119
MINERALS											
Total (adjusted for working days only).....	128	84	115	123	117	127	127	114	100	104	95
Total (adjusted for seasonal variations).....	120	90	107	114	113	118	118	110	94	98	92
Bituminous coal.....	125	77	94	99	99	103	103	98	85	87	86
Anthracite coal.....	133	1	93	119	111	102	112	88	80	105	83
Crude petroleum.....	147	88	123	126	127	140	140	132	114	115	113
Iron-ore shipments.....	143	0	110	114	106	121	107	98	79	74	51
Copper.....	142	82	123	128	131	125	123	118	89	83	83
Zinc.....	127	70	114	110	111	120	119	106	94	90	70
Lead.....	125	75	115	108	111	119	115	114	104	94	
Silver.....	123	68	79	79	93	89	94	114	73	70	76
ANIMAL PRODUCTS (Marketing)											
Total.....	124	79	92	102	93	99	103	95	91	97	85
Wool.....	545	14	54	35	70	128	52	63	31	79	35
Livestock.....	131	76	92	95	98	96	113	96	94	108	88
Poultry and eggs.....	148	67	76	86	110	86	128	137	78	79	109
Dairy products.....	164	64	95	89	77	94	91	81	86	82	72
Fish.....	283	44	137	153	131	283	187	154	229	172	143
CROPS (Marketing)											
Total.....	252	45	178	252	180	177	246	155	166	198	139
Grains *.....	214	38	165	174	122	117	103	69	139	83	72
Vegetables *.....	199	60	133	151	94	145	171	91	139	168	90
Fruits *.....	266	43	206	266	119	173	245	93	164	249	109
Cotton products *.....	373	6	184	353	258	218	373	234	219	328	241
Miscellaneous crops *.....	344	3	210	213	209	286	344	296	42	20	11

* 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	1928			1929			1930		
			September	October	November	September	October	November	September	October	November
PRODUCTION—Continued											
FOREST PRODUCTS											
Total.....	112	60	77	87	84	80	89	81	62	68	66
Lumber.....	112	58	77	84	79	79	86	77	58	64	60
Pulpwood.....	151	54	68	108	116	74	110	113	79	94	117
Gum (rosin and turpentine)*.....	204	18	129	128	119	157	130	142	158	143	113
Distilled wood.....	148	47	70	93	104	90	108	101	50	60	67
NEW ORDERS											
Total.....	138	51	95	96	102	89	98	73	60	59	51
Textiles.....	179	56	99	116	113	103	112	89	74	90	71
Iron and steel.....	158	58	124	117	114	109	118	79	70	68	58
Lumber.....	141	41	92	89	99	81	73	63	54	45	41
Paper and printing.....	128	85	109	113	114	117	124	106	100	105	105
Stone and clay products.....	129	53	93	119	101	89	95	84	64	66	53
STOCKS											
Grand total.....	162	82	116	133	138	139	155	157	145	157	162
Total manufactured goods.....	128	88	112	112	115	114	114	116	119	119	120
Foodstuffs.....	144	79	105	93	87	127	111	104	110	99	93
Textiles.....	139	78	118	113	118	115	121	121	97	97	97
Iron and steel.....	158	78	130	135	143	135	134	134	145	147	146
Nonferrous metals.....	234	74	125	123	125	136	143	150	223	234	231
Lumber.....	125	78	104	103	107	104	108	113	108	110	114
Stone, clay, etc.....	198	62	135	121	144	121	126	147	153	150	164
Leather.....	123	66	73	74	75	69	70	74	80	82	83
Rubber.....	199	77	130	149	156	144	145	146	116	118	119
Paper.....	156	46	137	139	133	101	102	90	118	127	122
Chemicals and oils.....	141	84	102	108	112	113	121	124	121	125	127
Total raw materials.....	193	68	119	149	154	158	185	186	164	185	193
Foodstuffs.....	230	68	145	157	155	222	230	219	198	197	200
Textiles.....	215	43	95	149	170	113	173	194	155	215	238
Metals.....	304	54	116	133	126	111	119	122	134	134	140
Chemicals and oils.....	146	72	108	139	136	115	134	129	120	133	126
UNFILED ORDERS											
Total.....	157	64	75	72	74	77	77	74	69	64	64
Textiles.....	154	31	69	73	72	64	59	55	35	36	35
Iron and steel.....	159	63	75	75	76	79	80	81	68	67	70
Transportation equipment.....	204	35	60	62	49	86	121	113	99	84	81
Lumber.....	142	52	84	69	84	84	66	58	79	72	69
RETAIL TRADE											
Mail-order houses (2 houses).....	275	68	155	194	188	193	242	225	166	211	170
CHAIN STORES:											
Ten-cent.....	308	62	144	164	158	147	176	174	147	168	159
Restaurant.....	116	87	100	104	100	109	114	110	101	106	100
DEPARTMENT STORES:											
Sales.....	189	71	113	118	125	117	122	125	103	112	112
Stocks.....	117	83	103	112	115	104	112	115	95	101	104
COST OF LIVING											
National Industrial Conference Board Indexes											
(Relative to July, 1914)											
All items weighted.....	172	150	163	163	163	163	163	163	153	152	150
Food (Department of Labor).....	167	141	158	157	157	161	161	160	146	144	141
Shelter.....	186	152	161	161	160	160	160	159	154	153	152
Clothing.....	177	149	174	173	172	168	168	168	154	151	149
Fuel and light (combined).....	179	156	160	161	162	159	161	162	158	159	159
Fuel.....	208	174	180	182	183	180	182	183	178	180	180
Light.....	123	118	121	121	121	120	120	120	119	119	119
Sundries.....	176	165	171	171	171	169	170	170	165	166	165

* 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 monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1928			1929			1930		
			September	October	November	September	October	November	September	October	November
EMPLOYMENT											
(Relative to 1923-1925 monthly average as 100)											
Number employed, by industries:											
Total, all classes.....	106	81	100	100	99	105	103	99	86	84	81
Iron and steel.....	108	80	96	97	98	101	99	97	82	82	80
Machinery.....	122	85	101	103	104	120	119	115	90	87	85
Textiles.....	111	77	93	96	96	98	100	97	82	82	80
Food products.....	109	93	101	103	102	102	104	102	95	95	94
Paper and printing.....	107	96	101	102	104	106	106	107	99	99	98
Lumber and products.....	104	62	90	91	91	92	90	87	65	64	62
Transportation equipment—											
Group.....	110	65	95	94	90	95	90	83	70	67	65
Automobiles.....	131	68	122	120	109	113	101	84	73	70	68
Leather and products.....	112	77	96	95	89	100	99	94	86	83	77
Cement, clay, and glass.....	107	70	96	94	92	94	92	89	75	73	70
Nonferrous metals.....	113	71	98	100	102	99	98	94	73	72	71
Chemicals—											
Group.....	119	90	107	107	107	115	116	114	103	101	99
Petroleum refining.....	125	95	106	104	104	124	125	124	109	104	100
Rubber products.....	117	73	113	113	110	108	103	91	77	75	73
Tobacco products.....	109	84	97	99	99	94	95	96	88	88	87
Amount of pay roll, by industries:											
Total, all classes.....	112	75	104	108	104	112	111	103	83	81	75
Iron and steel.....	114	69	99	105	105	109	108	100	75	76	69
Machinery.....	132	75	106	111	110	128	129	122	84	81	75
Textiles.....	111	69	95	101	97	103	105	96	81	80	73
Food products.....	109	94	104	106	105	108	109	106	101	98	97
Paper and printing.....	118	92	100	112	112	116	118	117	106	105	105
Lumber and products.....	107	55	93	96	94	97	97	89	61	60	55
Transportation equipment—											
Group.....	117	61	100	105	96	103	100	89	66	63	61
Automobiles.....	152	57	129	134	115	120	108	84	62	58	57
Leather and products.....	116	55	100	96	80	104	100	84	76	70	55
Cement, clay, and glass.....	108	61	93	94	91	91	91	86	66	66	61
Nonferrous metals.....	128	67	109	117	119	112	113	100	71	69	67
Chemicals—											
Group.....	118	90	106	109	108	116	118	116	101	100	96
Petroleum refining.....	129	90	109	108	107	129	129	126	114	109	103
Rubber products.....	150	59	124	120	112	105	101	86	72	66	59
Tobacco products.....	111	76	93	95	94	93	94	94	80	78	77
WHOLESALE PRICES											
Department of Labor Indexes											
(Relative to 1926 monthly average as 100)											
All commodities.....	105	80	100	98	97	98	96	94	84	83	80
Farm products.....	114	79	109	104	102	107	104	101	85	83	79
Food, etc.....	107	86	107	102	100	103	101	99	89	89	86
Hides and leather products.....	127	94	121	118	116	111	111	108	99	97	94
Textile products.....	114	73	96	96	96	93	93	92	76	74	73
Fuel and lighting.....	112	72	85	85	84	81	82	82	76	75	72
Metals and metal products.....	113	90	101	101	102	104	104	102	92	90	90
Building materials.....	116	86	95	95	96	98	98	96	86	86	86
Chemicals.....	104	85	95	96	96	94	94	94	87	86	85
House-furnishing goods.....	111	95	97	97	96	97	97	97	95	95	95
Miscellaneous.....	127	68	80	80	80	82	81	80	70	69	68
Classified by condition of manufacture:											
Semimanufactured articles.....	128	76	97	97	97	98	98	96	77	76	76
Finished products.....	103	84	101	99	97	97	96	94	87	86	84
Raw materials.....	109	77	101	97	96	99	97	95	82	80	77
All commodities except farm and food products.....	111	80	94	94	94	93	93	92	83	82	80
Commercial Indexes											
(Relative to 1926 monthly average as 100)											
Dun's.....	106	85	103	102	103	102	101	100	89	88	86
Bradstreet's.....	112	76	102	101	102	98	96	95	80	78	76

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maxim-um since Jan. 1, 1923	Mini-mum since Jan. 1, 1923	1928			1929			1930		
			Septem-ber	October	Novem-ber	Septem-ber	October	Novem-ber	Septem-ber	October	Novem-ber
PRICE INDEX NUMBERS											
FARM PRICES											
(Relative to 1909-1914 average as 100)											
All groups.....	152	103	141	137	134	141	140	136	111	106	103
Grains.....	178	80	117	116	110	131	128	118	100	92	80
Fruits and vegetables.....	253	108	127	114	109	160	168	159	148	127	114
Meat animals.....	174	98	174	160	150	156	151	144	128	123	118
Dairy and poultry.....	166	120	145	150	155	146	151	157	123	126	130
Cotton and cottonseed.....	252	76	142	147	146	146	141	132	83	76	80
Unclassified.....	108	67	85	83	86	85	89	90	67	70	73

SALES OF THE GREAT ATLANTIC & PACIFIC TEA CO.¹

YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES		YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES	
	Total	Number of weeks	Weekly average	Total	Weekly average		Total	Number of weeks	Weekly average	Total	Weekly average
1928						1929					
September.....	\$69,336	4	\$17,334	309,451	77,363	November.....	\$83,714	4	\$20,928	381,106	95,277
October.....	93,429	5	18,686	419,079	83,816	December.....	87,260	4	21,815	407,339	101,835
November.....	73,844	4	18,461	333,704	84,676	1930					
December.....	74,911	4	18,728	345,595	86,399	January.....	104,271	5	20,854	492,425	98,485
1929						February.....	86,122	4	21,530	400,568	100,146
January.....	91,983	5	18,397	425,590	85,118	March.....	83,976	4	20,994	395,331	98,834
February.....	85,846	4	21,462	396,225	99,056	April.....	86,138	4	21,534	404,319	101,080
March.....	77,712	4	19,428	363,786	90,947	May.....	104,671	5	20,934	503,976	100,791
April.....	77,324	4	19,331	359,129	89,782	June.....	82,882	4	20,721	407,085	101,776
May.....	97,319	5	19,464	451,680	90,336	July.....	96,724	5	19,345	488,682	97,735
June.....	76,653	4	19,163	353,289	88,322	August.....	78,363	4	19,591	389,113	97,278
July.....	93,671	5	18,734	427,431	85,486	September.....	77,023	4	19,256	378,627	94,657
August.....	75,191	4	18,798	335,623	83,907	October.....	100,960	5	20,192	495,509	99,102
September.....	75,246	4	18,811	336,309	84,077	November.....	79,820	4	19,955	399,742	99,935
October.....	105,995	5	21,199	468,258	93,102						

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

AUTOMOBILE FINANCING¹

	WHOLE-SALE FINANCING	RETAIL FINANCING															
		TOTAL				NEW CARS				USED CARS				UNCLASSIFIED			
		Volume in dollars	Number of cars	Volume and average		Number of cars	Volume and average		Number of cars	Volume and average		Number of cars	Volume and average				
				Total amount	Per car		Total amount	Per car		Total amount	Per car		Total amount	Per car			
1929																	
January.....	\$36,899,813	157,282	\$75,691,601	\$481	78,633	\$48,765,872	\$620	69,031	\$22,783,830	\$330	9,618	\$4,141,899	\$431				
February.....	47,962,644	191,078	91,241,901	478	103,680	61,978,964	598	76,724	24,663,101	321	10,674	4,599,836	431				
March.....	61,170,730	305,839	142,117,146	465	166,455	96,881,494	582	121,512	37,906,986	312	17,872	7,328,666	410				
April.....	74,884,909	411,755	172,811,264	420	205,603	116,938,139	569	185,340	47,221,842	255	20,812	8,651,283	416				
May.....	72,291,505	402,897	184,938,915	459	213,125	125,283,993	588	169,103	51,103,985	302	20,669	8,550,937	414				
June.....	63,412,417	387,157	180,098,333	465	204,174	122,037,943	598	164,385	50,379,886	306	18,598	7,680,504	413				
July.....	61,839,467	391,461	180,845,490	462	211,707	124,761,957	589	162,723	49,104,714	302	17,031	6,978,819	410				
August.....	69,959,084	350,477	163,896,492	468	184,365	111,299,259	604	149,858	45,849,948	306	16,254	6,747,285	415				
September.....	60,194,621	300,901	129,447,399	430	158,364	93,950,905	593	127,948	29,558,269	231	14,589	5,938,225	407				
October.....	63,640,986	278,258	126,590,020	455	132,453	80,372,682	607	135,060	41,724,621	309	10,745	4,492,717	418				
Total (10 months).....	612,256,176	3,177,105	1,447,678,561	456	1,658,559	982,271,208	592	1,361,684	400,297,182	294	156,862	65,110,171	415				
November.....	(?)	210,834	95,000,640	451	96,392	58,245,687	604	104,211	32,260,075	310	10,231	4,494,878	439				
December.....	(?)	171,890	80,089,099	466	74,332	48,061,493	647	89,943	28,674,443	319	7,615	3,353,163	440				
Total (year).....		3,559,829	1,622,768,300	456	1,829,283	1,088,578,388	595	1,555,838	461,231,700	296	174,708	72,958,212	418				
1930																	
January.....	52,447,062	166,151	73,618,802	443	78,729	45,244,894	575	81,012	25,595,605	316	6,410	2,778,303	433				
February.....	61,244,849	199,947	85,769,608	429	95,600	58,010,774	555	95,786	29,206,443	305	8,561	3,552,391	415				
March.....	77,547,823	316,029	123,786,111	392	139,387	77,331,961	555	166,898	42,477,905	255	9,744	3,976,245	408				
April.....	85,345,770	346,083	146,986,679	425	171,320	94,085,514	549	164,374	48,853,748	297	10,389	4,047,417	390				
May.....	83,659,772	349,136	141,307,160	405	170,005	94,235,699	554	168,488	42,805,413	254	10,643	4,266,048	401				
June.....	53,802,394	341,487	138,520,036	406	159,942	91,277,619	571	170,799	43,074,019	252	10,746	4,168,398	388				
July.....	55,429,935	287,444	119,044,282	414	130,926	73,595,951	562	150,138	42,780,448	285	6,380	2,667,883	418				
August.....	45,411,119	247,574	102,530,439	414	111,334	63,143,583	567	129,997	37,222,086	286	6,243	2,164,770	347				
September.....	45,386,952	219,677	90,466,172	412	92,367	52,961,856	573	121,857	35,266,081	289	5,453	2,238,235	410				
October.....	35,962,248	*201,458	81,503,844	405	78,605	45,750,651	582	118,528	33,851,802	286	4,325	1,901,391	440				
Total (10 months).....	596,237,924	2,674,986	1,103,533,133	413	1,228,215	690,638,502	562	1,367,877	381,133,550	279	78,894	31,761,081	403				

¹ Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 492 financing organizations. Some of the smaller organizations found it impossible to segregate their operations, their totals being shown in the unclassified group. This summary revises previous tables shown in the survey due to the addition of 27 organizations.

* Data not available.

² Of this number 39 per cent were new cars, 50 per cent used cars, and 2 per cent unclassified.

SULPHURIC ACID ¹

Short tons

Date	Produced by reporting concerns			Purchased from non-fertilizer producers			Consumption in making fertilizer, including shipments to other fertilizer producers			Shipments to other than fertilizer manufacturers			Stocks at end of period		
	Total United States	Northern district	Southern district	Total United States	Northern district	Southern district	Total United States	Northern district	Southern district	Total United States	Northern district	Southern district	Total United States	Northern district	Southern district
1929															
January	204,995	107,059	97,936	43,180	27,024	16,156	238,452	118,157	120,295	35,030	25,344	9,086	107,677	68,994	38,683
February	195,690	103,167	92,523	36,044	16,997	19,047	196,082	97,085	99,597	35,671	27,165	8,506	119,584	69,941	49,643
March	182,866	96,089	86,777	32,839	18,210	14,629	190,438	90,225	106,213	39,497	31,411	8,086	108,541	62,530	46,011
April	166,488	98,560	67,928	40,887	29,328	20,559	192,768	94,211	98,557	46,686	40,660	6,020	93,346	52,144	41,202
May	164,058	98,267	65,791	42,072	26,416	15,656	181,869	95,948	85,921	38,027	31,693	6,334	91,559	54,758	36,781
June	161,058	92,294	68,764	47,502	27,219	20,285	193,053	98,872	94,181	37,500	31,318	6,182	91,609	54,457	37,152
July	146,132	80,537	65,595	43,593	27,152	16,441	185,813	94,947	90,866	33,664	27,136	6,528	87,939	52,501	35,438
August	183,443	104,674	78,769	42,509	21,427	21,082	206,645	100,891	105,764	44,393	36,040	8,353	91,455	57,413	34,042
September	171,826	95,853	75,973	30,879	9,339	21,540	178,676	68,170	110,506	38,260	30,357	7,873	96,565	61,498	35,072
October	205,392	109,917	95,475	39,396	19,986	19,410	218,578	104,070	114,508	40,793	34,049	6,744	91,857	61,356	30,501
November	194,376	101,060	93,316	34,598	20,309	14,289	208,716	93,919	114,797	31,063	25,150	5,913	108,817	72,338	36,479
December	190,574	93,473	97,101	37,155	28,973	8,182	220,790	107,241	113,549	29,917	24,089	5,828	113,577	73,789	39,788
Total	2,166,898	1,180,950	985,948	470,654	263,380	207,274	2,418,480	1,163,736	1,254,744	450,501	364,442	86,059			
1930															
January	198,852	98,964	99,888	43,232	21,823	21,409	246,040	105,439	140,601	35,689	28,426	7,263	100,822	66,991	33,831
February	191,778	98,467	93,311	37,399	19,246	18,153	229,234	101,537	118,697	32,779	27,544	5,235	95,905	59,199	36,706
March	188,968	102,443	86,525	28,942	17,882	11,060	201,744	102,541	99,203	37,294	30,540	6,754	95,296	56,579	38,717
April	181,077	102,795	77,282	25,455	14,201	11,254	201,943	105,525	96,468	32,287	26,913	5,374	84,490	50,920	33,570
May	188,887	108,004	80,883	36,593	20,768	15,825	210,992	111,486	99,293	32,095	26,152	5,943	86,196	51,435	34,761
June	164,553	94,494	70,059	46,286	26,715	19,571	190,203	100,904	89,298	31,695	28,750	4,945	91,629	53,745	38,184
July	150,153	85,686	64,472	37,903	25,822	12,921	209,863	111,318	89,545	30,218	25,074	5,144	86,316	56,367	29,949
August	172,667	100,029	72,638	27,457	14,548	12,409	183,645	91,607	92,038	25,822	20,934	4,888	94,284	62,260	32,024
September	169,534	96,165	73,369	30,543	12,909	17,634	178,933	77,637	101,296	27,993	23,360	4,633	109,018	73,354	35,664
October	192,187	110,185	82,002	35,602	19,199	16,403	221,650	108,469	116,181	36,544	31,555	4,989	109,207	74,739	34,468

¹ Compiled by the Department of Commerce, Bureau of the Census, as reported by 75 superphosphate manufacturers operating 104 plants.

SUPERPHOSPHATES ¹

(Short tons)

Date	PRODUCTION (BULK SUPERPHOSPHATE)			SHIPMENTS TO CONSUMERS, ETC.			STOCKS END OF PERIOD					
	Total United States	Northern district	Southern district	Total United States	Northern district	Southern district	Bulk superphosphate			Wet base and mixed goods		
							Total United States	Northern district	Southern district	Total United States	Northern district	Southern district
1929												
January	408,544	196,532	212,012	44,372	15,872	28,500	1,550,861	593,582	957,279	1,372,786	670,974	701,812
February	322,313	160,410	161,903	128,242	69,919	58,323	1,479,382	594,060	885,322	1,435,218	709,944	725,274
March	320,391	162,140	158,251	340,733	128,333	212,400	1,077,839	510,428	567,411	876,614	507,386	369,228
April	357,787	195,209	162,578	372,216	172,195	200,021	659,332	385,301	274,031	417,642	293,629	124,013
May	345,916	188,868	157,048	114,672	79,465	35,207	727,126	408,745	318,381	282,773	175,823	106,950
June	370,195	186,679	183,516	52,743	26,058	26,685	875,896	457,117	418,779	303,210	183,635	119,675
July	358,656	194,419	164,237	29,623	22,595	7,028	1,009,802	485,291	524,511	484,296	309,613	174,683
August	364,961	174,342	190,619	31,264	27,042	4,222	1,084,381	471,495	612,886	607,721	384,148	223,573
September	304,736	124,507	180,229	134,111	111,495	22,616	1,122,777	449,017	673,760	545,346	265,055	280,291
October	392,323	187,726	204,597	62,401	44,452	17,949	1,234,084	496,272	737,812	732,752	344,188	388,564
November	369,798	185,429	184,369	36,850	22,764	14,086	1,298,270	533,982	764,288	998,568	491,490	507,078
December	379,347	192,420	186,927	33,338	24,085	9,253	1,313,828	533,854	779,974	1,309,689	669,092	640,597
Total (year)	4,294,967	2,148,681	2,146,286	1,380,565	744,275	636,290						
1930												
January	476,130	200,054	276,076	76,184	41,547	34,637	1,386,672	546,672	840,000	1,302,471	516,924	785,547
February	393,150	187,259	205,891	103,908	44,414	59,494	1,238,863	525,389	713,474	1,320,137	580,391	739,746
March	372,899	199,125	173,774	327,900	126,707	201,193	939,683	441,710	497,973	935,592	447,899	487,693
April	388,241	190,166	198,075	366,207	169,101	197,106	1,221,258	333,815	287,443	389,216	229,159	160,057
May	384,229	194,976	189,253	151,878	111,208	40,670	726,291	351,342	384,949	284,544	137,786	146,768
June	349,179	192,520	156,659	36,467	29,339	7,128	894,449	392,549	501,900	330,888	184,915	145,973
July	366,322	190,124	176,198	24,171	22,404	1,767	1,071,028	416,739	654,289	473,452	295,501	177,951
August	333,948	171,852	162,096	25,121	22,378	2,743	1,206,145	455,536	750,609	568,865	350,503	218,262
September	328,735	147,255	181,480	117,978	104,818	13,160	1,288,547	431,802	826,745	450,581	167,906	282,675
October	394,265	174,976	219,289	74,790	42,691	32,099	1,347,561	464,276	883,285	627,570	225,101	402,469

¹ Compiled by the Department of Commerce, Bureau of the Census, as reported by 83 manufacturers, operating 154 plants.

URBAN AND RURAL POPULATION OF THE UNITED STATES ¹

Division and State	1930			1920		Per cent urban	
	Total	Urban	Rural	Urban	Rural	1930	1920
United States.....	122,775,046	68,955,521	53,819,525	54,304,603	51,406,107	56.2	51.4
New England:							
Maine.....	797,423	321,506	475,917	299,569	468,445	40.3	39.0
New Hampshire.....	465,293	273,079	192,214	279,761	163,322	58.7	63.1
Vermont.....	359,611	118,766	240,845	109,976	242,452	38.0	31.2
Massachusetts.....	4,249,614	3,831,426	418,188	3,650,248	292,108	90.2	94.8
Rhode Island.....	687,497	635,429	52,068	589,150	15,217	92.4	97.5
Connecticut.....	1,606,908	1,131,770	475,133	936,339	444,292	70.4	67.8
Middle Atlantic:							
New York.....	12,588,066	10,521,952	2,066,114	8,589,844	1,795,383	83.6	82.7
New Jersey.....	4,041,334	3,339,244	702,090	2,474,936	680,964	82.6	78.4
Pennsylvania.....	9,631,350	6,534,211	3,097,139	5,607,815	3,112,202	67.8	64.3
East North Central:							
Ohio.....	6,646,697	4,507,371	2,139,326	3,677,136	2,082,258	67.8	63.8
Indiana.....	3,238,503	1,795,892	1,442,611	1,482,855	1,447,535	55.5	50.6
Illinois.....	7,630,654	5,635,727	1,994,927	4,403,153	2,082,127	73.9	67.9
Michigan.....	4,842,325	3,302,075	1,540,250	2,241,560	1,426,852	68.2	61.1
Wisconsin.....	2,939,006	1,553,843	1,385,163	1,244,568	1,387,499	52.9	47.3
West North Central:							
Minnesota.....	2,563,953	1,257,616	1,306,337	1,051,593	1,335,532	49.0	44.1
Iowa.....	2,470,939	979,292	1,491,647	875,495	1,528,526	39.6	36.4
Missouri.....	3,629,367	1,859,119	1,770,248	1,586,903	1,817,152	51.2	46.6
North Dakota.....	680,845	113,306	567,539	88,239	558,633	16.6	13.6
South Dakota.....	692,849	130,907	561,942	101,872	534,675	18.9	16.0
Nebraska.....	1,377,963	486,107	891,856	405,306	891,066	35.3	31.3
Kansas.....	1,880,999	729,834	1,151,165	617,964	1,151,293	38.8	34.9
South Atlantic:							
Delaware.....	238,380	123,146	115,234	120,767	102,236	51.7	54.2
Maryland.....	1,631,526	974,869	656,657	869,422	580,239	59.8	60.0
District of Columbia.....	486,869	486,869	486,869	437,571	437,571	100.0	100.0
Virginia.....	2,421,851	785,537	1,636,314	673,984	1,635,203	32.4	29.2
West Virginia.....	1,729,205	491,504	1,237,701	309,007	1,094,694	28.4	25.2
North Carolina.....	3,170,276	809,847	2,360,429	490,370	2,068,753	25.5	19.2
South Carolina.....	1,738,765	371,080	1,367,685	293,987	1,389,737	21.3	17.5
Georgia.....	2,908,506	895,490	2,013,016	727,859	2,167,973	30.8	25.1
Florida.....	1,468,211	759,778	708,433	355,825	612,645	51.7	36.7
East South Central:							
Kentucky.....	2,614,589	799,026	1,815,563	633,543	1,783,087	30.6	26.2
Tennessee.....	2,616,566	896,538	1,720,028	611,226	1,726,659	34.3	26.1
Alabama.....	2,646,248	744,273	1,901,975	509,317	1,838,857	28.1	21.7
Mississippi.....	2,009,821	338,850	1,670,971	240,121	1,550,497	16.9	13.4
West South Central:							
Arkansas.....	1,854,482	382,878	1,471,604	290,497	1,461,707	20.6	16.6
Louisiana.....	2,101,593	833,532	1,268,061	628,163	1,170,346	39.7	34.9
Oklahoma.....	2,396,040	821,681	1,574,359	539,480	1,488,803	34.3	26.6
Texas.....	5,824,715	2,389,348	3,435,367	1,512,689	3,150,539	41.0	32.4
Mountain:							
Montana.....	537,606	181,036	356,570	172,011	376,878	33.7	31.3
Idaho.....	445,032	129,507	315,525	119,037	312,829	29.1	27.6
Wyoming.....	225,565	70,097	155,468	57,348	137,054	31.1	29.5
Colorado.....	1,035,791	519,882	515,909	453,259	486,370	50.2	48.2
New Mexico.....	423,317	106,816	316,501	64,960	295,390	25.2	18.0
Arizona.....	435,573	149,856	285,717	117,527	216,635	34.4	35.2
Utah.....	507,847	266,264	241,583	215,584	233,812	52.4	48.0
Nevada.....	91,058	34,464	56,594	15,254	62,153	37.8	19.7
Pacific:							
Washington.....	1,563,396	884,539	678,857	748,735	607,886	56.6	55.2
Oregon.....	953,786	489,746	464,040	391,019	392,370	51.3	49.9
California.....	5,677,251	4,160,596	1,516,655	2,331,729	1,095,132	73.3	68.0

¹ Compiled by the *Department of Commerce, Bureau of the Census*, and represents the division of population as between the urban and rural sections of the country. Urban population as heretofore defined by the Census Bureau has included all cities and other incorporated places having 2,500 inhabitants or more. For use in connection with the 1930 census the definition has been extended to include townships and other political subdivisions (not incorporated municipalities) that had a population of 10,000 or more and a population of 10,000 or more per square mile.

PLASTIC PAINTS, COLD-WATER PAINTS, AND CALCIMINES ¹

Date	PLASTIC PAINTS				COLD-WATER PAINTS, PASTE FORM		CALCIMINES, DRY POWDER FORM	
	PASTE FORM		DRY POWDER FORM		Pounds	Value	Pounds	Value
	Pounds	Value	Pounds	Value				
1930								
January.....	283,750	\$39,166	578,473	\$62,915	1,084,219	\$58,646	3,603,984	\$160,012
February.....	372,414	52,784	649,825	74,481	1,035,729	59,698	3,920,903	172,348
March.....	432,437	58,692	856,752	96,046	1,240,891	61,172	4,386,944	188,396
April.....	420,589	56,973	794,890	89,446	1,624,731	85,236	4,674,330	203,612
May.....	331,629	46,067	654,238	70,738	1,443,082	82,251	4,755,317	215,842
June.....	285,525	40,515	496,007	57,873	1,456,385	82,654	4,042,721	175,960
July.....	280,952	36,275	634,575	71,036	1,135,120	63,017	3,751,129	163,445
August.....	289,475	37,201	582,719	67,997	1,364,574	79,277	3,630,966	154,529
September.....	343,909	44,823	512,921	56,292	1,108,178	53,788	2,612,968	106,329
October.....	341,675	39,766	597,811	68,600	986,528	57,519	4,427,907	198,559

¹ Compiled by the *Bureau of the Census, Department of Commerce*, and represent the sales of plastic paints, cold-water paints, and calcimines, as reported by 28 leading manufacturers.

PROSPECTIVE CAR LOADINGS, FIRST QUARTER OF 1931

Commodity loadings by railroads in carload lots for the first quarter of 1931 are estimated by the regional advisory boards set up by the American Railway Association at somewhat more than 5 per cent below the corresponding period of 1930. These estimates are compiled from detailed reports of committees representing shippers of the various commodities, as first described in the August, 1927, issue of the Survey of Current Business, page 20, and are comparable with similar data published currently since that time. The boundaries of the various economic districts set up by these boards are shown in a chart appearing on page 21 of the October number.

The estimated decline from a year ago is largely due to the decrease in the loadings of ore and concentrates, lumber and forest products, iron and steel, machinery and boilers, agricultural implements, and automobiles. Large decreases are also anticipated in the loadings of cotton, potatoes, livestock, gravel, sand and stone,

salt, cement, brick and clay, lime and plaster. Included among the principal increases are loadings of citrus fruits and other fresh fruits.

Although declines were estimated for the country as a whole for the first quarter of this year, in comparison with a year ago material gains were anticipated in the loadings of petroleum and petroleum products in the New England district and farm products in the Atlantic States, Great Lakes, trans-Missouri-Kansas, Southeast, Western, and Pacific Coast districts.

In the Pacific Northwest district, comprising the States of Washington, Oregon, and Idaho, although as a whole showing a decline of 13 per cent from a year ago, many marked increases in the loadings of various commodities will occur. Among those that stand out are the anticipated loadings of fresh fruits, potatoes, fresh vegetables, poultry and dairy products, cement, fertilizers and chemicals, and explosives.

PROSPECTIVE CAR LOADINGS, FIRST QUARTER OF 1931

COMPARED WITH ACTUAL LOADINGS, SAME QUARTER OF 1930

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

Item No.	COMMODITY GROUPS	Number of cars			Per cent inc. (+) or dec. (-)	Number of cars			Per cent inc. (+) or dec. (-)	Number of cars			Per cent inc. (+) or dec. (-)
		Actual 1930		Esti- mated 1931		Actual 1930		Esti- mated 1931		Actual 1930		Esti- mated 1931	
		Actual 1930	Esti- mated 1931	Actual 1930		Esti- mated 1931	Actual 1930	Esti- mated 1931		Actual 1930	Esti- mated 1931		
ALL DISTRICTS				District No. 12 NEW ENGLAND			District No. 8 ATLANTIC STATES			District No. 9 ALLEGHENY			
1	Grain, all.....	298,688	302,316	+1.2	3,120	3,120	-----	4,244	4,028	-5.1	630	500	-20.6
2	Flour, meal, and other mill products.....	244,824	242,076	-1.1	4,617	4,617	-----	11,987	12,874	+7.4	1,772	1,600	-15.3
3	Hay, straw, and alfalfa.....	79,197	76,722	-3.1	1,585	1,585	-----	8,883	9,576	+7.8	1,045	800	-23.4
4	Cotton.....	51,134	48,000	-6.1	1,226	1,226	-----	-----	-----	-----	-----	-----	-----
5	Cottonseed and products, except oil.....	52,777	51,270	-2.9	14	14	-----	-----	-----	-----	-----	-----	-----
6	Citrus fruits.....	35,798	50,312	+40.5	88	88	-----	-----	-----	-----	-----	-----	-----
7	Other fresh fruits.....	41,703	46,085	+10.5	1,396	1,396	-----	10,628	11,956	+12.5	703	600	-14.7
8	Potatoes.....	65,664	62,389	-5.0	19,729	13,810	-30.0	4,757	5,708	+20.0	154	100	-35.1
9	Other fresh vegetables.....	67,164	68,572	+2.1	449	449	-----	4,895	5,042	+3.0	75	60	-20.0
10	Livestock.....	310,818	295,691	-4.9	808	525	-35.0	-----	-----	-----	716	600	-16.2
11	Poultry and dairy products.....	33,763	32,811	-2.8	107	105	-2.0	1,353	1,252	-7.5	-----	-----	-----
12	Coal and coke.....	2,473,227	2,379,632	-3.8	26,911	25,835	-4.0	347,278	368,462	+6.1	585,289	584,118	-0.2
13	Ore and concentrates.....	120,359	103,021	-14.4	451	451	-----	24,106	23,503	-2.5	-----	-----	-----
14	Gravel, sand, and stone.....	359,354	342,065	-4.8	3,100	2,686	-15.0	34,840	28,116	-19.3	34,427	29,607	-14.0
15	Salt.....	30,182	28,399	-5.9	36	36	-----	7,703	7,164	-7.0	-----	-----	-----
16	Lumber and forest products.....	768,825	664,774	-13.5	35,089	33,335	-5.0	35,309	31,779	-10.0	17,080	12,810	-25.0
17	Petroleum and petroleum products.....	553,425	551,055	-0.4	22,200	23,754	+7.0	61,476	63,013	+2.5	19,639	18,205	-7.3
18	Sugar, syrup and molasses.....	42,436	42,013	-1.0	1,746	1,746	-----	10,883	10,959	+0.7	-----	-----	-----
19	Iron and steel.....	463,926	403,739	-13.0	5,252	4,307	-18.0	70,073	56,058	-20.0	205,775	189,930	-7.7
20	Machinery and boilers.....	50,186	39,714	-20.9	4,504	2,252	-50.0	12,559	10,047	-20.0	6,847	5,217	-23.8
21	Cement.....	95,459	88,678	-7.1	1,464	1,508	+3.0	26,909	24,218	-10.0	3,995	3,763	-5.8
22	Brick and clay products.....	108,377	99,038	-8.6	1,798	1,528	-15.0	8,449	7,182	-15.0	32,460	27,753	-14.5
23	Lime and plaster.....	43,200	39,967	-7.5	2,632	2,211	-16.0	9,227	9,227	-----	3,654	3,537	-3.2
24	Agricultural implements and vehicles, other than automobiles.....	38,563	30,583	-20.7	152	152	-----	-----	-----	-----	96	87	-9.4
25	Automobiles, trucks, and parts.....	185,753	160,805	-13.4	1,333	1,333	-----	5,955	5,778	-3.0	829	739	-10.9
26	Fertilizers, all kinds.....	166,483	153,967	-7.5	6,819	6,819	-----	17,011	16,365	-3.8	5,080	4,328	-14.8
27	Paper, paper board, and prepared roofing.....	92,829	90,220	-2.8	21,247	20,185	-5.0	18,673	18,356	-1.7	4,879	4,829	-1.0
28	Chemicals and explosives.....	28,589	27,700	-3.1	434	456	+5.0	7,481	6,733	-10.0	7,611	7,055	-7.3
29	Canned goods ¹	46,360	46,851	+1.1	1,401	1,401	-----	10,879	9,802	-9.9	1,585	1,533	-3.3
Total, all commodities listed.....		6,949,063	6,568,456	-4.4	169,768	156,930	-7.6	755,558	747,198	-1.1	934,141	897,671	-3.9

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

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 (August, 1930), in which monthly figures for 1929 and 1930 may be found, together with explanations as to the sources and exact extent of the figures quoted. The figures given below should always be read in connection with those explanations. Data on stocks, unfilled orders, etc., are given as of the end of the month referred to. For explanations of relative numbers, including base periods, see introduction on inside front cover.

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
TEXTILES												
Wool												
Receipts at Boston:												
Total.....thous. of lbs..	7,074	12,739	6,240	19,444	12,148	12,714	10,315	8,090	12,746	301,097	289,227	286,368
Domestic.....thous. of lbs..	4,094	10,494	4,576	16,975	6,931	8,299	7,156	4,598	9,322	238,610	196,703	203,228
Foreign.....thous. of lbs..	2,980	2,245	1,664	2,469	5,217	4,415	3,159	3,492	3,424	62,487	92,524	83,140
Imports:												
In condition imported.....thous. of lbs..	8,817	8,994	8,546	18,158	19,463	19,510	14,510	20,730	15,462	152,609	260,116	224,180
Consumption by textile mills, grease equivalent.....thous. of lbs..	38,083	40,975	31,237	49,755	59,352	46,694	43,492	51,477	50,079	400,097	547,756	492,466
Machinery activity, hourly:												
Looms—												
Wide.....per ct. of hours active..	46	47	47	64	65	59	59	67	70			
Narrow.....per ct. of hours active..	41	44	37	63	66	65	53	66	66			
Carpet and rug.....per ct. of hours active..	36	38	38	66	71	65	62	67	68			
Sets of cards.....per ct. of hours active..	53	54	50	83	85	74	85	93	89			
Combs.....per ct. of hours active..	81	74	65	94	91	82	74	82	81			
Spinning spindles—												
Woolen.....per ct. of hours active..	55	53	52	77	78	69	80	88	85			
Worsted.....per ct. of hours active..	60	62	52	70	72	65	62	68	72			
Prices:												
Raw, territory, fine, scoured.....dolls. per lb..	.76	.75	.72	.92	.90	.88	1.14	1.10	1.12			
Raw, Ohio and Pa. fleeces, 1/2 blood, combing, grease.....dolls. per lb..	.31	.30	.29	.43	.43	.43	.54	.54	.55			
Worsted, yarn.....dolls. per lb..	1.20	1.20	1.20	1.48	1.48	1.43	1.58	1.58	1.55			
Women's dress goods, French serve, 39-in.....dolls. per yd..	.90	.90	.90	.98	.98	.98	.99	.98	.98			
Suiting, 13-oz.....dolls. per yd..	2.413	2.512	2.463	1.601	1.601	1.601	2.008	2.008	2.008			
Cotton												
Production, crop estimate												
.....thous. of bales.....			² 14,243			³ 14,825			⁴ 14,478			
Ginnings.....thous. of bales.....			⁵ 13,260			⁶ 13,457			⁷ 13,144			
Receipts into sight.....thous. of bales..	2,410	3,670	2,749	2,431	4,184	2,682	2,078	3,983	2,942	12,440	13,866	13,179
Imports, unmanufactured.....bales..	3,394	1,747	3,409	23,974	19,815	35,502	18,508	27,840	40,291	252,284	410,361	304,444
Exports, unmanufactured (excl. hinters).....bales..	902,956	1,004,120	907,649	725,876	1,251,300	1,048,760	809,953	1,240,702	1,427,772	5,709,296	6,507,413	7,486,880
Consumption by textile mills.....bales..	394,321	444,494	414,887	545,834	639,759	⁸ 541,153	492,307	616,238	611,173	4,977,367	6,597,206	6,038,769
Stocks, domestic, end of month:												
Totals, mills and warehouses.....thous. of bales..												
Mills.....thous. of bales..	6,215	8,895	9,965	3,999	6,652	⁹ 7,468	3,358	5,828	6,791			
Warehouses.....thous. of bales..	968	1,353	1,567	791	1,356	¹⁰ 1,655	720	1,196	1,567			
Total.....thous. of bales..	5,247	7,542	8,398	3,218	5,296	¹¹ 5,813	2,638	4,632	5,224			
Stocks, world visible, end of month:												
Total.....thous. of bales..	6,707	8,413	9,437	4,381	6,677	7,453	4,114	6,198	7,130			
American.....thous. of bales..	4,892	6,617	7,676	2,652	4,982	5,644	2,563	4,645	5,438			
Machinery activity of spindles:												
Active spindles.....thousands..	26,087	26,154	25,858	30,035	30,107	¹² 29,740	28,209	30,302	30,596			
Total activity.....millions of hours..	5,663	6,239	5,832	7,881	9,004	7,812	6,963	8,698	8,518			
Activity per spindle.....hours..	167	184	173	226	258	226	196	246	241			
Ratio to capacity.....per cent..	73.4	77.1	80.1	103.5	108.8	¹³ 100.7	90.1	103.5	107.4			
Prices:												
To producer.....dolls. per lb..	.099	.092	.096	.182	.175	.162	.176	.181	.178			
In New York, mid-ling.....dolls. per lb..	.109	.107	.110	.189	.186	.175	.185	.196	.199			
Cotton Yarn												
Carded sales yarn:												
Production.....thous. of lbs..	11,148	¹⁴ 15,494	11,787	17,122	18,199	22,013	18,839	17,621	18,675	142,004	207,068	194,387
Stocks, end of month.....thous. of lbs..	12,819	¹⁵ 12,548	12,548	7,423	7,173	7,842	10,248	8,476	8,568			
Unfilled orders, end of month.....thous. of lbs..	33,194	¹⁶ 37,854	38,926	35,833	40,749	37,785	34,836	39,041	44,752			
Prices:												
22/1 cones, Boston.....dolls. per lb..	.242	.235	.254	.357	.359	.346	.358	.372	.375			
40/1s, southern spinning.....dolls. per lb..	.420	.413	.405	.510	.503	.491	.501	.495	.511			
Cotton Goods												
Cotton textiles:												
Production.....thous. of yds..	182,385	228,866	206,633	268,611	283,064	345,146	253,888	284,899	341,841	2,585,671	3,283,647	3,283,889
New orders.....thous. of yds..	291,980	335,801	183,067	371,485	222,196	222,911	387,151	401,953	375,163	2,592,056	3,117,335	3,364,800
Shipments.....thous. of yds..	232,975	270,383	200,661	287,628	265,450	276,377	278,110	307,402	347,949	2,689,823	3,243,964	3,231,756
Stocks, end of month.....thous. of yds..	392,406	350,889	356,861	345,043	362,657	431,426	417,245	394,742	388,634			
Unfilled orders, end of mo.....thous. of yds..	285,427	350,845	333,251	438,952	395,698	342,232	398,005	492,556	519,770			
Cotton cloth:												
Imports.....thous. of sq. yds..	1,920	1,976	1,763	3,972	5,936	5,080	3,139	3,676	4,389	33,892	56,673	55,454
Exports.....thous. of sq. yds..	32,626	34,804	29,273	42,274	43,709	35,720	35,558	57,105	55,212	384,966	522,751	487,716
Fabric for tire manufacture:												
Consumption.....thous. of lbs..	10,917	11,780	8,418	13,469	13,707	10,269	17,797	20,295	17,037	150,454	199,999	206,872
Elastic webbing, shipments.....thous. of dolls..	1,200	1,356	1,000	1,419	1,600	1,413	1,478	1,624	1,462	13,948	17,005	15,465
Prices:												
Print cloth, 64 x 60.....dolls. per yd..	.053	.055	.057	.076	.078	.076	.074	.078	.078			
Sheeting, brown.....dolls. per yd..	.070	.066	.066	.086	.087	.087	.089	.090	.090			

¹⁴ As of Dec. 1.¹⁵ Final estimate for 1929¹⁶ Final estimate for 1928.¹⁷ As of Dec. 13.¹⁸ Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
TEXTILES—Continued												
Cotton Finishing												
White, dyed, and printed (outside mills):												
Billings, finished goods...thous. of yds...	40,631	53,003	40,249	73,116	81,549	63,663	69,805	83,935	82,700	582,918	895,722	822,082
New orders, gray yardage												
.....thous. of yds...	41,618	47,133	38,541	67,991	78,806	57,971	74,483	87,175	82,657	534,889	848,204	817,169
Shipments, finished goods.....cases	26,691	29,260	23,743	43,586	46,173	38,616	45,767	50,984	49,136	361,963	548,072	511,163
Stocks, finished goods, end mo.....cases	22,079	22,392	21,803	35,062	37,635	37,634	33,410	32,046	36,566			
Operating activity per ct. of capacity	46	48	44	61	65	55	61	66	65			
Unfilled orders end of month.....days	2.6	2.1	2.5	4.6	3.9	3.8	5.0	6.0	5.5			
Printed only (mills and outside):												
Production.....thous. of yds...	55,387	69,764	62,005	66,766	82,724	64,727	66,079	77,320	76,289	640,721	844,881	720,439
Stocks, end of month.....thous. of yds...	64,788	65,876	68,817	88,864	87,446	84,924	75,161	73,687	79,437			
Silk												
Imports, raw.....thous. of lbs...	7,887	8,940	7,000	8,811	9,396	8,227	7,218	8,272	7,441	72,167	88,855	80,632
Deliveries (consumption).....bales...	55,649	61,937	57,333	53,274	57,489	50,562	47,797	49,940	47,709	526,802	575,588	525,984
Stocks, end of month:												
At warehouses.....bales...	47,621	51,278	49,238	55,104	64,129	76,452	50,464	49,381	49,806			
At manufacturing plants.....bales...	21,243	22,954	24,929	29,594	28,200	25,872	22,786	26,676	25,373			
Silk-machinery activity:												
Broad looms.....per cent of normal...	80.0	88.2	96.5	100.7	102.6	101.2	92.7	102.0	94.5			
Narrow looms.....per cent of normal...	42.9	36.6		63.1	58.1	57.4	54.0	50.5	51.8			
Spinning spindles.....per cent of normal...	57.7	70.2	75.1	66.8	66.9	66.2	66.9	69.3	60.3			
Prices:												
Raw, Japanese, 13-15, N. Y.												
Deliveries.....dolls. per lb...	2.413	2.512	2.463	5.122	4.925	4.679	5.096	5.145	5.047			
Silk goods, composite.....dolls. per yd...	1.04			1.18	1.18	1.18	1.16	1.10	1.16			
Rayon												
Imports.....thous. of lbs...	153	101	216	1,044	1,540	1,083	924	1,229	1,004	5,586	14,782	10,975
Price, 150 denier, A grade, N. Y.												
.....dolls. per lb...	.95	.95	.95	1.15	1.15	1.15	1.50	1.50	1.50			
Clothing												
Men's and boys' garments cut:												
Suits.....thous. of garments...	1,662	1,654	1,100	2,173	2,067	1,935				20,953	27,346	
Separate trousers.....thous. of garments...	2,071	2,103	1,183	2,490	2,511	2,025				22,450	28,128	
Overcoats.....thous. of garments...	564	555	444	926	877	501				4,183	6,615	
Overalls:												
Cut.....thous. of dozen garments...	326	279	207	386	414	329	332	373	303	3,086	3,896	3,462
Net shipments.....thous. of dozen garments...	289	249	191	352	348	271	313	312	267	2,831	3,504	3,253
Unfilled orders, end of mo.....thous. of dozen garments...	69	51	36	142	138	120	150	162	215			
Hosiery:												
Production.....thous. of dozen pairs...	2,789	3,440	3,005	3,586	4,255	3,770	3,255	3,852	3,810	32,249	40,012	38,224
Net shipments.....thous. of dozen pairs...	3,406	3,783	3,292	4,046	4,427	4,047	3,755	4,166	4,144	32,467	40,216	38,798
Stocks, end of month												
.....thous. of dozen pairs...	7,864	7,627	7,120	7,902	7,736	7,628	8,128	7,849	7,699			
New orders.....thous. of dozen pairs...	3,292	3,889	3,198	4,038	4,521	3,747	3,810	4,342	4,751	32,102	40,551	39,228
Unfilled orders, end of month.....thous. of dozen pairs...	1,876	2,618	2,403	4,160	4,139	3,736	3,957	3,888	4,609			
Knit underwear:												
Production.....thous. of dozen garments...	913	1,132	1,007	1,098	1,414	1,227	1,016	1,297	1,147	11,374	13,136	12,220
Net shipments.....thous. of dozen garments...	1,261	1,365	1,148	1,532	1,564	1,219	1,402	1,514	1,146	11,545	13,276	12,445
Stocks, end of month												
.....thous. of dozen garments...	1,497	1,421	1,273	1,416	1,295	1,258	1,370	1,228	1,164			
New orders.....thous. of dozen garments...	1,049	1,475	1,192	1,459	1,405	1,150	1,213	1,483	1,143	11,559	13,503	12,325
Unfilled orders, end of month.....thous. of dozen garments...	1,140	1,250	1,256	1,783	1,620	1,513	1,696	1,645	1,577			
Burlaps and Fibers												
Imports:												
Burlaps.....thous. of lbs...	39,578	37,940	36,656	33,568	42,067	41,952	43,622	30,874	31,510	553,567	597,904	568,331
Fibers (unmanufactured).....long tons...	13,803	17,958	14,681	22,210	26,613	30,554	21,004	25,615	25,651	231,065	307,959	276,357
Pyroxylin-Coated Textiles												
Pyroxylin spread.....thous. of lbs...	2,963	2,699	2,268	3,812	3,875	2,783	4,844	5,712	5,366	34,821	52,600	56,371
Shipments billed												
.....thous. of linear yards...	2,460	2,480	1,893	3,315	3,529	2,516	3,914	4,499	4,419	29,251	44,345	44,120
Unfilled orders, end of month.....thous. of linear yards...	1,508	1,441	1,413	2,599	2,403	2,045	4,561	3,824	3,316			
Fur												
Sales by dealers.....thous. of dollars...	7,301	5,787	4,520	11,434	8,187	4,163	10,244	12,576	7,960	67,852	122,889	128,535
Buttons												
Fresh-water pearl buttons:												
Production.....ratio to capacity...	36.2	38.8	42.0	46.6	47.4	48.6	47.5	51.0	52.6			
Stocks, end of month.....thous. of gross...	9,061	8,808	8,756	10,926	10,730	10,727	10,593	10,521	10,761			
Imports:												
Buttons—												
Product of Phil-ippines.....thous. of gross...	78	72	65	64	66	59	49	71	74	755	607	898
All other.....thous. of gross...	3			26	6	6	5	7	25			
Shells—												
Mother-of-pearl.....thous. of pounds...	902	354	402	1,073	828	1,355	586	676	848	5,730	7,688	5,670
All other.....thous. of pounds...	164	586	458	116	52	7,042	59	50	260	3,359	8,657	2,253
Tagua nuts.....thous. of pounds...	1,286	1,204	331	2,264	3,015	2,013	1,492	1,361	2,941	11,720	24,966	21,100

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
METAL AND PRODUCTS												
Iron												
Manganese ore, imports												
-----thous. of long tons..	22	18	10	13	25	24	13	26	16	251	306	185
Iron ore:												
Imports.....thous. of long tons..	215	186	74	247	270	269	211	170	223	2,597	2,853	2,248
Shipments from mines												
-----thous. of long tons..	6,488	5,531	1,988	9,547	7,989	3,942	8,748	8,454	4,261	46,583	65,195	53,981
Receipts—												
Lake Erie ports and furnaces.....thous. of long tons..	4,721	4,011	1,634	6,619	6,052	3,119	5,827	6,002	3,598	32,050	45,746	36,942
Other ports.....thous. of long tons..	1,891	1,675	993	2,710	2,267	1,661	2,710	2,580	1,555	14,363	18,767	16,455
Consumption.....thous. of long tons..	3,282	3,050	2,640	5,362	5,366	4,701	4,608	5,025	4,897	42,853	59,569	51,826
Stocks, end of month—												
Total.....thous. of long tons..	38,366	41,092	41,277	38,125	41,135	41,500	35,808	39,555	40,080	-----	-----	-----
At furnaces.....thous. of long tons..	32,323	34,750	34,761	32,360	34,770	35,010	29,708	33,082	33,626	-----	-----	-----
On Lake Erie docks												
-----thous. of long tons..	6,043	6,342	6,466	5,765	6,365	6,490	6,100	6,473	6,454	-----	-----	-----
Pig-iron production:												
Total, United States												
-----thous. of long tons..	2,277	2,165	1,867	3,498	3,588	3,181	3,062	3,374	3,302	29,734	39,449	34,468
Merchant furnaces												
-----thous. of long tons..	407	373	375	635	685	683	585	644	648	5,911	8,089	6,904
Canada.....thous. of long tons..	48	40	46	99	91	87	91	93	95	708	1,008	934
Furnaces in blast, end of month:												
Furnaces.....number.....	123	111	107	205	203	177	197	197	194	-----	-----	-----
Capacity.....long tons per day..	73,525	65,965	60,205	116,405	113,600	98,450	106,755	108,800	108,575	-----	-----	-----
Malleable castings:												
Production.....short tons..	26,528	28,785	26,873	59,087	65,526	46,459	62,665	70,054	63,560	484,331	778,827	720,049
Operating activity												
-----per ct. of capacity.....	27.2	29.0	27.7	61.2	66.7	47.7	66.3	73.4	66.8	-----	-----	-----
Shipments.....short tons..	29,223	29,206	25,747	62,571	58,733	46,487	61,736	63,510	58,346	492,100	770,461	695,866
New orders.....short tons..	26,251	24,171	27,187	52,647	61,164	40,145	61,163	65,780	59,664	449,128	742,403	697,708
Wholesale prices:												
Foundry No. 2, northern												
-----dolls. per long ton..	19.56	18.89	18.76	20.26	20.26	20.26	18.64	18.86	19.39	-----	-----	-----
Basic (valley furnace)												
-----dolls. per long ton..	17.60	17.00	17.00	18.50	18.50	18.50	16.19	17.10	17.50	-----	-----	-----
Composite pig iron												
-----dolls. per long ton..	17.79	17.30	17.14	19.00	19.03	19.10	18.04	18.40	18.96	-----	-----	-----
Cast-Iron Boilers and Radiators												
Round boilers:												
Production.....thous. of lbs.	6,321	8,291	5,910	11,602	15,407	11,430	13,655	17,953	16,846	86,136	127,583	148,703
Shipments.....thous. of lbs.	12,162	17,774	10,041	18,263	23,487	12,162	17,021	22,621	17,362	91,827	135,502	150,281
New orders.....thous. of lbs.	11,894	14,521	9,495	16,936	19,583	10,652	14,504	19,819	13,252	83,836	123,145	145,598
Stocks, end of month.....thous. of lbs.	68,182	59,134	53,686	74,254	66,509	66,476	82,931	78,349	77,785	-----	-----	-----
Square boilers:												
Production.....thous. of lbs.	15,920	23,068	12,858	20,766	32,819	23,521	26,760	30,096	26,770	187,732	256,259	327,239
Shipments.....thous. of lbs.	31,595	39,158	21,480	34,671	43,185	24,382	41,989	52,505	36,328	202,627	242,223	310,366
New orders.....thous. of lbs.	32,259	33,760	21,377	36,481	35,715	23,109	36,527	53,522	28,502	197,550	236,478	311,608
Stocks end of month.....thous. of lbs.	140,508	121,666	115,813	145,716	135,030	134,117	167,063	145,051	135,889	-----	-----	-----
Radiators:												
Production												
-----thous. sq. ft. heating surface..	4,643	5,852	4,791	9,545	12,299	8,634	13,770	12,853	10,825	74,052	120,305	153,671
Shipments												
-----thous. sq. ft. heating surface..	10,347	12,390	9,118	14,980	18,214	12,501	18,092	23,062	19,219	78,674	117,497	147,557
New orders												
-----thous. sq. ft. heating surface..	11,350	11,220	9,089	15,630	16,148	12,648	16,533	23,394	16,931	81,068	120,758	153,270
Stocks, end of month												
-----thous. sq. ft. heating surface..	51,964	45,626	41,420	59,794	53,715	49,500	72,902	63,082	54,776	-----	-----	-----
Gas-fired boilers:												
Shipments.....dollars.....	396,788	445,101	202,835	549,424	522,400	273,092	395,265	351,367	250,315	2,887,483	3,370,648	2,510,193
Shipments.....thous. B. t. u.	334,266	359,206	149,607	459,124	427,629	241,285	322,000	274,760	202,868	2,386,088	2,674,266	2,025,153
Production.....thous. B. t. u.	286,748	250,001	85,328	306,158	317,234	187,095	169,376	187,196	233,073	2,548,592	2,782,110	1,860,673
Stocks, end of mo.....thous. B. t. u.	939,650	884,859	758,964	885,625	808,223	764,098	622,687	596,143	598,513	-----	-----	-----
Copper												
Production:												
Mines.....short tons..	56,584	55,954	53,141	79,402	82,575	75,934	78,341	86,480	85,382	641,745	931,431	823,474
Smelter.....short tons..	68,487	70,419	64,816	92,538	97,405	94,861	85,795	100,720	103,137	796,985	1,089,480	956,708
Refined (N. and S. America).....short tons..	116,004	118,229	112,646	134,343	152,840	145,376	137,018	149,197	155,448	1,353,004	1,673,654	1,479,944
World production, blister.....short tons..	152,405	152,544	139,914	174,135	175,360	170,585	157,518	176,623	183,813	1,623,758	1,970,677	1,737,271
Domestic shipments,												
refined.....short tons..	65,169	75,703	62,693	98,043	105,729	68,979	88,707	100,371	99,822	738,930	1,061,259	898,571
Exports.....short tons..	30,478	30,715	37,773	42,978	44,502	27,524	36,191	45,168	45,730	333,739	455,103	512,111
Stocks (N. and S. America), end mo.:												
Refined.....short tons..	360,650	364,930	369,832	94,751	88,401	126,919	51,812	45,648	52,153	-----	-----	-----
Blister.....short tons..	236,464	240,145	224,531	253,519	254,786	258,192	239,142	241,732	244,854	-----	-----	-----
Wholesale price, electrolytic.....dolls. per lb.	.1031	.0960	.1011	.1778	.1778	.1778	.1472	.1520	.1578	-----	-----	-----
Tin												
Deliveries (consumption).....long tons..	7,250	7,580	6,270	8,120	6,515	6,595	6,885	6,475	7,145	70,730	83,370	71,710
Stocks, end of month:												
World visible supply.....long tons..	40,150	39,676	40,811	24,556	25,580	25,171	19,924	20,907	22,067	-----	-----	-----
United States.....long tons..	4,823	4,823	5,372	2,479	2,720	2,050	3,508	4,598	3,603	-----	-----	-----
Imports.....long tons..	5,523	5,929	6,470	7,712	6,201	5,818	8,222	8,048	6,221	74,119	81,874	72,720
Wholesale price, Straits, N. Y.....dolls. per lb.	.2964	.2686	.2589	.4538	.4235	.4022	.4807	.4901	.5085	-----	-----	-----

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
METAL AND PRODUCTS—Con.												
Zinc												
Retorts in operation, end of month..... number	44,974	41,004	37,492	69,468	67,636	58,723	61,965	59,832	61,544			
Production..... short tons	40,485	40,940	31,976	51,994	54,513	48,411	49,361	50,259	50,260	471,776	583,525	569,004
Stocks, end of month..... short tons	132,947	141,232	142,838	53,856	59,592	64,855	47,915	46,068	46,542			
Ore, Joplin district:												
Shipments..... short tons	32,122	33,474	39,478	45,084	48,810	42,418	41,429	41,165	49,246	414,266	573,166	518,074
Stocks, mines, end of month..... short tons	41,663	45,689	49,441	43,832	44,622	57,943	48,274	53,209	51,013			
Price, slab, prime western...dolls. per lb.	.0427	.0406	.0427	.0680	.0674	.0624	.0625	.0625	.0626			
Lead												
Ore shipments:												
Joplin district..... short tons	2,746	3,361	3,963	7,461	7,588	8,850	9,326	10,514	9,102	42,932	93,965	88,309
Utah..... short tons	52,907	63,584	48,400	75,927	77,693	89,545	65,353	71,887	91,538	692,733	894,999	786,422
Receipts in U. S. ore..... short tons	48,354	46,237	38,820	54,623	58,364	51,674	51,978	55,610	55,660	524,308	605,054	584,384
Price, pig desilverized, N. Y.....dolls. per lb.	.0550	.0515	.0510	.0689	.0687	.0629	.0645	.0650	.0639			
Other Metal Products												
Babbitt metal, consumption:												
Total apparent.....thous. of lbs.	2,765	2,989	2,582	5,225	5,519	4,522	5,308	5,796	5,630	38,371	61,792	54,691
Direct by producers.....thous. of lbs.	1,035	1,027	776	1,337	1,512	1,316	999	1,191	1,274	10,708	14,027	11,501
Sale to consumers.....thous. of lbs.	1,730	1,962	1,807	3,888	4,007	3,206	4,309	4,605	4,357	27,664	47,765	43,190
Copper wire cloth:												
Production.....thous. of sq. ft.	384	385	310	373	422	441	403	466	423	4,358	5,018	4,801
Shipments.....thous. of sq. ft.	317	356	303	394	417	367	423	442	395	4,008	4,592	4,518
Stocks, end of month.....thous. of sq. ft.	1,173	1,160	1,176	928	933	973	1,099	1,068	1,092			
New orders.....thous. of sq. ft.	299	363	269	333	454	504	412	419	422	4,036	4,649	4,300
Unfilled orders, end of month.....thous. of sq. ft.	241	199	166	242	257	302	320	266	301			
Make and hold orders, end of mo.....thous. of sq. ft.	533	606	530	435	499	570	453	459	482			
Pails and tubs, galvanized:												
Production.....dozens	103,177	130,906	60,798	113,698	129,282	102,400	150,845	153,813	131,792	1,224,957	1,511,849	1,682,702
Shipments.....dozens	116,875	115,185	68,330	120,297	135,197	90,684	139,183	152,258	103,290	1,239,080	1,539,539	1,660,599
Other galvanized ware:												
Production.....dozens	38,218	40,084	16,061	46,594	45,117	32,951	55,850	56,469	33,553	419,324	508,098	479,386
Shipments.....dozens	46,310	41,126	21,296	52,970	49,511	30,123	50,606	54,596	34,012	406,193	490,918	457,854
Enameled sheet-metal ware:												
Shipments.....dozen pieces	297,622	329,337	263,365	338,169	371,292	305,714	352,484	417,387	328,875	3,275,731	4,112,579	3,869,422
Crude Steel												
Steel ingots, production:												
United States, total.....thous. of long tons	2,868	2,721	2,234	4,528	4,534	3,521	4,148	4,650	4,267	37,643	51,409	45,847
Ratio to capacity.....per cent.	55	50	45	92	86	69	88	91	87			
Canada.....thous. of long tons	56	65	72	99	116	94	100	109	108	948	1,297	1,138
U. S. Steel Corporation:												
Unfilled orders, end of month.....thous. of long tons	3,424	3,482	3,640	3,903	4,087	4,125	3,698	3,751	3,673			
Steel castings:												
Production—												
Total.....short tons	61,919	65,522	44,303	106,995	120,937	110,297	75,761	87,952	82,385	947,434	1,249,062	939,753
Ratio to capacity.....per cent.	43	41	31	73	83	76	51	60	56			
Railroad specialties.....short tons	17,823	15,682	11,845	44,609	50,012	49,994	25,311	29,471	30,799	354,493	541,713	345,080
Miscellaneous.....short tons	44,096	43,840	32,458	62,382	70,835	60,303	50,450	58,481	51,586	592,941	707,255	594,673
New orders—												
Total.....short tons	49,542	45,552	47,862	86,584	136,208	97,888	82,762	78,860	84,742	836,519	1,249,747	903,910
Ratio to capacity.....per cent.	34	32	33	59	94	67	56	54	58			
Railroad specialties.....short tons	11,148	13,208	16,495	33,463	72,432	41,361	35,234	26,736	34,545	313,043	563,919	345,935
Miscellaneous.....short tons	38,394	32,344	31,367	53,121	63,776	56,527	47,528	52,124	50,197	522,576	685,828	557,975
Sheets, black, blue, galvanized, and full finished:												
Production—												
Totals.....net tons	179,928	193,934	148,550	302,490	319,660	204,071	318,907	369,243	358,402	2,498,596	3,705,461	3,645,771
Ratio to capacity.....per cent.	48.8	50.6	43.6	97.7	95.3	65.8	101.0	103.5	104.8			
Stocks, end of month—												
Total.....net tons	185,791	189,213	184,586	154,928	169,390	178,736	146,832	150,600	174,028			
Unsold.....net tons	88,363	91,024	96,248	43,886	63,174	71,680	44,519	49,800	63,014			
Shipments.....net tons	186,639	193,516	158,182	301,330	291,135	207,200	322,876	354,925	307,790	2,468,198	3,679,314	3,483,409
New orders.....net tons	214,454	158,700	135,682	274,568	258,810	134,391	370,936	344,614	346,041	2,442,553	3,565,181	3,471,205
Unfilled orders, end of month.....net tons	388,599	319,518	295,282	522,803	478,038	395,696	539,960	525,161	565,739			
Wholesale prices:												
Steel billets, Bessemer.....dolls. per long ton	31.00	31.00	31.00	35.00	35.00	35.00	32.00	32.80	33.00			
Iron and steel comp.....dolls. per long ton	32.67	32.31	31.95	36.50	36.17	36.04	35.17	35.48	35.92			
Structural steel beams.....dolls. per 100 lbs.	1.60	1.60	1.60	1.95	1.90	1.90	1.85	1.85	1.90			
Composite finished steel.....dolls. per 100 lbs.	2.24	2.22	2.20	2.54	2.51	2.50	2.50	2.52	2.52			
Fabricated Steel Products												
Steel barrels:												
Production.....barrels	564,927	616,121	497,539	663,531	629,976	572,621	593,255	656,021	563,647	7,028,715	7,713,634	6,846,672
Ratio to capacity.....per cent.	40.3	44.1	36.5	54.1	51.4	47.4	50.2	56.4	48.0			
Shipments.....barrels	565,204	619,558	500,409	655,314	638,681	567,257	595,040	661,009	568,353	7,028,044	7,698,523	6,853,813
Stocks, end of month.....barrels	73,861	70,424	67,554	64,917	56,212	61,576	55,059	50,071	45,365			
Unfilled orders, end of month.....barrels	1,011,211	986,110	929,045	1,071,150	901,643	993,601	996,820	823,872	957,117			
Track work, production, iron, steel, and heavy hardware sales.....rel. to Jan., 1921	5,642	5,192	4,212	12,962	12,902	11,326	10,767	9,493	8,379	104,942	151,289	128,584
Lock washers, shipments.....thous. of dolls.	165			229	243	207	207	236	210			
	160	153	119	298	263	159	257	269	255	2,491	3,531	2,907

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
METALS AND PRODUCTS—Con.												
Fabricated Steel Products—Con.												
Steel plate, fabricated, new orders:												
Total.....short tons.....	33,602	24,002	26,137	41,653	32,099	42,295	40,281	53,983	54,418	365,985	489,530	492,369
Ratio to capacity.....per cent.....				53	39	53	60	68	68			
Oil storage tanks.....short tons.....	14,106	4,400	9,401	15,189	8,786	9,033	18,572	23,960	32,381	96,558	135,181	227,611
Steel bars, cold finished, shipments.....short tons.....	19,338	20,521	15,456	40,889	39,296	27,648	43,893	50,867	46,902	302,674	540,314	464,863
Steel boilers, new orders:												
Quantity.....number.....	1,254	1,189	777	1,910	1,712	1,239	1,749	1,803	1,660	12,352	17,497	18,329
Area.....thous. of sq. ft.....	1,282	852	709	1,957	1,871	1,160	1,453	1,500	1,460	12,884	18,588	16,377
Iron and steel:												
Exports.....long tons.....	131,211	131,850	111,968	222,408	247,646	241,829	228,056	256,870	256,886	1,883,037	2,817,110	2,641,187
Imports.....long tons.....	29,793	29,730	34,572	46,346	49,502	44,045	48,117	50,176	49,986	399,370	527,894	547,956
Machinery												
Shipments:												
Water softening apparatus.....units.....	755	738	732	1,484	1,450	1,068	1,187	1,505	1,125	11,138	15,132	15,261
Water systems.....units.....	8,611	7,831	6,572	12,600	12,254	8,758	10,200	11,367	9,871	100,639	120,196	109,838
Pumps:												
Domestic shipments—												
Pitcher, hand, etc.....units.....	39,885	29,162	23,405	48,039	41,566	35,062	42,538	42,315	37,563	418,245	489,378	506,918
Power, horizontal type.....units.....	1,975	2,088	1,297	2,262	2,532	1,786	2,017	2,732	2,093	24,415	26,946	24,366
Steam, power, and centrifugal—												
New orders.....thous. of dolls.....	1,212	1,027	967	1,628	1,868	1,533	1,405	1,708	2,084	14,484	19,592	16,574
Shipments.....thous. of dolls.....	1,183	1,167	1,116	1,774	1,934	1,535	1,369	1,634	1,494	15,237	19,078	15,771
Unfilled orders, end of mo.....thous. of dolls.....	3,267	3,124	2,975	4,053	3,981	3,975	3,056	3,128	3,714			
Foundry equipment:												
New Orders.....rel. to 1922-24.....	91.0	50.0	45.3	216.3	245.3	128.6	170.0	185.0	197.8			
Shipments.....rel. to 1922-24.....	66.0	62.0	76.5	176.8	214.1	152.2	129.7	254.3	264.0			
Unfilled orders, end of mo.....rel. to 1922-24.....	170.8	159.1	124.9	480.8	492.5	445.4	529.5	462.6	403.9			
Stokers, mechanical, sales:												
Quantity.....number.....	128	92	71	155	178	107	161	100	116	1,126	1,637	1,388
Power.....horsepower.....	42,899	38,276	21,103	45,685	56,108	39,469	65,060	27,219	30,938	353,938	554,609	459,476
Machine tools:												
New orders.....rel. to 1922-24.....	136	90	60	241	322	179	265	284	290			
Shipments.....rel. to 1922-24.....	96	103	67	237	315	251	206	221	242			
Unfilled orders, end of mo.....rel. to 1922-24.....	268	238	230	709	697	629	441	504	563			
Electric hoists:												
New orders—												
Quantity.....number.....	212	214	222	423	461	412	447	405	522	3,295	5,764	4,770
Value.....dollars.....	114,119	101,818	104,255	230,543	231,372	214,661	228,510	209,694	258,867	1,650,539	2,874,266	2,259,277
Shipments.....dollars.....	104,856	97,811	99,218	281,439	233,215	224,647	172,936	202,829	215,363	1,825,586	2,796,840	2,052,120
Electric overhead cranes:												
Shipments.....thous. of dolls.....	942	677	587	1,048	1,322	1,162	464	806	701	9,410	10,910	6,503
New orders.....thous. of dolls.....	614	353	370	701	1,142	1,405	713	775	725	6,768	13,885	7,039
Unfilled orders, end of mo.....thous. of dolls.....	2,124	1,948	1,864	4,879	4,699	4,933	2,188	2,165	2,189			
Woodworking machinery:												
New orders.....thous. of dolls.....	648	605	459	1,297	1,251	1,009	1,639	1,585	1,295	8,455	17,707	15,601
Cancellations.....thous. of dolls.....	17	17	16	15	47	35	26	140	21	263	373	388
Unfilled orders, end of mo.....thous. of dolls.....	588	636	520	1,829	1,461	1,257	2,265	2,035	1,838			
Shipments.....thous. of dolls.....	516	564	506	1,555	1,568	1,186	1,413	1,666	1,502	8,866	18,060	14,863
Shipments.....number of machines.....	488	441	442	1,129	1,246	852	1,050	1,170	985	6,612	12,734	11,065
Electric trucks and tractors:												
Shipments, domestic—												
Total.....number of vehicles.....	75	90	36	151	134	110	113	114	126	1,008	1,735	1,185
Exports.....number of vehicles.....	6	3	9	7	33	8	5	20	6	132	133	128
Fire-extinguishing equipment, shipments:												
Motor vehicles.....number.....	86	96	71	122	118	134	143	139	126	1,042	1,242	1,215
Hand types.....number.....	37,482	36,303	29,213	51,193	48,835	36,073	42,193	49,128	41,954	476,937	576,492	515,721
Oil burners:												
Shipments, total.....number of burners.....	12,025	14,064	5,880	13,723	15,037	7,213				72,095	76,966	
Stocks, end of mo.....number of burners.....	7,606	5,939	5,647	7,900	7,480	6,486						
New orders.....number of burners.....	11,413	13,985	5,061	12,633	13,346	6,661				71,635	77,881	
Unfilled orders, end of mo.....number of burners.....	1,357	1,278	459	4,009	2,318	1,766						
Pulverized fuel equipment:												
New orders, Central system—												
Furnaces and kilns												
.....no. of pulverizers.....	2	None.	None.									
New orders, unit system—												
Water-tube boilers												
.....no. of pulverizers.....	24	10	15							238		
Fire-tube boilers												
.....no. of pulverizers.....	6	None.	5									
Marine boilers.....no. of pulverizers.....	2	None.	None.									
Furnaces and kilns												
.....no. of pulverizers.....	3	2	2							34		
Patents issued:												
Total all classes.....number.....	2,871	2,871	3,023	3,081	4,462	3,519	3,039	4,323	3,494	40,991	40,687	39,066
Agricultural implements.....number.....	43	41	52	51	63	43	40	59	39	566	566	462
Internal-combustion engines.....number.....	35	49	54	44	86	40	42	67	63	676	609	586
Electrical Equipment												
Electrical porcelain, shipments:												
Standard.....dollars.....	65,581	73,659	47,994	135,487	123,222	109,258	112,210	128,255	152,143	840,750	1,275,063	990,032
Special.....dollars.....	99,576	131,815	93,677	171,668	176,323	144,652	129,587	148,990	146,476	1,307,407	1,765,095	1,423,459
Glazed nail knobs.....thous. of pieces.....	2,453	2,044	1,834	4,146	4,404	3,797	4,213	5,257	5,350	29,779	47,014	37,304
Unglazed nail knobs.....thous. of pieces.....	1,222	1,615	1,164	2,250	1,605	2,121	2,796	3,042	2,644	17,265	25,613	20,349
Tubes.....thous. of pieces.....	334	1,156	801	1,729	1,645	1,439	2,694	2,807	3,111	11,564	19,888	20,847
Laminated phenolic products, shipments.....dollars.....	853,978	1,022,660	673,867	1,514,902	1,644,570	772,482	1,243,476	1,365,690	1,139,205	9,317,386	15,842,583	1,220,005
Motors (direct current):												
New orders.....dollars.....	820,444	647,611	457,518	916,794	1,214,044	921,543	957,093	926,133	759,337	8,381,186	10,850,312	9,026,940
Billings (shipments).....dollars.....	596,670	621,114	433,530	806,813	1,089,590	860,552	781,472	950,707	744,127	7,717,151	9,518,157	8,496,484

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
METALS AND PRODUCTS—Con.												
Electrical Equipment—Continued												
Power switching equipment, new orders:												
Indoor.....dollars	118,431	84,160	69,202	181,078	175,077	130,408	118,301	108,478	120,494	1,472,525	1,890,549	1,511,130
Outdoor.....dollars	298,354	342,771	219,232	400,343	503,226	371,592	281,502	313,285	297,449	4,198,626	5,077,889	4,094,051
Outlet boxes and covers, shipments.....pieces	2,179,259	1,677,038	-----	2,542,931	2,850,984	2,036,381	2,915,560	3,123,321	3,071,288	7,816,645	7,268,831	7,938,148
Vulcanized fiber:												
Shipments, total.....thous. of dolls.	447	465	359	883	942	718	568	649	585	5,781	9,257	6,873
Consumption.....thous. of lbs.	1,945	1,824	1,513	3,411	4,013	2,999	2,362	2,971	2,731	23,768	37,533	30,127
Industrial reflectors, sales.....units	125,786	113,316	115,736	131,620	179,068	137,942	126,151	156,243	163,491	1,314,533	1,562,834	1,411,529
Power cables, shipments.....thous. of ft.	2,108	1,957	1,824	2,676	3,288	2,297	2,197	2,384	2,405	22,581	25,116	21,890
Welding sets, new orders:												
Single operator.....units	194	200	153	341	302	248	234	297	215	2,525	3,575	2,539
Multiple operator.....units	9	34	14	9	7	7	7	58	24	103	81	207
Nonmetallic conduits, shipments.....thous. of ft.	4,235	4,067	3,713	6,954	8,015	6,180	7,376	8,804	7,543	53,676	75,508	84,610
Electric furnaces, new orders.....kilowatts	2,866	3,317	2,202	4,105	7,208	3,218	4,226	4,719	7,171	66,746	83,997	56,023
Manufactured mica:												
Shipments.....thous. of dolls.	141	150	132	263	274	179	247	302	267	1,931	3,000	-----
Unfilled orders, end of month.....thous. of dolls.	107	104	90	235	206	167	285	326	244	-----	-----	-----
Delinquent accounts, electrical trade:												
Amount.....dollars	93,898	122,150	96,912	128,059	167,089	172,495	140,637	162,564	150,278	-----	-----	-----
Delinquent firms.....number	939	1,101	868	1,117	1,392	1,152	1,220	1,245	1,139	-----	-----	-----
AUTOMOBILES												
Production:												
United States--												
Total.....number of cars	216,877	150,044	129,437	415,912	380,017	217,573	415,314	397,234	257,140	3,201,306	5,238,413	4,124,643
Passenger cars.....number of cars	176,311	112,209	97,528	363,471	318,462	167,846	357,428	338,224	215,042	2,689,550	4,478,800	3,605,387
Taxicabs.....number of cars	409	591	609	865	868	1,646	276	659	700	6,222	16,106	5,677
Trucks.....number of cars	41,157	37,244	31,300	51,576	60,687	48,081	57,610	58,401	41,398	505,134	743,507	513,579
Canada--												
Total.....number of cars	7,957	4,541	5,407	13,517	14,523	9,424	21,193	18,536	11,769	148,570	257,800	232,957
Passenger cars.....number of cars	5,623	3,206	3,527	10,710	8,975	7,137	16,572	13,016	8,154	121,217	203,072	190,007
Trucks.....number of cars	2,334	1,335	1,880	3,107	5,548	2,287	4,621	5,520	3,615	27,353	54,728	42,950
Exports (assembled):												
From United States--												
Total.....number of cars	13,437	11,215	12,073	33,919	32,443	25,815	30,559	46,524	46,893	223,832	512,462	477,991
Passenger cars.....number of cars	8,125	7,136	6,039	20,934	20,931	13,929	22,494	23,951	28,684	143,992	326,612	348,128
Trucks.....number of cars	5,312	4,079	6,039	12,985	11,512	11,886	8,065	16,573	17,209	79,840	185,850	129,863
From Canada--												
Total.....number of cars	6,641	2,868	2,588	6,641	9,637	5,905	8,670	9,705	8,783	43,004	96,845	73,102
Passenger cars.....number of cars	4,293	2,003	1,260	4,293	5,635	3,522	6,279	6,696	4,906	28,098	61,848	51,462
Trucks.....number of cars	2,348	865	1,328	2,348	4,002	2,383	2,391	3,009	3,877	14,906	34,997	21,640
Sales (General Motors Co.):												
Total to dealers, incl. Canadian and overseas.....number of cars	78,792	28,253	57,257	146,483	122,104	60,977	167,460	120,876	47,587	1,094,107	1,859,045	1,775,365
To consumers, U. S.....number of cars	75,805	57,757	41,757	124,723	114,408	68,893	-----	-----	-----	999,721	1,454,576	-----
To dealers, U. S.....number of cars	69,901	22,924	48,155	127,220	98,559	39,745	-----	-----	-----	967,408	1,499,370	-----
Accessories and parts, shipments:												
Original equipment.....rel. to Jan., 1925	79	75	62	186	160	78	218	200	163	-----	-----	-----
Replacement parts.....rel. to Jan., 1925	139	140	127	173	166	139	185	184	149	-----	-----	-----
Accessories.....rel. to Jan., 1925	76	79	63	84	91	83	122	91	78	-----	-----	-----
Service parts.....rel. to Jan., 1925	105	99	80	147	147	115	140	141	122	-----	-----	-----
Rim production.....thous. of rims	1,052	864	920	2,110	1,650	597	2,316	2,115	1,213	16,793	22,026	23,143
New passenger-car registrations:												
Total.....number of cars	175,286	150,219	93,066	304,452	288,697	183,756	271,821	284,939	211,736	2,530,005	3,741,651	2,978,696
Automobile financing:												
Wholesale, dealers.....thous. of dolls.	45,387	35,962	-----	60,195	63,641	-----	-----	-----	-----	596,238	612,256	-----
Total, consumers.....thous. of dolls.	90,466	81,504	-----	129,447	126,590	95,001	102,516	104,324	86,828	1,103,533	1,611,575	1,036,659
New cars.....thous. of dolls.	52,962	45,751	-----	93,951	80,373	58,246	64,755	64,991	53,055	690,641	982,272	666,416
Used cars.....thous. of dolls.	35,266	33,852	-----	29,558	41,725	32,260	26,129	28,035	23,277	381,133	400,298	257,066
Unclassified.....thous. of dolls.	2,238	1,901	-----	5,938	4,493	4,495	11,633	11,298	10,497	31,759	65,111	113,158
FUELS												
Coal and Coke												
Bituminous:												
Production--												
United States												
.....thous. of short tons	38,632	44,150	38,122	45,334	52,174	46,514	41,971	51,176	46,788	421,914	487,943	456,662
Canada.....thous. of short tons	1,230	1,630	1,815	1,379	1,560	1,519	1,412	1,739	1,718	13,432	15,739	16,031
Exports.....thous. of long tons	1,462	1,317	1,287	1,631	1,596	1,486	1,578	1,497	1,617	13,339	14,463	13,338
Consumption--												
By vessels.....thous. of long tons	269	230	204	347	343	333	313	333	334	2,018	3,561	3,533
By electric-power plants.....thous. of short tons	3,724	3,941	3,673	3,903	4,061	3,778	3,418	3,826	3,738	39,058	40,897	33,654
By railroads.....thous. of short tons	6,349	7,124	-----	7,583	8,450	7,836	7,635	8,444	8,092	68,483	77,866	76,758
By coke plants--												
United States.....thous. of short tons	5,214	5,270	4,820	7,153	7,389	6,884	6,180	6,726	6,595	65,736	79,941	69,307
Canada.....thous. of short tons	233	249	249	310	324	303	270	294	284	2,078	3,395	2,917
Prices--												
Mine aver. (spot).....dolls. per short ton	1.75	1.81	1.77	1.83	1.90	1.88	1.81	1.83	1.85	-----	-----	-----
Wholesale, comp.....dolls. per short ton	3.897	3.893	3.900	3.930	3.961	3.959	4.019	4.020	4.008	-----	-----	-----
Retail, composite.....dolls. per short ton	8.79	8.88	8.94	8.87	8.98	9.00	8.84	8.96	9.07	-----	-----	-----

* Revised.

† Cumulative through October 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
FUELS—Continued												
Coal and Coke—Continued												
Anthracite:												
Production.....thous. of short tons..	5,293	7,576	5,207	6,543	8,026	5,820	5,927	8,400	7,322	63,716	66,451	69,234
Exports.....thous. of long tons..	198	253	182	323	396	267	263	405	306	2,102	2,727	2,720
Prices—												
Wholesale, comp.....dolls. per long ton..	12.707	6 12.762	12.751	12.924	12.999	12.999	13.040	13.040	13.040			
Retail, composite.....dolls. per short ton..	14.80	14.87	14.90	14.87	14.98	14.98	14.93	14.98	15.06			
Coke:												
Production, U. S.—												
Beehive.....thous. of short tons..	168	178	168	543	506	6 445	322	431	427	2,585	6,101	4,085
By-product.....thous. of short tons..	3,401	3,432	3,137	4,408	4,605	6 4,316	3,967	4,229	4,142	42,437	49,237	43,986
Production, Canada.....thous. of short tons..	170	185	185	220	233	224	194	210	205	2,173	2,452	2,095
Exports.....thous. of long tons..	66	83	69	98	126	98	78	100	120	828	994	882
Price, furnace, Connellsville.....dolls. per short ton..	2.60	2.60	2.58	2.70	2.70	2.69	2.88	2.91	2.87			
Petroleum												
Crude petroleum:												
Production.....thous. of bbls..	70,977	72,696	68,174	87,453	88,430	78,758	76,484	79,751	76,123	828,571	926,406	821,971
Stocks at end of month—												
Total (comparable).....thous. of bbls..	370,089	369,062	367,515	386,365	384,511	380,152	366,720	367,949	367,622			
Tank farms and pipe lines.....thous. of bbls..	324,644	323,030	323,089	340,844	339,333	335,787	326,123	328,143	326,855			
Refineries.....thous. of bbls..	45,445	46,032	44,426	45,521	45,178	44,365	40,597	39,806	40,767			
California—												
Light.....thous. of bbls..	40,582	40,738	40,652	40,627	42,676	42,005	16,870	16,684	16,524			
Heavy.....thous. of bbls..	103,647	102,643	103,553	110,132	111,685	111,449	96,563	97,025	97,439			
Imports.....thous. of bbls..	5,808	5,061	4,467	6,953	5,766	4,554	7,139	6,703	6,908	57,402	73,047	72,960
Consumption (run to stills).....thous. of bbls..	75,950	74,016	70,310	84,099	88,390	81,061	79,894	79,663	77,149	855,867	907,045	833,775
Refinery operations.....per ct. of capacity..	69	65	64	80	79	75	84	82	81			
Price, Kansas-Oklahoma.....dolls. per bbl..	1.178	1.098	.850	1.300	1.300	1.300	1.210	1.210	1.210			
Oils wells completed.....number..	782	866	659	1,438	1,556	1,407	1,185	1,206	1,187	11,050	14,512	11,456
Mexico—												
Production.....thous. of bbls..	3,243	3,147		3,986	3,085	3,400	3,716	3,904	3,724	7 33,714	7 36,026	7 42,672
Exports.....thous. of bbls..	2,419			2,586	2,395	1,923	2,244	2,371	2,199			
Venezuela—												
Production.....thous. of bbls..	11,311	11,735	10,911	11,933	11,591	11,252	9,478	10,520	11,291	124,349	124,399	95,829
Exports.....thous. of bbls..	11,674	12,208	11,134	10,146	10,718	11,235	8,615	9,283	9,660	123,944	112,679	90,607
Gasoline:												
Production—												
Raw (at refineries).....thous. of bbls..	36,944	37,400	33,616	37,605	40,246	37,700	33,670	34,415	33,065	407,182	401,659	343,011
Natural gas (at plants).....thous. of bbls..	4,079	4,326	4,238	4,574	4,912	4,504	3,488	3,931	3,769	47,534	47,814	38,597
Exports.....thous. of bbls..	3,826	6,131	3,536	4,244	5,806	3,952	4,648	3,968	4,610	58,681	53,922	45,081
Consumption.....thous. of bbls..	37,823	32,267	30,984	34,680	33,238	31,584	29,766	30,696	25,941	366,980	348,818	301,913
Stocks end of month—												
Raw (at refineries).....thous. of bbls..	38,254	38,684	38,705	33,181	35,116	37,997	26,378	26,440	29,185			
Natural gas (plants).....thous. of bbls..	534	559	506	661	490	514	436	402	405			
Retail distribution, 41 States.....thous. of gals..	1,058,206			1,039,475	1,014,087	905,832	919,055	893,735	805,020	7 9,639,979	7 9,257,102	7 8,206,709
Prices—												
Wholesale, New York.....dolls. per gal..	.148	.143	.141	.166	.165	.165	.180	.180	.180			
Retail, wagon, 50 cities.....dolls. per gal..	.143	.135	.135	.160	.158	.156	.163	.163	.160			
Kerosene:												
Production.....thous. of bbls..	3,846	3,876	3,590	4,600	5,162	4,776	4,960	5,145	4,935	45,633	51,144	54,585
Exports.....thous. of bbls..	1,349	1,373	970	1,101	2,237	1,302	2,068	1,749	2,087	15,393	18,140	20,623
Consumption.....thous. of bbls..	2,768	2,599	2,841	3,320	2,974	3,104	3,164	3,405	2,591	31,778	33,090	32,798
Stocks at refineries, end mo.thous. of bbls..	7,771	7,633	7,379	8,569	8,515	8,902	8,593	8,633	8,886			
Price, 150° water white.....dolls. per gal..	.053	.054	.053	.070	.072	.073	.086	.082	.080			
Gas and fuels oils:												
Production.....thous. of bbls..	29,923	29,818	29,034	37,546	39,048	36,134	37,104	37,029	35,871	343,458	412,598	389,744
Consumption—												
By vessels.....thous. of bbls..	4,333	4,463	3,794	4,424	4,540	4,110	4,053	4,558	4,235	46,905	48,178	47,038
By electric pow. plants.....thous. of bbls..	6 829	6 885	767	1,079	1,083	1,173	612	619	632	8,192	9,354	6,312
By railroads.....thous. of bbls..	3,841	4,355		4,381	4,959	4,564	4,371	4,871	4,490	7 40,725	7 43,990	7 41,387
Stocks at refineries, end mo.thous. of bbls..	41,480	41,293	40,427	40,646	38,717	37,753	39,900	39,599	37,873			
Price, Okla. 24-26, refineries.....dolls. per bbl..	.580	.594	.650	.775	.838	.863	.650	.650	.650			
Lubricating oil:												
Production.....thous. of bbls..	2,723	2,546	2,409	2,852	2,885	2,555	2,833	2,979	2,748	31,692	31,594	31,666
Consumption.....thous. of bbls..	1,944	1,569	1,573	2,053	1,379	1,859	1,995	2,122	1,763	20,130	21,893	21,438
Stocks at refineries, end mo.thous. of bbls..	10,257	10,502	10,536	7,589	8,021	8,117	7,742	7,830	7,921			
Price, cylinder oil.....dolls. per gal..	.190	.186	.184	.369	.365	.365	.236	.240	.246			
Asphalt:												
Production.....thous. of short tons..	306	306	217	365	356	247	306	320	244	3,038	3,282	3,128
Stocks, end of month.....thous. of short tons..	270	267	295	231	227	234	203	210	228			
Imports.....thous. of short tons..	5	7		13	17	7	5	12	9		109	105
Coke:												
Production.....thous. of short tons..	170	177	158	161	172	155	119	125	131	1,769	1,650	1,293
Stocks end of month.....thous. of short tons..	1,045	1,045	1,064	711	733	744	402	404	419			
Wax:												
Production.....thous. of lbs..	43,960	38,080	35,240	44,513	56,377	50,775	50,428	54,546	56,665	510,960	580,970	575,459
Stocks, end of mo.....thous. of lbs..	248,940	240,060	237,027	187,319	190,727	187,247	85,417	82,814	103,949			

* Revised.

7 Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
RUBBER												
Crude Rubber												
World shipments, plantation												
Imports (including latex).....long tons..	74,941	71,934	77,997	73,853	68,303	48,338	43,748	91,860	7 693,083	7 720,358	7 467,792	
Consumption by tire mfrs.....thous. of lbs..	35,783	46,375	29,733	34,814	38,454	43,901	39,838	44,072	36,624	449,152	520,584	
World stocks, end of month:	33,382	36,097	26,253	39,981	41,775	31,186	55,351	58,302	48,819	451,219	572,267	
World total.....long tons..	427,089	428,355	435,655	277,151	282,840	300,443	188,355	170,884	216,747			
United States.....long tons..	171,285	188,310	193,091	90,729	91,806	105,115	58,725	59,529	55,909			
Europe.....long tons..	120,389	118,873	119,005	54,417	63,929	72,259	35,243	27,966	22,328			
Producing countries.....long tons..	37,714	36,046	37,564	37,753	37,905	34,200	17,687	15,489	29,110			
Afloat.....long tons..	97,701	85,106	86,000	94,252	89,200	88,869	76,700	67,900	109,400			
Wholesale price, smoked sheets, New York.....dolls. per pound..	.084	.083	.091	.202	.196	.166	.182	.187	.182			
Tires and Tubes												
Pneumatic casings:												
Production.....thousands..	2,692	2,866	2,123	3,568	3,689	2,703	5,101	5,495	4,556	38,521	52,535	
Stocks, end of month.....thousands..	7,849	7,842	7,676	9,656	9,633	9,701	7,324	8,640	9,434		54,335	
Shipments—												
Domestic.....thousands..	3,360	2,613	2,119	4,330	3,520	2,500	5,191	4,096	3,539	38,278	50,730	
Export.....thousands..	165	186	148	168	199	168	168	191	209	1,946	2,193	
Inner tubes:												
Production.....thousands..	3,053	3,161	2,144	4,152	4,000	2,835	5,327	5,197	4,198	39,487	52,276	
Stocks, end of month.....thousands..	8,052	8,414	8,250	10,068	10,242	10,276	10,158	11,464	11,820		56,287	
Shipments—												
Domestic.....thousands..	3,525	2,659	2,147	4,562	3,629	2,679	5,245	4,138	3,618	40,012	52,347	
Export.....thousands..	108	119	84	125	122	105	121	108	133	1,210	1,403	
Solid and cushion:												
Production.....thousands..	14	18	13	28	35	31	43	47	36	191	382	
Stocks, end of month.....thousands..	82	78	76	111	111	117	151	153	151		482	
Shipments—												
Domestic.....thousands..	22	19	13	34	34	23	42	43	34	220	387	
Export.....thousands..	1	1	1	2	2	2	2	3	3	16	26	
Other Rubber Products												
Rubber-proofed fabrics, production:												
Total.....thous. of yds..	5,046	5,209	2,822	5,507	6,118	4,395	4,966	5,914	4,173	40,772	48,442	
Auto fabrics.....thous. of yds..	733	915	532	1,120	778	540	780	609	701	9,502	10,385	
All other.....thous. of yds..	1,064	1,254	864	1,324	1,720	1,308	1,007	1,296	1,025	11,580	14,483	
Raincoat fabrics.....thous. of yds..	3,249	3,040	1,426	3,063	3,618	2,547	3,179	4,009	2,447	19,690	23,572	
Rubber heels:												
Production.....thous. of pairs..	14,322	16,460	11,083	21,702	22,386	17,863	21,451	21,932	18,686	164,959	217,345	
Shipments—												
To shoe manufacturers.....thous. of pairs..	9,244	9,354	4,578	13,645	13,746	11,653	9,207	9,813	8,602	98,861	135,474	
To repair trade.....thous. of pairs..	6,681	8,291	4,473	7,859	7,994	6,571	9,199	9,580	7,821	64,974	80,623	
For export.....thous. of pairs..	1,083	966	880	1,054	920	801	875	1,262	1,317	10,384	11,429	
Stocks, end of month.....thous. of pairs..	31,601	29,353	29,130	42,958	42,109	41,286	49,751	50,111	48,691		10,296	
Rubber soles:												
Production.....thous. of pairs..	2,193	3,056	1,426	2,841	3,502	3,400	2,725	2,297	2,649	26,493	31,496	
Shipments—												
To shoe manufacturers.....thous. of pairs..	1,691	2,638	1,011	2,185	2,691	2,676	1,703	1,655	1,906	22,428	24,998	
To repair trade.....thous. of pairs..	333	492	280	618	647	576	893	958	885	4,097	6,622	
For export.....thous. of pairs..	74	82	60	47	90	109	29	328	63	658	680	
Stocks, end of month.....thous. of pairs..	2,729	2,520	2,390	3,316	3,443	3,421	5,501	5,212	4,723		2,309	
Mechanical rubber goods:												
Shipments—												
Total.....thous. of dolls..	4,083	4,186	3,400	5,906	5,887	4,932	5,393	5,837	5,201	55,127	70,019	
Belting.....thous. of dolls..	1,045	954	779	1,490	1,477	1,203	1,412	1,387	1,203	13,057	17,098	
Hose.....thous. of dolls..	1,473	1,554	1,276	1,964	2,135	1,830	1,731	2,026	1,811	22,060	25,893	
All other.....thous. of dolls..	1,565	1,678	1,345	2,452	2,274	1,899	2,250	2,424	2,186	20,008	27,028	
Rubber bands, shipments.....thous. of lbs..	172	197	165	189	216	170	186	212	201	2,161	2,333	
Rubber flooring, shipments.....thous. of sq. ft..	529	682	432	630	543	517	754	559	566	6,050	6,161	
Calendered rubber clothing:												
Production.....no. coats and sundries..	37,097	41,291	22,623	93,444	99,588	75,392	92,588	106,005	93,080	602,887	929,700	
Net orders.....no. coats and sundries..	39,364	25,082	15,493	49,940	76,194	95,423	108,156	75,482	45,876	525,503	694,980	
HIDES AND LEATHER												
Hides												
Imports:												
Total hides and skins.....thous. of lbs..	27,598	21,512	18,207	51,903	48,489	50,958	34,448	35,982	24,720	379,538	473,574	
Calfskins.....thous. of lbs..	2,835	3,264	2,202	3,178	4,886	3,542	2,707	4,310	2,690	30,718	43,197	
Cattle hides.....thous. of lbs..	12,743	6,888	6,781	29,132	28,264	28,227	18,504	17,883	10,103	180,342	239,558	
Goatskins.....thous. of lbs..	6,807	7,268	5,167	8,893	6,434	9,838	6,728	7,993	5,773	87,371	93,798	
Sheepskins.....thous. of lbs..	3,289	2,821	1,965	7,336	5,091	5,032	4,902	3,785	4,517	51,009	61,981	
Stocks, end of month:												
Total hides and skins.....thous. of lbs..	279,472	288,617	290,236	253,680	259,050	270,188	249,272	253,921	259,330			
Cattle hides.....thous. of lbs..	218,446	227,099	227,647	203,304	208,910	220,779	203,227	209,902	215,668			
Calf and kip skins.....thous. of lbs..	25,536	26,972	28,221	27,071	27,596	27,573	24,059	23,118	22,946			
Sheep and lamb skins.....thous. of lbs..	35,490	34,546	34,368	23,305	22,544	21,836	21,986	20,901	20,716			
Prices:												
Green salted, packers' heavy native steers.....dolls. per lb..	.146	.133	.118	.196	.186	.164	.246	.219	.223			
Calfskins, country, No. 1.....dolls. per lb..	.165	.172	.156	.204	.197	.179	.275	.246	.242			
Inspected slaughter of livestock:												
United States—												
Cattle.....thous. of animals..	760	836	605	753	839	731	764	801	762	7,479	7,666	
Calves.....thous. of animals..	374	438	324	365	398	358	352	405	378	4,197	4,192	
Swine.....thous. of animals..	2,773	3,492	4,024	3,104	3,857	4,499	2,508	3,713	4,455	39,619	43,363	
Sheep.....thous. of animals..	1,591	1,727	1,305	1,317	1,365	1,159	1,307	1,409	1,189	15,269	12,932	
Canada—												
Cattle and calves.....thous. of animals..	84	97	78	98	120	114	96	111	106	903	1,046	
Swine.....thous. of animals..	140	160	168	142	207	234	161	200	232	1,757	2,130	
Sheep.....thous. of animals..	114	185	98	93	178	135	86	142	135	693	676	

7 Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
PAPER AND PRINTING—Continued												
Box Board												
Operation:												
Inch-hours..... thousands..	7,907	8,391	7,083	8,745	9,707	8,690	8,645	9,827	9,096	90,491	102,176	97,037
Capacity..... per cent..	69.7	68.5	65.0	77.7	76.7	74.4	77.1	77.9	77.9			
Production..... short tons..	228,257	253,889	202,589	242,032	269,611	241,780	231,324	253,180	245,713	2,524,129	2,769,035	2,541,268
New orders..... short tons..	226,899	247,209	199,765	251,189	269,300	219,635	241,185	248,602	252,514	2,513,816	2,734,120	2,552,004
Unfilled orders, end of month												
..... short tons..	61,978	57,377	55,162	85,866	84,237	66,125	89,907	83,979	94,969			
Consumption of waste paper												
..... short tons..	223,071	228,588	191,021	231,029	254,163	230,046	223,009	245,734	228,247	2,410,436	2,616,324	2,370,529
Shipments..... short tons..	228,439	251,810	201,980	245,957	270,929	237,747	236,004	254,530	241,524	2,517,266	2,763,324	2,536,120
Stocks, end of month..... short tons..	67,720	69,799	70,408	60,734	59,416	63,449	44,908	43,558	47,747			
Stocks of waste paper, end of month:												
On hand..... short tons..	165,499	177,486	184,375	175,279	186,806	193,534	120,857	132,712	140,583			
In transit and unshipped purchases												
..... tons..	45,960	34,910	30,564	87,700	70,020	51,650	53,354	73,245	49,992			
Other Paper												
Blinders board, production..... short tons..	1,342	1,894		2,903	2,682	1,882	2,431	2,644	2,196	717,621	730,103	730,750
Book paper:												
Production..... short tons..	102,602	103,525	93,897	135,842	154,860	144,020	117,374	132,633	126,001	1,269,562	1,500,566	1,384,713
Ratio to capacity..... per cent..	81	74	73	103	104	105	86	87	90			
Shipments..... short tons..	100,345	106,838	93,428	135,434	138,290	139,123	120,895	133,429	124,615	1,241,174	1,484,943	1,376,963
Stocks, end of month..... short tons..	118,315	114,766	115,340	78,020	79,580	85,946	82,403	81,579	82,395			
Wrapping paper:												
Production..... short tons..	74,704	83,905	76,628	83,356	89,021	86,196	83,582	96,907	91,249	886,231	987,726	1,032,198
Ratio to capacity..... per cent..	81	84	83	84	80	84	84	85	87			
Shipments..... short tons..	77,916	84,744	77,701	83,939	93,650	86,196	86,173	94,900	91,286	897,437	993,913	1,023,100
Stocks, end of month..... short tons..	72,732	71,916	70,881	86,518	82,491	82,458	91,977	93,416	93,203			
Fine paper:												
Production..... short tons..	31,608	34,486	29,085	36,166	41,830	38,746	34,885	39,680	37,463	396,725	432,666	423,500
Ratio to capacity..... per cent..	67	72	64	88	91	91	80	84	88			
Shipments..... short tons..	29,996	34,624	28,387	34,936	40,868	36,809	34,885	39,839	36,676	383,056	432,889	419,482
Stocks, end of month..... short tons..	67,136	67,009	67,701	48,058	48,830	50,749	53,361	53,788	54,418			
All other grades:												
Production..... short tons..	84,954	87,455	77,846	97,715	113,260	99,192	100,138	112,529	102,703	976,434	1,143,159	1,135,173
Shipments..... short tons..	85,708	88,985	78,349	97,209	114,395	97,863	102,437	115,563	101,483	977,484	1,135,169	1,131,764
Stocks, end of month..... short tons..	64,432	62,903	62,400	58,515	56,189	57,500	70,140	61,340	63,578			
Total paper (inc. newsprint and box board):												
Production..... short tons..	617,386	668,710	573,382	703,266	790,591	723,663	670,124	757,344	726,775	7,237,600	8,107,133	7,810,515
Ratio to capacity..... per cent..	74	74	69	89	89	88	81	83	87			
Shipments..... short tons..	618,452	669,809	573,476	704,970	780,172	714,463	688,228	759,990	718,345	7,186,751	8,097,490	7,763,549
Stocks, end of month												
..... short tons..	421,214	419,711	418,548	358,335	353,079	363,651	378,476	370,061	376,032			
Paper-Board Shipping Boxes												
Operating activity:												
Total..... per cent of normal..	73	76	67	89	91	79	79	88	82			
Corrugated..... per cent of normal..	76	80	70	91	93	81	78	80	82			
Solid fiber..... per cent of normal..	65	65	57	82	86	72	80	83	79			
Production:												
Total..... thous. of sq. ft..	506,628	518,388	428,236	544,276	574,171	485,306	455,931	477,926	478,609	5,703,360	5,580,861	4,793,344
Corrugated..... thous. of sq. ft..	415,623	425,900	347,876	434,351	457,425	387,935	359,553	374,342	370,302	4,294,359	4,428,250	3,699,829
Solid fiber..... thous. of sq. ft..	90,955	92,488	80,360	109,925	116,746	97,371	96,378	103,584	108,307	995,390	1,152,611	1,093,515
Rope paper sacks, shipments												
..... rel. to 1921-22..	88	87	79	95	115	102	102	113	107			
Printing												
Sales books:												
New orders..... thous. of books..	11,652	12,217	11,053	12,977	13,834	12,108	11,837	13,958	12,730	129,992	137,972	137,681
Shipments..... thous. of books..	12,363	13,428	10,723	12,226	14,147	12,785	11,976	14,605	13,080	130,504	139,866	135,486
Book publication:												
American manufacture..... no. of titles..	643	712	795	739	807	873	835	933	765	6,675	7,856	7,694
Imported..... no. of titles..	150	95	141	57	134	235	261	160	104	1,819	1,566	1,599
Blank forms, new orders..... thous. of sets..	60,812	78,707		56,428	75,622	66,464	50,114	67,957	59,429	763,979	760,363	748,386
Printing activity..... relative to 1924..	93	92		107	108	102	105	113	112			
BUILDING CONSTRUCTION AND HOUSING												
Building Costs												
Building materials:												
Frame house, 6-rm. 1st of mo.												
..... rel. to 1913..	168	171	165	176	178	178	177	179	177			
Brick house, 6-rm. 1st of mo.												
..... rel. to 1913..	174	176	172	182	183	182	181	184	182			
Bldg. costs, 1st of mo..... rel. to 1913..	199.6	198.7	198.5	207.6	206.3	208.5	207.3	207.7	209.5			
Bldg. costs (A. G. C.),												
1st of mo..... rel. to 1913..	198	200	199	201	202	201	201	202	202			
Construction costs (Am. Appraisal):												
Frame..... rel. to 1913..	191	188	183	205	205	206	204	204	204			
Brick, steel frame..... rel. to 1913..	183	186	180	197	198	198	198	197	197			
Brick, wood frame..... rel. to 1913..	206	202	196	214	215	215	213	213	213			
Reinforced concrete..... rel. to 1913..	193	190	185	201	202	202	201	201	201			
Building and Engineering Construction, 37 States												
Total construction, all types:												
Projects..... number..	11,495	12,158	9,127	14,262	15,097	10,483	15,653	17,029	14,330	127,881	164,891	188,310
Floor space..... thous. of sq. ft..	41,193	39,484	33,099	59,872	65,609	51,052	76,348	85,703	73,756	481,528	747,561	901,357
Valuation..... thous. of dolls..	331,864	337,301	253,574	444,402	445,642	391,013	581,674	597,104	471,482	4,275,598	5,437,923	6,195,530
Commercial buildings:												
Projects..... number..	1,841	2,015	1,482	2,067	2,226	1,805	1,788	2,113	1,843	21,425	22,828	22,060
Floor space..... thous. of sq. ft..	5,721	6,673	4,797	13,514	13,274	13,666	11,878	14,097	13,785	94,369	156,364	147,626
Valuation..... thous. of dolls..	31,137	35,653	31,009	76,921	67,733	101,769	60,068	67,330	68,309	605,218	899,296	817,837

* Revised.

* Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
BUILDING MATERIALS—Continued												
Hardwood Lumber—Continued												
Northern hardwoods:												
Production..... M ft. b. m.	4,371	4,772	4,382	17,195	14,643	15,895	16,624	16,727	21,642	176,811	312,292	322,717
Shipments..... M ft. b. m.	11,862	11,285	9,374	24,275	22,604	18,220	25,086	31,473	30,646	159,767	284,211	306,861
Gum:												
Stocks, total, end of month..... mill. ft. b. m.	601	608	-----	482	482	517	529	532	518	-----	-----	-----
Stocks, unsold, end of month..... mill. ft. b. m.	494	504	-----	328	339	397	396	398	376	-----	-----	-----
Unfilled orders, end of month..... mill. ft. b. m.	107	104	-----	154	143	134	133	134	142	-----	-----	-----
Oak:												
Stocks, total, end of month..... mill. ft. b. m.	1,016	1,021	-----	1,004	1,022	1,033	954	918	907	-----	-----	-----
Stocks, unsold, end of month..... mill. ft. b. m.	918	924	-----	808	823	852	775	746	741	-----	-----	-----
Unfilled orders, end of month..... mill. ft. b. m.	98	97	-----	195	199	181	161	171	166	-----	-----	-----
All hardwoods:												
Production..... mill. ft. b. m.	161	158	-----	334	296	259	270	285	289	7 2,141	7 3,132	7 2,653
Shipments..... M ft. b. m.	189	169	-----	311	278	221	293	315	308	7 1,839	7 3,024	7 2,735
New orders..... mill. ft. b. m.	176	154	-----	323	281	184	293	323	323	7 1,780	7 3,000	8 2,818
Stocks, total, end of month..... mill. ft. b. m.	3,621	3,270	-----	2,848	2,887	2,979	2,731	2,722	2,696	-----	-----	-----
Stocks, unsold, end of month..... mill. ft. b. m.	2,787	2,805	-----	2,239	2,227	2,356	2,164	2,132	2,107	-----	-----	-----
Unfilled orders, end of month..... mill. ft. b. m.	475	466	-----	678	660	622	566	589	589	-----	-----	-----
Flooring												
Maple flooring:												
Production..... M ft. b. m.	3,591	3,128	3,312	7,334	7,813	5,574	7,675	8,204	8,721	50,431	72,478	85,533
Shipments..... M ft. b. m.	3,700	3,375	2,813	7,239	6,896	4,379	7,929	8,543	6,230	47,576	72,991	87,340
Stocks, end of month..... M ft. b. m.	26,275	25,921	26,468	20,827	22,421	23,659	22,554	21,352	21,960	-----	-----	-----
New orders..... M ft. b. m.	3,256	2,821	2,964	4,750	4,297	3,227	7,110	7,230	6,537	41,512	65,054	84,378
Unfilled orders, end of month..... M ft. b. m.	3,036	3,518	3,448	7,641	7,095	5,717	10,106	7,940	7,157	-----	-----	-----
Fabricated Structural Steel												
New orders (prorated)..... short tons.	162,000	219,600	157,200	297,990	319,550	212,135	318,010	260,645	244,090	2,646,400	3,300,220	3,041,500
Ratio to capacity..... per cent.	40.5	54.9	39.3	77.4	83.0	55.1	82.6	67.7	63.4	-----	-----	-----
Shipments (prorated)..... short tons.	258,400	253,600	206,800	293,370	323,785	263,725	274,120	318,780	274,120	2,976,800	3,060,365	2,843,610
Ratio to capacity..... per cent.	64.6	63.4	51.7	76.2	84.1	68.5	71.2	82.8	71.2	-----	-----	-----
Portland Cement												
Production..... thous. of bbls.	16,124	14,410	11,098	17,223	16,731	14,053	17,884	17,533	15,068	152,427	158,983	163,779
Operation..... per ct. of capacity.	75.7	65.4	51.7	81.8	77.0	66.6	91.7	87.1	77.4	-----	-----	-----
Shipments..... thous. of bbls.	18,083	15,599	8,784	19,950	18,695	11,222	20,460	19,836	11,951	153,055	163,486	168,071
Stocks, end of month..... thous. of bbls.	21,889	20,697	23,011	17,325	15,381	18,213	16,799	14,579	17,769	-----	-----	-----
Stocks, clinker, end of month..... thous. of bbls.	7,783	7,266	7,855	7,009	5,934	6,134	7,566	5,944	5,953	-----	-----	-----
Wholesale prices, composite..... dolls. per bbl.	1.600	1.600	1.588	1.500	1.493	1.510	1.650	1.650	1.650	-----	-----	-----
Common brick:												
Stocks, end of month--												
Burned..... thousands.	373,485	405,082	429,806	217,451	395,919	497,099	498,691	454,931	537,712	-----	-----	-----
Unburned..... thousands.	271,577	273,309	285,944	224,530	284,402	291,237	257,692	91,226	287,162	-----	-----	-----
Shipments..... thousands.	115,251	103,390	103,489	93,677	151,723	131,919	167,078	122,078	180,360	1,062,315	1,454,415	2,094,627
Unfilled orders, end of month..... thousands.	132,689	101,906	121,389	110,215	133,083	154,766	213,274	145,427	204,189	-----	-----	-----
Plants closed down..... number.	70	76	90	26	58	115	21	49	67	916	553	414
Price, red, New York..... dolls. per thous.	9.500	9.500	9.500	10.50	9.50	10.00	12.50	12.50	12.00	-----	-----	-----
Sand-lime brick:												
Production..... thousands.	7,877	7,925	7,126	14,121	17,563	14,011	17,267	21,590	18,164	94,625	154,709	188,936
Shipments by rail..... thousands.	3,278	3,437	3,044	3,960	5,150	4,956	6,767	5,562	4,588	33,584	47,016	61,913
Shipments by truck..... thousands.	6,553	6,169	4,659	10,951	10,863	9,938	11,281	15,802	12,942	62,843	117,723	129,479
Stocks, end of month..... thousands.	14,151	12,260	12,730	9,326	12,957	10,854	15,304	14,446	11,579	-----	-----	-----
Unfilled orders, end of month..... thousands.	8,957	7,567	8,183	13,286	12,943	9,708	14,455	13,435	10,447	-----	-----	-----
Face brick:												
Production..... thousands.	730	748	543	1,000	1,095	902	1,099	1,240	1,236	7,362	12,060	12,129
Shipments..... thousands.	794	767	536	1,011	1,064	756	1,158	1,166	973	8,130	11,519	12,212
Stocks, end of month..... thousands.	3,677	3,662	3,677	4,050	4,110	4,249	2,974	2,826	3,422	-----	-----	-----
Unfilled orders, end of month..... thousands.	1,067	901	821	1,295	1,285	1,165	1,506	1,483	1,263	-----	-----	-----
Floor and wall tile:												
Production..... thous. of sq. ft.	3,954	4,139	-----	5,595	5,416	4,385	6,621	7,636	6,429	7 37,427	7 59,134	7 59,434
Shipments, quantity..... thous. of sq. ft.	4,482	4,585	-----	5,569	5,089	4,060	6,755	7,260	5,208	7 41,405	7 55,633	7 59,838
Shipments, value..... thous. of dolls.	1,518	1,505	-----	2,149	2,097	1,647	2,572	2,731	2,021	7 14,953	7 22,072	7 22,726
Stocks, end of month..... thous. of sq. ft.	15,257	14,811	-----	18,720	19,047	19,372	12,502	12,877	14,099	-----	-----	-----
Terra cotta, new orders:												
Quantity..... net tons.	5,718	5,930	3,373	7,784	6,566	7,452	10,570	15,597	9,998	70,866	110,511	139,302
Value..... thous. of dolls.	465	556	329	817	716	790	1,005	1,460	949	6,861	12,041	13,189
Plate glass:												
Production, polished..... thous. of sq. ft.	7,979	8,583	7,103	14,011	14,621	12,131	10,897	11,140	11,646	100,881	142,016	120,069
Roofing												
Roofing, felt:												
Production, dry felt..... tons.	25,631	21,470	-----	23,997	25,502	19,249	24,343	23,930	17,424	7 210,225	7 268,169	7 249,521
Stocks, end of month, dry felt..... tons.	5,005	4,799	-----	4,465	4,790	5,009	3,427	3,367	4,045	-----	-----	-----

* Revised.

† Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
BUILDING MATERIALS—Continued												
Roofing—Continued												
Prepared roofing, shipments:												
Total.....thous. of sqs..	3,506	3,259	1,484	3,011	3,308	2,326	3,187	3,453	2,471	26,748	37,826	34,867
Smooth roll.....thous. of sqs..	1,438	1,575	742	1,231	1,502	1,161	1,394	1,604	1,209	11,778	16,947	15,231
Grit roll.....thous. of sqs..	872	922	372	826	836	532	841	824	529	6,905	9,480	9,278
Shingles—												
Strip, patented, and hexagon.....thous. of sqs..	1,001	572	283	781	795	510	785	851	620	6,582	9,478	8,585
Individual and single thickness.....thous. of sqs..	196	191	86	173	175	123	167	173	113	1,484	1,921	1,770
BUILDING EQUIPMENT												
Enamel Ware												
Baths:												
Shipments.....pieces..	47,970	48,547	34,658	78,117	65,530	50,417	86,209	93,174	63,783	555,143	891,702	1,058,533
Stocks, end of month.....pieces..	162,302	166,248	166,119	161,999	162,465	166,397	134,749	147,656	165,738	538,561	893,496	1,080,449
New orders.....pieces..	41,799	43,750	33,502	68,991	57,054	44,668	65,356	82,893	68,815	---	---	---
Unfilled orders, end of month.....pieces..	29,939	25,142	23,986	56,001	47,525	41,776	51,410	41,129	41,161	---	---	---
Lavatories:												
Shipments.....pieces..	62,369	58,273	46,039	97,254	85,856	66,951	94,251	99,250	79,218	693,864	1,051,913	1,194,054
Stocks, end of month.....pieces..	185,515	204,496	204,846	172,189	176,246	173,570	168,211	180,651	195,323	671,770	1,068,284	1,217,140
New orders.....pieces..	54,369	52,509	41,898	73,195	72,039	54,762	74,044	87,524	78,617	---	---	---
Sinks:												
Shipments.....pieces..	64,044	61,486	49,754	104,969	93,642	68,675	101,673	111,740	89,304	714,696	1,093,464	1,244,000
Stocks, end of month.....pieces..	243,845	246,632	252,226	231,410	243,567	248,685	216,255	230,725	242,837	688,796	1,106,844	1,260,027
New orders.....pieces..	57,606	58,504	46,045	84,985	78,430	61,502	89,122	103,109	92,328	---	---	---
Miscellaneous sanitary ware:												
Shipments.....pieces..	31,485	29,142	21,931	36,184	40,277	28,557	44,943	46,129	45,466	319,494	427,581	525,377
Stocks, end of month.....pieces..	100,585	106,858	107,858	121,382	124,339	123,138	103,509	116,110	125,108	313,471	431,357	526,342
New orders.....pieces..	28,449	27,840	22,390	28,005	35,468	25,406	44,202	40,157	44,762	---	---	---
Small ware (all except baths):												
Unfilled orders, end of month.....pieces..	84,246	74,198	66,807	207,078	174,140	151,627	155,483	129,154	130,873	---	---	---
Vitreous china plumbing fixtures:												
New orders.....pieces..	140,882	141,036	114,808	195,931	240,606	215,092	180,758	222,190	221,575	1,713,211	2,711,018	2,847,904
Shipments.....pieces..	155,330	158,839	122,493	237,788	215,033	174,149	215,284	236,781	201,925	1,919,550	2,690,353	2,846,461
Unfilled orders, end of month.....pieces..	260,919	243,116	235,429	343,775	369,348	410,291	318,508	303,917	323,562	---	---	---
Stocks, end of month.....pieces..	586,915	593,492	583,325	566,776	601,832	624,472	510,864	531,119	554,422	---	---	---
Porcelain plumbing fixtures:												
New orders.....pieces..	6,815	8,657	4,451	9,524	8,548	6,228	9,939	22,665	11,715	83,445	121,086	244,233
Shipments.....pieces..	7,564	6,455	5,634	9,569	8,269	6,541	16,525	17,018	14,657	69,199	113,445	180,463
Unfilled orders, end of month.....pieces..	31,973	31,309	29,869	26,115	25,376	23,832	54,583	50,558	38,268	---	---	---
Stocks, end of month.....pieces..	29,367	31,133	30,370	39,708	40,682	39,798	50,953	50,956	47,550	---	---	---
Illuminating Glassware												
Production:												
Total.....number of turns..	1,961	2,185	2,059	3,225	4,265	3,995	3,190	4,193	4,245	26,197	36,710	35,095
Ratio to capacity.....per ct. of capacity..	31.7	35.3	33.2	45.3	50.2	53.2	43.0	50.5	54.2	---	---	---
New orders.....per ct. of capacity..	33.7	34.5	30.5	46.8	52.9	44.4	44.2	53.2	51.1	---	---	---
Shipments.....per ct. of capacity..	33.0	34.4	30.6	49.6	51.1	49.0	43.0	51.9	51.9	---	---	---
Unfilled orders, end of month.....number of weeks' supply..	.8	.8	.7	1.4	1.5	1.3	1.7	1.7	1.6	---	---	---
Stocks, end of month.....number of weeks' supply..	4.6	4.7	4.9	4.6	4.6	4.8	4.3	4.1	4.2	---	---	---
Furniture												
Household furniture and case goods:												
Southeastern district—												
Shipments.....dolls., av. per firm..	63,343	53,091	34,207	75,319	82,440	61,523	65,010	70,030	59,855	531,111	678,887	584,820
Unfilled orders.....dolls., av. per firm..	25,830	17,335	15,411	84,138	62,355	42,811	58,576	50,266	51,136	---	---	---
Grand Rapids district—												
Unfilled orders, end of month.....No. days' production..	26	20	22	58	45	42	49	38	50	---	---	---
New orders.....No. days' production..	29	21	22	37	29	28	31	31	50	---	---	---
Shipments.....No. days' production..	27	26	18	32	35	27	30	37	35	---	---	---
Outstanding accounts, end of month.....No. days' sales..	52	51	48	58	61	57	65	65	65	---	---	---
Cancellations.....per ct. new orders..	5.0	8.5	7.0	6.0	23.0	13.0	9.0	10.0	6.0	---	---	---
Plant operation.....per ct. full time..	89.0	85.0	81.0	101.0	104.0	94.0	101.0	103.0	100.0	---	---	---
Steel furniture:												
Business group—												
Shipments.....thous. of dolls..	1,879	1,901	1,673	2,314	2,984	2,631	2,754	3,159	2,854	24,355	31,318	31,926
New orders.....thous. of dolls..	1,795	1,855	1,637	2,294	2,842	2,900	2,689	3,193	2,676	23,640	31,452	32,363
Unfilled orders, end of month.....thous. of dolls..	1,249	1,203	1,168	2,054	2,059	2,345	2,062	2,095	1,917	---	---	---
Shelving—												
Shipments.....thous. of dolls..	497	593	457	843	979	860	678	954	916	7,148	10,465	8,506
New orders.....thous. of dolls..	512	534	429	880	928	801	800	959	875	7,140	10,819	8,772
Unfilled orders, end of month.....thous. of dolls..	720	661	632	1,079	1,015	950	754	760	721	---	---	---
PLYWOOD AND VENEER												
Rotary-cut veneer:												
Receipts.....No. of carloads..	147	101	106	223	251	184	244	337	222	1,522	2,258	2,013
Purchases.....No. of carloads..	139	101	97	287	306	141	199	255	190	1,425	2,588	2,296
GLASS CONTAINERS												
Actual production:												
Quantity.....gross..	2,202	2,461	1,913	2,246	2,572	2,274	2,322	2,389	2,146	25,938	27,168	26,477
Relation to capacity.....per cent..	68.1	70.4	59.1	74.5	75.6	69.0	78.7	71.6	66.8	---	---	---
New orders.....gross..	2,585	2,451	2,221	2,942	2,906	2,501	2,122	2,721	2,950	28,492	28,048	26,718
Shipments.....gross..	2,623	2,297	1,678	2,700	2,445	2,005	2,433	2,261	1,990	25,786	27,299	26,138
Unfilled orders, end of month.....gross..	9,404	9,097	9,484	8,072	8,320	8,571	8,084	8,415	8,872	---	---	---
Stock, end of month.....gross..	6,412	6,578	6,814	5,994	6,121	6,387	6,173	6,302	6,455	---	---	---

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
CHEMICALS AND OILS												
Chemicals												
Sulphuric acid:												
Exports.....pounds..	465,766	703,787	308,992	516,264	544,462	460,174	581,760	441,867	632,942	5,032,143	6,045,224	6,679,172
Price, wholesale.....dolls. per 100 lbs..	.78	.78	.78	.78	.78	.78	.78	.78	.78			
Nitrate of soda:												
Imports.....long tons..	19,362	27,207	35,474	31,539	54,821	43,047	36,644	48,385	45,577	532,382	864,889	947,520
Production in Chile.....metric tons..	181,467	179,357		253,200	207,800	261,000	259,400	282,300	285,900	2,146,979	2,614,100	2,584,000
Potash salts:												
Imports (commercial).....long tons..	45,857	36,796	13,156	40,088	51,757	23,603	43,313	28,242	24,639	371,040	329,298	335,291
Sales in Germany (K ₂ O content).....metric tons..	127,660	71,660	54,872	123,465	79,159	84,670	140,818	76,507	82,463	1,275,890	1,301,852	1,314,070
Superphosphate (acid phosphate):												
Production.....short tons..	282,710	335,594	302,730	253,181	349,976	345,046	251,190	343,213	320,048	3,602,288	3,302,135	3,461,125
Stocks, end of month.....short tons..	1,479,091	1,702,907	1,876,760	1,283,706	1,481,367	1,721,737	1,347,735	1,546,290	1,801,122			
Shipments.....short tons..	149,899	92,769	77,861	163,242	106,495	78,000	149,002	89,767	76,222	1,840,650	1,812,461	1,822,311
Fertilizer:												
Exports.....long tons..	118,761	125,441	84,847	155,103	129,849	101,823	99,611	87,115	96,085	1,454,714	1,380,751	1,147,580
Consumption, Southern States.....short tons..	128,302	94,726	61,201	174,347	101,295	60,392	131,120	142,828	84,947	5,369,861	5,309,833	5,456,454
Crude arsenic:												
Production.....short tons..	2,077	2,694	2,392	1,027	3,113	1,203	1,079	1,238	1,622	19,682	17,101	15,270
Stocks, end of month.....short tons..	4,026	5,125	5,937	1,777	3,309	3,112	2,978	3,024	3,419			
Refined arsenic:												
Production.....short tons..	1,101	1,265	1,508	868	1,036	1,197	799	835	802	11,450	10,060	8,264
Stocks, end of month.....short tons..	1,930	1,813	2,010	3,180	3,672	3,993	1,971	2,344	2,766			
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs..	204	309	114	422	247	321	157	231	400	1,957	2,370	3,012
Coal tar.....thous. of lbs..	866	2,481	3,136	39	18	20	1,330	5,194	2,457	25,407	11,674	25,877
Price index numbers:												
Crude drugs.....rel. to Aug., 1914..	139	137	137	180	180	176	193	195	193			
Essential oils.....rel. to Aug., 1914..	91	90	87	168	161	155	158	155	175			
Drugs and pharmaceuticals.....rel. to Aug., 1914..	176	176	175	177	177	177	164	164	164			
Chemicals.....rel. to 1927..	94	94	94	100	100	100	99	99	100			
Oils and fats.....rel. to 1927..	78	74	73	100	105	99	95	97	95			
Wood Chemicals												
Acetate of lime:												
Production—												
United States.....thous. of lbs..	6,845	6,824	7,480	6,484	11,977	11,361	8,605	10,526	12,315	83,991	121,960	119,831
Shipments—												
United States.....thous. of lbs..	5,163	9,023	10,318	9,790	11,617	10,295	13,355	10,407	13,119	67,393	120,302	120,552
Stocks, end of month—												
United States.....thous. of lbs..	28,590	26,385	23,547	1,170	1,529	2,595	3,134	2,863	2,078			
Exports.....thous. of lbs..							13	449	36	23	221	11,149
Price, wholesale.....dolls. per cwt..	3.00	2.42	2.00	4.50	4.50	4.50	4.00	4.00	4.50			
Methanol, crude:												
Production—												
United States.....gallons..	328,002	413,451	464,167	554,512	672,741	660,636	495,555	641,823	745,430	4,979,295	7,144,107	6,808,056
Stocks at crude plants, end of mo.—												
United States.....gallons..	595,576	410,633	291,587	234,807	247,379	254,916	229,683	314,171	284,685			
Stocks at refineries and in transit—												
United States.....gallons..	357,166	79,236	59,197	514,572	521,967	615,852	164,972	161,723	167,012			
Exports.....gallons..	82,168	100,479	40,814	49,948	12,329	83,654	32,540	20,408	34,586	865,987	503,490	498,348
Wood at chemical plants:												
Consumption—												
United States.....cords..	35,401	42,282	47,216	59,689	71,762	67,253	49,444	65,182	73,633	527,467	751,690	687,150
Stocks, end of month—												
United States.....cords..	581,103	552,393	579,510	519,192	498,792	470,725	514,204	550,412	532,516			
Daily capacity—												
Total.....cords..	3,055	2,819	2,819	3,129	3,111	3,111	3,486	3,486	3,485			
Shutdown.....cords..	1,518	741	678	515	265	329	1,083	668	370			
Methanol, refined:												
Production—												
United States.....gallons..	404,505	647,711	521,179	528,449	558,238	569,445	355,353	487,384	536,782	4,947,208	5,771,829	5,315,111
Stocks, end of month—												
United States.....gallons..	421,306	431,210	376,360	730,132	730,189	739,291	300,478	325,914	422,640			
Shipments—												
United States.....gallons..	499,514	637,807	576,029	598,551	558,181	560,343	415,340	493,712	494,047	5,356,270	5,547,715	5,429,124
Price, wholesale, N. Y.....dolls. per gal..	.40	.40	.40	.58	.58	.52	.48	.51	.58			
Ethyl Alcohol												
Production.....thous. of gals..	14,299	18,455	20,861	20,739	25,426	20,898	18,613	20,685	19,220	149,383	190,400	165,083
Withdrawn for denaturation.....thous. of gals..	12,615	18,537	20,070	19,199	24,203	20,999	15,269	20,718	19,294	137,211	176,609	150,319
Warehouse stocks, end of month.....thous. of gals..	10,010	8,898	8,304	11,617	11,932	11,462	11,295	9,907	8,132			
Explosives												
(Black powder, permissible, and other high explosives)												
Production.....thous. of lbs..	35,688	34,113		42,019	42,108	36,134	35,310	38,636	35,524	327,890	371,635	328,253
Shipments.....thous. of lbs..	35,069	34,198		42,299	40,246	37,068	37,465	38,854	34,293	327,466	372,549	330,509
New orders.....thous. of lbs..	33,173	34,324		40,141	40,295	35,554	33,611	36,347	32,723	321,628	361,933	313,129
Stocks, end of month.....thous. of lbs..	16,694	16,812		16,895	17,811	16,734	16,274	16,011	17,147			
Naval Stores												
Turpentine (gum):												
Net receipts, southern ports.....barrels..	42,873	38,500	28,107	42,127	33,356	33,813	34,312	33,924	28,160	360,427	358,967	312,353
Stocks at port, end of month.....barrels..	76,774	88,499	95,860	65,770	67,038	68,546	73,595	79,509	83,472			
Price, southern, New York.....dolls. per gal..	.44	.41	.43	.55	.56	.53	.52	.53	.59			
Rosin (gum):												
Net receipts, southern ports.....barrels..	140,090	127,621	107,414	140,212	120,886	139,264	116,029	115,235	117,168	1,214,206	1,258,691	1,073,555
Stocks at 3 ports, end of mo.....barrels..	276,565	303,069	323,142	233,215	244,767	256,895	230,672	216,917	246,178			
Price, B, New York.....dolls. per bbl..	5.80	5.54	5.29	9.01	9.27	8.79	9.18	9.31	9.59			

⁶ Revised.

⁷ Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
CHEMICALS AND OILS—Contd.												
Naval Stores—Continued												
Rosin (wood):												
Production.....barrels.....	38,293	34,818	38,931	36,905	40,903	40,678	35,473	36,942	35,771	439,754	412,904	386,886
Stocks, end of month.....barrels.....	117,726	109,785	119,727	90,036	84,111	88,038	112,964	111,728	112,680			
Turpentine (wood):												
Production.....barrels.....	6,573	5,817	6,584	6,695	7,640	7,498	6,257	6,486	6,882	77,153	76,391	68,368
Stocks, end of month.....barrels.....	11,163	11,257	13,895	4,344	5,569	7,289	6,027	5,704	5,944			
Pine oil:												
Production.....gallons.....	229,238	225,688	229,979	222,112	259,017	249,603	211,828	219,525	211,960	2,661,149	2,522,037	2,484,824
Stocks, end of month.....gallons.....	1,528,564	1,609,525	1,707,540	888,328	875,424	946,258	845,762	845,645	827,633			
Fats and Oils												
Total vegetable oils and copra:												
Exports.....thous. of lbs.....	1,794	2,591	2,294	2,632	3,061	3,362	2,222	3,681	5,570	28,399	24,829	50,078
Imports.....thous. of lbs.....	73,445	106,699	75,352	82,942	88,409	67,961	80,914	82,176	71,918	892,797	988,265	692,763
Copra, imports.....short tons.....	31,139	33,725	33,886	18,007	17,208	19,722	20,754	22,897	30,955	262,754	269,230	221,947
Copra or coconut oil:												
Imports.....thous. of lbs.....	14,846	43,124	20,477	36,952	36,770	24,728	34,008	31,534	29,672	277,980	372,162	254,194
Consumption in oleomargarine.....thous. of lbs.....	15,818	18,248	17,111	16,075	19,511	16,803	14,452	15,714	16,026	161,499	167,589	144,713
Oleomargarine:												
Production.....thous. of lbs.....	28,554	32,191	29,633	30,562	36,624	33,437	28,446	30,631	30,569	296,735	323,368	287,590
Consumption.....thous. of lbs.....	27,194	33,138	30,631	31,423	34,591	35,281	29,002	30,137	32,755	293,767	320,329	288,939
Animal glues, shipments.....thous. of lbs.....	4,885	5,891		6,749	8,071	6,146	6,256	7,528	6,958	754,307	768,525	766,158
Cottonseed												
Cottonseed:												
Receipts at mills.....short tons.....	1,040,865	1,323,103	802,943	917,344	1,490,757	676,068	865,691	1,536,083	1,011,656	4,546,046	4,213,624	4,242,598
Consumption (crush).....short tons.....	561,625	936,743	801,800	489,048	902,039	679,061	421,362	910,576	864,453	4,568,790	4,382,085	3,915,013
Stocks at mills, end of month.....short tons.....	695,033	1,081,393	1,082,518	588,948	1,177,666	1,162,673	567,828	1,192,935	1,340,138			
Cottonseed oil, crude:												
Production.....thous. of lbs.....	169,458	283,929	239,913	149,121	277,468	244,107	126,787	282,715	271,707	1,416,163	1,389,523	1,242,069
Stocks, end of month.....thous. of lbs.....	79,280	110,829	114,595	77,215	120,472	123,485	68,856	124,625	141,906			
Cottonseed oil, refined:												
Production.....thous. of lbs.....	102,460	232,179	215,405	84,351	210,636	214,237	61,637	201,483	229,312	1,268,061	1,261,418	1,114,989
Stocks, end of month.....thous. of lbs.....	174,208	254,571	350,260	175,437	231,627	326,868	159,588	223,046	322,568			
Price, yellow, prime, New York.....dolls. per lb.....	.081	.076	.076	.093	.093	.090	.099	.099	.096			
Consumption in oleomargarine.....thous. of lbs.....	2,151	2,505	2,091	2,362	3,022	2,852	2,437	2,678	2,621	25,267	26,662	24,409
Cottonseed cake and meal:												
Production.....short tons.....	251,128	421,283	360,943	214,982	402,576	346,547	185,728	406,795	387,002	2,048,649	1,973,657	1,771,741
Stocks, end of month.....short tons.....	116,396	202,156	252,323	82,541	163,821	199,876	61,411	123,833	161,330			
Exports.....short tons.....	2,092	4,361	1,580	21,608	33,434	23,714	22,013	60,015	40,482	44,143	206,101	230,238
Flaxseed												
Minneapolis and Duluth:												
Receipts.....thous. of bush.....	5,054	2,636	1,424	4,111	3,189	1,313	3,812	6,600	2,140	14,388	12,632	17,334
Shipments.....thous. of bush.....	2,045	1,618	1,910	1,655	1,697	1,445	1,260	2,348	2,862	8,555	7,328	10,425
Stocks, end of mo.....thous. of bush.....	1,893	2,182	1,411	909	1,179	594	615	2,585	1,243			
Imports.....thous. of bush.....	59	148	387	842	2,582	1,666	1,254	1,209	1,417	12,443	22,895	16,066
Price No. 1, Minneapolis.....dolls. per bush.....	1.90	1.80	1.65	3.23	3.32	3.24	2.09	2.28	2.35			
Production, crop estimate.....thous. of bush.....			23,682			17,049			19,928			
Linseed oil:												
Shipments from Minneapolis.....thous. of lbs.....	11,565		10,199	14,789	13,707	8,467	14,443	15,437	13,622			
Price, New York.....dolls. per lb.....	.105	.099	.094	.155	.159	.150	.098	.101	.102			
Linseed cake and meal:												
Shipments from Minneapolis.....thous. of lbs.....	27,149		17,315	27,415	30,466	17,442	26,257	30,071	31,468			
Exports.....thous. of lbs.....	8,474	12,519	25,986	59,539	52,423	53,104	38,770	51,894	44,131	352,481	685,684	515,042
FOODSTUFFS												
Wheat												
Visible supply, end of month:												
United States.....thous. of bush.....	213,804	205,437	202,475	198,982	202,781	191,833	114,523	138,239	140,775			
Canada.....thous. of bush.....	148,288	178,827	197,998	156,620	213,381	217,102	78,069	158,204	173,890			
Receipts, principal markets.....thous. of bush.....	62,569	28,943	24,597	47,046	36,256	20,625	73,322	84,423	43,532	403,359	440,012	489,824
Shipments, principal markets.....thous. of bush.....	44,746	25,238	20,955	32,134	27,116	24,121	39,508	30,365	35,627	276,560	293,712	284,107
Production, crop estimate:												
Winter wheat.....thous. of bush.....			604,337			576,213			578,673			
Spring wheat.....thous. of bush.....			246,628			232,963			336,203			
Total, wheat.....thous. of bush.....			850,965			809,176			914,876			
Exports:												
United States—												
Wheat only.....thous. of bush.....	12,716	6,311	3,266	13,104	8,767	9,977	17,979	22,058	10,561	85,266	82,980	88,649
Including wheat flour.....thous. of bush.....	19,069	12,295	8,470	18,335	14,664	15,181	22,568	28,290	15,955	140,088	139,490	137,758
Canada—												
Including wheat flour.....thous. of bush.....	31,120	33,447	34,782	9,624	23,215	24,866	30,928	48,957	80,633	216,642	235,105	360,504
Prices:												
No. 1, Northern Spring, Minneapolis.....dolls. per bush.....	.87	.82	.75	1.35	1.31	1.28	1.19	1.16	1.16			
No. 2, Red Winter, St. Louis.....dolls. per bush.....	.88	.87	.83	1.35	1.32	1.29	1.45	1.44	1.45			
No. 2, Hard Winter, Kansas City.....dolls. per bush.....	.78	.74	.69	1.24	1.22	1.19	1.07	1.10	1.12			

² As of Dec. 1.³ Final estimate for 1929.⁴ Final estimate for 1928.⁶ Revised.⁷ Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER ³⁰		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
FOODSTUFFS—Continued												
Wheat Flour												
Grindings of wheat:												
United States.....thous. of bush..	49,382	49,914	42,377	47,583	50,445	43,913	48,014	52,890	45,289	483,769	487,670	479,203
Canada.....thous. of bush..	7,255	8,348	7,789	5,745	6,814	7,261	8,554	9,473	9,690	69,053	79,146	82,780
Production:												
United States, actual												
.....thous. of bbls..	10,674	10,817	9,184	10,372	10,968	9,538	10,512	11,587	9,909	104,833	106,402	103,860
United States, prorated												
.....thous. of bbls..	12,241	12,089	10,403	11,870	12,153	10,744	11,197	13,316	11,200	115,659	119,428	116,511
Canada.....thous. of bbls..	1,624	1,869	1,739	1,283	1,528	1,629	1,892	2,130	2,175	15,424	17,482	18,119
Exports:												
United States.....thous. of bbls..	1,412	1,330	1,156	1,163	1,311	1,156	1,020	1,385	1,199	12,182	12,557	10,914
Canada.....thous. of bbls..	734	814	792	492	554	538	890	1,171	1,159	6,913	8,969	9,814
Grain offal, production.....thous. of lbs..	888,576	899,580	762,078	831,523	886,004	776,745	820,934	910,900	780,189	8,618,192	8,495,694	8,378,677
Capacity operated, flour mills...per cent..	67	62	60	66	62	58	66	66	61			
Consumption (computed)												
.....thous. of bbls..	10,929	11,059	10,597	10,007	11,642	9,884	9,078	12,536	10,401	105,527	105,771	104,105
Stocks, all positions, end of month (computed).....thous. of bbls..	9,500	9,200	7,850	9,500	8,700	8,400	8,500	7,900	7,500			
Wholesale prices:												
Standard patents,												
Minn.....dolls. per bbl..	5.08	4.98	4.69	7.17	6.91	6.69	6.59	6.41	6.23			
Winter, straights,												
Kansas City.....dolls. per bbl..	4.44	4.23	4.14	6.10	6.01	5.92	5.65	5.59	5.53			
Corn												
Exports, including												
meal.....thous. of bush..	394	295	163	693	732	752	668	871	2,124	7,066	33,947	20,613
Visible supply, end of month.....thous. of bush..	4,976	4,703	7,411	4,638	3,924	3,646	7,114	2,271	7,223			
Receipts, principal												
markets.....thous. of bush..	16,048	15,176	17,067	19,532	18,303	18,526	19,658	13,323	26,921	222,980	235,753	288,335
Shipments, principal												
markets.....thous. of bush..	9,829	8,705	8,396	11,082	11,075	9,287	11,949	9,044	11,868	148,200	157,094	193,901
Grindings (starch, glucose).....thous. of bush..	6,473	6,253	5,434	7,913	8,721	6,453	6,541	7,725	7,535	70,421	80,564	80,374
Production, crop estimate.....thous. of bush..			2,081,048			2,614,132			2,818,901			
Prices:												
No. 3, Yellow, Chicago.....dolls. per bush..	.94	.82	.71	1.01	.95	.88	1.00	.96	.84			
No. 3, Yellow, Kansas City.....dolls. per bush..	.89	.82	.69	.99	.92	.87	.94	.86	.82			
No. 3, White, Chicago.....dolls. per bush..	.97	.88	.76	1.02	.96	.87	1.00	.98	.84			
Oats												
Receipts, principal												
markets.....thous. of bush..	15,381	9,445	6,075	13,833	15,336	7,098	14,375	13,872	10,834	115,064	139,138	143,083
Visible supply, end of month.....thous. of bush..	31,979	33,509	30,641	28,809	32,069	29,720	18,004	17,882	16,935			
Exports, including												
meal.....thous. of bush..	194	157	202	1,640	1,320	955	2,753	2,354	1,531	3,281	10,380	13,142
Production, crop estimate.....thous. of bush..			2,140,026			3,128,369			4,149,407			
Price, No. 3, White, Chicago.....dolls. per bush..	.38	.36	.33	.48	.47	.45	.41	.42	.44			
Grindings, Canada.....thous. of bush..	1,054	1,174	1,085	975	1,156	908	1,100	1,292	1,112	9,329	10,239	10,507
Production, oatmeal and rolled oats, Canada.....thous. of lbs..	14,843	14,749	14,605	12,263	14,632	10,457	16,499	17,760	13,988	119,070	128,599	138,040
Barley												
Receipts, principal												
markets.....thous. of bush..	12,477	5,765	4,207	7,807	5,554	3,808	21,710	16,797	7,377	53,012	63,557	96,022
Visible supply, end of month.....thous. of bush..	11,991	12,035	11,854	9,519	9,877	9,886	8,084	8,962	9,627			
Production, crop estimate.....thous. of bush..			2,325,893			3,302,892			4,357,487			
Exports.....thous. of bush..	1,359	1,295	964	6,209	1,795	1,038	14,830	11,639	5,263	10,702	31,429	50,624
Price, No. 2, Minneapolis.....dolls. per bush..	.53	.52	.48	.60	.59	.60	.63	.63	.62			
Rye												
Receipts, principal												
markets.....thous. of bush..	6,562	2,001	1,640	3,720	3,405	1,496	6,001	6,770	1,515	20,530	21,743	25,842
Visible supply, end of month.....thous. of bush..	14,842	13,860	13,316	8,889	9,903	10,588	1,927	4,437	4,143			
Exports, including												
flour.....thous. of bush..	25	49	4,260	1,220	562	22	2,471	3,098	1,401	4,567	3,495	14,191
Price, No. 2, Minneapolis.....dolls. per bush..	.55	.49	.43	.97	.97	.95	.94	.94	.98			
Production, crop estimate.....thous. of bush..			2,50,234			3,41,911			4,43,366			
Total Grains												
Total grain exports, incl. flour.....thous. of bush..	21,041	14,091	9,803	28,097	19,073	17,948	43,250	46,233	26,274	161,450	219,073	236,820
Rice												
Southern paddy, receipts at mills..bbls..	1,084,277	2,062,928		1,387,795	2,330,286	1,415,999	1,197,924	2,113,697	1,935,761	7,617,931	7,693,201	7,368,665
Shipments:												
Total from mills.....pockets (100 lbs.)..	766,414	1,322,711		841,027	1,378,400	1,133,788	777,583	1,245,714	1,277,631	7,412,049	7,905,843	7,916,218
New Orleans.....pockets (100 lbs.)..	128,756	201,483	126,781	147,464	249,474	178,168	147,464	202,697	251,453	1,090,644	1,588,033	1,811,036
Stocks, end of month.....pockets (100 lbs.)..	841,705	1,670,195		1,099,055	2,173,838	2,551,417	1,102,564	2,142,144	2,886,600			
Exports.....pockets (100 lbs.)..	94,030	150,938	383,517	131,509	229,686	340,753	150,623	230,320	408,910	2,165,434	3,439,928	3,247,303
Imports.....pockets (100 lbs.)..	5,667	7,285	46,930	6,292	6,662	12,494	15,412	8,864	16,663	186,890	201,641	306,210
Production, crop estimate.....thous. of lbs..			2,41,367			3,40,462			4,43,240			

² As of Dec. 1.³ Final estimate for 1929.⁴ Final estimate for 1928.⁵ Revised.⁷ Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
FOODSTUFFS—Continued												
Fruits and Vegetables												
Apples:												
Production, crop estimates												
.....thous. of bush.....			2 163, 543			3 142, 788			4 186, 893			
Cold-storage holdings, end of month.....thous. of bbls..	1, 872	6 9, 043	10, 859	1, 633	7, 997	9, 380	1, 631	8, 733	10, 392			
Car-lot shipments.....carloads..	12, 757	35, 782	17, 454	13, 114	36, 366	14, 046	18, 085	44, 034	19, 331	96, 206	95, 280	107, 941
Potatoes:												
Production, crop estimates												
.....thous. of bush.....			2 361, 090			3 359, 048			4 465, 350			
Car-lot shipments.....carloads..	21, 924	28, 788	16, 267	23, 978	31, 253	15, 299	20, 267	28, 921	17, 593	232, 734	231, 786	237, 754
Onions, car-lot shipments.....carloads..	5, 437	5, 593	2, 753	5, 040	5, 484	2, 815	6, 009	4, 115	2, 158	35, 990	33, 166	32, 148
Citrus fruits, car-lot shipments.....carloads..	4, 510	6, 301	11, 338	5, 684	8, 652	8, 936	3, 636	5, 868	11, 671	80, 573	126, 537	80, 862
Hay												
Receipts.....number of cars..	4, 808	5, 401	4, 863	4, 325	6, 258	4, 442	5, 361	8, 435	5, 366	53, 440	57, 104	65, 394
Production, crop estimates.....thous. of tons..			2 82, 656			3 100, 893			4 93, 351			
Cattle and Beef												
Cattle movements, primary markets:												
Receipts.....thousands..	2, 108	2, 377	1, 696	2, 105	2, 407	1, 943	2, 191	2, 541	1, 963	18, 430	18, 886	19, 967
Shipments, total.....thousands..	947	1, 223	873	888	1, 271	1, 012	1, 067	1, 327	944	7, 590	7, 775	8, 410
Shipments, stocker and feeder												
.....thousands..	443	691	478	423	747	556	563	799	497	3, 095	3, 385	3, 713
Local slaughter.....thousands..	1, 084	1, 183	823	1, 117	1, 170	958	1, 069	1, 195	1, 038	10, 689	10, 983	11, 399
Beef products:												
Production, inspected.....thous. of lbs..	434, 625	468, 983	342, 405	419, 281	458, 440	399, 272	418, 882	430, 688	410, 226	4, 305, 576	4, 356, 740	4, 360, 995
Apparent consumption.....thous. of lbs..	434, 287	463, 928	332, 327	423, 701	453, 543	386, 168	433, 958	421, 850	397, 635	4, 378, 662	4, 453, 964	4, 457, 508
Exports.....thous. of lbs..	1, 793	2, 347	1, 491	1, 259	1, 223	1, 100	647	1, 276	934	18, 078	15, 173	12, 447
Cold-storage holdings, end of month.....thous. of lbs..	60, 023	6 63, 862	73, 263	56, 434	72, 059	93, 444	37, 223	58, 036	79, 633			
Prices:												
Cattle, corn-fed, Chicago												
.....dolls. per 100 lbs..	10.33	9.97	10.31	13.80	13.31	12.69	16.19	14.63	14.28			
Steer rounds, No. 2.....dolls. per lb..	.191	.195	.195	.236	.236	.240	.259	.255	.253			
Western dressed steers, N. Y.												
.....dolls. per lb..	.203	.205	.205	.250	.238	.236	.284	.282	.262			
Hogs and Pork												
Hog movements, primary markets:												
Receipts.....thousands..	2, 799	3, 441	3, 439	3, 089	3, 701	3, 933	2, 600	3, 666	4, 075	36, 782	39, 841	41, 754
Shipments, total.....thousands..	1, 090	1, 392	1, 269	1, 128	1, 351	1, 396	1, 093	1, 341	1, 475	14, 340	14, 704	15, 661
Shipments, stocker and feeder												
.....thousands..	38	39	37	40	50	52	55	65	62	475	569	687
Local slaughter.....thousands..	1, 703	2, 048	2, 109	1, 944	2, 333	2, 543	1, 500	2, 311	2, 602	22, 431	25, 118	26, 054
Pork products, total:												
Production, inspected.....thous. of lbs..	472, 467	575, 700	665, 665	552, 490	651, 681	738, 485	434, 296	623, 716	471, 385	6, 919, 408	7, 579, 018	7, 610, 168
Apparent consumption.....thous. of lbs..	551, 557	636, 425	554, 021	614, 108	717, 951	657, 403	588, 472	675, 222	641, 378	6, 311, 687	6, 696, 984	6, 696, 633
Exports.....thous. of lbs..	53, 892	53, 798	62, 326	84, 650	97, 196	114, 707	65, 617	75, 384	88, 450	872, 294	1, 087, 203	975, 046
Cold-storage holdings, end of month.....thous. of lbs..	507, 159	6 393, 017	442, 744	754, 188	591, 247	558, 146	641, 977	516, 634	529, 019			
.....thous. of lbs..	447, 427	6 356, 806	411, 555	600, 498	491, 402	489, 629	515, 087	433, 160	461, 762			
Lard (included in pork products):												
Production.....thous. of lbs..	88, 059	101, 672		114, 179	128, 951	144, 987	80, 135	113, 968	141, 720	1, 251, 267	1, 441, 549	1, 411, 529
Exports.....thous. of lbs..	37, 417	41, 396	42, 552	58, 329	70, 698	83, 257	46, 158	59, 865	67, 716	597, 372	749, 266	673, 365
Cold-storage holdings, end of month.....thous. of lbs..	59, 732	6 36, 211	31, 189	153, 690	99, 845	68, 517	126, 890	83, 474	67, 257			
Prices:												
Hogs, heavy, Chicago												
.....dolls. per 100 lbs..	10.58	9.86	8.86	9.96	9.65	9.27	12.43	10.03	9.02			
Hams, smoked, Chicago												
.....dolls. per lb..	.227	.221	.222	.267	.242	.218	.254	.260	.243			
Lard, prime contract, N. Y.												
.....dolls. per lb..	.119	.119	.112	.122	.114	.109	.132	.124	.121			
Sheep and Lambs												
Sheep movement, primary market:												
Receipts.....thousands..	3, 580	3, 784	2, 607	3, 355	4, 093	2, 168	3, 386	3, 938	2, 053	27, 494	25, 164	23, 987
Shipments, total.....thousands..	2, 016	2, 288	1, 534	1, 971	2, 819	1, 207	2, 161	2, 485	1, 091	13, 524	13, 264	12, 630
Shipments, stocker and feeder												
.....thousands..	907	1, 024	761	1, 027	1, 831	575	1, 080	1, 466	544	4, 181	5, 382	4, 816
Local slaughter.....thousands..	1, 479	1, 597	1, 079	1, 301	1, 328	995	1, 213	1, 403	1, 016	13, 935	11, 886	11, 335
Lamb and mutton:												
Production, inspected.....thous. of lbs..	59, 297	65, 060	51, 236	50, 158	52, 677	45, 233	49, 237	54, 107	45, 546	593, 285	501, 749	481, 472
Apparent consumption.....thous. of lbs..	58, 875	64, 948	50, 893	49, 551	51, 963	44, 976	49, 042	52, 077	44, 756	592, 781	505, 998	482, 509
Cold-storage holdings, end of month.....thous. of lbs..	4, 320	6 4, 326	4, 632	4, 113	4, 992	5, 194	2, 113	4, 321	5, 472			
Prices:												
Sheep, ewes, Chicago												
.....dolls. per 100 lbs..	3.08	3.84	3.38	4.68	4.63	4.98	5.50	5.35	5.31			
Sheep, lambs, Chicago												
.....dolls. per 100 lbs..	7.35	7.03	7.13	12.55	12.09	11.96	14.16	13.08	12.69			
Miscellaneous Meats												
Cold-storage holdings, end of month.....thous. of lbs..	80, 653	6 72, 444	75, 922	71, 511	63, 914	72, 744	49, 798	52, 201	60, 392			
Total Meats												
Production, inspected.....thous. of lbs..	966, 388	1, 109, 743	1, 059, 306	1, 021, 929	1, 162, 798	1, 182, 990	902, 414	1, 108, 511	1, 197, 158	11, 818, 268	12, 437, 508	12, 452, 633
Cold-storage holdings, end of month.....thous. of lbs..	652, 155	6 533, 649	596, 561	886, 246	732, 212	729, 528	731, 111	631, 192	674, 516			
Apparent consumption.....thous. of lbs..	1, 044, 719	1, 165, 300	937, 242	1, 087, 360	1, 223, 457	1, 088, 547	1, 071, 472	1, 149, 149	1, 083, 769	11, 283, 130	11, 686, 946	11, 636, 650

As of Dec. 1.

3 Final estimate for 1929.

4 Final estimate for 1928.

6 Revised.

7 Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
FOODSTUFFS—Continued												
Poultry												
Receipts at 5 markets.....thous. of lbs..	24,900	33,128	67,361	28,477	37,725	73,662	23,859	35,613	60,812	304,570	312,192	285,939
Cold-storage holdings, end of month.....thous. of lbs..	46,938	59,269	82,929	61,976	86,873	115,876	43,578	58,093	79,173			
Fish												
Total catch, prin. ports.....thous. of bbls..	40,687	30,541	25,967	50,270	33,243	27,332	24,284	27,129	23,236	368,264	355,153	275,425
Cold-storage holdings, 15th of month.....thous. of lbs..	85,498	88,616	91,436	72,674	75,864	79,439	71,352	73,410	77,677			
Canned salmon:												
Shipments, United States.....cases..	1,432,990	653,227	273,476	937,041	584,590	378,695	1,113,495	810,723	504,854	5,807,560	4,928,819	5,112,565
Exports, Canada.....cases..	152,779	194,623	108,996	118,250	162,831	177,252	168,963	253,265	145,725	845,331	1,101,039	1,169,725
Butter												
Production (factory).....thous. of lbs..	119,388	117,372	98,138	123,582	118,116	97,186	119,499	105,894	87,745	1,424,695	1,495,173	1,394,565
Receipts, 5 markets.....thous. of lbs..	40,853	38,933	36,848	44,500	42,963	38,228	44,969	41,884	36,616	540,305	562,825	541,910
Cold-storage holdings, creamery, end of month.....thous. of lbs..	131,489	109,646	87,969	158,541	138,405	111,650	128,071	105,811	70,985			
Apparent consumption.....thous. of lbs..	179,305	181,569	154,987	174,193	172,923	153,125	176,879	171,922	158,919	1,952,946	1,952,066	1,923,335
Wholesale price, New York.....dolls. per lb..	.40	.40	.36	.46	.46	.43	.49	.48	.51			
Cheese												
Total, all varieties:												
Production (factory).....thous. of lbs..	36,062	28,239	25,583	47,382	43,206	35,176	45,509	41,017	32,340	393,379	544,069	495,015
Receipts, 5 markets.....thous. of lbs..	14,509	12,226	10,784	15,289	14,344	11,828	18,222	18,665	14,180	154,195	168,020	184,923
Apparent consumption.....thous. of lbs..	43,695	41,637	40,035	38,414	42,329	37,112	48,660	43,522	42,506	449,846	424,319	457,092
Cold-storage holdings, end of month.....thous. of lbs..	103,691	96,393	86,874	102,849	94,879	86,949	98,339	97,421	89,970			
Imports.....thous. of lbs..	4,333	6,293	5,041	4,929	6,911	6,902	6,744	9,410	9,379	63,041	69,408	72,566
Exports, United States.....thous. of lbs..	121	183	108	284	195	130	141	204	278	1,787	2,403	2,411
Exports, Canada.....thous. of lbs..	12,652	16,568	14,677	16,954	17,144	13,925	17,123	24,282	15,431	76,138	87,983	108,579
American whole milk:												
Cold-storage holdings, end of month.....thous. of lbs..	85,076	78,919	70,842	84,815	78,058	71,065	81,833	82,318	74,325			
Wholesale price, New York.....dolls. per lb..	.20	.19	.19	.24	.24	.24	.27	.26	.25			
Eggs												
Receipts, 5 markets.....thous. of cases..	952	717	593	944	735	532	939	794	546	15,398	15,077	14,832
Cold-storage holdings, end of month:												
Case.....thous. of cases..	9,174	6,785	4,150	7,195	4,930	2,631	8,542	6,247	3,542			
Frozen.....thous. of lbs..	106,631	98,359	89,567	81,541	70,331	61,772	82,255	73,327	64,201			
Milk												
Condensed milk:												
Total stocks, end of month—												
Case goods.....thous. of lbs..	27,314	24,650	20,657	29,893	29,182	27,126	27,837	23,949	18,864			
Bulk goods.....thous. of lbs..	23,727	21,965	20,885	30,038	27,559	24,514	17,604	14,429	14,759			
Unsold stocks, mfrs., end of mo.—												
Case goods.....thous. of lbs..	22,951	20,427	16,678	24,237	23,614	21,732	21,821	17,818	13,588			
Bulk goods.....thous. of lbs..	8,119	7,935	7,842	8,019	7,735	6,855	6,351	4,840	3,640			
Exports.....thous. of lbs..	1,479	1,718	1,973	3,116	4,019	2,771	3,405	2,531	3,335	27,558	41,144	35,732
Wholesale price, New York.....dolls. per case..	6.03	6.03	6.03	6.13	6.13	6.13	6.18	6.18	6.18			
Evaporated milk:												
Manufacturers' stocks, end of mo.—												
Total, case goods.....thous. of lbs..	218,486	224,486	211,828	249,936	244,035	231,970	165,682	164,989	158,293			
Unsold, case goods.....thous. of lbs..	179,047	187,262	174,148	192,761	192,084	185,455	134,259	138,808	136,271			
Exports.....thous. of lbs..	3,452	4,718	4,366	3,703	5,179	4,767	5,583	5,264	6,275	56,714	63,616	71,969
Wholesale price, New York.....dolls. per case..	3.80	3.80	3.80	4.21	3.95	3.95	4.58	4.58	4.58			
Production, condensed and evaporated milk.....thous. of lbs..	139,802	149,136	132,284	147,939	135,209	113,160	140,388	118,848	95,642	1,874,809	2,082,015	1,805,619
Powdered milk:												
Manufs.' stocks, end of month.....thous. of lbs..	32,770	33,281	35,680	30,775	29,118	29,616	18,857	16,864	13,824			
Exports.....thous. of lbs..	477	467	507	329	678	446	322	313	502	5,758	4,827	3,653
Net new orders.....thous. of lbs..	10,151	9,853	8,447	9,781	8,640	7,938				109,492	97,166	
Fluid milk:												
Receipts—												
Boston (includ. cream).....thous. of qts..	19,634	19,403	18,226	18,273	18,699	18,990	17,329	18,385	16,886	213,783	203,128	197,288
Greater New York.....thous. of qts..	119,356	116,140		118,605	118,929	114,399	113,552	116,849	108,685	1,172,055	1,170,751	1,141,036
Consumption in manufacture of oleomargarine.....thous. of lbs..	7,799	9,066	8,404	8,824	10,321	9,486	8,530	9,151	8,931	82,043	89,672	84,871
Sugar												
Raw:												
Imports—												
From Hawaii, Porto Rico.....long tons..	117,776	82,660	50,977	120,481	92,684	31,962	89,047	104,841	57,602	1,408,495	1,178,510	1,344,595
From foreign countries.....long tons..	273,960	277,350	293,558	292,699	256,953	182,891	315,722	257,825	229,477	2,816,347	4,206,158	3,249,264
Meltings, 8 ports.....long tons..	413,912	402,333	337,360	322,716	380,758	305,946	417,983	436,122	404,450	4,353,735	4,541,106	4,441,053
Stocks at refineries, end of month.....long tons..	378,969	283,778	321,930	873,286	798,870	728,484	465,386	357,506	234,429			
Refined:												
Shipments, 2 ports.....long tons..	72,208	62,113	59,916	47,447	60,610	37,394	66,428	61,799	48,231	727,558	757,905	669,038
Stocks, 2 ports.....long tons..	53,998	46,134	37,759	49,631	39,375	43,783	26,725	32,920	25,007			
Exports, including maple.....long tons..	6,668	8,553	6,576	5,705	5,674	4,454	7,413	11,971	14,887	64,754	88,536	103,682

* Revised.

† Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
FOODSTUFFS—Continued												
Sugar—Continued												
Prices:												
Wholesale, 96° centnf., New York.....dolls. per lb.	.031	.033	.034	.040	.040	.038	.042	.039	.039			
Wholesale, granulated, New York.....dolls. per lb.	.043	.044	.047	.053	.054	.050	.056	.052	.051			
Retail, granulated, New York.....dolls. per lb.	.054	.053	.053	.061	.061	.061	.063	.062	.060			
Retail average, 51 cities.....relative to 1913	107	106	107	122	122	122	127	126	124			
Cuban movement (raw):												
Receipts at Cuban ports.....long tons	152,166	124,848	213,688	120,530	94,130	88,875	168,638	154,547	123,919	3,681,849	4,775,959	4,877,553
Exports.....long tons	274,588	291,311	413,406	349,972	241,256	174,904	370,339	323,317	287,075	3,115,631	4,474,713	3,716,799
Stocks, end of month.....long tons	1,162,515	957,767	764,387	503,592	326,927	254,694	630,548	446,210	288,393			
Candy												
Sales by manufacturers.....thous. of dolls.	28,027	31,004	29,500	34,779	38,523	37,673				268,729	312,686	
Coffee												
Imports.....thous. of bags	991	1,159	967	925	1,004	822	1,655	809	882	11,019	10,275	11,029
Visible supply:												
World.....thous. of bags	5,498	5,051	5,014	5,227	5,043	4,979	5,378	5,390	5,393			
United States.....thous. of bags	934	828	817	689	686	598	702	693	752			
Receipts, total, Brazil.....thous. of bags	1,595	1,437	1,549	1,266	1,365	1,446	1,040	1,157	1,287	15,052	13,053	13,085
Clearances:												
Total, Brazil, for world.....thous. of bags	1,469	1,176	1,080	1,234	1,324	1,214	997	1,330	993	13,235	12,773	12,494
Total, Brazil, for United States.....thous. of bags	852	659	514	642	682	573	570	667	544	6,928	6,551	6,626
Price, Rio No. 7, Brazil grades.....dolls. per lb.	.072	.089	.079	.158	.139	.116	.173	.178	.181			
Tea												
Imports.....thous. of lbs.	8,717	9,917	7,565	8,737	10,555	9,087	9,754	10,512	9,417	76,897	80,693	80,719
Price, Formosa fine, New York.....dolls. per lb.	.224	.223	.225	.310	.310	.310	.325	.310	.310			
Cocoa												
Shipments from the Gold and Nigerian Coasts, Africa.....long tons	7,554	12,660	18,888	4,459	18,491	40,483	3,724	15,326	33,805	217,008	251,170	221,706
Imports.....long tons	11,008	7,410	6,338	10,481	16,147	14,270	6,388	5,450	6,636	152,921	203,774	155,134
Spot price, Accra, New York.....dolls. per lb.	.0670	.0675	.0688	.1100	.1063	.0920	.1163	.1125	.1055			
TOBACCO												
Consumption (tax-paid withdrawals):												
Large cigars.....thousands	523,973	623,861	528,128	591,738	701,711	622,938	586,267	723,318	630,531	5,539,498	6,140,820	6,041,759
Small cigarettes.....thousands	10,190,031	10,947,130	7,951,588	10,350,544	11,202,294	9,041,043	9,126,271	9,921,537	8,536,426	110,950,192	110,777,486	98,400,864
Manufac. tobacco and snuff.....thous. of lbs.	32,166	33,026	25,976	32,260	33,738	28,342	31,789	35,333	30,146	353,061	353,073	378,743
Exports:												
Unmanufactured.....thous. of lbs.	53,841	78,262	57,964	55,965	79,150	72,609	57,509	88,509	78,170	518,561	501,436	515,277
Cigarettes.....thousands	305,676	318,751	251,507	558,249	586,767	433,294	961,827	956,846	1,114,381	4,588,120	7,787,869	10,596,618
Production, crop estimate.....thous. of lbs.			1,510,308			1,524,677			1,374,547			
TRANSPORTATION												
River and Canal Cargo Traffic												
Panama Canal:												
Total cargo traffic.....thous. of long tons	2,060	2,394	2,263	2,433	2,846	2,535	2,313	2,582	2,502	25,678	28,927	26,659
In American vessels.....thous. of long tons	1,040	1,133	1,009	1,194	1,344	1,271	1,140	1,195	1,145	12,251	13,626	12,449
In British vessels.....thous. of long tons	436	546	615	600	774	579	602	679	691	6,386	7,545	7,445
New York State canals.....thous. of short tons	458	608	390	389	491	333	411	536	328	3,606	2,877	3,139
Sault Ste. Marie canals.....thous. of short tons	10,347	9,094	5,130	13,356	11,213	6,952	12,812	13,603	10,458	72,585	92,138	85,731
Cape Cod Canal.....short tons	244,640	230,043	225,322	199,955	243,668	196,259	130,566	160,903	140,464	2,273,922	1,975,654	1,251,944
Suez Canal.....thous. of met. tons	2,204	2,217	2,772	2,772	2,977	2,726	2,634	2,622	2,749	7,24,079	7,28,871	7,26,823
Welland Canal.....short tons	980,532	916,563	583,907	574,241	623,651	448,150	996,833	1,115,190	1,008,483	6,021,253	4,722,263	7,329,824
St. Lawrence Canal.....short tons	914,038	876,821	563,476	775,772	749,287	523,328	1,150,058	1,270,051	1,082,545	6,115,405	5,694,709	8,326,704
Mississippi River Govt. barges.....short tons	113,749	103,000		90,947	137,021	103,478	148,377	120,444	148,218	795,308	7,115,477	7,151,903
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.....short tons	927,902	1,037,028	926,013	1,144,682	1,151,819	1,034,382	963,766	1,010,860	940,397	10,018,111	10,449,272	9,410,118
Allegheny River.....short tons	282,393	246,832	230,423	364,309	366,351	317,967	288,629	377,744	302,344	2,798,121	3,038,775	2,711,635
Monongahela River.....short tons	2,086,575	2,075,278	1,810,661	2,374,949	2,464,099	2,367,506	2,305,681	2,396,557	2,302,719	23,485,493	26,085,255	23,982,487
Shipbuilding												
Completed during month:												
Total.....gross tons	32,083	51,667	53,551	28,325	8,620	14,347	27,833	7,148	4,913	411,566	195,098	160,052
Steel seagoing.....gross tons	20,125	16,895	39,830	24,322	2,167	7,369	24,483	4,318	1,382	220,733	107,360	96,441
Building or under contract, end of month:												
Merchant vessels.....thous. of gross tons	423	366	359	254	400	384	242	260	169	4,487	2,622	2,590
Ocean Traffic												
Clearances, vessels in foreign trade:												
Total.....thous. of net tons	7,653	7,074	6,224	7,559	7,503	6,971	7,365	7,806	7,764	76,130	76,887	73,776
American.....thous. of net tons	3,060	2,651	2,501	2,833	3,041	2,982	2,912	3,252	3,612	29,958	29,829	29,416
Foreign.....thous. of net tons	4,593	4,423	3,723	4,726	4,463	3,989	4,453	4,554	4,152	46,172	47,058	44,360

² As of Dec. 1.³ Final estimate for 1929.⁴ Final estimate for 1928.⁶ Revised.⁷ Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
TRANSPORTATION—Continued												
Warehouses												
Public merchandise warehouses, space occupied.....per ct. of total..	68.4	68.8	74.3	76.4	77.1	66.1	66.4	68.8				
PUBLIC UTILITIES												
Telephone companies:												
Operating revenues.....thous. of dolls..	76,925	79,173	75,606	79,653	77,664	68,432	72,464	71,213	777,842	775,629	7681,466	
Operating income.....thous. of dolls..	17,756	19,074	18,197	20,047	18,302	16,496	18,565	17,649	176,460	181,437	1,677,606	
Telegraph companies:												
Commercial telegraph												
tolls.....thous. of dolls..	10,117	10,137	11,531	12,485	10,540	11,010	11,765	10,623	104,376	115,648	1,088,639	
Operating revenues.....thous. of dolls..	13,054	13,157	14,751	15,947	13,633	13,911	14,928	13,661	134,028	146,767	1,336,187	
Operating income.....thous. of dolls..	1,467	1,829	1,724	2,029	2,260	1,918	2,247	1,770	12,510	16,939	177,823	
Electric railways (212 companies):												
Passengers carried.....thous. of persons..	646,036	701,279	658,789	704,818	774,466	748,624	717,810	795,140	7,702,791	8,348,001	8,471,750	
ELECTRIC POWER												
Electric power production:												
Total.....mills. of kw. hours..	7,765	8,173	7,692	8,062	8,709	8,242	7,276	7,922	7,753	87,599	88,840	79,938
By water power.....mills. of kw. hours..	2,252	2,272	2,172	2,473	2,732	2,644	2,787	2,873	2,787	30,455	31,877	31,934
By fuels.....mills. of kw. hours..	5,513	5,901	5,520	5,589	5,976	5,599	4,488	5,049	4,965	57,086	56,963	48,003
In street railways,												
manf. plants, etc. mills. of kw. hours..	479	486	465	380	389	360	355	374	373	5,484	4,204	4,618
In central stations.....mills. of kw. hours..	7,286	7,687	7,227	7,682	8,320	7,882	6,921	7,548	7,380	82,105	84,636	75,336
Electric power production (Canada):												
Total.....mills. of kw. hours..	1,428	1,549	1,485	1,477	1,594	1,595	1,280	1,460	1,442	16,199	16,091	14,491
By water power.....mills. of kw. hours..	1,404	1,525	1,456	1,455	1,559	1,559	1,262	1,439	1,417	15,906	15,999	14,292
Exported.....mills. of kw. hours..	154	161	142	136	126	124	130	155	138	1,472	1,342	1,466
Electric power, gross												
revenue.....thous. of dolls..	174,940	182,990	173,600	182,500	190,200	156,100	167,700	177,600	1,771,730	1,696,500	1,558,899	
Rate of manufacturing operations (based on the consumption of electrical energy for power purposes):												
Activity by geographical divisions—												
United States.....rel. to 1923-25..	110.7	103.2	105.4	135.8	134.6	122.9	134.5	132.0	133.3			
New England.....rel. to 1923-25..	88.1	93.2	96.5	118.2	126.2	118.1	115.3	126.0				
North Central.....rel. to 1923-25..	110.6	107.3	109.2	140.6	136.9	122.2	149.7	143.5	145.7			
Middle Atlantic.....rel. to 1923-25..	103.1	99.6	109.8	138.0	133.0	124.3	136.0	138.9				
Southern.....rel. to 1923-25..	120.1	118.4	111.2	126.3	131.2	122.8	127.5	129.7	127.6			
Western.....rel. to 1923-25..	130.9	116.1	117.8	143.1	133.8	142.6	150.8	148.7	156.7			
Activity by industries—												
All industries.....rel. to 1923-25..	110.7	103.2	105.4	135.8	134.6	122.9	134.5	132.0	133.3			
Chemical and allied												
products.....rel. to 1923-25..	147.1	122.4	150.5	139.9	145.0	147.3	132.0	129.4	135.7			
Food and kindred												
products.....rel. to 1923-25..	148.6	137.2	125.3	141.2	131.7	127.9	142.0	138.0	130.0			
Rolling mills and steel												
plants.....rel. to 1923-25..	110.3	126.0	109.7	152.3	144.8	123.2	141.2	144.7	148.8			
Metal working												
plants.....rel. to 1923-25..	97.4	87.0	93.5	147.4	145.0	128.7	144.2	144.5	140.5			
Metal groups.....rel. to 1923-24..	101.4	101.2	99.4	149.2	145.1	126.7	143.0	144.6	143.5			
Leather and its												
products.....rel. to 1923-25..	73.5	84.9	69.0	105.4	93.0	97.6	106.9	103.8	94.0			
Lumber and its												
products.....rel. to 1923-25..	105.6	77.1	95.3	111.4	109.8	111.8	111.3	109.3	111.8			
Paper and pulp.....rel. to 1923-25..	119.3	120.0	101.2	127.0	141.0	133.7	132.0	133.3	135.2			
Rubber and its												
products.....rel. to 1923-25..	107.2	99.0	95.3	133.7	135.1	113.1	151.2	146.4	143.8			
Shipbuilding.....rel. to 1923-25..	124.1	121.5	132.8	114.9	134.4	114.0	72.3	73.8	102.2			
Stone, clay, and												
glass.....rel. to 1923-25..	120.5	106.3	119.4	165.7	159.2	146.2	152.0	144.7	149.1			
Textiles.....rel. to 1923-25..	85.1	85.4	94.2	115.5	129.8	115.5	112.5	121.0	132.5			
Automobiles, including												
repair parts.....rel. to 1923-25..	88.4	80.9	74.9	138.1	122.4	88.4	161.0	141.2	127.1			
EMPLOYMENT AND WAGES												
Employment in factories:												
New York State.....rel. to 1923..	75.6	74.3	72.0	89.3	89.7	87.6	84.3	86.0	85.8			
Maryland.....rel. to 1924..	83.4	81.6	78.8	94.2	93.1	90.9	89.0	90.4	88.0			
Iowa.....rel. to 1923..	115.1	114.3	117.7	133.4	133.6	130.0	124.0	128.0	125.3			
Massachusetts.....rel. to 1925-27..	73.3	72.5	70.4	91.1	90.8	86.8	86.5	90.1	90.6			
Illinois.....rel. to 1925-27..	82.9	80.2	77.7	105.8	103.8	102.7	97.7	97.8	98.3			
Ohio.....rel. to 1926..	81.9			105.6	102.9	97.0	106.5	106.3	105.3			
Cleveland.....rel. to Jan., 1921..	92.0	91.6	87.4	124.0	119.2	108.8	114.5	110.6	113.2			
Detroit.....rel. to 1923-25..	74.8	79.0	75.8	119.0	98.5	93.0	134.0	129.0	124.0			
New York State.....number..	418,262	411,333	398,424	494,311	496,578	455,018	466,357	475,753	475,043			
Oklahoma.....number..	35,058			38,239	38,620	37,510	30,812	31,960	31,794			
Total pay roll:												
New York State												
(weekly).....thous. of dolls..	12,061	11,489	10,883	15,063	14,938	14,328	13,862	14,168	14,094			
Oklahoma (weekly).....thous. of dolls..	944			1,015	1,054	1,032	865	868	864			
New York State.....rel. to 1923..	80.0	76.2	72.2	99.9	99.1	95.0	92.0	94.0	93.5			
Illinois.....rel. to 1925-27..	71.4	69.0	64.0	105.0	105.8	101.3	97.1	98.3	97.7			
Employment:												
Canada.....rel. to cal. year 1926..	116.6	116.2	112.9	126.8	125.6	124.6	119.1	118.8	118.9			
Ohio construction.....rel. to 1926..	89.6			115.0	114.7	105.2	136.3	134.0	120.9			
Employment, trade-unions:												
United States.....per cent of total..	79.0	79.0	78.0	90.0	89.0	88.0	90.0	91.0	90.0			
Canada.....per cent of total..	90.6	89.2		96.3	94.0	90.7	97.8	96.9	95.8			
Anthracite mines:												
Employment.....rel. to 1923-25..	94.5	99.7	97.8	105.5	109.8	107.6	112.7	135.9	117.7			
Pay roll.....rel. to 1923-25..	78.1	99.9	83.5	83.4	116.6	87.6	112.5	134.7	110.1			
Federal civilian employees,												
Washington, D. C., end month number..	70,598	70,790	71,052	63,516	63,713	63,877	62,010	62,016	62,244			
Average weekly earnings, factories:												
Illinois.....dollars..	26.43	26.42	25.31	28.26	29.17	28.52	28.31	28.57	28.38			
New York State.....dollars..	28.84	27.94	27.32	30.47	30.08	29.54	29.72	29.78	29.67			
Wisconsin.....dollars..	22.16			25.17	26.70	26.13	26.30	27.25	26.87			
New York.....rel. to 1923..	105.9	102.6	100.3	111.9	110.4	108.4	109.1	109.3	108.9			
Illinois.....rel. to 1925-1927..	93.1	93.1	89.2	99.6	102.8	100.5	99.8	100.7	99.7			

* Revised.

† Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
EMPLOYMENT AND WAGES—Con.												
Average weekly earnings (National Industrial Conference Board):												
Grand total (both sexes).....dollars	25.22	24.92	24.06	28.58	28.80	27.72	27.76	27.76	27.42			
Total male.....dollars	26.87	26.25	25.15	31.56	31.60	29.37	30.93	30.70	29.75			
Skilled male.....dollars	28.08	27.25	26.11	33.06	33.14	30.81	32.42	32.26	31.21			
Unskilled male.....dollars	21.93	22.13	21.29	25.82	25.64	23.86	25.27	24.72	24.34			
Total women.....dollars	13.27	15.72	15.22	17.81	17.84	17.03	17.33	17.34	17.16			
Average weekly hours:												
Nominal (both sexes).....hours	48.3	48.2	47.8	49.6	49.4	49.3	49.8	49.6	49.6			
Actual (both sexes).....hours	42.5	42.3	41.1	49.0	49.4	46.9	48.2	48.0	47.8			
Wages, road labor, by districts:												
New England.....cents per hour	50	49	50	51	51	49	48	51	50			
Middle Atlantic.....cents per hour	42	41	40	43	42	42	42	41	41			
South Atlantic.....cents per hour	23	22	22	29	27	24	24	26	27			
East South Central.....cents per hour	24	24	24	25	26	26	25	26	27			
West South Central.....cents per hour	27	27	26	31	30	30	26	30	31			
East North Central.....cents per hour	38	38	37	39	38	39	38	40	40			
West North Central.....cents per hour	37	38	35	37	37	37	39	39	40			
Mountain.....cents per hour	48	48	47	48	48	48	52	49	42			
Pacific.....cents per hour	53	53	52	54	53	52	54	54	53			
United States, average.....cents per hour	40	39	38	41	40	40	43	42	42			
Wage rates, U. S. Steel Corp. etc. per hour	50	50	50	50	50	50	50	50	50			
Wages, steel sheet workers, per ct. of base	127.0	127.0	127.0	127.0	127.0	127.0	125.5	125.5	125.5			
Applicants per 100 jobs, employment agencies:												
United States.....number	170	193	227	114	127	153	107	117	134			
Eastern States.....number	181	192	231	121	132	153	120	128	142			
Central States.....number	222	240	251	132	148	177	126	133	125			
Southern States.....number	201	277	344	148	164	205	91	142	153			
Western States.....number	71	74	123	67	71	75	63	62	71			
Illinois.....number	230	278	280	136	147	181	130	133	144			
Wisconsin.....number	188	178		117	128	160	104	116	140			
Canada.....number	159	211		129	143	164	110	123	150			
Factory Labor Turnover												
(Percentage of number on pay roll)												
Departures:												
Total.....per cent (annual basis)	30.0	27.8	22.6	50.6	42.6	38.4	50.6	41.9	35.3			
Voluntary.....per cent (annual basis)	13.7	9.6	6.9	38.2	28.5	19.4	40.3	31.9	25.6			
Lay offs.....per cent (annual basis)	14.3	17.0	14.7	6.3	9.4	15.3	5.0	4.7	4.8			
Discharges.....per cent (annual basis)	2.0	1.2	1.0	6.1	4.7	3.7	5.3	5.3	4.9			
Accessions.....per cent (annual basis)	22.2	17.6	10.2	59.7	46.0	23.7	56.9	57.1	50.1			
Industrial disputes:												
Disputes.....number	6 43	39		49	31	32	34	42	38			
Workers involved.....number	6 13,476	16,549		8,132	6,135	6,067	62,862	41,474	38,745			
Man-days lost in month.....number	6 203,533	345,100		244,864	272,018	204,457	2,571,982	1,304,913	1,300,362			
DISTRIBUTION MOVEMENT												
Retail Sales												
Mail-order houses:												
Total sales, 2 houses.....thous. of dolls.	54,419	68,877	55,713	63,078	79,256	73,697	50,814	63,587	61,628	594,296	644,964	504,942
Sears, Roebuck & Co.....thous. of dolls.	33,086	38,785	33,312	36,950	47,075	43,846	30,004	37,002	36,172	350,649	389,233	304,539
Montgomery Ward & Co.....thous. of dolls.	21,333	30,093	22,401	26,128	32,181	29,851	20,810	26,585	25,456	243,647	255,731	200,403
Ten-cent chain stores:												
Total sales (4 chains).....thous. of dolls.	42,377	48,597	45,725	43,180	51,061	49,879	42,906	48,993	46,807	466,995	484,588	350,310
Total stores operated (4 chains).....number	3,002	3,011	2,807	2,816	2,834	2,856	2,586	2,615	2,637			
F. W. Woolworth & Co.....thous. of dolls.	22,353	26,422	24,077	22,264	27,678	26,160	22,637	26,896	24,661	246,958	258,879	241,867
Stores operated.....number	1,886	1,899	1,890	1,815	1,823	1,828	1,698	1,718	1,725			
S. S. Kresge Co.....thous. of dolls.	11,265	12,853	12,503	11,971	13,761	14,021	11,914	12,925	13,034	126,371	132,086	122,519
Stores operated.....number	665	668	676	560	568	584	474	481	492			
McCrorey Stores Corp.....thous. of dolls.	3,278	3,606	3,617	3,582	3,798	3,854	3,344	3,471	3,451	36,441	37,413	33,823
Stores operated.....number	240	241	241	243	243	224	224	224	224			
S. H. Kress & Co.....thous. of dolls.	5,478	5,716	5,528	5,363	5,824	5,844	5,011	5,701	5,661	57,224	56,216	53,101
Stores operated.....number	211	213	213	200	200	201	190	192	194			
W. T. Grant Co.....thous. of dolls.	5,286	7,084	6,677	4,777	6,164	6,511	4,708	5,418	5,515	59,260	53,912	44,659
Stores operated.....number	318	340	346	258	263	273	199	203	207			
F. & W. Grand.....thous. of dolls.	1,663	2,026	1,894	1,731	2,016	2,067	1,443	1,756	1,719	18,791	18,328	13,772
Stores operated.....number	111	112	112	90	91	94	76	80	81			
Isaac Silver & Bros.....thous. of dolls.	566	693	673	679	919	828	512	610	632	6,934	6,961	5,308
Stores operated.....number	45	44	45	43	45	45	29	30	31			
J. C. Penny Co.....thous. of dolls.	15,956	19,860	18,937	18,245	23,301	24,420	16,478	19,447	19,304	169,218	180,111	151,594
Stores operated.....number	1,446	1,450	1,452	1,337	1,373	1,390	1,006	1,020	1,022			
G. C. Murphy Co.....thous. of dolls.	1,344	1,621	1,579	1,336	1,403	1,464	1,046	1,056	1,132	14,326	13,080	9,669
Stores operated.....number	162	163	165	149	150	152	119	120	130			
Restaurant chains:												
Total sales (3 chains).....thous. of dolls.	4,642	4,884	4,591	5,005	5,262	5,040	4,591	4,802	4,617	52,390	54,361	50,591
Stores operated.....number	380	377	379	367	373	376	366	367	369			
Childs Co., sales.....thous. of dolls.	2,136	2,259	2,075	2,400	2,474	2,362	2,191	2,266	2,160	24,212	25,438	24,010
Stores operated.....number	113	111	111	112	109	111	113	110	112			
J. R. Thompson Co., sales.....thous. of dolls.	1,215	1,287	1,186	1,282	1,367	1,284	1,185	1,269	1,207	13,697	14,296	13,330
Stores operated.....number	120	121	121	122	121	122	121	123	123			
Waldorf System (Inc.), sales.....thous. of dolls.	1,291	1,338	1,338	1,323	1,421	1,394	1,215	1,267	1,250	14,489	14,627	13,259
Stores operated.....number	147	145	147	133	143	143	132	134	134			
Installment sales in New England dept. stores, ratio to total sales, per cent	8.0	8.8		7.6	8.8	8.5	8.2	9.0	7.5			
Advertising												
Magazine advertising.....thous. of lines	2,145	3,490	2,488	2,536	3,050	3,102	2,287	2,916	2,877			
Magazine advertising, total cost.....thous. of dolls.	15,214	17,759	17,359	16,548	20,319	20,070	14,349	19,595	18,141	186,503	192,324	175,548
Newspaper advertising.....thous. of lines	88,648	98,437	89,424	105,702	118,614	107,958	99,839	112,053	109,108	977,340	1,123,411	1,080,395
Radiobroadcast cost, facilities.....thous. of dolls.	2,123	2,674	2,577	1,599	1,948	1,908	814	1,362	1,158	24,097	16,759	9,143
National advertising in newspapers:												
Total.....thous. of lines	40,579			52,195			43,402	52,955	51,380			
Passenger cars.....thous. of lines	3,154			7,033			6,720	6,523	7,063			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
DISTRIBUTION MOVEMENT—Con.												
Advertising—Continued												
Tires, trucks, and accessories.....	4,063			5,274			4,696	5,022	4,511			
Financial.....	5,112			7,374			5,821	7,193	6,856			
Building materials.....	216			757			811	821	426			
Electrical appliances, supplies.....	685			1,550			895	893	848			
Foods and beverages.....	6,618			6,258			5,678	6,628	6,062			
Heating and plumbing equipment.....	979			737			979	879	595			
Medical.....	2,382			3,007			2,920	5,224	6,097			
Radio.....	3,584			6,037			3,759	3,924	3,863			
Tobacco.....	5,633			3,152			2,006	2,653	2,335			
Toilet requisites.....	1,841			2,963			2,139	3,831	2,605			
Transportation.....	1,689			2,271			1,734	1,996	2,396			
All other.....	4,623			5,783			5,245	7,366	7,721			
Postal Business												
Postal receipts:												
50 selected cities.....	28,764	32,279	28,379	30,549	35,743	32,723	29,261	34,196	31,713	328,160	347,398	337,372
50 industrial cities.....	3,160	3,568	3,028	3,303	3,737	3,364	3,074	3,583	3,202	36,562	37,065	36,238
Money orders:												
Domestic issued (50 cities)—												
Quantity.....	3,415	3,662	3,525	3,407	3,843	3,745	2,879	3,669	3,480	40,054	40,270	37,153
Value.....	33,923	35,916	34,525	35,916	39,963	39,085	32,382	37,554	35,711	397,663	410,994	378,785
Domestic paid (50 cities)—												
Quantity.....	9,758	11,514	10,248	10,328	12,690	11,829	9,748	12,020	11,591	117,992	125,159	119,738
Value.....	79,174	90,647	79,934	86,974	107,699	97,825	79,877	99,310	94,191	922,985	990,099	936,100
Air mail, weight dispatched.....	705,963	742,687		658,084	705,772	624,750	423,991	465,635	424,465	7,659,635	7,584,408	7,257,206
BANKING AND FINANCE												
Banking												
Bank debits:												
New York City.....	27,383	30,781	22,490	50,342	63,325	53,604	38,725	45,189	45,469	355,639	563,238	447,483
Outside of New York City.....												
Canada.....	1,514	1,884	1,515	1,884	2,461	2,260	1,681	2,395	2,370	17,727	22,226	21,503
Federal reserve banks:												
Bills discounted.....	186	202	251	931	991	912	1,026	932	990			
Notes in circulation.....	1,376	1,355	1,451	1,851	1,880	1,930	1,704	1,710	1,766			
Total investments.....	801	773	827	484	658	602	545	671	716			
Total reserve.....	3,128	3,192	3,145	3,141	3,177	3,135	2,751	2,773	2,722			
Total deposits.....	2,457	2,519	2,492	2,471	2,696	2,437	2,414	2,419	2,411			
Reserve ratio.....	81.6	82.4	79.8	72.7	69.4	71.8	66.8	67.2	65.2			
Federal reserve member banks:												
Total loans and dis-												
counts.....	17,013	16,764	16,514	17,428	18,934	17,698	15,952	16,067	16,260			
Total investments.....	6,454	6,731	6,800	5,401	5,496	5,655	6,401	6,430	6,375			
Net demand deposits.....	13,812	13,830	13,908	13,295	15,110	13,890	13,226	13,368	13,460			
Brokers' loans, end of month—												
To N. Y. Stock Ex. members—												
Total.....	3,481	2,556	2,162	8,549	6,109	4,017	5,513	5,879	6,391			
Ratio to market value.....	5.79	4.65	4.06	9.82	8.51	6.32	9.29	9.62	9.66			
By New York F. R. member												
banks.....	3,063	2,512	2,111	6,804	5,538	3,450	4,570	4,907	5,290			
Deposits, New York State savings												
banks, end of month.....	4,662	4,658	4,666	4,457	4,372	4,333	4,352	4,345	4,334			
Interest rates:												
Time loans, 90 days.....	2.63	2.50	2.13	8.88	8.00	5.38	7.00	7.13	6.93			
Call loans, renewal.....	2.19	2.00	2.00	8.50	6.43	5.44	7.26	6.98	6.67			
Prime com. paper (4-6 mos.).....	3.00	3.00	2.88	6.25	6.25	5.75	5.63	5.50	5.38			
Prime bankers' acceptances.....	1.88	1.88	1.88	5.13	5.13	4.19	4.50	4.50	4.50			
N. Y. Fed. Res. Bank (redis.).....	2.50	2.50	2.50	6.00	5.00	4.50	5.00	5.00	5.00			
Federal land banks.....	5.63	5.63	5.63	5.44	5.51	5.79	5.04	5.04	5.04			
Intermediate credit banks.....	4.06	4.00	4.00	5.67	5.68	5.70	5.12	5.24	5.31			
Public Finance												
Government debt, gross, end												
mo.....	16,081	16,180	16,185	16,720	16,698	16,682	17,367	17,544	17,493			
Customs receipts.....	36,655	39,319	36,365	52,612	57,607	44,126	50,410	59,741	48,436	455,408	563,400	519,696
Total ordinary receipts.....	602,811	147,813	120,362	670,736	175,998	143,889	557,398	187,627	145,156	3,237,517	3,500,209	3,270,943
Expenditures chargeable to												
ordinary receipts.....	308,221	375,244	244,651	399,068	364,678	218,407	482,600	368,653	213,629	3,444,800	3,355,052	3,371,186
U. S. money in circulation:												
Daily average.....	4,492	4,501	4,528	4,811	4,810	4,845	4,804	4,836	4,860			
Gold and Silver												
Gold:												
Domestic receipts at mint, fine ounces.....	125,871	152,648	113,430	77,029	121,193	113,723	83,247	121,539	102,893	1,088,416	895,581	904,093
Rand output.....	903,176	926,561	884,000	849,553	888,690	861,593	857,731	897,720	872,484	9,810,515	9,562,932	9,498,835
Monetary stock of U. S.—												
daily average.....	4,508	4,520	4,553	4,368	4,381	4,374	4,125	4,133	4,151			
Imports.....	13,680	35,635	40,159	18,781	21,321	7,123	4,273	14,331	29,591	363,276	283,528	143,948
Exports.....	11,133	9,266	5,008	1,205	3,805	30,289	3,810	992	22,916	115,931	43,036	559,124
Silver:												
Production—												
United States.....	3,780	3,816	3,852	4,684	5,130	5,795	4,087	4,352	4,756	46,635	55,588	51,876
Canada.....	3,486	2,291	2,445	2,437	2,605	1,833	2,177	2,051	1,459	22,437	19,826	18,513
Stocks, end of month—												
United States.....	813	6,649	956	1,112	1,451	1,322	872	856	905			
Canada.....	341	217	216	914	489	598	1,457	718	346			
Imports.....	3,461	3,270	2,643	4,111	5,403	5,144	5,739	7,319	5,448	40,092	59,460	62,999
Exports.....	3,903	4,424	4,102	4,374	7,314	8,678	6,229	7,252	7,674	50,684	77,038	78,892
Price at New York, dollars, per fine oz.....	.363	.358	.359	.510	.499	.496	.575	.581	.580			
Business Failures												
Firms (United States):												
Total commercial.....	1,963	2,124	2,031	1,568	1,822	1,796	1,635	2,023	1,838	23,830	20,872	21,899
Manufacturers.....	434	499	448	427	483	481	454	528	519	5,741	5,448	5,426
Trade establishments.....	1,395	1,474	1,447	1,039	1,211	1,166	1,073	1,369	1,202	16,609	14,073	15,147
Agents and brokers.....	134	151	136	102	128	149	108	126	117	1,530	1,351	1,320
Firms (Canada).....	175	214	237	164	177	184	119	159	174	2,169	1,833	1,660

* Revised.

† Cumulative through Oct. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
BANKING AND FINANCE—Contd.												
New Security Issues—Continued												
States and municipalities:												
Permanent loans.....thous. of dolls.	79, 578	\$ 159, 630	93, 784	100, 257	122, 346	65, 074	70, 170	98, 233	173, 824	1, 297, 885	1, 155, 863	1, 273, 678
Temporary loans.....thous. of dolls.	76, 501	\$ 81, 222	77, 322	95, 978	99, 505	74, 187	73, 419	82, 552	14, 496	872, 492	870, 358	690, 610
Bond sales (Canada):												
Govt. and provincial.....thous. of dolls.	20, 150	111, 552	20, 000	8, 257	2, 000	14, 995	9, 733	24, 060	5, 055	249, 988	85, 461	88, 618
Municipal.....thous. of dolls.	8, 485	12, 547	2, 526	3, 760	1, 080	18, 766	260	5, 144	2, 597	110, 407	87, 590	25, 111
Corporation.....thous. of dolls.	4, 345	34, 166	2, 700	5, 147	23, 775	3, 944	11, 980	15, 396	4, 425	198, 816	187, 512	242, 545
Tax-exempt securities outstanding, end of month.....mils. of dolls.	19, 836	\$ 20, 040	19, 693	18, 255	18, 378	\$ 18, 433	16, 897	16, 954	17, 025			
Agricultural Finances												
Loans outstanding, end mo.:												
Federal farm loan banks.....thous. of dolls.	1, 190, 270	1, 189, 309	1, 187, 845	1, 202, 490	1, 200, 932	1, 199, 174	1, 189, 345	1, 190, 278	1, 191, 274			
Joint-stock land banks.....thous. of dolls.	562, 747	560, 052	566, 974	593, 388	590, 507	587, 723	608, 451	607, 632	605, 595			
Federal intermediate credit banks.....thous. of dolls.	123, 336	126, 104	131, 869	72, 204	75, 373	76, 780	68, 619	76, 547	78, 685			
Stocks and Bonds												
Stock prices, average daily closing:												
25 Industrials, average.....dolls. per share	282.92	240.49	227.60	448.78	395.95	274.63	283.99	293.51	316.15			
25 railroads, average.....dolls. per share	110.16	97.30	90.23	152.26	142.30	123.25	124.82	123.40	130.07			
Southern cotton mills, dols. per share	65.70	63.54	62.04	89.37	88.61	86.99	103.31	103.19	102.58			
103 stocks, average.....dolls. per share	47.40	43.44		82.47	69.91	62.40	62.40	78.49	86.20			
Stock prices, average weekly closing:												
Industrials, rails, and utilities (402).....rel. to 1926	148.8	127.6	116.7	225.3	201.7	151.1	156.6	159.1	171.1			
All industrials (335).....rel. to 1926	139.3	117.8	108.5	216.1	194.4	144.8	162.2	166.2	178.9			
All railroads (33).....rel. to 1926	122.6	110.9	102.1	168.1	157.0	135.1	129.6	128.2	134.9			
All utilities (34).....rel. to 1926	216.4	187.0	167.4	321.0	276.6	194.4	155.8	154.5	168.6			
Automobiles and trucks (13).....rel. to 1926	132.5	108.0	101.2	240.9	195.6	133.7	270.0	283.6	284.3			
Automobile tires and rubber goods (7).....rel. to 1926	65.5	52.5	56.0	163.4	147.4	103.0	127.6	137.6	143.2			
Airplane (10).....rel. to 1926	391.1	269.6	214.9	994.4	693.9	382.2	994.4	693.9	382.2			
Agricultural implements (4).....rel. to 1926	265.3	211.7	195.8	444.8	373.2	270.1	444.8	373.2	270.1			
Chain stores (17).....rel. to 1926	95.6	88.1	81.7	154.6	138.7	104.3	150.5	150.9	161.0			
Copper and brass (9).....rel. to 1926	114.4	92.6	90.8	294.4	258.7	204.0	172.0	185.1	227.0			
Food, other than meat (20).....rel. to 1926	149.8	133.5	126.4	191.1	176.2	141.4	167.1	167.1	171.7			
Machinery and machine equipment (10).....rel. to 1926	154.1	134.4	120.3	191.4	172.3	135.3	139.4	140.1	148.7			
Oil producing and refining (16).....rel. to 1926	125.4	106.4	96.9	166.7	161.4	130.6	115.7	117.0	132.6			
Railroad equipment (1).....rel. to 1926	95.6	82.0	76.8	157.6	143.6	119.5	129.5	126.8	130.6			
Rayon (5).....rel. to 1926	71.4	64.6	67.9	119.8	111.0	102.0	119.8	111.0	102.0			
Steel and iron (9).....rel. to 1926	161.5	141.5	130.5	243.9	217.1	169.1	155.8	158.7	164.6			
Textiles (30).....rel. to 1926	67.2	58.2	54.9	114.1	103.1	77.8	125.9	131.6	142.5			
Theaters, motion pictures, and amusements (7).....rel. to 1926	112.4	87.8	77.7	145.2	131.5	96.5	135.1	136.7	139.1			
Tobacco and tobacco products (10).....rel. to 1926	152.6	136.8	129.2	141.5	146.4	128.4	142.5	141.8	150.6			
Traction, motor transportation, etc. (9).....rel. to 1926	74.6	72.3	67.9	84.7	80.4	72.8	84.7	80.4	72.8			
Stock yields:												
Total common (90).....per cent.	4.33	5.05	5.43	2.92	3.33	4.54	3.78	3.72	3.51			
Industrial (50).....per cent.	4.60	5.39	5.69	3.19	3.61	4.89	3.72	3.62	3.40			
Public utilities (20).....per cent.	3.04	3.64	4.10	1.69	2.05	3.16	3.14	3.19	3.01			
Railroads (20).....per cent.	5.45	5.98	6.46	3.96	4.26	4.95	4.98	5.03	4.79			
Preferred high grade industrial (20).....per cent.	5.48	5.52	5.62	5.52	5.54	5.65	5.41	5.44	5.42			
Stocks sale, N. Y. Stock Exch.....thous. of shares	53, 545	65, 497	51, 946	100, 056	141, 668	72, 455	90, 907	99, 077	115, 434	766, 736	1, 041, 129	828, 713
Bond sales:												
Miscellaneous.....thous. of dolls.	221, 327	264, 357	182, 906	210, 995	337, 374	275, 288	190, 582	226, 621	210, 897	2, 455, 800	2, 651, 002	2, 593, 461
Liberty-Treasury.....thous. of dolls.	9, 631	7, 773	6, 640	9, 267	15, 839	15, 746	10, 467	11, 949	10, 569	99, 024	126, 786	161, 368
Total.....thous. of dolls.	230, 958	272, 130	189, 456	220, 262	353, 213	291, 034	201, 049	238, 570	221, 466	2, 554, 823	2, 767, 788	2, 754, 829
Bond prices:												
Highest-grade rails.....p. ct. of par. 4% bond	95.83	95.85	94.63	85.51	86.69	87.79	91.05	90.72	91.30			
Second-grade rails.....p. ct. of par. 4% bond	88.32	87.49	85.85	77.64	79.35	80.14	82.51	81.98	83.11			
Public utility.....p. ct. of par. 4% bond	79.49	78.92	77.32	73.13	73.31	72.05	79.51	81.12	81.30			
Industrial.....p. ct. of par. 4% bond	76.13	71.63	70.53	73.84	74.88	74.18	78.18	78.34	78.57			
Comb. price index.....p. ct. of par. 4% bond	84.26	82.49	81.10	77.23	78.23	78.08	82.53	82.79	83.31			
Bond yields:												
Total, 60 high grade.....per cent.	4.41	4.41	4.46	4.76	4.73	4.70	4.57	4.57	4.55			
Railroads (15).....per cent.	4.25	4.25	4.32	4.71	4.66	4.57	4.43	4.43	4.39			
Industrials (15).....per cent.	4.85	4.89	4.97	5.12	5.08	5.09	4.95	4.95	4.93			
Utilities (15).....per cent.	4.55	4.53	4.57	4.90	4.91	4.88	4.73	4.74	4.73			
Municipal (15).....per cent.	3.97	3.94	4.00	4.32	4.29	4.25	4.17	4.17	4.15			
Municipal bond yield (20).....per cent.	3.97	3.99	4.06	4.49	4.37	4.29	4.16	4.16	4.14			
U. S. Treasury notes and certificates, 3-6 months.....per cent.	1.84	1.90	1.51	4.58	4.37	3.47	4.57	4.70	4.26			
Liberty and Treasury bonds.....per cent.	3.37	3.34	3.32	3.70	3.67	3.45	3.54	3.55	3.48			
Bond prices, 1st of following month:												
5 Liberty bonds.....p. ct. of par.	105.84	106.06	106.41	100.34	102.20	104.24	103.11	103.85	103.75			
50 Domestic bonds.....p. ct. of par.	100.96	100.08	99.68	96.34	96.75	98.16	99.57	99.72	99.84			
40 Representative issues.....p. ct. of par.	88.25	86.08	84.05									
Long-term and real-estate bonds issued:												
Grand total.....thous. of dolls.	13, 890	6, 635	9, 965	5, 388	19, 275	7, 820	52, 116	64, 864	61, 360	141, 097	325, 775	644, 313
Purpose of issue—												
Finance construction.....thous. of dolls.	1, 475	1, 210	1, 595	950	13, 875	1, 910	4, 460	33, 290	12, 590	55, 626	129, 285	240, 390
Real-estate mortgage.....thous. of dolls.	165	1, 975	5, 120	188	2, 250	1, 055	32, 955	11, 898	14, 980	21, 638	80, 743	205, 207
Acquisitions and improvements.....thous. of dolls.	10, 500	2, 000		200	200	4, 880	530	1, 509	26, 550	20, 990	57, 385	77, 817

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through November, except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1930			1929			1928			CUMULATIVE TOTAL FROM JANUARY 1 THROUGH NOVEMBER 30		
	September	October	November	September	October	November	September	October	November	1930	1929	1928
BANKING AND FINANCE—Contd.												
Stocks and Bonds—Continued												
Long-term and real-estate bonds issued—Continued.												
Kind of structure—												
Office and commercial												
.....thous. of dolls.	2,300	3,050	9,300	880	2,050	115	2,510	15,018	11,095	62,113	100,350	188,784
Hotels.....thous. of dolls.	600				11,600	4,010	400	9,900	300	4,173	40,840	44,760
Apartments.....thous. of dolls.		175	110	215	225	1,040	270	8,423	1,970	21,620	16,917	40,672
Interest rates.....per cent.	5.89	5.61	5.74	6.14	6.16	5.96	5.79	6.12	6.02			
FOREIGN EXCHANGE RATES												
Europe:												
England.....dolls. per £ sterling.	4.86	4.86	4.86	4.85	4.87	4.88	4.85	4.85	4.85			
France.....dolls. per franc.	.039	.039	.039	.039	.039	.039	.039	.039	.039			
Italy.....dolls. per lire.	.052	.052	.052	.052	.052	.052	.052	.052	.052			
Belgium.....dolls. per franc.	.140	.139	.139	.139	.140	.140	.139	.139	.139			
Netherlands.....dolls. per guilder.	.403	.403	.402	.401	.403	.404	.401	.401	.401			
Sweden.....dolls. per krone.	.269	.269	.268	.268	.268	.269	.268	.267	.267			
Switzerland.....dolls. per franc.	.194	.194	.194	.193	.193	.194	.193	.192	.193			
Asia:												
Japan.....dolls. per yen.	.494	.496	.496	.473	.478	.487	.458	.462	.464			
India.....dolls. per rupee.	.360	.360	.360	.360	.362	.363	.363	.365	.365			
America:												
Canada.....dolls. per Canadian doll.	1.001	1.001	1.001	.992	.988	.984	1.000	1.000	1.000			
Argentina.....dolls. per gold peso.	.818	.781	.781	.953	.950	.939	.957	.956	.958			
Brazil.....dolls. per milreis.	.101			.119	.119	.118	.119	.120	.119			
Chile.....dolls. per paper peso.	.121	.121	.121	.121	.121	.121	.121	.121	.121			
U. S. FOREIGN TRADE												
Imports												
Grand total.....thous. of dolls.	6 226,352	247,322	203,713	351,304	390,908	338,473	319,618	355,358	326,565	2,852,348	4,089,489	3,752,036
By grand divisions:												
Europe—												
Total.....thous. of dolls.	73,423	77,530	65,560	120,056	138,934	106,816	102,315	121,234	107,254	852,467	1,246,126	1,135,917
France.....thous. of dolls.	10,851	11,673	8,227	17,462	20,128	13,524	13,783	17,279	15,096	106,519	160,410	144,711
Germany.....thous. of dolls.	14,050	17,358	11,166	21,800	26,232	19,917	18,661	22,309	18,669	165,154	239,509	203,593
Italy.....thous. of dolls.	4,976	6,461	6,353	9,407	13,733	12,135	6,548	10,072	10,479	74,065	108,036	90,728
United Kingdom.....thous. of dolls.	17,017	17,743	15,289	28,987	35,050	24,081	26,373	33,417	28,156	198,538	311,635	319,228
North America—												
Total.....thous. of dolls.	58,584	62,158	54,526	76,942	81,684	73,254	76,926	84,398	78,921	706,234	915,875	884,554
Canada.....thous. of dolls.	32,508	34,306	30,279	42,257	46,073	42,456	42,209	47,404	41,638	375,958	466,641	448,372
South America—												
Total.....thous. of dolls.	28,028	30,388	26,657	45,387	56,186	46,432	37,560	41,535	41,229	403,118	590,697	519,387
Argentina.....thous. of dolls.	3,396	2,639	2,370	6,734	11,617	11,236	6,313	6,677	5,555	69,371	108,080	92,665
Asia and Oceania—												
Total.....thous. of dolls.	62,020	73,909	53,032	102,504	109,074	102,846	97,554	100,888	92,847	824,399	1,235,512	1,125,585
Japan.....thous. of dolls.	23,232	30,577	19,620	39,973	43,735	39,240	33,741	35,261	31,943	251,910	393,462	351,526
Africa, total.....thous. of dolls.	4,257	4,310	3,938	6,415	5,146	9,206	5,263	7,302	6,314	64,218	101,355	83,590
By economic classes:												
Crude materials.....thous. of dolls.	6 75,393	77,487	59,243	122,062	126,532	121,448	110,289	117,624	108,350	933,078	1,442,990	1,348,825
Foodstuffs, crude and food animals.....thous. of dolls.	27,582	32,849	27,337	40,700	47,210	40,590	37,207	42,007	44,573	370,676	497,310	504,530
Manufactured food-stuffs.....thous. of dolls.	20,600	23,145	21,045	32,327	35,085	28,669	33,771	35,370	30,758	270,684	399,231	376,672
Semimanufactures.....thous. of dolls.	40,986	45,520	38,262	70,146	81,650	65,650	63,455	71,174	62,501	569,972	822,200	691,436
Finished manufactures.....thous. of dolls.	6 61,791	68,321	57,826	86,069	100,521	82,116	74,906	89,184	80,385	707,938	926,767	830,577
Exports												
Grand total, including reexports.....thous. of dolls.	311,889	327,120	289,021	437,671	528,578	442,311	421,607	550,014	544,912	3,569,199	4,815,139	4,652,512
By grand divisions:												
Europe—												
Total.....thous. of dolls.	158,717	174,652	155,227	201,300	263,351	222,733	192,840	268,856	274,485	1,696,653	2,128,885	2,135,960
France.....thous. of dolls.	20,069	23,683	22,094	24,026	33,531	26,797	20,049	28,928	31,110	204,590	239,819	214,308
Germany.....thous. of dolls.	32,912	31,507	23,686	38,993	57,552	41,458	46,298	57,989	65,563	258,199	369,211	422,559
Italy.....thous. of dolls.	8,105	8,924	7,582	14,500	16,348	14,096	14,275	16,936	16,163	91,806	139,469	146,095
United Kingdom.....thous. of dolls.	57,841	71,918	61,094	72,609	95,129	84,782	59,182	97,963	105,461	623,908	769,958	752,355
North America—												
Total.....thous. of dolls.	79,533	76,175	64,471	117,649	127,224	103,601	115,500	126,793	118,276	958,123	1,301,220	1,217,659
Canada.....thous. of dolls.	52,070	49,165	41,689	80,485	83,946	68,002	87,139	89,492	77,229	623,373	891,500	845,613
South America—												
Total.....thous. of dolls.	25,911	25,817	23,516	43,550	44,049	36,437	33,805	49,251	49,826	313,706	500,759	438,118
Argentina.....thous. of dolls.	9,776	10,361	8,728	17,995	17,153	13,515	11,457	19,848	18,396	120,922	194,606	163,962
Asia and Oceania—												
Total.....thous. of dolls.	41,268	44,204	39,219	66,039	81,979	70,218	71,917	92,484	90,225	513,816	763,146	755,527
Japan.....thous. of dolls.	15,025	11,249	12,425	19,117	31,362	28,097	27,542	39,137	37,198	152,020	231,686	261,303
Africa, total.....thous. of dolls.	6,460	6,272	6,588	9,133	11,975	9,322	7,544	12,630	12,100	86,911	121,126	105,247
By economic classes:												
Total domestic exports only.....thous. of dolls.	6 307,945	322,941	285,441	431,801	522,380	435,527	414,859	543,171	538,375	3,511,306	4,736,785	4,563,867
Crude materials.....thous. of dolls.	6 94,268	104,829	90,930	112,260	174,271	144,772	120,188	176,354	193,999	752,370	1,016,405	1,141,180
Foodstuffs, crude and food animals.....thous. of dolls.	18,183	15,228	15,592	29,943	24,110	22,557	42,363	52,383	31,577	165,260	232,227	266,994
Manufactured food-stuffs.....thous. of dolls.	6 27,825	32,143	29,992	40,963	47,737	43,698	35,761	51,643	45,840	335,616	442,911	420,605
Semimanufactures.....thous. of dolls.	6 37,099	38,012	33,125	57,691	64,558	51,909	51,077	59,967	60,859	478,954	674,645	658,155
Finished manufactures.....thous. of dolls.	6 130,569	132,729	115,802	190,944	211,703	172,592	165,469	202,824	206,100	1,779,107	2,350,600	2,076,932
Agricultural exports (quantities):												
All commodities.....rel. to 1910-1914.	124	139	126	121	166	150	138	201	192			
All commodities except cotton.....rel. to 1910-1914.	114	130	116	143	147	147	168	232	172			
CANADIAN FOREIGN TRADE												
Total trade:												
Imports.....thous. of dolls.	87,900	78,358	76,325	99,380	116,261	108,733	106,066	112,341	102,967	948,354	1,214,575	1,127,575
Exports.....thous. of dolls.	82,190	84,298	74,892	89,424	121,437	113,746	111,856	143,955	170,092	837,318	1,118,498	1,231,886

6 Revised.

PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

- Agriculture.** Fifteenth Census of United States, 1930: Agriculture, Rhode Island; number of farms, farm acreage, and values of farm land and buildings, farm buildings, farmers' dwellings, and farm implements and machinery, by minor civil divisions. 4 pages, 1 illustration. (Bureau of the Census.) Price, 5 cents.
- Aviation.** Air Commerce Bulletin is issued semimonthly by the Aeronautics Branch of the Department of Commerce and contains short articles on aviation developments and a list of air transport routes.
- Airworthiness Requirements of Air Commerce Regulations for Engines and Propellers. ii+9 pages, 1 illustration. (Aeronautics Branch. Aeronautics Bulletin No. 7-G.)
- Annual Report of Assistant Secretary of Commerce for Aeronautics to Secretary of Commerce for Fiscal Year Ended June 30, 1930. iv+52 pages, 3 illustrations; 2 charts. Report on organization and functions of the Aeronautics Branch and its activities during the past year. Price, 10 cents.
- Report of Fact-Finding Committee on Control of Airplane Hangar Fires by Automatic Application of Water. ii+42 pages, 37 illustrations. (Aeronautics Branch.) Price, 15 cents.
- Bureau of Standards Journal of Research** is published monthly and contains the papers formerly issued as Scientific and Technologic Papers series, which have been discontinued. The articles in the journal are known as the Research Papers series and are issued separately after publication in the journal. Single copies, 40 cents; annual subscription, \$2.75.
- Carbon.** Study of Production of Activated Carbon from Various Coals and Other Raw Materials, by A. C. Fieldner, R. E. Hall, and A. E. Galloway. ii+30 pages, 1 illustration, 10 charts. (Bureau of Mines. Technical Paper 479.) Price, 10 cents.
- Chemicals and drugs.** Note on Individualities of Anhydrofructose and Diffructose Anhydride, by R. F. Jackson and S. M. Goergen. (Bureau of Standards. Research Paper No. 224.) Reprint from Bureau of Standards Journal of Research, vol. 5, September, 1930, pp. 733-734. Price, 5 cents.
- Coast and Geodetic Survey.** Annual Report of Director, United States Coast and Geodetic Survey, to Secretary of Commerce for Fiscal Year Ended June 30, 1930. ii+47 pages, 8 maps. Report on operations of Coast and Geodetic Survey and its needs to increase its usefulness. Price, 60 cents.
- Commercial standards.** Feldspar. vi+18 pages. (Bureau of Standards. Commercial Standard CS23-30.) Price, 5 cents.
- Plain and Thread Plug and Ring Gage Blanks. iv+47 pages, 28 illustrations, 1 plate. (Bureau of Standards. Commercial Standard CS-30.) Price, 15 cents.
- Cotton Production and Distribution, Season of 1929-30.** 74 pages, 2 illustrations. (Bureau of the Census. Bulletin 167.) Price, 15 cents.
- Currency.** Handbook of Foreign Currency and Exchange, by James R. Mood. viii+189 pages. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 102.) This useful publication contains a brief history of world currency. The material is arranged alphabetically by countries, showing the monetary unit of each with the equivalent in United States currency, and the average exchange rates since 1900. Price, 30 cents.
- Feedstuffs.** Fish Meal in Animal Feeding, with Bibliography, by John Ruel Manning. (Bureau of Fisheries. Document No. 1090.) Appendix XII to Report of Commissioner of Fisheries for fiscal year 1930, pp. 371-407. Investigation of value of fish meal as feed for farm animals and poultry. Price, 10 cents.
- Finances.** American Direct Investments in Foreign Countries. ii+57 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 731.) Study of investments of American capital abroad, showing the geographic distribution of such investments, their amount, and the industries in which they are made. Price, 10 cents.
- Handbook on American Underwriting of Foreign Securities, by Ralph A. Young. iv+166 pages. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 104.) Data on geographical distribution of foreign securities floated in the United States, with an analysis of developments in American and foreign money markets from 1914 to 1929, and a bond yield index based on prices of foreign bonds publicly offered in the United States from 1919 to 1929. Price, 25 cents.
- Leather.** International Trade in Leather, by J. Schnitzer. iv+266 pages, 11 illustrations, 6 charts. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 103.) Data on production, consumption, and trade in leather in the different countries of the world. Price, 45 cents.
- Leather Industry and Trade of Czechoslovakia. ii+24 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 732.) This publication contains an account of the tanning industry of Czechoslovakia, showing the raw materials used, with information regarding the amount of leather produced and the foreign trade in this product. Price, 10 cents.
- Monthly Summary of Foreign Commerce of United States, October, 1930.** Parts I and II. (Bureau of Foreign and Domestic Commerce.) Part I contains statistics of exports of domestic merchandise, and imports by articles for October, 1929 and 1930, and for 10 months ending October, 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 cents; part II, 5 cents. Annual subscription, \$1.25.
- Motor vehicles.** Automotive Market in Brazil, by Howard H. Tewksbury, American trade commissioner. iv+129 pages, 1 illustration, 2 maps. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 106.) This publication shows the extent of roads, the registration of motor vehicles, distribution methods and centers, financing practices, and local regulations and taxes of Brazil. Price, 25 cents.
- Oysters.** Experimental Study in Production and Collection of Seed Oysters, by P. S. Galtsoff, H. F. Frytherch, and H. C. McMillin. Bureau of Fisheries. Document No. 1088.) From Bulletin of Bureau of Fisheries, Vol. XLVI, 1930, pp. 197-263, 30 illustrations, 7 pages of plates. Report on experiments to discover the best methods of propagating and collecting oysters. A bibliography is included. Price, 30 cents.
- Patents.** Annual Report of Commissioner of Patents to Secretary of Commerce for Fiscal Year Ended June 30, 1930, ii+8 pages. Price, 5 cents.
- Radio.** Classification of Radio Subjects: Extension of Dewey Decimal System. ii+25 pages. (Bureau of Standards. Circular No. 385.) Price, 10 cents.
- Rubber.** Change of Electrical Properties of Rubber and Gutta-percha During Storage Under Water, by Harvey L. Curtis and Arnold H. Scott. (Bureau of Standards. Research Paper No. 213.) Reprint from Bureau of Standards Journal of Research, vol. 5, September, 1930, pp. 539-552; 5 illustrations, 1 plate. Price, 10 cents.
- Shipping.** American Documented Seagoing Merchant Vessels of 500 Gross Tons and Over. Published monthly by the Bureau of Navigation. Single copies, 10 cents; annual subscription, 75 cents.
- Simplified practice recommendations.** Dental Hypodermic Needles. vi+12 pages, 1 chart. (Bureau of Standards. Simplified Practice Recommendation R.108-29.) Price, 5 cents.
- Slate in 1929,** by Oliver Bowles and A. T. Coons. (Bureau of Mines. Mineral Resources of United States, 1929, Pt. II, pp. 161-174.) Discussion of the uses of slate, production in the United States, and the amount imported and exported. Price, 5 cents.
- Tides and currents.** Current Tables, Atlantic Coast, North America, for Year 1931. 129 pages, 2 illustrations, 6 plates. (Coast and Geodetic Survey. Serial 486.) Price, 10 cents.
- Tide Tables, United States and Foreign Ports for Year 1931. 495 pages. (Coast and Geodetic Survey. Serial No. 485.) This volume contains tables showing the rise and fall of the tide for each day of the year, and the time of rising and setting of the sun and moon in different latitudes. Price, 75 cents.

CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

R. P. LAMONT, Secretary of Commerce

JULIUS KLEIN, Assistant Secretary of Commerce

EPHRAIM F. MORGAN, Solicitor

AERONAUTICS BRANCH

CLARENCE M. YOUNG, Assistant Secretary of Commerce for Aeronautics

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

BUREAU OF THE CENSUS

WILLIAM M. STEUART, Director

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

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

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

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

BUREAU OF FOREIGN AND DOMESTIC COMMERCE

WILLIAM L. COOPER, Director

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

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

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

The publication of statistics on imports and exports.

The study of the processes of domestic trade and commerce.

The Survey of Current Business.

BUREAU OF STANDARDS

GEORGE K. BURGESS, Director

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

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

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

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

BUREAU OF MINES

SCOTT TURNER, Director

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

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

Research on helium and operation of plants producing it.

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

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

BUREAU OF FISHERIES

HENRY O'MALLEY, Commissioner

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

BUREAU OF LIGHTHOUSES

GEORGE R. PUTNAM, Commissioner

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

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

COAST AND GEODETIC SURVEY

RAYMOND S. PATTON, Director

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

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

BUREAU OF NAVIGATION

ARTHUR J. TYLER, Commissioner

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

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

STEAMBOAT INSPECTION SERVICE

DICKERSON N. HOOVER, Supervising Inspector General

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

UNITED STATES PATENT OFFICE

THOMAS E. ROBERTSON, Commissioner

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

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

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

RADIO DIVISION

W. D. TERRELL, Chief

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