

UNITED STATES
DEPARTMENT OF COMMERCE

WASHINGTON

SURVEY OF
CURRENT BUSINESS

NOVEMBER, 1930

No. 111



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 equidistant scale points higher than the preceding months. Another movement with a relative number of, say, 50 also increases 10 per cent, making its relative number 55. On the ordinary (arithmetic) scale this item would rise only 5 equidistant points, whereas the previous item rose 40 points, yet each showed the same percentage increase. The ratio charts avoid difficulty and give to each of the two movements exactly the same vertical rise, and hence the slopes of the two lines are directly comparable. The ratio charts compare percentage changes while the arithmetic charts compare absolute changes.

RECORD BOOK

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

METHODS OF USE

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

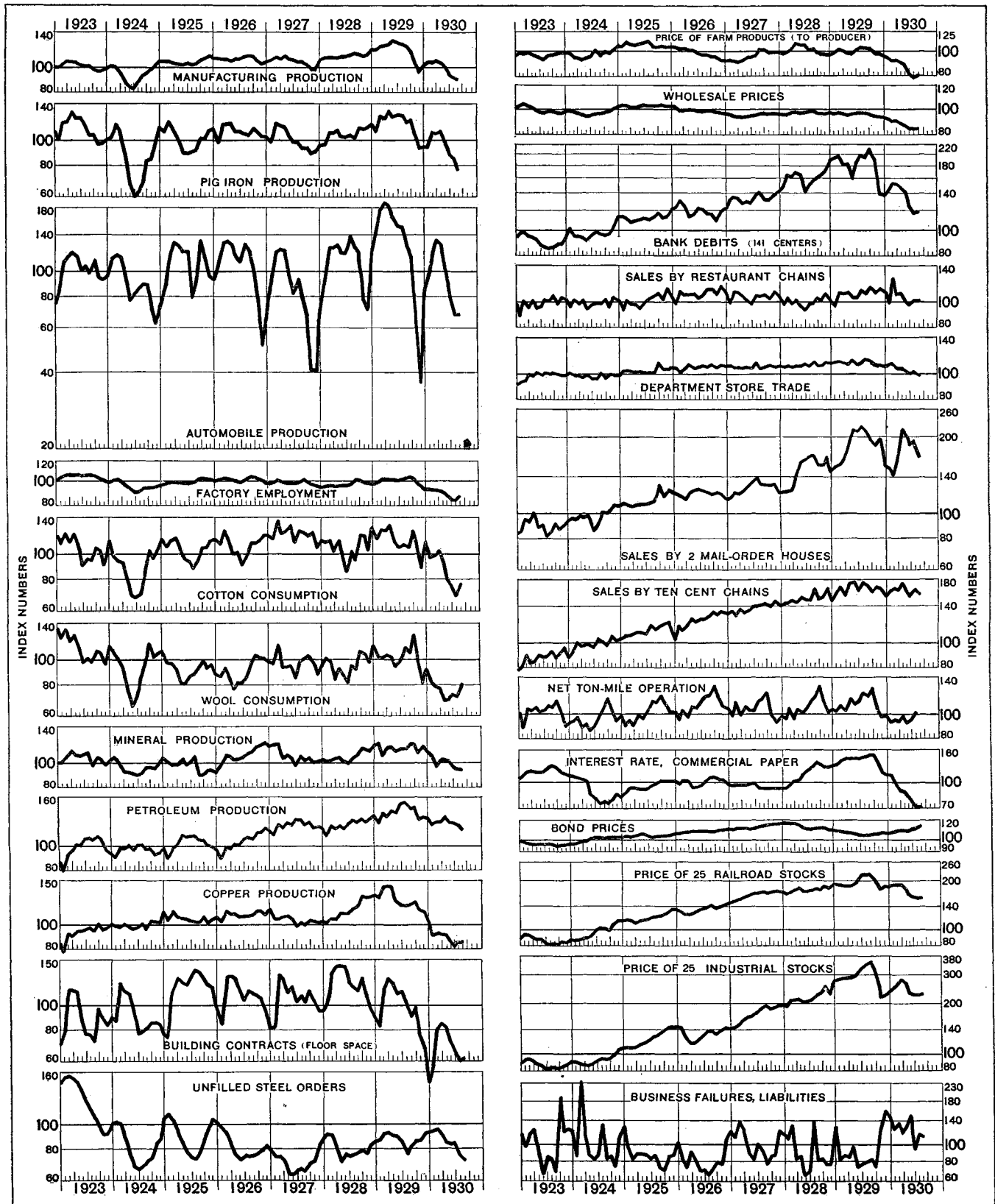
This issue presents practically complete data for the month of September and contains text covering the early weeks of October (page 1), for which the basic figures in table and chart form are represented regularly in the weekly supplements. As most data covering a particular month's business are not 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.



UNITED STATES DEPARTMENT OF COMMERCE

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		June	July	Aug.	Sept.	June	July	Aug.	Sept.	May	June	July	Aug.	Sept.
	1923-1925 monthly average=100																				
Industrial production:																					
• Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	111.0	111.0	113.0	115.0	129.0	126.0	125.0	122.0	104.0	101.0	93.0	90.0	90.0	
• Total minerals.....	105.0	96.0	99.0	108.0	107.0	106.0	115.0	101.0	101.0	105.0	107.0	113.0	114.0	115.0	118.0	103.0	100.0	97.0	96.0	94.0	
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	103.1	102.8	105.0	102.5	124.4	126.7	125.7	117.1	108.2	98.2	88.4	84.5	76.2	
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.9	108.3	110.1	120.9	120.0	141.8	140.3	142.9	131.0	116.4	99.5	84.8	89.5	83.0	
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	120.0	118.6	139.5	125.6	165.1	151.5	150.8	125.8	126.2	101.5	79.4	67.5	67.4	
Cement.....	92.1	99.8	108.1	110.0	115.3	118.0	114.1	140.8	140.6	150.9	143.9	135.2	139.3	149.5	138.6	138.8	138.7	137.4	143.4	129.7	
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	99.5	85.7	102.6	95.9	111.0	106.6	108.9	106.4	92.3	79.0	73.8	68.7	76.8	
Wool (consumption).....	112.8	94.6	92.6	89.7	97.0	94.7	103.1	87.1	80.4	95.2	91.8	93.0	99.8	111.1	105.0	68.9	69.2	73.2	71.3	80.4	
Raw material output:																					
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	116.2	108.4	96.7	91.6	111.8	116.0	100.0	98.7	110.5	116.7	111.8	91.4	90.1	
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	51.8	86.8	115.0	178.3	56.3	91.1	134.5	177.1	55.0	45.3	86.6	115.3	156.0	
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	94.5	87.1	88.6	76.8	89.9	88.3	91.8	80.3	84.9	70.0	64.7	65.5	60.8	
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	118.4	123.1	126.7	124.6	135.9	148.7	150.1	142.5	130.6	124.6	125.0	121.9	115.6	
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	102.3	83.9	84.6	95.9	96.3	89.0	95.0	102.6	104.1	82.5	77.4	79.7	81.9	88.7	
Copper.....	93.4	100.2	105.4	110.2	104.9	114.9	127.1	111.0	111.3	116.7	118.8	124.9	120.1	119.6	120.4	91.3	86.0	82.3	85.1	85.8	
Power and construction:																					
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.8	139.5	142.4	149.8	145.1	154.9	161.0	166.6	160.8	159.8	154.6	156.9	157.1	154.8	
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	142.2	123.7	118.8	114.2	108.2	113.7	100.5	90.2	81.0	72.6	67.2	60.2	62.1	
Unfilled orders:																					
General index.....	121.7	87.0	91.3	84.4	74.0	76.2	80.8	75.3	76.8	74.6	74.6	83.4	81.8	76.0	76.9	75.0	75.9	74.5	69.6	69.3	
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	76.2	74.8	75.9	77.4	89.2	85.6	76.6	81.7	85.0	83.1	84.2	75.0	71.7	
Stocks:																					
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	108.7	105.8	107.9	116.3	120.2	122.0	127.5	139.5	127.7	125.0	125.6	132.7	148.8	
Manuf. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	118.0	119.3	116.3	112.1	121.1	120.7	116.2	114.2	117.7	125.3	124.6	120.6	118.9	
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	74.7	58.6	52.4	89.3	70.9	54.2	58.1	106.4	129.5	118.7	108.0	119.1	165.3	
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	52.0	48.5	48.4	45.8	73.4	86.3	92.2	83.7	272.6	279.8	284.5	307.1	318.6	
Employment:																					
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	96.2	95.7	98.3	100.3	101.2	100.7	102.0	105.4	90.4	88.2	84.6	85.1	86.5	
Prices:																					
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	105.1	105.1	100.7	102.2	97.8	101.4	103.6	102.2	89.9	89.1	80.4	78.3	80.4	
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	96.9	97.6	98.2	99.4	95.7	97.3	97.0	96.8	88.5	86.2	83.2	83.4	83.6	
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	102.0	102.1	103.0	105.3	103.4	105.9	107.0	107.4	100.3	98.8	96.2	96.0	97.3	
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	98.0	98.1	98.0	99.3	97.6	98.8	99.4	99.2	95.0	94.4	92.6	92.6	93.2	
Distribution (values):																					
• Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	158.2	184.5	165.4	140.4	149.9	156.9	159.0	184.9	198.2	192.8	145.8	142.2	125.7	117.8	120.8	
• Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	107.0	110.0	107.0	112.0	113.0	109.0	111.0	114.0	105.0	103.0	100.0	102.0	99.0	
• Mail-order sales, 2 houses.....	89.3	97.2	111.9	120.6	126.2	147.7	188.6	160.8	163.6	168.7	170.8	215.1	211.2	223.3	212.1	216.0	200.2	190.8	193.2	167.1	
• 10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	153.0	148.0	147.0	165.0	174.0	162.0	174.0	168.0	174.0	160.0	152.0	163.0	156.0	
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	111.9	99.6	105.0	109.3	109.3	109.1	110.0	114.5	117.3	104.9	101.2	98.1	107.9	
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	98.2	98.4	107.3	98.9	109.4	109.3	114.3	108.8	88.1	77.5	68.2	67.6	70.3	
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	113.2	102.4	99.8	99.8	111.0	103.6	106.1	100.2	115.1	84.3	77.6	70.2	78.5	83.8	
Transportation:																					
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	100.0	104.9	113.7	117.4	109.2	112.6	120.5	118.5	99.0	92.2	95.4	100.3	-----	
Finance:																					
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	128.4	126.6	125.6	127.3	135.1	136.2	135.3	139.1	134.4	135.4	135.3	134.3	135.8	
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	113.2	119.0	124.8	130.6	139.2	139.2	142.2	145.0	87.0	81.2	75.4	69.6	69.6	
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	84.7	88.9	90.0	86.5	94.4	96.4	97.7	94.2	108.7	104.5	108.2	104.3	105.7	
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	112.3	110.9	109.8	111.0	105.4	104.9	104.1	103.9	109.2	109.1	109.5	111.5	113.3	
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.5	194.3	169.6	170.3	178.8	178.5	192.1	213.4	216.3	217.7	176.7	162.8	162.6	157.8	157.5	
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	202.1	206.1	213.4	226.9	297.8	330.8	344.5	358.5	261.3	227.2	225.8	225.9	226.0	
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	70.3	69.8	137.3	80.1	74.0	76.5	79.6	80.5	131.0	148.9	93.9	116.0	110.7	

* Seasonal adjustments.

BUSINESS CONDITIONS IN SEPTEMBER

PRODUCTION

Industrial production, after adjustment for seasonal variations, remained at the same level as in August, but was considerably lower than a year ago. Although the general index showed no change from the previous month, increased output over a month ago occurred in the output of textiles, food products, and nonferrous metals. Among the groups showing declines from August were iron and steel, leather and shoes, cement and tobacco. As compared with a year ago, all groups, without exception, showed decreased output. Mineral production after adjustment for seasonal conditions declined slightly from the previous month and the corresponding period in 1929. However, the output of bituminous coal and copper, two groups included in the mineral total, showed increases over a month ago.

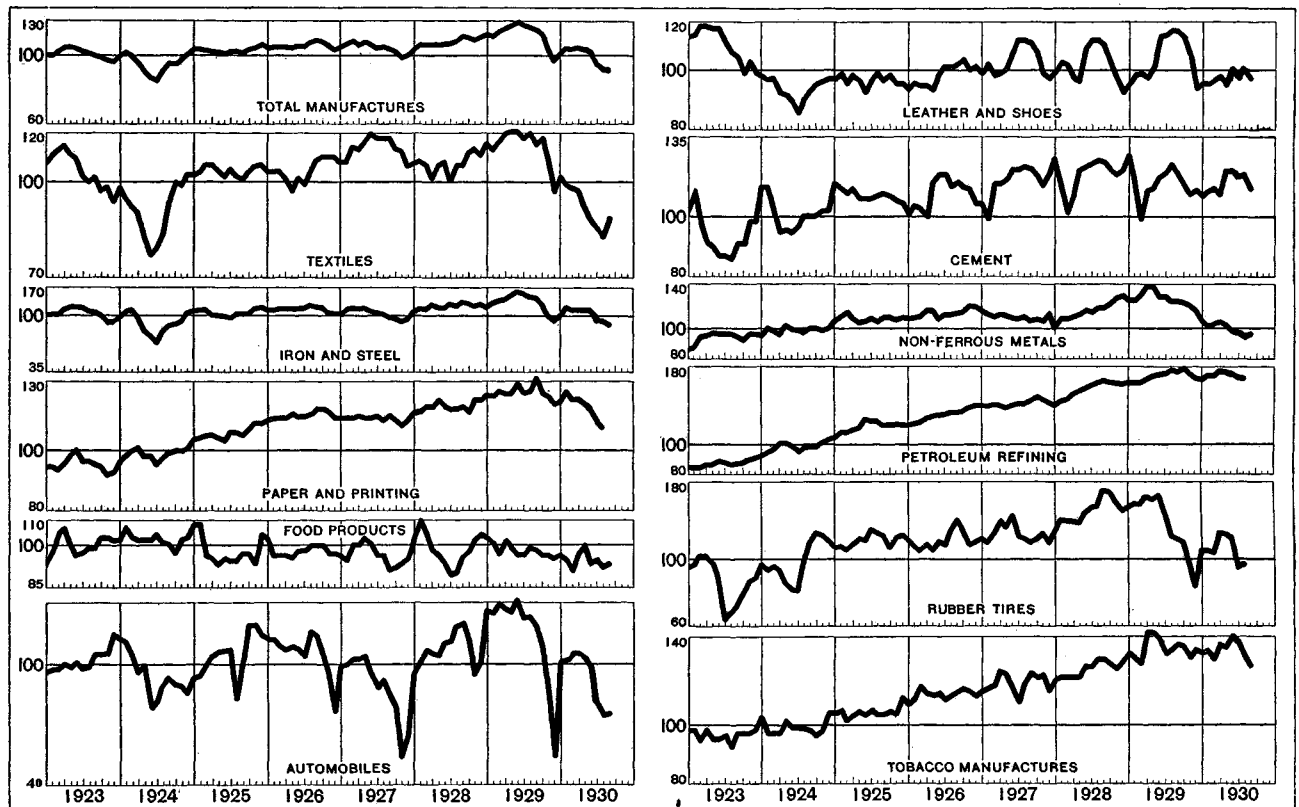
while those for iron and steel and transportation equipment declined. In comparison with September a year ago, unfilled orders for equipment increased while orders for iron and steel and lumber declined.

Wholesale trade as reported by the Federal Reserve Board indicated that firms selling groceries, dry goods, hardware, and drugs did considerably less business in September in these lines than a year ago.

Department-store trade showed an increase of 34 per cent, when allowance is made for the number of trading days. However, after adjustment for seasonal variations a decline of 3 per cent occurred. As compared with the month of September, 1929, sales were 12 per cent lower. This loss was partly due to the reduction in the level of prices of the goods sold. Merchandise stocks held by department stores, although

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



COMMODITY STOCKS

Total stocks of commodities held at the end of September were higher than at the end of August and a year ago. As compared with the previous month, raw material stocks were higher, while stocks of manufactured goods were smaller. Both groups were higher than at the end of September, 1929.

SALES

Total unfilled orders for manufactured goods at the end of September showed declines from both prior periods. As compared with the month of August, unfilled orders for textiles and lumber showed increases,

greater than the month of August, were lower than a year ago. Mail order business, while much greater than the preceding month, declined from the sales of September last year. Sales by principal 10-cent chains registered increases without exception over the sales of the month of August, but were smaller than the same month in 1929. Restaurant sales were practically the same as last month, but were smaller than last year. Postal receipts and the issuances and payments of money orders in principal cities showed increases over the preceding month, but when compared with the same month last year, were lower in each case.

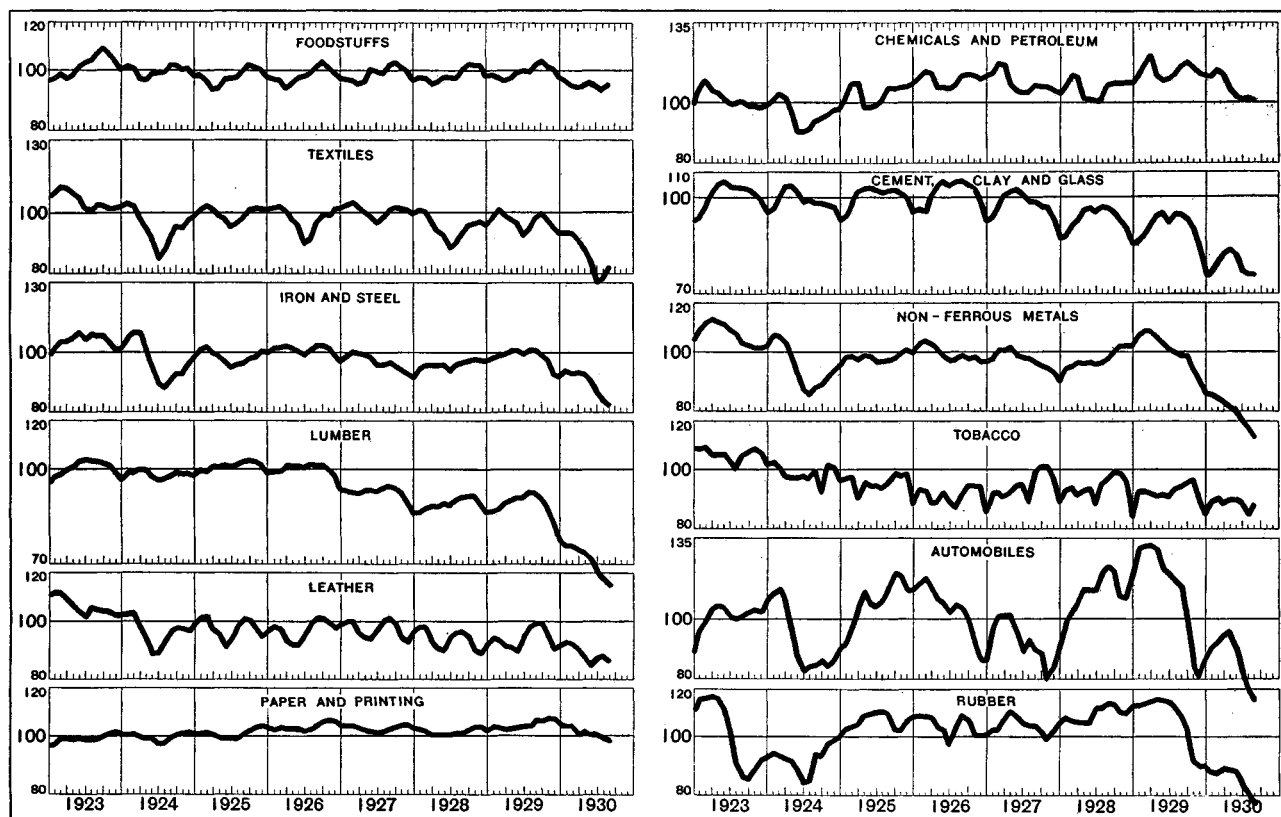
PRICES

The general index of wholesale prices was fractionally higher than the preceding month, but was still considerably lower than in September of last year. As compared with the preceding month, increases occurred in the prices of farm products, foods, and fuel and lighting, while declines occurred in the prices of textiles, metals, building materials, chemicals, house-furnishing goods, and miscellaneous items. As compared with last year, all groups, without exception, were considerably lower. Classified by State of manufacture, prices for raw materials and finished products increased over the preceding month, while the prices for semimanufactured articles declined. All three groups were much lower than in September of last year.

Prices received by farmers for their goods showed, in the main, an increase over the previous month, but like prices in general were below the level of a year ago.

FACTORY EMPLOYMENT, BY GROUPS

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



Prices received by producers of meat animals, dairy and poultry products, showed increases over a month ago, while prices for grains, fruits, and vegetables, cotton and cottonseed, and miscellaneous items showed declines. All prices to the producer were lower than in September, 1929.

Retail prices for food, although averaging higher than in the preceding month, were generally lower than a year ago.

EMPLOYMENT

Factory employment in September showed a larger number of employees on the pay rolls than in the

preceding month, but as compared with last year employment was lower. Among the industrial groups to show increased employment over the preceding month were the textile, food, chemical, and tobacco, while the iron and steel machinery, paper and printing, lumber, transportation, leather, cement, nonferrous, and rubber groups showed decreased employment. Compared with a year ago, all groups showed smaller numbers employed.

Factory pay rolls in September were also greater than the preceding month, but like employment were smaller than in September, 1929. In comparison with the month of August, increased payments occurred in factories producing textiles, food, lumber, transportation equipment, nonferrous metals, and tobacco, while smaller payments than August were made in establishments producing automobiles, leather, and rubber. Little change was noted from the pre-

ceding month in the pay-roll payments of the iron and steel, machinery, paper and printing, cement, clay and glass, and chemicals groups.

COST OF LIVING

The index of the cost of living as compiled by the National Industrial Conference Board showed a slight increase, in September, over the preceding month. As compared with August increases were noted in the fuel, shelter, clothing and fuel groups, while the light and sundries groups showed no change. As compared with a year ago, all cost of living items were lower.

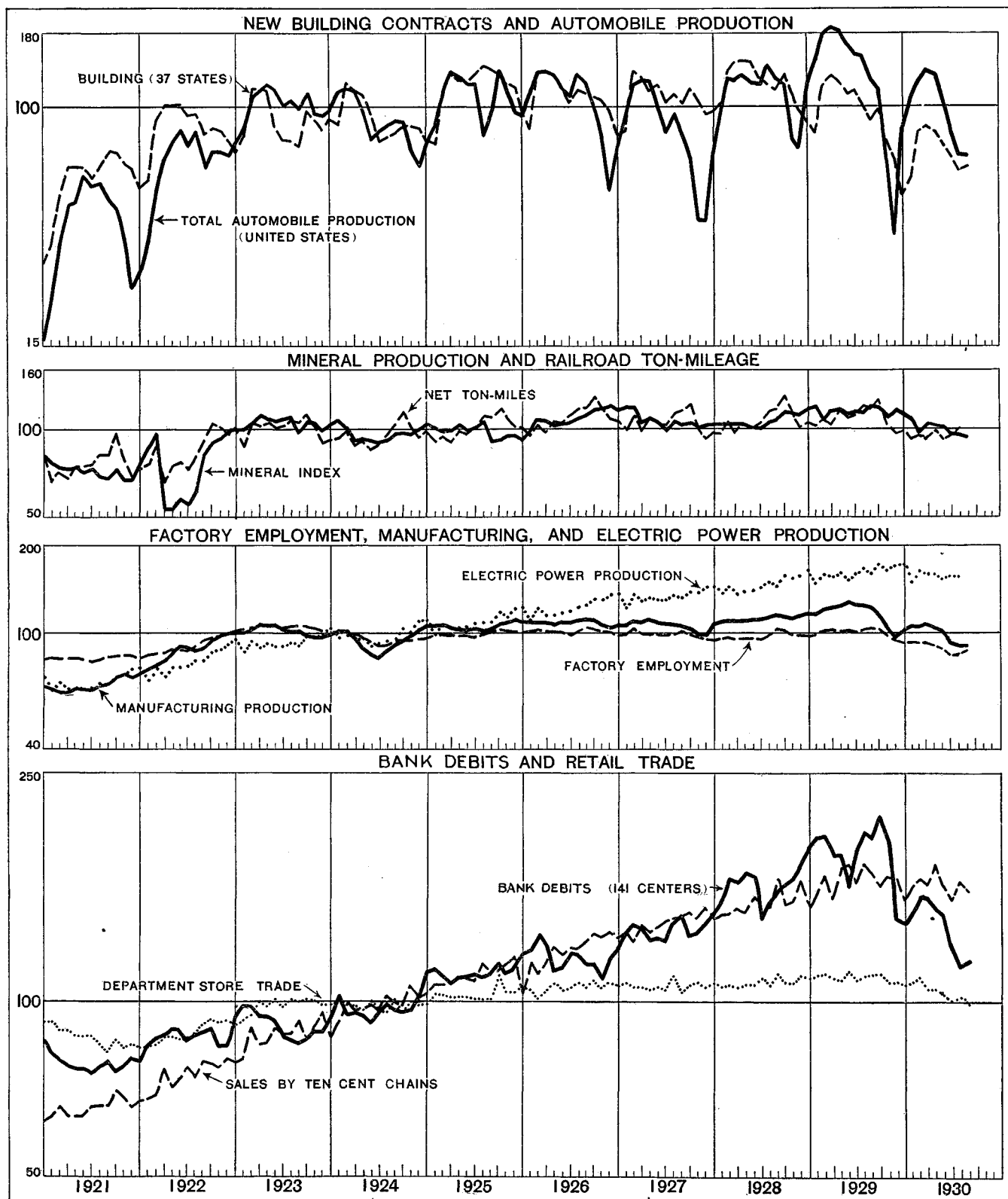
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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				
		August, 1930	Septem- ber, 1930	Septem- ber, 1929	1926 average=100				
					July, 1930	August, 1930	Septem- ber, 1930	August, 1929	Septem- ber, 1929
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER									
Wheat.....	Bushel.....	0.74	0.703	0.112	52	55	52	82	83
Corn.....	Bushel.....	.900	.917	.972	110	129	131	137	139
Potatoes.....	Bushel.....	1.088	1.099	1.355	70	59	59	75	73
Cotton.....	Pound.....	.114	.099	.182	79	75	66	119	121
Cottonseed.....	Ton.....	23.99	23.89	31.03	101	88	88	120	114
Cattle, beef.....	Pound.....	.0626	.0661	.0922	110	97	102	149	143
Hogs.....	Pound.....	.0851	.0944	.0953	71	72	80	87	81
Lambs.....	Pound.....	.0682	.0667	.1108	70	59	58	99	96
FARM PRODUCTS—MARKET PRICE									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	.91	.87	1.35	58	58	55	85	85
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	.89	.88	1.35	55	57	57	85	87
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	.81	.78	1.24	54	54	52	83	83
Corn, No. 3, yellow (Chicago).....	Bushel.....	.99	.94	1.01	109	132	125	135	135
Oats, No. 3, white (Chicago).....	Bushel.....	.39	.38	.48	85	95	93	105	117
Barley, No. 2 (Minneapolis).....	Bushel.....	.52	.53	.60	73	81	83	95	94
Rye, No. 2 (Minneapolis).....	Bushel.....	.60	.55	.97	60	65	60	107	105
Cotton, middling upland (New York).....	Pound.....	.121	.109	.189	75	69	62	106	108
Wool, 1/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.31	.31	.43	67	67	67	93	93
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	9.138	10.325	13.800	97	96	108	154	145
Hogs, heavy (Chicago).....	Cwt.....	9.775	10.580	9.955	73	79	86	86	81
Sheep, ewes (Chicago).....	Cwt.....	3.094	3.075	4.675	47	47	47	78	71
Sheep, lambs (Chicago).....	Cwt.....	7.719	7.350	12.550	59	56	54	94	92
FOOD									
Flour, standard patents (Minneapolis).....	Barrel.....	5.344	5.080	7.169	65	63	60	87	85
Flour, winter straights (Kansas City).....	Barrel.....	4.555	4.444	6.100	64	63	61	86	84
Sugar, 96° centrifugal (New York).....	Pound.....	.032	.031	.040	75	73	72	88	92
Sugar, granulated, in barrels (New York).....	Pound.....	.044	.043	.053	84	80	79	98	97
Cottonseed oil, prime yellow (New York).....	Pound.....	.084	.081	.093	67	71	69	79	78
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.168	.191	.236	106	102	116	145	144
Beef, fresh, carcass, steers (New York).....	Pound.....	.173	.203	.250	104	101	119	147	147
Pork, smoked hams (Chicago).....	Pound.....	.229	.227	.267	75	74	74	89	87
Butter, creamery, 92 score (New York).....	Pound.....	.39	.40	.46	78	87	89	96	102
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.....	.252	.242	.357	73	70	67	97	100
Cotton-print cloth 64 x 60-38 1/4"-5.35-yards to pound.....	Yard.....	.050	.053	.076	72	67	70	100	101
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.070	.070	.086	75	75	75	92	93
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.200	1.200	1.475	84	84	84	101	103
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	85	80	80	95	95
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.746	1.746	1.959	83	81	81	90	90
Silk, Japan, 13-15.....	Pound.....	2.955	2.413	5.122	48	48	39	82	83
Hosiery, women's pure silk, mill.....	Dozen pair.....	7.500	7.250	9.250	69	65	63	80	80
LEATHER									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.136	.146	.196	100	97	104	134	140
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.161	.165	.204	95	93	95	114	118
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.460	.440	.535	105	105	100	119	122
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.....	3.892	3.897	3.930	90	90	90	91	91
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.180	4.303	4.437	87	87	90	90	93
Coal, anthracite, chestnut (composite price).....	Long ton.....	12.578	12.707	12.924	90	91	92	93	94
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton.....	2.550	2.600	2.700	61	62	63	67	66
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.178	1.178	1.300	63	63	63	69	69
METALS									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	19.760	19.500	20.260	96	96	95	98	98
Pig iron, basic, valley furnace.....	Long ton.....	18.000	17.600	18.500	98	97	95	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.....	.1069	.1031	.1778	80	77	75	129	129
Brass, sheets, mill.....	Pound.....	.179	.176	.233	96	94	93	122	122
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0549	.0550	.0689	62	65	65	80	82
Tin, straits (New York).....	Pound.....	.3002	.2964	.4538	46	46	45	71	69
Zinc, slab, western (St. Louis).....	Pound.....	.0436	.0427	.0680	59	59	58	93	93
BUILDING MATERIAL AND MISCELLANEOUS									
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	31.720	33.480	36.760	75	70	74	83	82
Brick, common red, domestic building (New York).....	Thousand.....	9.500	9.500	10.500	61	58	58	62	64
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.600	1.600	1.500	92	92	92	92	86
Steel beams, mill (Pittsburgh).....	Cwt.....	1.650	1.600	1.950	84	84	82	100	100
Rubber, smoked sheets (New York).....	Pound.....	.099	.084	.202	24	20	17	42	42
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15.500	15.500	107	07	107	107	107
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3.250	3.250	94	94	94	94	94

MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

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



REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

TEXTILES

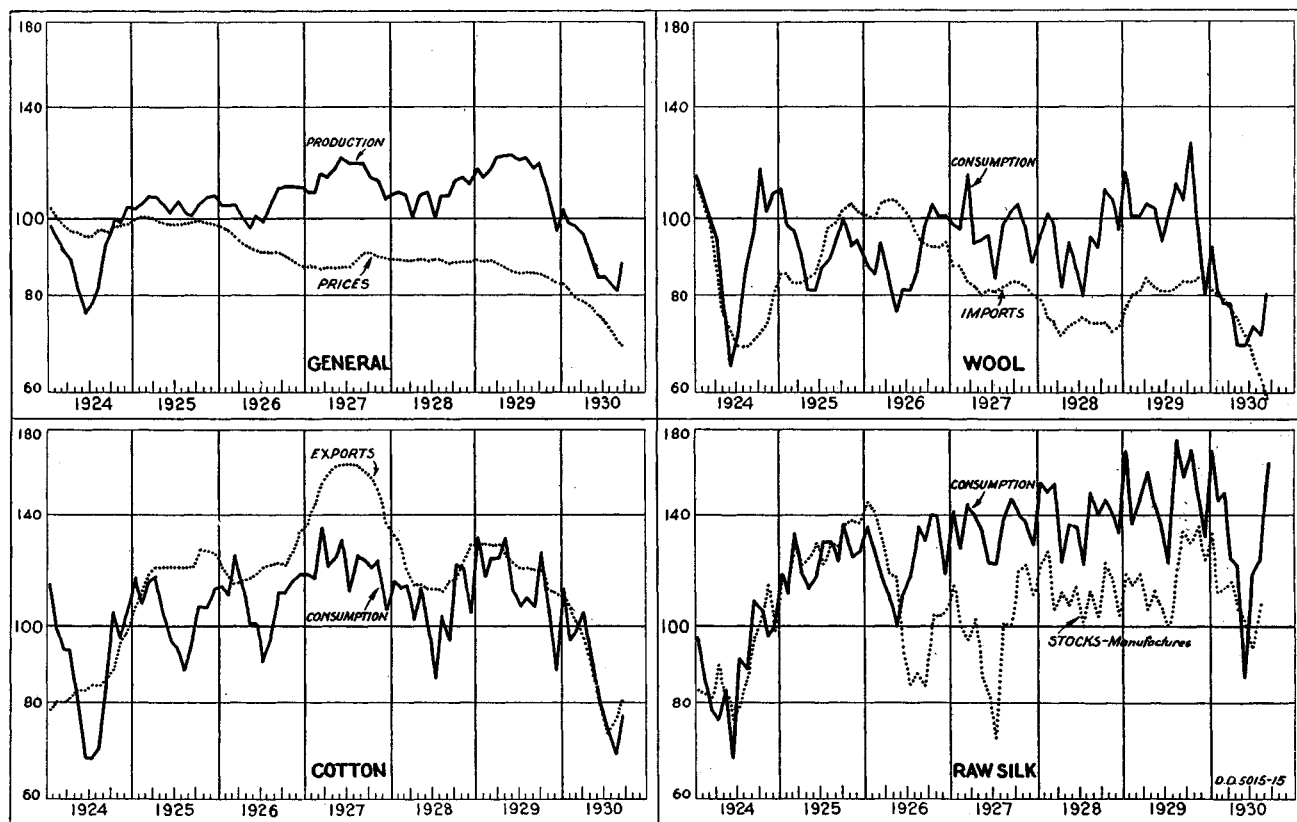
Receipts of foreign and domestic wool at Boston during September were seasonally smaller than the preceding month. They were also considerably less than the month of September of last year. For the first nine months of the year total receipts of wool at this city were 282,118,000 pounds; this compares with 264,365,000 pounds and 265,532,000 pounds for the corresponding periods of 1929 and 1928, respectively. Consumption of wool by textile mills, although greater than during August, declined from the month of September, 1929.

were lower except stocks. Prices for cotton goods, in the main, showed small change from the prices of August.

Silk imports were smaller than in either the previous month or a year ago. Deliveries of silk to mills showed gains over both comparative periods. Silk stocks at warehouses, although greater than at the end of August, were considerably lower when compared with September, 1929. More broad and narrow looms were active in September than in the preceding month. Silk spindle activity was also greater in September than in August. As compared with

THE TEXTILE INDUSTRIES

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



There were 394,321 bales of cotton consumed by mills during September. This compares with 352,335 bales in August and 545,834 bales in September, 1929. Total stocks of cotton at mills and warehouses at the end of September were greater than the preceding month or a year ago.

Spindle activity in the cotton industry, although greater than during August, declined from the month of September a year ago. Production of cotton textiles declined from the month of August and a year ago. New orders, shipments, and unfilled orders were greater than the preceding period, while stocks were less. As compared with a year ago, all trends

September last year, less activity was noted in looms and spindles. Rayon imports were decidedly smaller than either the preceding month or a year ago.

Textiles spread with pyroxylin in September showed an increase over the preceding month, but declined from the amount spread in September last year. Unfilled orders and shipments also showed gains over August. As compared with September 1929, the spread, unfilled orders, and shipments were all less.

Imports of buttons and shells were, on the whole, greater than either prior period. Imports of vegetable ivory, or tagua nuts, while greater than during August, were less than a year ago.

METALS

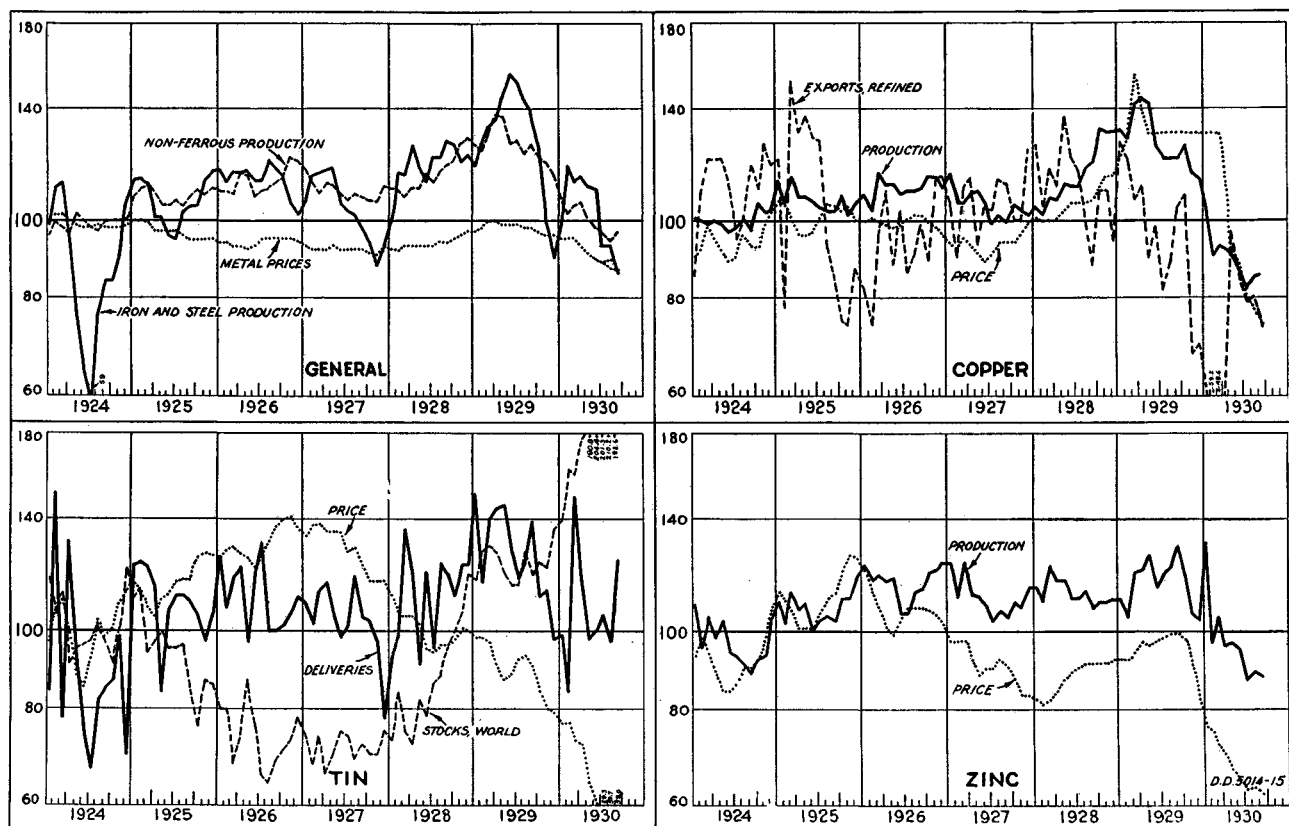
Shipments of iron ore from mines in September were smaller than in August, 1930, or in September a year ago. Receipts of ore at Lake Erie docks and furnaces also showed declines from prior periods. Pig-iron production in the United States during September showed declines from both the preceding month and September a year ago. The number of furnaces in blast at the end of the month, in keeping with the diminished output, were fewer than either comparative month. Wholesale prices for various types of pig iron averaged less than in August and were lower than a year ago.

Steel ingot output registered declines from both the

year to date there were produced 843,707 tons. This compares with 1,017,828 tons in 1929 and 769,416 tons in 1928. Structural steel awards declined from the month of August and a year ago. Shipments also were lower than previous periods. New orders for machine tools showed an increase over the preceding month. Unfilled orders were likewise greater, while shipments declined. As compared with a year ago, September shipments and new and unfilled orders were lower. Shipments and new orders of electric overhead cranes registered increases over the month of August. As compared with September, 1929, declines occurred in each case. New orders for foundry equipment were higher than during the preceding month. The num-

THE METAL INDUSTRIES

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



preceding month and September, 1929. For the year to date there were produced in the United States 32,689,000 tons. Unfilled orders for steel of the United States Steel Corporation at the end of September stood at 3,424,000 tons as compared with 3,580,000 tons at the end of August and 3,903,000 tons a year ago. The production of steel sheets was considerably greater than the output in August but lower than September, 1929. Stocks of steel sheets on hand, both total and unsold, were greater than either prior period. Shipments of sheets were less than the preceding month, while new and unfilled orders were greater.

Production of steel castings showed declines from both the month of August and a year ago. For the

ber of mechanical stokers sold during September was greater than the previous month but less than a year ago. Shipments of fire-extinguishing apparatus of the hand type were larger than the previous month, but declined from September, 1929.

The production of mine and smelter copper indicated a gain over the output in August. Refined copper output in North and South America fell off slightly when compared with August. As compared with September of last year, all production was lower.

Deliveries of tin during September showed an increase over the previous month, but were lower than in 1929. Zinc production showed declines from both the preceding month and a year ago.

FUELS

The output of bituminous coal in September was seasonably larger than the preceding month, but declined from a year ago. For the first nine months of the year 339,642,000 tons were produced. This compares with 389,255,000 tons for a similar period in 1929 and 358,698,000 in 1928. Anthracite coal output registered declines from both the preceding month of August and a year ago. Coke output showed losses from both prior periods. For the year to date there was more coke produced than in a similar period two years ago.

AUTOMOBILES AND RUBBER

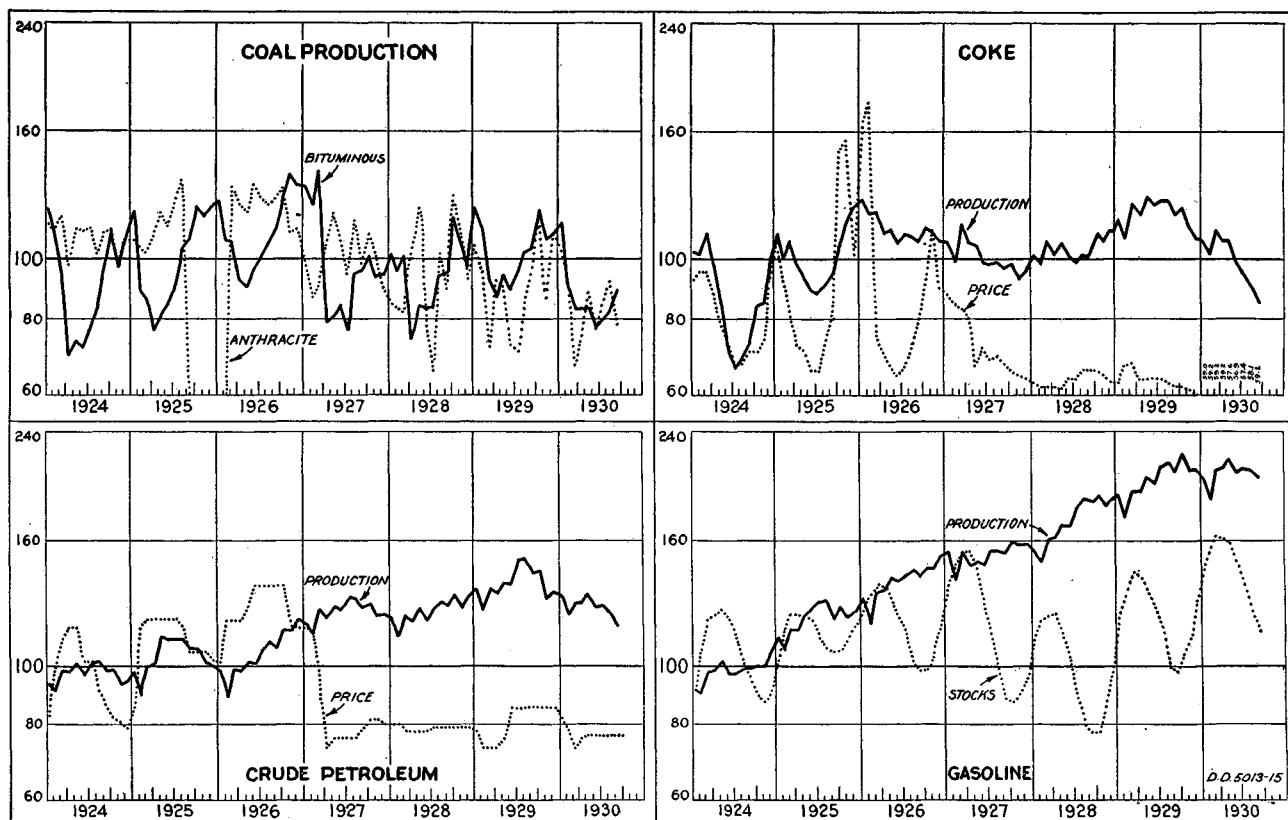
The total production of automobiles, both passenger cars and trucks, was smaller than in August or September

August, were lower than a year ago. For the first nine months of the year total imports of hides and skins were smaller than during the same period in 1929. More cattle, calves, and sheep were slaughtered under Federal inspection in the United States than during either previous period. Hog slaughtering while greater than in August were smaller than in 1929. Canadian slaughtering of cattle, calves, and sheep showed that more animals were killed than during August.

Exports of sole and belting leather registered increases over both the month of August and a year ago. The production of boots and shoes by 713 establishments during September, 1930, amounted to 23,161,941 pairs; this compares with 23,177,408 pairs of shoes made by the same firms in August of this year.

THE FUEL INDUSTRIES

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



ber a year ago. For the first nine months of 1930 there were 2,927,891 passenger cars, 5,422 taxicabs, and 437,420 trucks produced in the United States. Canadian production of automobiles and trucks also showed declines from comparative periods. Exports of automobiles from the United States in September were greater than the preceding month, but were lower than a year ago.

HIDES AND LEATHER

Imports of hides and skins during September, although showing an increase over the month of

PAPER

The imports of newsprint during September, while greater than during the preceding month, showed a decline from September, 1929. Newsprint production in both the United States and Canada was lower than in both prior periods. Consumption by publishers was greater than in either August, 1930, or September, 1929. For the first nine months of this year more paper was used in this country than during the same period in 1929 and 1928. Imports of mechanical wood pulp registered gains over both the month of August and a year ago.

BUILDING

The volume of new building contracts, as to value, was smaller than during August; as measured in square footage, however, an increase over August occurred. As compared with the month of September, 1929, declines occurred in both valuation and square footage of contracts awarded. Although a decline from August was apparent in the grand total of building as measured by value, increases over the previous month occurred in contracts let for industrial, educational, hospital, and institutional buildings and residential buildings. As compared with buildings in September, 1929, contracts let for all types of construction, with the single exception of religious and memorable buildings, was smaller. Fire losses in both the United

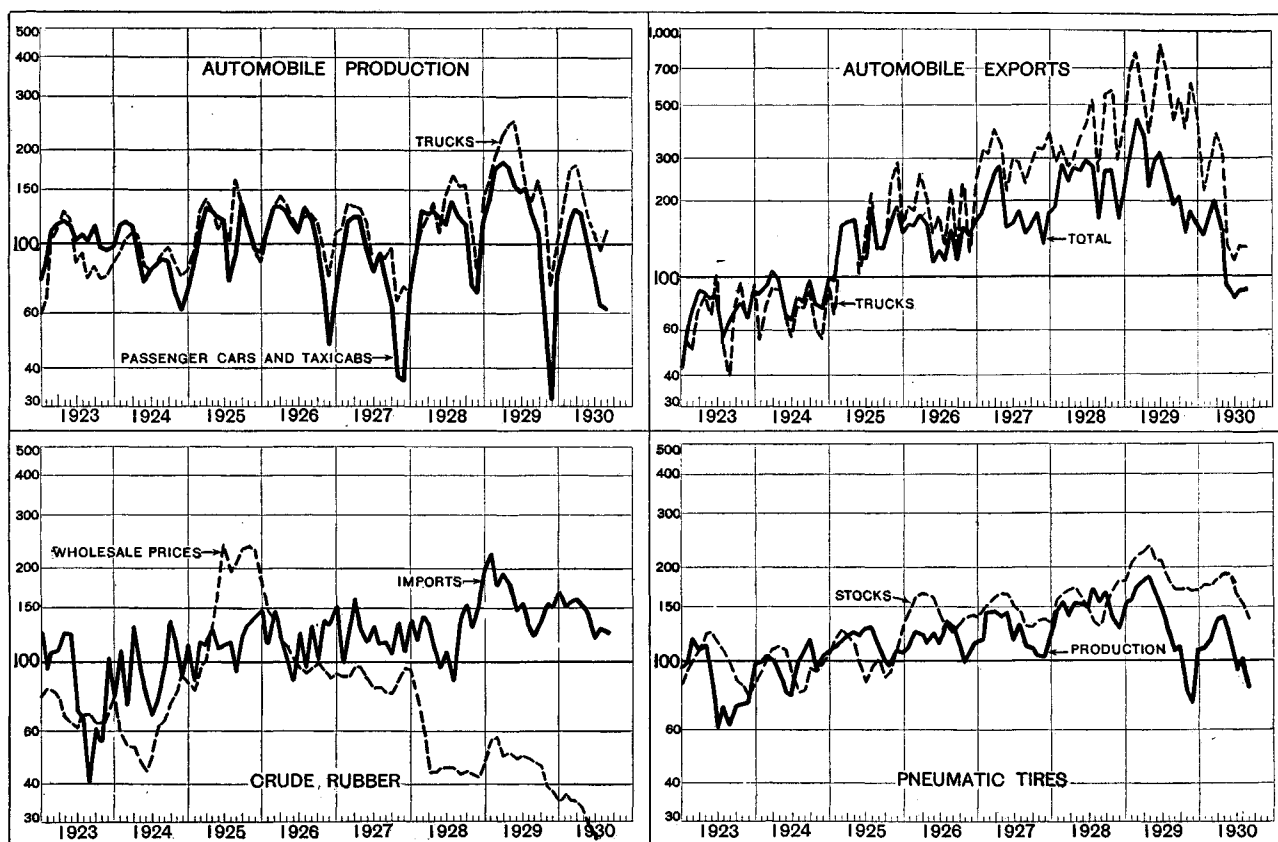
States and Canada were lower in September than in the preceding month. However, fire losses in the United States were greater and losses in Canada less than in September a year ago.

BUILDING MATERIALS

Portland cement output in the United States during the month of September was lower than in both the preceding month and a year ago. For the year to date the production was 126,919,000 barrels; this compares

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



States and Canada were lower in September than in the preceding month. However, fire losses in the United States were greater and losses in Canada less than in September a year ago.

LUMBER

The production of Douglas fir during September indicated declines from both prior periods. Shipments and unfilled orders also were lower, but unfilled orders and exports were higher than the previous month. The downward trend in the output of lumber was also indicated in the smaller cut of northern pine, northern hemlock and hardwoods, and walnut

with 128,199,000 barrels for a similar period in 1929 and 131,178,000 barrels in 1928. Shipments and stocks were also lower than the previous month. Greater stocks of cement were held at the end of September than a year ago. Cement prices although showing no change from the preceding month were higher than in September, 1929. The output of face brick, reflecting the decline in building, showed lower production, shipments, and stocks both from the previous month and September, 1929. Plate-glass manufacture during September was 7,979,000 square feet. This showed an advance over the output for August, but was considerably lower than a year ago.

FOODSTUFFS AND TOBACCO

The visible supply of wheat in the United States and Canada was larger at the end of September than at the end of August or a year ago. Receipts of wheat at principal markets, although smaller than during August, were much larger than in 1929. Exports of the grain, including flour, from the United States were lower than either prior period. Exports from Canada, on the other hand, were larger than in either the preceding month or a year ago. The output of wheat flour by mills showed gains over both prior periods. Receipts and shipments of corn were less than those of either the previous month or in September last year. Barley and rye were exported in greater

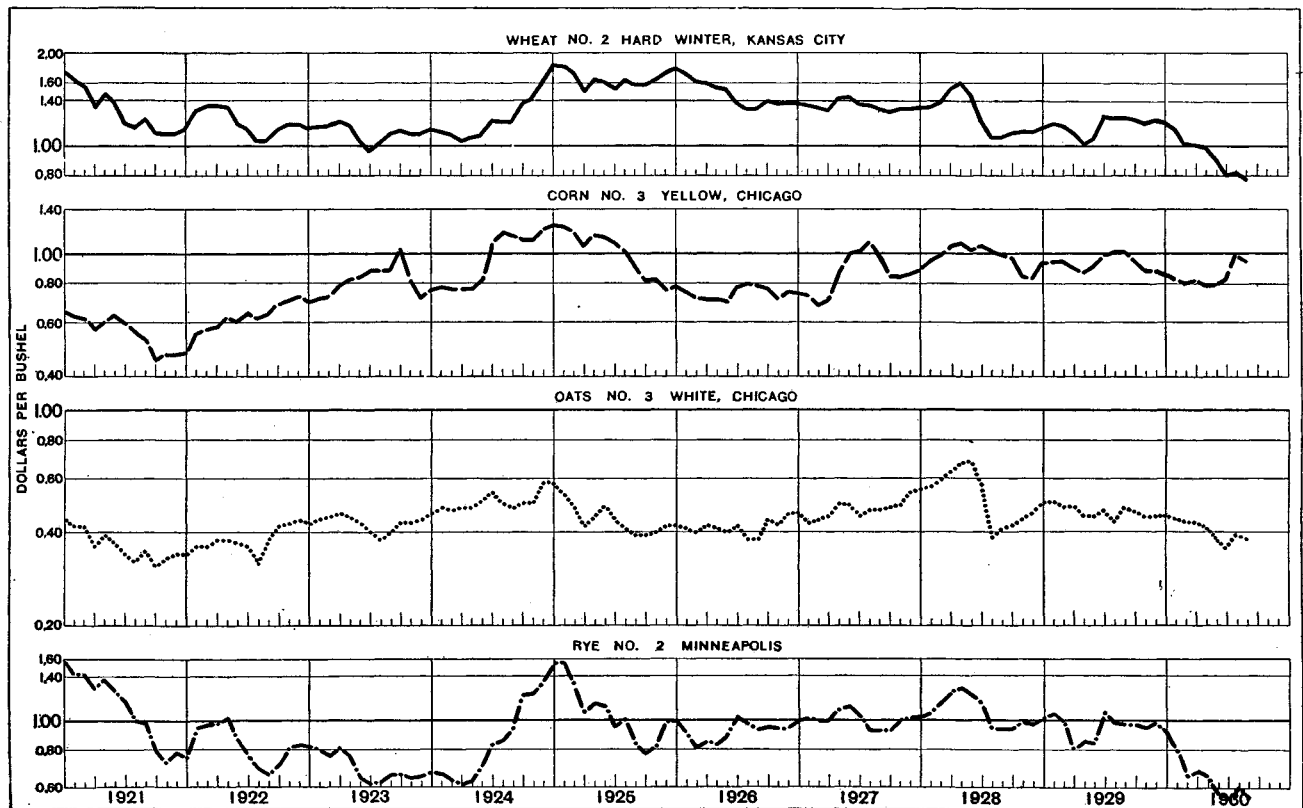
Shipments and local slaughter of hogs were greater than in August but less than in September, 1929. The production of pork and its products was less than in either comparative period. Cold-storage holdings and exports also showed losses from previous periods.

Receipts and shipments of sheep and lambs during September were larger than in the preceding month. Receipts and shipments were also greater than the same month in 1929. The production and consumption of mutton and lamb was more than during either the previous month or a year ago. Prices of ewes and lambs were lower than either prior period.

Poultry receipts at principal markets were greater

MOVEMENT OF GRAIN PRICES

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



quantities than during the month of August, but were exported in much smaller quantities than during September a year ago. Prices of wheat, wheat flour, and corn were generally lower than during August or September a year ago.

Receipts of cattle and hogs were seasonally larger than during August. As compared with September, 1929, receipts of cattle were larger and hogs smaller. The production of beef and veal under Federal inspection during September was greater than during either prior period. Holdings in cold storage, at the end of September, of these products, also showed gains over both periods.

than during August, but were less when compared with a year ago. Cold-storage holdings of poultry also showed similar comparisons. Receipts of butter and cheese were less than either the month of August or a year ago. Egg receipts at important centers, although greater than during the preceding month, were lower than in September, 1929.

The consumption of large cigars and manufactured tobacco was greater and that of small cigarettes less than the previous month. Exports of unmanufactured tobacco and cigarettes during September exceeded those of the previous month. As compared with a year ago, they were lower in each case.

TRANSPORTATION

September car loadings were smaller than in the preceding month, all classes of commodities except livestock participating in the decline. As compared with a year ago, declines occurred in all classes without exception. There were more locomotives and freight cars in bad order at the end of September than at the end of August, 1930, or September last year. Clearances of vessels in foreign trade in September, while declining from the preceding month, were more numerous than in September, 1929.

BANKING AND FINANCE

Bank debits, outside New York City, registered a substantial gain over the month of August, but were lower than a year ago. Bills discounted by Federal reserve banks showed a decline from the preceding month and were also lower than in 1929. Brokers loans receded from their level of the preceding month and were off considerably from September, 1929. Interest rates on time money showed no change from the rates of August, while call rates showed but a fractional change. Both rates were lower than a year ago. Sales of ordinary life insurance recorded a

decline from September of last year. Prices for stocks in general, averaged higher than the month of August, but were considerably lower than in September, 1929. Bond prices averaged higher than in either prior period. Business failures were slightly more numerous than during August or September a year ago; liabilities, however, showed a decline from the month of August.

GOLD, SILVER, AND FOREIGN EXCHANGE

The receipts of gold at the mint were greater than in either the previous month or September, 1929. Gold imports continued to decline, but exceeded the export movement. The output of silver was smaller than in either prior period. Imports and exports of the metal were lower than in either the preceding month or a year ago.

Exchange rates on the principal countries in September showed but slight change from the preceding month or a year ago. Increases over August were noted in rates with Brazil, while a decline was noted in the rates with Argentina. As compared with a year ago, increases in September occurred in the rates with England, the Netherlands, Belgium, Sweden, Switzerland, Japan, and Canada, while declines took place in the rates with India, Argentina, and Brazil.

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		
			July	August	September	July	August	September	July	August	September
PRODUCTION											
TOTAL INDUSTRIAL											
Unadjusted, except for working days.....	125	81	105	110	116	119	121	123	91	96	92
Adjusted for seasonal variations.....	127	83	110	112	114	124	123	122	94	91	91
MANUFACTURING											
Total (adjusted for working days only).....	127	79	106	110	116	119	121	122	89	88	91
Total (adjusted for seasonal variations).....	129	82	111	113	116	126	125	122	93	90	90
Iron and steel.....	155	59	124	121	128	152	143	140	93	93	86
Textiles.....	121	77	100	107	107	118	120	116	84	81	88
Food products.....	110	89	89	90	95	96	100	98	94	91	91
Paper and printing.....	130	91	118	117	118	125	125	130	111	108	-----
Lumber.....	110	78	94	87	82	87	88	-----	-----	-----	-----
Automobiles.....	166	47	116	133	136	142	143	133	75	67	68
Leather and shoes.....	134	86	112	112	110	114	117	116	100	100	97
Cement.....	126	99	119	126	130	118	122	118	116	117	111
Glass, plate.....	174	65	130	138	135	164	168	174	105	65	-----
Nonferrous metals.....	137	87	113	117	117	127	122	125	95	94	97
Petroleum refining.....	178	84	155	160	162	171	176	173	166	164	-----
Rubber tires.....	169	66	149	151	169	141	119	116	93	96	-----
Tobacco manufactures.....	143	93	125	129	128	131	133	136	137	130	125
MINERALS											
Total (adjusted for working days only).....	128	84	103	111	115	118	121	127	100	101	100
Total (adjusted for seasonal variations).....	120	90	101	105	107	114	115	118	97	96	94
Bituminous coal.....	125	77	93	91	94	102	99	103	86	82	85
Anthracite coal.....	133	1	67	94	93	72	78	102	82	88	80
Crude petroleum.....	147	88	119	123	123	143	145	140	120	117	114
Iron-ore shipments.....	143	0	104	104	110	119	121	121	95	96	79
Copper.....	142	82	113	116	123	122	119	125	83	84	89
Zinc.....	127	91	117	120	114	124	127	120	92	94	94
Lead.....	125	75	97	107	115	114	107	119	96	99	-----
Silver.....	123	68	76	87	79	88	91	89	69	68	-----
ANIMAL PRODUCTS (Marketing)											
Total.....	124	79	108	97	92	116	100	99	112	91	91
Wool.....	545	14	387	195	54	404	268	128	545	361	31
Livestock.....	131	76	78	79	92	83	77	96	77	77	94
Poultry and eggs.....	148	67	92	80	76	96	89	83	91	72	78
Dairy products.....	164	64	138	117	95	144	116	94	132	95	86
Fish.....	283	44	154	170	137	243	247	283	263	202	229
CROPS (Marketing)											
Total.....	252	45	87	115	178	91	135	177	87	115	166
Grains *.....	214	38	147	186	165	179	214	117	178	181	139
Vegetables *.....	199	60	107	83	133	169	88	145	113	82	139
Fruits *.....	266	43	164	165	206	106	130	173	124	133	164
Cotton products *.....	373	6	28	45	184	11	72	218	6	78	219
Miscellaneous crops *.....	344	3	23	119	210	25	155	344	3	25	42

* 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		
			July	August	September	July	August	September	July	August	September
PRODUCTION—Continued											
FOREST PRODUCTS											
Total.....	112	60	87	89	77	88	92	80	66	66	61
Lumber.....	112	58	88	88	77	86	91	79	62	63	58
Pulpwood.....	151	54	64	82	68	81	77	74	72	76	75
Gum (rosin and turpentine)*.....	204	18	170	161	129	204	189	157	204	171	158
Distilled wood.....	148	47	80	78	70	97	100	90	47	49	50
NEW ORDERS											
Total.....	138	57	95	98	95	90	92	89	60	57	60
Textiles.....	179	56	77	92	99	82	93	103	56	62	75
Iron and steel.....	158	71	116	118	125	132	126	106	87	75	71
Lumber.....	141	44	100	100	92	83	83	81	53	50	54
Paper and printing.....	128	85	101	108	109	112	119	117	105	102	101
Stone and clay products.....	129	59	97	97	93	90	85	89	60	59	64
STOCKS											
Grand total.....	158	82	106	108	116	122	128	140	125	133	148
Total manufactured goods.....	128	88	119	116	112	121	116	114	125	121	118
Foodstuffs.....	144	79	126	117	105	144	136	127	127	120	110
Textiles.....	139	78	129	125	118	125	122	115	117	106	97
Iron and steel.....	158	78	133	131	130	139	128	135	153	143	139
Nonferrous metals.....	221	74	119	121	125	122	127	136	205	209	221
Lumber.....	125	78	104	105	104	100	103	104	107	107	108
Stone, clay, etc.....	198	62	157	148	135	162	140	121	171	160	150
Leather.....	123	66	71	72	73	71	70	69	81	79	80
Rubber.....	199	77	145	134	130	175	155	144	137	126	116
Paper.....	156	46	155	156	137	90	98	101	112	117	118
Chemicals and oils.....	141	84	96	96	102	111	107	113	121	117	121
Total raw materials.....	186	68	96	102	119	123	136	158	126	141	170
Foodstuffs.....	230	68	123	136	145	188	212	222	163	184	197
Textiles.....	204	43	67	66	95	64	71	113	104	117	155
Metals.....	266	54	87	92	116	96	105	111	119	137	266
Chemicals and oils.....	146	72	91	93	108	94	97	115	93	98	120
UNFILLED ORDERS											
Total.....	157	67	77	75	75	82	76	77	75	70	67
Textiles.....	154	34	68	66	69	70	67	64	36	34	35
Iron and steel.....	159	63	75	75	75	84	76	79	78	71	68
Transportation equipment.....	204	35	68	60	60	73	79	86	119	118	99
Lumber.....	142	52	91	88	84	97	86	84	81	77	79
RETAIL TRADE											
Mail-order houses (2 houses).....	275	68	123	141	155	163	184	193	149	155	166
CHAIN STORES:											
Ten-cent.....	308	62	128	136	144	146	161	147	138	146	147
Restaurant.....	116	87	93	99	100	105	112	109	98	101	101
DEPARTMENT STORES:											
Sales.....	189	71	80	81	113	79	84	117	71	77	103
Stocks.....	117	83	93	97	103	92	96	104	87	87	94
COST OF LIVING											
National Industrial Conference Board Indexes											
(Relative to July, 1914)											
All items weighted.....	172	152	161	161	163	162	163	163	152	152	153
Food (Department of Labor).....	167	141	153	154	158	159	160	161	144	144	146
Shelter.....	186	153	161	161	161	159	159	160	154	153	154
Clothing.....	177	152	174	173	174	166	169	168	155	152	154
Fuel and light (combined).....	179	156	158	159	160	157	158	159	156	156	158
Fuel.....	208	174	177	178	180	176	177	180	175	176	178
Light.....	123	118	121	121	121	120	120	120	119	119	119
Sundries.....	176	165	171	171	171	169	169	169	166	165	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		
			July	August	September	July	August	September	July	August	September
EMPLOYMENT											
(Relative to 1923-1925 monthly average as 100)											
Number employed, by industries:											
Total, all classes.....	106	84	96	98	100	101	102	105	85	85	87
Iron and steel.....	108	82	94	96	96	100	101	101	86	84	82
Machinery.....	122	88	98	100	101	122	119	120	95	91	90
Textiles.....	111	77	88	89	93	92	94	98	77	78	82
Food products.....	109	93	98	97	101	100	100	102	95	93	95
Paper and printing.....	107	96	101	101	101	104	104	106	101	100	99
Lumber and products.....	104	65	88	90	90	91	92	92	68	67	65
Transportation equipment—											
Group.....	110	70	92	94	95	96	96	95	75	72	70
Automobiles.....	131	73	111	118	122	118	115	113	81	76	73
Leather and products.....	112	85	94	96	96	95	98	100	87	87	86
Cement, clay, and glass.....	107	75	95	97	96	92	94	94	76	75	75
Nonferrous metals.....	113	73	95	96	98	101	100	99	78	75	73
Chemicals—											
Group.....	119	90	100	101	107	109	111	115	101	102	103
Petroleum refining.....	125	95	103	104	106	120	122	124	114	112	109
Rubber products.....	117	77	110	112	113	114	112	108	83	81	77
Tobacco products.....	109	84	88	95	97	91	93	94	88	84	88
Amount of pay roll, by industries:											
Total, all classes.....	112	81	98	103	104	105	109	112	82	82	83
Iron and steel.....	114	75	94	100	99	104	109	109	79	78	75
Machinery.....	132	83	103	105	106	128	128	128	91	86	84
Textiles.....	111	69	86	90	95	90	97	103	69	73	81
Food products.....	109	94	103	102	104	106	105	108	100	98	101
Paper and printing.....	118	92	107	108	100	111	113	116	107	107	106
Lumber and products.....	107	62	88	92	93	94	95	97	63	62	65
Transportation equipment—											
Group.....	117	66	95	100	100	97	107	103	72	66	66
Automobiles.....	152	58	115	128	129	110	128	120	72	58	62
Leather and products.....	116	76	94	100	100	98	105	104	79	80	76
Cement, clay, and glass.....	108	66	91	95	93	86	91	91	66	66	66
Nonferrous metals.....	128	71	101	107	109	113	113	112	76	72	71
Chemicals—											
Group.....	118	90	103	104	106	111	113	116	101	101	101
Petroleum refining.....	129	90	107	109	109	123	125	129	118	117	114
Rubber products.....	150	72	115	118	124	115	111	105	81	78	72
Tobacco products.....	111	76	85	89	93	88	91	93	82	77	80
WHOLESALE PRICES											
Department of Labor Indexes											
(Relative to 1926 monthly average as 100)											
All commodities.....	105	84	98	99	100	98	98	98	84	84	84
Farm products.....	114	83	107	107	109	108	107	107	83	85	85
Food, etc.....	107	86	102	104	107	103	103	103	86	87	89
Hides and leather products.....	127	98	124	121	121	109	110	111	101	99	99
Textile products.....	114	76	97	96	96	93	93	93	80	78	76
Fuel and lighting.....	112	75	83	85	85	82	81	81	75	75	76
Metals and metal products.....	113	92	99	100	101	105	104	104	94	93	92
Building materials.....	116	86	94	95	95	97	97	98	89	87	86
Chemicals.....	104	87	95	95	95	93	94	94	88	87	87
House-furnishing goods.....	111	95	97	97	97	97	97	97	96	96	95
Miscellaneous.....	127	70	81	79	80	81	81	82	72	71	70
Classified by condition of manufacture:											
Semimanufactured articles.....	128	77	98	97	97	96	96	98	80	78	77
Finished products.....	103	86	98	99	101	98	97	97	87	86	87
Raw materials.....	109	81	100	99	101	99	99	99	81	82	82
All commodities except farm and food products.....	111	83	93	94	94	93	93	93	84	83	83
Commercial Indexes											
(Relative to 1926 monthly average as 100)											
Dun's.....	106	85	103	103	103	102	102	102	90	91	89
Bradstreet's.....	112	80	102	103	102	98	98	98	81	81	80

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1928			1929			1930		
			July	August	September	June	July	August	July	August	September
PRICE INDEX NUMBERS											
FARM PRICES											
(Relative to 1909-1914 average as 100)											
All groups-----	152	108	145	139	141	140	143	141	111	108	111
Grains-----	178	92	142	120	117	122	129	131	92	101	100
Fruits and vegetables-----	253	108	156	137	127	136	160	160	173	149	148
Meat animals-----	174	98	157	162	174	167	165	156	127	119	128
Dairy and poultry-----	166	120	134	136	145	137	141	146	111	115	123
Cotton and cottonseed-----	252	81	170	153	142	145	146	146	99	94	83
Unclassified-----	108	67	88	87	85	85	86	85	75	70	67

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	Num- ber of weeks	Weekly average	Total	Weekly average		Total	Num- ber of weeks	Weekly average	Total	Weekly average
1928						1929					
September.....	\$69,336	4	\$17,334	309,451	77,363	October.....	\$105,995	5	\$21,199	472,644	94,529
October.....	93,429	5	18,686	419,079	83,816	November.....	83,714	4	20,928	381,106	95,276
November.....	73,844	4	18,461	338,704	84,676	December.....	87,260	4	21,815	407,339	101,835
December.....	74,911	4	18,728	345,595	86,399	1930					
1929						1930					
January.....	91,983	5	18,397	425,590	85,118	January.....	164,271	5	20,854	492,425	98,485
February.....	85,846	4	21,462	396,225	99,056	February.....	86,122	4	21,530	400,568	100,146
March.....	77,712	4	19,428	363,786	90,947	March.....	83,976	4	20,994	395,331	98,834
April.....	77,324	4	19,331	359,129	89,782	April.....	86,138	4	21,534	404,319	101,080
May.....	97,319	5	19,464	451,680	90,336	May.....	104,671	5	20,934	503,976	100,795
June.....	76,653	4	19,163	353,289	88,322	June.....	82,882	4	20,721	407,085	101,771
July.....	93,671	5	18,734	427,431	85,486	July.....	96,724	5	19,345	488,682	97,736
August.....	75,191	4	18,798	335,628	83,907	August.....	78,363	4	19,591	389,113	97,278
September.....	75,246	4	18,811	336,309	84,077	September.....	77,023	4	19,256	378,627	94,657

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

YEAR AND MONTH	WHOLE- SALE FIN- ANCING	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	155,475	\$75,018,211	\$483	77,933	\$48,430,114	\$621	68,224	\$22,549,096	\$331	9,318	\$4,039,001	\$433	
February.....	47,962,644	188,672	90,468,079	479	102,918	61,606,570	599	75,979	24,445,129	322	9,775	4,416,380	452	
March.....	61,170,730	302,385	140,973,764	466	165,493	96,357,129	582	120,339	37,576,011	312	16,553	7,040,624	425	
April.....	74,884,909	407,022	170,669,318	419	204,280	115,063,926	566	183,521	46,709,886	255	19,221	8,295,506	432	
May.....	72,291,505	396,922	183,345,725	462	211,601	124,649,301	589	166,396	50,565,278	304	18,925	8,131,146	430	
June.....	62,213,046	382,817	178,696,287	467	203,011	121,444,109	598	162,769	49,873,151	306	17,037	7,379,027	433	
July.....	61,839,467	388,600	180,780,297	465	211,059	124,348,966	589	161,287	49,788,421	309	16,254	6,642,910	409	
August.....	69,959,084	347,565	163,763,129	471	183,591	110,893,680	604	148,439	46,437,285	313	15,535	6,432,164	414	
September.....	(2)	298,541	138,506,676	464	157,634	93,579,040	594	126,749	39,198,001	309	14,158	5,729,635	405	
October.....	(2)	263,139	124,767,425	474	121,651	79,967,218	657	132,184	40,609,905	307	9,304	4,190,302	450	
November.....	(2)	208,735	94,066,750	451	95,417	57,756,181	605	103,300	31,986,597	310	10,018	4,323,972	432	
December.....	(2)	170,330	79,460,837	467	73,865	47,819,401	647	89,133	28,433,535	319	7,332	3,207,901	438	
Total.....		3,510,203	1,620,516,498	462	1,808,453	1,082,515,635	599	1,538,320	468,172,295	304	163,430	69,828,568	427	
1930														
January.....	52,447,062	164,338	71,903,433	438	78,220	44,952,528	575	80,068	24,320,783	304	6,050	2,630,122	435	
February.....	61,244,849	197,924	85,006,756	429	95,093	52,743,378	555	94,762	28,907,025	305	8,069	3,356,353	416	
March.....	77,428,540	312,031	122,792,620	394	138,757	77,000,540	555	165,461	42,083,646	254	7,813	3,708,434	475	
April.....	85,304,532	344,314	145,790,976	423	170,633	93,710,275	549	162,833	48,440,779	297	10,848	3,639,922	336	
May.....	83,612,531	345,979	140,170,993	405	169,400	93,901,411	554	166,726	42,377,514	254	9,853	3,892,068	395	
June.....	53,639,210	337,929	137,204,896	406	159,231	90,894,537	571	168,719	42,472,910	252	9,979	3,837,449	385	
July.....	55,577,837	285,234	118,295,421	415	130,332	73,419,024	563	149,080	42,453,892	285	5,822	2,422,505	416	
August.....	45,348,877	246,539	102,910,682	417	111,299	63,324,551	569	129,155	37,207,831	288	6,085	2,378,300	391	

¹ Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 485 automobile-financing organizations. Some of the smaller firms found it impossible to segregate their operations, their totals being shown in the unclassified group. This summary is subject to revision in subsequent issues as reports are received from additional firms.² Data not available.

RELATIVE BANK DEBITS AT CLEARING-HOUSE CENTERS ¹

GROUPED BY FEDERAL RESERVE DISTRICTS

[Table continued on p. 21]

YEAR AND MONTH	U. S. TOTAL 141 CEN- TERS	BOSTON DISTRICT					NEW YORK DISTRICT					PHILADELPHIA DISTRICT			
		Total, 11 centers	Boston	Hart- ford	Provi- dence	New Haven	Total, 7 centers	Albany	Buffalo	Roches- ter	New York	Total, 10 centers	Phila- delphia	Scran- ton	Tren- ton
1919 av., mills. dolls....	37,446	1,769	1,245	92	144	72	20,917	87	263	120	20,354	1,625	1,373	53	43
1919 monthly average...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average...	106.0	109.2	105.9	117.4	118.7	118.1	99.4	111.5	114.8	119.2	98.8	113.3	112.4	124.5	125.6
1921 monthly average...	88.7	102.4	106.7	98.9	93.0	98.6	85.2	119.5	92.8	103.3	84.8	95.8	93.8	122.7	111.6
1922 monthly average...	97.8	105.5	109.3	103.3	95.1	104.2	98.4	119.5	99.6	110.0	98.2	102.5	101.7	109.4	118.6
1923 monthly average...	103.2	117.1	120.2	119.6	105.5	122.2	98.2	118.3	114.8	124.2	97.6	114.3	111.9	139.6	137.2
1924 monthly average...	109.5	120.9	125.6	131.3	104.4	125.8	108.3	134.8	115.0	129.0	107.9	116.8	114.3	142.3	146.5
1925 monthly average...	126.8	136.7	143.9	141.7	114.9	134.6	128.7	147.7	133.3	144.3	128.3	129.5	128.1	138.9	159.6
1926 monthly average...	135.3	141.6	157.0	152.3	113.4	139.6	139.0	154.0	136.9	146.3	138.8	134.6	133.1	144.2	168.5
1927 monthly average...	150.0	158.1	168.9	202.5	113.2	148.6	160.1	168.3	140.6	152.2	160.3	140.0	138.6	145.5	175.6
1928 monthly average...	179.5	161.3	169.1	232.7	115.5	162.4	203.7	179.0	166.0	157.8	204.8	156.2	155.8	146.6	187.4
1929 monthly average...	208.2	176.5	184.3	279.4	137.4	173.8	245.4	208.0	199.0	164.6	246.9	171.5	171.5	144.8	201.6
1929															
January.....	221.3	181.3	187.9	295.7	143.7	195.8	266.7	186.1	191.2	175.0	268.8	179.1	178.9	151.0	200.0
February.....	189.1	151.2	159.5	220.7	117.3	144.5	225.4	157.4	149.8	141.7	227.4	156.1	155.9	137.8	216.3
March.....	223.2	171.4	178.4	267.4	134.0	172.2	270.0	233.2	180.2	165.8	272.3	175.1	177.7	143.4	181.4
April.....	199.7	166.0	168.8	301.1	131.9	172.2	234.4	241.3	181.4	153.3	235.7	178.4	179.9	141.5	193.1
May.....	204.5	167.4	173.7	254.4	133.3	166.7	244.4	282.7	176.0	149.2	245.9	166.7	167.1	141.5	183.8
June.....	186.1	162.5	166.5	250.0	137.5	170.8	211.9	212.6	188.2	164.2	212.6	177.1	178.7	139.6	193.1
July.....	207.4	182.1	189.8	300.0	140.2	180.6	240.8	204.5	217.1	176.7	241.8	175.5	175.3	139.6	227.9
August.....	206.7	186.7	200.7	287.0	128.4	168.1	239.9	196.5	226.2	159.2	240.9	154.2	153.2	135.9	186.1
September.....	207.4	174.5	179.5	341.3	127.1	173.6	246.2	178.1	232.3	182.5	247.3	154.0	152.5	135.9	190.7
October.....	255.3	217.5	231.9	322.8	166.6	201.4	308.9	209.1	256.3	193.3	311.1	186.2	185.6	171.7	211.7
November.....	219.4	186.3	195.1	273.9	152.1	179.2	261.5	191.9	213.3	158.3	263.4	180.1	181.8	152.8	204.7
December.....	178.4	171.4	180.2	238.1	136.8	161.1	195.3	202.2	176.4	155.8	195.8	175.5	171.1	147.2	230.3
1930															
January.....	161.5	172.4	181.4	254.4	131.9	176.4	170.5	176.9	160.4	151.7	170.6	160.6	159.6	143.4	211.7
February.....	140.6	131.7	136.1	203.3	109.0	141.7	152.7	183.8	143.0	122.5	152.9	137.4	153.8	120.8	216.3
March.....	175.6	147.8	150.3	257.6	118.7	175.0	199.4	263.1	161.2	136.7	200.2	154.2	153.9	128.3	162.8
April.....	168.2	152.5	158.6	248.9	116.6	163.9	189.3	237.8	161.6	140.8	189.8	139.9	137.4	130.2	169.8
May.....	165.2	147.1	151.8	238.1	113.9	165.3	184.3	352.7	178.7	138.3	183.8	139.8	138.4	120.8	176.8
June.....	166.5	151.7	157.7	235.9	119.4	168.1	185.1	258.5	166.5	150.8	185.2	146.8	145.8	124.5	169.8
July.....	141.1	140.0	145.9	209.8	101.4	162.5	146.1	228.7	146.8	143.3	145.6	131.4	129.1	126.4	172.1
August.....	122.9	117.5	120.6	181.5	92.3	141.7	123.7	193.0	140.3	116.7	123.1	117.4	114.5	117.0	153.5
September.....	130.0	116.8	117.7	153.6	90.3	147.2	134.6	168.9	134.2	117.5	134.5	119.4	116.8	115.1	148.9
October.....															
November.....															
December.....															

YEAR AND MONTH	ATLANTA DISTRICT							CHICAGO DISTRICT							
	Total, 15 centers	Atlanta	Bir- ming- ham	New Or- leans	Jack- son- ville	Nash- ville	Au- gusta	Total, 21 centers	Chi- cago	Detroit	Indian- apolis	Mil- wau- kee	Des Moines	Grand Rapids	Sioux City
1919 av., mills. dolls....	928	123	59	304	48	93	37	4,242	2,800	525	136	237	83	75	63
1919 monthly average...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average...	115.1	108.9	128.8	115.4	125.0	120.4	110.8	116.0	113.0	125.2	123.5	124.0	114.5	128.0	109.5
1921 monthly average...	84.2	85.4	103.4	82.2	91.7	105.4	64.9	92.0	91.7	91.2	100.0	97.5	84.4	109.3	63.5
1922 monthly average...	86.0	90.2	133.9	89.5	97.9	71.0	70.3	96.8	96.2	101.3	104.4	101.7	83.1	81.3	101.6
1923 monthly average...	100.0	108.9	183.1	97.4	112.5	78.5	83.8	108.8	105.0	125.7	115.4	115.6	97.6	89.3	119.0
1924 monthly average...	105.3	113.1	199.3	106.4	126.5	79.2	74.6	110.8	106.3	130.6	110.9	110.5	103.2	89.2	123.4
1925 monthly average...	125.0	129.2	223.7	118.2	206.2	87.6	78.2	124.9	120.4	158.3	115.4	119.4	89.8	114.1	136.9
1926 monthly average...	128.1	132.7	243.8	113.7	232.6	89.7	72.6	132.0	127.5	166.4	135.2	127.3	98.1	115.5	129.1
1927 monthly average...	124.9	127.8	253.5	114.8	181.6	97.6	74.8	137.9	136.8	162.8	136.2	130.1	98.9	110.3	114.7
1928 monthly average...	123.1	137.7	255.4	112.6	156.4	108.5	75.0	155.3	152.3	213.2	139.6	131.5	100.2	118.0	92.5
1929 monthly average...	128.2	173.0	252.1	112.2	157.8	118.8	74.1	174.6	174.8	234.3	153.4	133.5	102.5	123.1	99.7
1929															
January.....	143.6	186.2	281.4	129.6	168.7	146.2	75.7	173.7	170.1	255.3	155.1	128.3	101.2	133.3	98.4
February.....	120.2	169.9	215.3	105.6	158.3	119.3	64.9	153.3	154.9	201.4	140.4	115.2	86.8	104.0	88.9
March.....	134.3	195.9	252.6	117.4	175.0	129.0	75.7	180.3	185.7	220.2	150.7	130.8	100.0	126.6	101.6
April.....	132.3	188.6	255.9	112.2	183.3	119.3	75.7	163.4	158.9	234.9	143.4	122.8	101.2	118.6	106.3
May.....	126.3	187.0	252.6	104.3	162.5	109.7	70.3	166.5	160.0	252.4	151.5	117.3	106.0	128.0	104.7
June.....	120.5	165.9	232.2	95.7	152.1	145.1	62.2	163.7	158.7	233.0	156.6	128.3	103.6	122.6	96.8
July.....	126.7	180.5	244.1	107.9	162.5	111.8	62.2	178.4	176.6	242.3	165.4	142.6	103.6	126.6	106.3
August.....	121.4	179.7	239.0	101.6	141.6	112.9	64.9	187.8	192.8	234.5	159.6	143.9	104.8	130.6	101.6
September.....	117.5	143.9	244.1	102.0	131.2	106.4	78.4	179.9	177.2	260.8	147.8	140.1	103.6	132.0	95.2
October.....	142.0	171.5	296.6	131.2	158.3	118.3	100.0	206.4	214.6	253.0	164.0	150.9	118.1	134.6	104.7
November.....	123.8	152.0	254.3	114.5	143.7	101.1	75.7	179.7	185.3	215.1	157.4	147.7	103.6	113.3	90.5
December.....	129.4	154.5	257.6	125.0	156.2	106.4	83.8	162.5	162.8	208.8	148.5	132.9	97.6	106.6	101.6
1930															
January.....	130.5	165.0	272.9	118.1	170.8	105.4	67.6	154.7	151.6	201.5	148.5	137.1	106.0	114.6	104.7
February.....	108.8	129.3	196.6	103.3	166.6	91.4	56.8	129.4	127.1	166.1	125.0	112.6	85.6	85.3	95.2
March.....	115.1	143.1	215.3	102.0	160.4	104.3	64.9	156.4	155.5	202.7	139.0	131.6	104.8	104.0	98.4
April.....	113.5	132.5	208.5	107.2	162.5	100.0	67.6	152.9	149.9	204.8	129.4	131.2	107.2	106.6	98.4
May.....	110.6	137.4	211.9	96.7	147.9	114.0	59.5	153.5	150.2	200.6	143.4	140.1	109.7	109.3	95.2
June.....	100.8	120.3	198.3	86.5	145.8	103.2	48.7	158.1	158.0						

RELATIVE BANK DEBITS AT CLEARING-HOUSE CENTERS ¹—Continued

GROUPED BY FEDERAL RESERVE DISTRICTS—Continued

[Table continued on p. 22]

YEAR AND MONTH	CLEVELAND DISTRICT									RICHMOND DISTRICT				
	Total, 13 centers	Akron	Cincinnati	Cleveland	Pittsburgh	Yngstown	Toledo	Columbus	Dayton	Total, 7 centers	Baltimore	Norfolk	Richmond	Greenville
1919 average millions of dollars...	1,963	90	247	653	746	60	116	116	50	718	404	84	16	37
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	16.4	115.6	113.0	115.9	118.5	110.0	117.2	111.2	104.0	111.8	115.6	102.3	108.7	102.7
1921 monthly average.....	89.6	63.3	107.7	81.9	94.9	78.3	100.0	102.6	110.0	95.5	104.9	71.4	98.3	67.6
1922 monthly average.....	94.6	63.3	117.4	84.1	97.2	83.3	123.8	112.1	112.0	89.6	89.1	78.5	100.9	67.6
1923 monthly average.....	110.9	80.0	133.6	99.2	112.7	103.4	153.5	128.5	138.0	98.6	93.3	88.1	112.9	78.4
1924 monthly average.....	109.4	81.4	128.0	96.8	113.2	101.6	155.7	116.0	136.0	96.3	93.4	82.2	109.1	69.4
1925 monthly average.....	122.0	100.0	142.7	106.6	126.4	117.0	179.2	126.9	156.0	106.7	104.6	85.8	122.9	73.0
1926 monthly average.....	127.4	104.5	150.3	115.9	126.7	118.0	189.5	138.3	176.5	108.4	107.4	94.2	121.5	76.2
1927 monthly average.....	136.6	112.9	167.2	124.9	137.1	118.5	205.2	144.8	188.8	107.1	104.2	89.0	120.2	75.0
1928 monthly average.....	141.4	124.5	181.2	130.0	136.1	124.1	241.0	148.3	194.5	105.4	102.0	85.4	123.6	64.2
1929 monthly average.....	152.9	133.7	184.8	145.9	150.9	137.4	198.9	166.6	216.2	108.9	107.6	83.5	127.4	61.3
1929														
January.....	154.2	136.7	202.5	138.9	147.1	138.4	244.0	174.1	242.0	113.3	106.2	94.0	133.6	73.0
February.....	139.6	125.5	176.5	134.1	139.9	115.0	170.7	150.0	190.0	96.4	93.3	73.8	114.7	62.2
March.....	150.0	133.3	184.2	140.4	148.7	135.0	199.1	158.6	232.0	108.4	104.4	85.7	125.0	64.9
April.....	158.5	140.0	201.2	153.1	154.0	138.4	219.0	173.3	216.0	110.3	109.1	80.9	121.6	59.5
May.....	145.7	134.4	172.5	135.8	147.7	120.0	185.4	159.5	198.0	104.9	101.2	82.1	115.5	59.5
June.....	148.1	136.7	179.0	141.3	143.6	143.4	190.5	163.8	214.0	105.0	106.9	80.9	117.2	56.8
July.....	165.4	148.9	184.6	151.1	167.9	151.7	219.8	175.0	248.0	109.1	111.6	83.3	123.3	56.8
August.....	152.3	127.8	165.2	149.6	148.7	143.4	191.4	164.7	210.0	113.9	120.3	80.1	134.5	54.1
September.....	145.7	130.0	166.0	145.6	138.6	135.0	175.0	156.0	214.0	101.5	103.0	73.8	120.7	51.4
October.....	170.4	140.0	206.5	165.5	170.2	155.0	218.1	187.1	220.0	120.5	117.8	89.3	146.6	73.0
November.....	152.1	124.4	189.5	140.9	161.6	125.0	179.3	160.4	198.0	112.1	110.1	88.1	141.4	64.9
December.....	153.1	126.7	189.5	154.9	143.0	148.4	194.8	176.7	212.0	110.9	107.2	90.4	134.5	59.5
1930														
January.....	144.0	125.5	183.4	141.8	131.6	135.0	184.5	167.2	228.0	108.7	107.7	80.9	126.7	73.0
February.....	118.4	100.0	133.6	110.4	116.7	100.0	148.3	139.7	176.0	91.1	92.1	70.2	105.2	54.1
March.....	135.9	112.2	146.6	131.5	135.5	113.4	157.8	162.1	190.0	106.4	113.4	77.4	112.9	54.1
April.....	139.2	122.2	175.7	138.9	131.7	130.0	162.1	172.4	190.0	105.3	105.9	75.0	109.5	51.4
May.....	139.5	113.3	151.8	128.6	145.4	123.4	159.5	162.1	184.0	107.4	111.9	77.4	114.7	51.4
June.....	146.3	117.8	166.4	131.7	159.6	123.4	153.5	167.2	194.0	103.4	108.9	75.0	116.4	43.2
July.....	140.8	107.8	159.9	129.4	146.7	113.4	175.9	161.2	194.0	103.2	110.4	72.6	115.5	40.5
August.....	116.0	98.9	128.8	104.0	119.5	101.7	144.8	137.9	148.0	92.6	98.3	65.5	109.5	43.2
September.....	123.5	104.4	134.0	113.0	128.1	106.7	135.3	149.1	166.0	98.6	101.5	64.3	126.7	40.5
October.....														
November.....														
December.....														

YEAR AND MONTH	DALLAS DISTRICT				ST. LOUIS DISTRICT					MINNEAPOLIS DISTRICT					
	Total, 11 centers	Dallas	Houston	Fort Worth	Summary for 5 centers	Louisville	St. Louis	Memphis	Little Rock	Total, 6 centers	Duluth	Minneapolis	St. Paul	Helena	Billings
1919 av., mill. dolls....	521	161	138	92	965	156	617	136	36	659	90	354	162	11	9
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	117.4	114.3	115.2	119.6	105.4	92.3	106.5	107.4	125.0	108.5	120.0	109.6	98.2	100.0	111.1
1921 monthly average.....	94.2	90.7	86.2	109.8	89.0	82.0	91.9	73.5	116.7	82.7	84.4	84.2	75.3	100.0	88.9
1922 monthly average.....	97.9	96.9	81.2	119.6	94.5	87.8	94.2	87.5	127.8	88.0	82.2	85.0	97.5	90.9	77.8
1923 monthly average.....	101.3	107.5	89.0	93.5	110.4	101.9	108.4	106.6	169.5	94.8	85.5	91.5	106.8	81.8	88.9
1924 monthly average.....	101.5	112.7	91.2	78.0	110.6	106.7	108.2	101.1	186.1	104.2	117.7	103.8	101.6	85.6	78.7
1925 monthly average.....	112.4	130.8	103.6	82.4	124.2	120.8	120.8	111.7	204.9	114.3	118.2	119.4	104.7	85.6	84.3
1926 monthly average.....	119.1	131.5	126.0	92.1	127.3	128.7	122.7	111.5	226.4	104.9	88.3	110.3	102.2	82.6	88.0
1927 monthly average.....	124.5	135.6	131.9	103.2	127.4	123.6	120.9	119.6	220.8	110.0	103.0	113.9	106.7	83.3	92.6
1928 monthly average.....	134.6	148.5	140.1	115.8	133.8	131.3	129.0	117.0	230.4	117.5	101.3	124.6	110.6	87.9	110.2
1929 monthly average.....	147.1	162.2	153.2	124.7	138.5	134.8	132.9	134.6	236.8	128.2	101.1	141.5	116.3	93.9	111.1
1929															
January.....	154.7	178.3	149.3	132.6	146.8	150.6	137.5	144.9	236.1	113.0	74.4	122.3	113.0	90.9	100.0
February.....	131.8	146.0	136.2	104.4	125.6	133.3	117.2	120.6	200.0	100.0	66.7	107.4	103.1	72.7	77.8
March.....	147.6	168.3	152.9	117.4	140.7	136.5	133.2	136.0	238.9	113.0	75.5	120.9	117.3	81.8	100.0
April.....	142.2	154.0	145.6	120.7	134.6	127.6	131.5	121.3	225.0	112.0	77.8	119.8	111.1	100.0	100.0
May.....	140.3	145.3	157.2	115.2	132.1	136.5	128.2	114.7	216.7	116.1	91.1	126.8	105.6	81.8	111.1
June.....	129.3	134.8	136.9	115.2	141.2	135.3	145.7	108.1	191.7	120.0	97.8	130.0	111.7	81.8	100.0
July.....	139.9	139.1	152.9	142.4	136.9	138.5	138.3	102.9	211.1	138.7	122.2	154.8	117.3	100.0	111.1
August.....	138.7	147.8	147.8	122.8	126.5	123.1	125.3	110.3	211.1	150.2	132.2	171.8	120.4	100.0	111.1
September.....	150.3	165.8	160.9	118.5	134.0	128.8	125.6	141.2	258.4	147.8	127.8	169.8	116.1	100.0	122.2
October.....	179.4	208.1	188.4	142.4	163.7	153.2	147.5	202.2	338.9	154.0	125.5	172.3	130.3	109.1	166.7
November.....	155.8	175.8	161.6	131.5	142.5	136.5	131.5	165.4	263.9	138.4	116.7	151.7	124.7	109.1	122.2
December.....	154.9	182.6	148.5	133.7	137.9	117.9	133.9	147.8	250.0	135.0	105.5	150.0	124.7	100.0	111.1
1930															
January.....	142.2	155.3	149.3	110.9	132.7	127.6	129.0	130.1	225.0	113.9	71.1	128.0	111.1	81.8	88.9
February.....	124.0	131.1	130.4	98.9	108.8	109.6	104.1	107.4	188.9	100.7	66.7	111.9	99.4	72.7	77.8
March.....	140.9	173.9	134.8	105.4	123.1	116.0	119.3	119.9	222.2	110.7	76.7	120.3	112.3	72.7	88.9
April.....	130.7	147.8	132.6	103.3	120.1	114.1	118.7	105.1	211.1	110.7	68.9	123.7	107.4	90.9	88.9
May.....	123.4	127.3	136.9	97.8	127.5	122.4	129.8	103.7	197.2	108.6	80.0	119.5	103.1	72.7	90.0
June.....	118.6	119.9	131.9	76.7	126.9	129.5	128.9	97.1	180.6	109.7	82.2	118.4	108.0	81.8	88.9
July.....	115.1	117.4	126.1	97.8	114.8	116.0	114.1	90.4	197.2	103.0	67.8	112.4	101.9	100.0	88.9
August.....	111.7	118.6	126.8	90.2	103.3	113.5	100.5	82.4	172.2	110.7	87.8	126.3	93.8	72.7	77.8
September.....	123.4	137.9	138.4	96.7	107.6	131.4	100.0	93.4	183.3	117.1	111.1	126.8			

RELATIVE BANK DEBITS AT CLEARING-HOUSE CENTERS¹—Continued

GROUPED BY FEDERAL RESERVE DISTRICTS—Continued

YEAR AND MONTH	KANSAS CITY DISTRICT							SAN FRANCISCO DISTRICT					
	Total, 14 centers	Denver	Kansas City, Mo.	Omaha	St. Joseph, Mo.	Oklahoma City	Tulsa	Total, 18 centers	Los Angeles	Port- land, Oreg.	San Franc- isco	Seattle	Oak- land, Calif.
1919 average, millions of dolls.	1,231	146	413	264	85	68	94	1,909	314	181	760	206	63
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	109.8	139.7	94.9	95.5	97.6	153.0	131.9	123.2	139.2	108.8	124.6	96.1	160.3
1921 monthly average.....	82.0	98.6	74.6	67.4	81.1	129.4	88.3	104.4	143.0	82.3	101.9	67.0	128.5
1922 monthly average.....	84.2	102.7	74.3	73.1	69.4	119.2	105.3	107.2	165.0	76.2	94.8	73.3	144.4
1923 monthly average.....	90.6	111.6	84.3	77.7	72.9	114.7	104.3	126.3	223.6	86.2	104.0	83.0	192.0
1924 monthly average.....	85.7	112.9	81.4	69.7	71.6	112.1	89.5	128.9	236.7	89.4	107.1	87.7	196.3
1925 monthly average.....	95.5	121.5	90.1	76.9	72.7	127.4	112.6	142.9	251.1	92.0	126.1	98.0	227.3
1926 monthly average.....	100.4	123.2	93.4	75.4	73.4	139.1	136.0	155.7	278.1	101.0	138.2	103.2	273.0
1927 monthly average.....	102.3	120.4	93.8	76.0	66.9	154.6	139.2	172.3	297.2	94.2	165.0	105.8	356.7
1928 monthly average.....	108.9	125.4	102.4	82.1	70.0	167.1	147.0	198.7	342.7	101.4	201.6	119.7	399.1
1929 monthly average.....	120.5	138.9	115.0	87.4	68.9	192.3	177.0	203.7	388.1	109.1	186.3	133.3	376.5
1929													
January.....	117.1	136.3	107.3	84.1	74.1	185.3	184.1	209.4	404.2	101.1	189.1	133.0	407.9
February.....	102.3	118.5	94.4	75.8	61.2	175.0	147.9	187.4	371.4	97.2	172.3	112.1	349.1
March.....	117.9	148.6	111.6	89.4	69.4	176.5	159.6	223.3	435.1	110.5	210.6	140.3	417.4
April.....	116.0	145.2	104.8	86.0	68.2	185.3	172.4	191.5	383.8	98.3	164.0	128.6	366.6
May.....	112.7	135.6	105.3	83.0	65.9	186.8	161.7	197.7	394.9	111.6	174.0	125.7	372.9
June.....	115.3	133.6	110.4	83.7	65.9	183.9	169.2	190.3	365.0	105.0	167.4	125.7	385.6
July.....	140.4	137.7	145.3	96.6	78.8	216.2	202.2	196.7	365.0	108.8	175.9	138.3	385.6
August.....	128.1	149.3	127.1	98.1	76.4	182.4	170.2	208.3	398.3	115.5	191.0	141.7	382.5
September.....	116.7	130.1	112.6	87.5	65.9	189.8	173.4	197.3	366.3	114.9	184.2	133.0	325.3
October.....	135.8	166.4	129.5	98.1	71.7	216.2	197.9	241.6	433.2	121.0	244.8	159.7	388.8
November.....	124.5	139.7	118.1	85.2	62.3	208.9	190.5	209.8	394.0	121.6	191.2	140.3	358.7
December.....	119.8	125.3	113.1	81.1	67.0	201.5	194.7	191.2	351.0	103.9	171.3	121.4	377.7
1930													
January.....	114.5	121.9	103.9	84.9	68.2	208.9	174.5	186.9	352.9	96.7	170.3	122.3	319.0
February.....	99.3	107.5	90.3	77.3	56.4	170.6	143.6	161.9	308.6	82.9	150.4	105.8	269.8
March.....	109.5	123.3	101.7	85.6	57.6	191.2	157.5	198.2	346.5	100.0	201.5	126.7	353.9
April.....	106.8	124.7	99.7	79.9	56.4	179.5	158.5	183.0	344.0	98.3	171.2	123.3	301.5
May.....	107.2	119.2	98.8	81.1	56.4	189.8	161.7	181.7	348.1	122.2	166.9	114.1	309.5
June.....	107.7	114.4	101.9	79.2	52.9	183.9	171.3	178.9	326.5	98.9	170.3	120.9	306.3
July.....	113.4	113.0	111.9	81.1	55.2	192.7	158.5	172.9	321.7	93.4	162.3	106.8	206.3
August.....	104.8	114.4	100.2	81.4	54.1	164.8	153.2	166.4	298.1	92.3	165.3	106.3	274.6
September.....	107.6	116.4	99.3	78.4	54.1	167.7	150.0	161.1	288.2	100.0	151.3	110.2	277.7
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DISTRICT TOTALS—SEASONAL VARIATIONS ELIMINATED													
YEAR AND MONTH	U. S. total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Francisco
1919 monthly average.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1920 monthly average.....	106.0	109.5	99.3	105.1	116.4	112.1	115.1	116.1	105.5	108.5	109.8	118.0	123.4
1921 monthly average.....	88.7	101.9	85.1	95.9	89.8	97.6	84.4	92.0	89.1	82.9	82.1	94.3	105.4
1922 monthly average.....	97.8	105.4	98.5	102.5	94.5	89.5	85.9	96.8	94.2	87.9	84.1	97.9	107.1
1923 monthly average.....	103.3	117.1	98.0	114.4	111.1	98.8	99.9	109.0	110.3	95.0	89.7	101.1	126.4
1924 monthly average.....	109.5	121.1	108.3	116.8	109.5	96.5	105.3	110.8	110.5	103.1	87.0	101.2	129.4
1925 monthly average.....	126.7	136.6	128.6	129.4	122.0	106.8	124.8	123.8	124.1	114.4	95.4	112.4	142.9
1926 monthly average.....	135.4	146.0	139.0	132.1	127.4	108.5	128.4	132.1	127.3	105.3	100.3	119.4	156.2
1927 monthly average.....	150.0	158.1	160.2	140.0	136.7	107.3	124.1	137.9	127.3	109.5	102.1	124.5	172.4
1928 monthly average.....	179.1	161.3	203.1	155.9	141.3	105.6	123.2	155.1	133.3	117.3	108.5	134.5	199.7
1929 monthly average.....	208.8	177.1	246.5	171.7	154.0	109.1	128.5	174.8	138.6	128.2	120.4	147.5	204.2
1929													
January.....	212.0	170.7	252.8	175.2	148.1	109.3	132.4	170.6	136.8	112.3	113.2	144.4	211.3
February.....	219.9	175.8	263.6	181.9	160.8	112.5	135.4	175.6	139.1	125.9	116.5	149.6	223.6
March.....	220.8	171.9	265.5	174.6	152.7	112.2	133.2	178.4	140.1	120.5	115.5	151.1	218.3
April.....	204.4	171.1	237.2	183.0	159.8	117.3	139.1	168.3	140.1	119.3	121.1	157.0	200.5
May.....	204.3	168.2	239.6	168.2	150.4	108.7	130.7	167.8	134.8	121.3	114.2	150.9	204.7
June.....	180.0	156.2	203.0	168.3	142.3	102.3	124.6	160.0	139.9	122.3	115.5	138.0	191.8
July.....	209.3	180.1	244.5	174.5	160.3	108.4	133.6	176.1	140.8	145.7	140.0	156.1	199.1
August.....	224.4	211.9	267.1	162.7	160.0	117.5	134.6	192.6	138.7	156.9	125.5	154.3	214.5
September.....	218.3	192.0	265.9	159.3	158.1	106.3	121.9	182.1	141.1	133.8	115.2	145.2	195.3
October.....	289.0	199.5	291.1	175.5	166.2	110.9	128.0	195.5	149.5	130.1	128.1	152.4	221.9
November.....	215.1	176.6	255.4	182.5	156.0	107.6	116.5	182.6	139.8	128.5	125.0	140.9	201.9
December.....	158.2	151.4	171.9	155.3	133.2	96.4	112.6	149.6	122.7	121.6	115.5	130.8	167.4
1930													
January.....	154.7	162.3	161.6	157.1	138.3	104.8	120.3	152.0	123.7	113.2	110.7	132.8	188.6
February.....	163.5	153.1	178.6	160.1	136.4	106.3	122.5	148.2	120.5	126.8	113.1	140.7	193.2
March.....	173.7	148.2	196.1	153.7	138.4	110.1	114.2	153.0	122.6	118.0	107.2	144.2	193.7
April.....	172.2	157.2	191.6	143.5	140.3	112.0	119.3	157.5	125.0	117.9	111.5	144.3	191.6
May.....	165.0	147.8	180.7	141.1	144.0	111.3	114.5	154.7	130.1	113.5	108.6	132.7	188.1
June.....	161.0	145.9	177.3	139.5	140.5	100.8	104.2	154.5	125.8	111.8	107.9	126.6	180.3
July.....	142.4	138.5	148.3	130.6	136.4	102.6	104.3	142.8	118.1	108.2	113.1	128.5	175.0
August.....	133.4	133.4	137.8	123.8	121.8	95.6	101.3	135.3	113.3	115.7	102.6	124.2	171.4
September.....	136.8	128.5	145.4	123.5	126.8	103.2	103.7	134.1	113.3	106.0	102.8	119.2	159.5
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

² Greenville, S. C., substituted for Charleston, S. C., since May, 1928.

TREND OF BUSINESS MOVEMENTS

The following table contains a summary of the monthly figures, designed to show the trend in important industrial and commercial movements. These data represent continuations of the figures presented in the latest semiannual number (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 August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
TEXTILES												
Wool												
Receipts at Boston:												
Total.....thous. of lbs..	76,915	51,672	7,074	56,981	40,476	19,444	54,907	29,720	10,315	232,118	264,365	265,532
Domestic.....thous. of lbs..	72,313	47,826	4,094	53,652	35,594	16,975	51,316	25,802	7,156	223,540	181,473	189,308
Foreign.....thous. of lbs..	4,602	3,846	2,980	3,329	4,882	2,469	3,561	3,918	3,159	58,578	82,892	76,224
Imports:												
In condition imported.....thous. of lbs..	8,900	10,145	8,817	18,815	17,068	18,158	18,289	14,472	14,510	135,069	221,248	187,988
Grease equivalent.....thous. of lbs..	10,084			21,931	19,015	21,450	18,975	16,025	17,040		247,515	210,141
Consumption by textile mills, grease equivalent.....thous. of lbs..	34,682	33,761	38,083	47,296	52,644	49,755	38,099	45,103	43,492	327,885	441,710	390,910
Machinery activity, hourly:												
Looms—												
Wide.....per ct. of hours active..	48	44	46	62	60	64	53	55	59			
Narrow.....per ct. of hours active..	42	43	41	60	62	63	49	48	53			
Carpet and rug.....per ct. of hours active..	31	34	36	61	66	66	55	63	62			
Sets of cards.....per ct. of hours active..	51	48	53	80	80	83	78	77	85			
Combs.....per ct. of hours active..	71	75	81	86	93	94	59	65	74			
Spinning spindles—												
Woolen.....per ct. of hours active..	52	48	55	78	77	77	75	74	80			
Worsted.....per ct. of hours active..	53	55	60	62	69	70	50	58	62			
Prices:												
Raw, territory, fine, scoured.....dolls. per lb..	.76	.76	.76	.93	.93	.92	1.17	1.14	1.14			
Raw, Ohio and Pa. fleeces, 1/4 blood, combing, grease.....dolls. per lb..	.31	.31	.31	.42	.43	.43	.55	.54	.54			
Worsted, yarn.....dolls. per lb..	1.20	1.20	1.20	1.45	1.45	1.48	1.60	1.60	1.58			
Women's dress goods, French serge, 39-in.....dolls. per yd..	.90	.90	.90	.98	.98	.98	1.03	1.03	.99			
Suiting, 13-oz.....dolls. per yd..	1.696	1.601	1.601	1.996	1.901	1.901	2.008	2.008	2.008			
Cotton												
Production, crop												
estimate.....thous. of bales.....			¹ 14,486			¹ 14,825			¹ 14,478			
Ginnings.....thous. of bales.....			¹ 9,252			¹ 9,095			¹ 8,151			
Receipts into sight.....thous. of bales.....	64	865	2,410	126	823	2,431	281	527	2,078	6,021	7,000	6,254
Imports, unmanufactured.....bales.....	4,161	5,901	3,394	21,369	24,793	23,974	18,473	25,258	18,508	247,128	355,044	236,313
Exports, unmanufactured (excl. linters).....bales.....	176,435	366,036	902,956	237,507	226,018	725,876	331,452	252,627	509,953	3,797,527	4,207,353	4,818,406
Consumption by textile mills.....bales.....	375,835	352,335	394,321	547,165	558,754	¹ 545,834	439,821	526,340	492,307	4,117,986	5,416,294	4,811,358
Stocks, domestic, end of month:												
Totals, mills and warehouses.....thous. of bales.....	4,061	4,476	6,215	2,037	2,183	¹ 3,999	2,201	1,970	3,358			
Mills.....thous. of bales.....	1,183	1,011	968	1,052	801	¹ 791	1,011	782	720			
Warehouses.....thous. of bales.....	2,878	3,465	5,248	985	1,382	¹ 3,209	1,190	1,188	2,638			
Stocks, world visible, end of month:												
Total.....thous. of bales.....	5,230	5,190	6,707	3,651	3,458	4,381	4,056	3,480	4,114			
American.....thous. of bales.....	2,917	3,159	4,892	1,693	1,623	2,652	2,165	1,790	2,563			
Machinery activity of spindles:												
Active spindles.....thousands.....	26,464	25,874	26,087	30,397	30,230	¹ 30,035	28,160	28,217	28,209			
Total activity.....millions of hours.....	5,297	5,134	5,663	7,757	8,130	7,881	6,251	7,424	6,963			
Activity per spindle.....hours.....	156	151	167	222	234	226	176	209	196			
Ratio to capacity.....per cent.....	67.2	65.2	76.4	100.3	97.3	¹ 103.5	79.7	87.1	90.1			
Prices:												
To producer.....dolls. per lb..	.119	.114	.099	.178	.180	.182	.210	.188	.176			
In New York, mid-dling.....dolls. per lb..	.132	.121	.109	.186	.187	.189	.215	.193	.185			
Cotton Yarn												
Carded sales yarn:												
Production.....thous. of lbs..	11,049	10,031	11,148	13,211	19,639	17,122	12,522	14,046	18,839	114,723	166,856	158,091
Stocks, end of month.....thous. of lbs..	13,742	13,633	12,819	8,901	8,185	7,423	12,350	11,574	10,248			
Unfilled orders, end of month.....thous. of lbs..	26,469	29,103	33,194	32,472	32,175	35,833	24,619	27,044	34,836			
Prices:												
22/1 cones, Boston.....dolls. per lb..	.262	.252	.242	.348	.349	.357	.384	.369	.358			
40/1s, southern spinning.....dolls. per lb..	.447	.435	.420	.505	.510	.510	.515	.514	.501			
Cotton Goods												
Cotton textiles:												
Production.....thous. of yds..	165,850	218,815	182,385	234,439	307,538	268,611	221,826	302,470	253,688	2,150,172	2,655,437	2,657,149
New orders.....thous. of yds..	180,147	235,272	291,980	262,889	312,635	371,485	187,439	340,810	387,151	2,073,188	2,672,228	2,587,684
Shipments.....thous. of yds..	176,689	231,348	232,975	252,779	326,398	287,628	217,540	324,073	278,110	2,218,779	2,702,137	2,576,405
Stocks, end of month.....thous. of yds..	455,529	442,996	392,406	382,920	364,060	345,043	463,270	441,667	417,245			
Unfilled orders, end of mo.....thous. of yds..	222,498	226,422	285,427	368,858	355,095	438,952	272,227	288,964	398,005			

¹ As of Oct. 1.² Final estimate for 1929.³ Final estimate for 1928.⁴ As of Oct. 18

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
TEXTILES—Continued												
Cotton Goods—Continued												
Cotton cloth:												
Imports.....thous. of sq. yds..	2,434	1,664	1,920	5,175	3,927	3,972	3,490	3,754	3,139	30,153	45,646	47,389
Exports.....thous. of sq. yds..	35,397	34,285	32,626	50,412	42,359	42,274	46,218	44,913	35,558	320,889	440,421	375,399
Fabric for tire manufacture:												
Consumption.....thous. of lbs..	13,399	13,223	10,917	18,126	15,803	13,469	20,947	21,854	17,797	130,256	176,023	169,540
Elastic webbing, shipments												
.....thous. of dolls..	1,088	1,127	1,200	1,357	1,399	1,419	1,211	1,399	1,478	11,592	13,992	12,379
Prices:												
Print cloth, 64 x 60.....dolls. per yd..	.054	.050	.053	.073	.075	.076	.079	.075	.074			
Sheeting, brown.....dolls. per yd..	.070	.070	.070	.083	.086	.086	.092	.091	.089			
Cotton Finishing												
White, dyed, and printed (outside mills):												
Billings, finished goods												
.....thous. of yds..	41,473	37,907	40,631	75,582	75,845	73,116	58,685	70,748	69,805	489,666	750,510	655,447
New orders, gray yardage												
.....thous. of yds..	37,349	35,576	41,618	69,475	69,168	67,991	62,310	71,743	74,483	449,215	711,427	647,337
Shipments, finished goods.....cases..	28,559	28,843	26,691	44,809	45,238	43,586	40,500	46,283	45,767	308,960	463,283	411,043
Stocks, finished goods, end mo.												
.....cases..	31,901	27,198	22,079	37,299	36,320	35,082	37,958	35,819	33,410			
Operating activity												
.....per ct. of capacity..	34	36	46	57	60	61	51	54	61			
Unfilled orders, end of month.....days..	1.9	2.1	2.6	4.9	4.9	4.6	3.8	4.4	5.0			
Printed only (mills and outside):												
Production.....thous. of yds..	38,799	42,185	55,387	60,902	69,315	66,766	49,996	54,495	66,079	508,952	697,430	566,830
Stocks, end of month.....thous. of yds..	82,297	70,395	64,788	87,397	87,918	88,864	75,977	74,682	75,161			
Silk												
Imports, raw.....thous. of lbs..	5,712	8,244	7,887	7,858	9,620	8,811	5,832	9,320	7,218	56,227	71,377	64,919
Deliveries (consumption).....bales..	39,948	41,734	55,649	51,624	59,704	53,274	40,931	50,821	47,797	407,532	467,537	428,335
Stocks, end of month:												
At warehouses.....bales..	35,565	44,978	47,621	42,596	48,408	55,104	38,866	50,975	50,464			
At manufacturing plants.....bales..	*18,046	*20,511	21,243	20,985	25,854	29,594	22,188	24,429	22,786			
Silk-machinery activity:												
Broad looms.....per cent of normal..	79.2	73.1	80.0	99.7	101.9	100.7	93.0	89.8	92.7			
Narrow looms.....per cent of normal..	29.7	35.4	42.9	65.1	65.5	63.1	52.1	54.1	54.0			
Spinning spindles												
.....per cent of normal..	52.1	49.1	57.7	63.8	65.2	66.8	62.7	52.1	66.9			
Prices:												
Raw, Japanese, 13-15, N. Y.												
.....dolls. per lb..	2.955	2.955	2.413	4.876	5.073	5.122	4.851	4.851	5.096			
Silk goods, composite.....dolls. per yd..	1.08	1.06	1.04	1.18	1.18	1.18	1.17	1.16	1.16			
Rayon												
Imports.....thous. of lbs..	133	171	153	858	990	1,044	651	1,001	924	5,269	12,621	8,742
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..	1,811	1,878	1,662	2,645	2,616	2,173				18,199	23,344	
Separate trousers												
.....thous. of garments..	1,926	1,891	2,071	2,647	2,637	2,490				19,164	23,592	
Overcoats.....thous. of garments..	441	437	564	756	901	926				3,184	5,237	
Overalls:												
Cut.....thous. of dozen garments..	244	288	326	335	374	386	295	245	332	2,600	3,153	2,786
Net shipments												
.....thous. of dozen garments..	223	250	289	317	360	352	289	319	313	2,391	2,885	2,674
Unfilled orders, end of mo.												
.....thous. of dozen garments..	60	74	69	185	113	142	161	153	150			
Hosiery:												
Production.....thous. of dozen pairs..	2,300	2,408	2,789	3,245	3,552	3,586	2,786	3,474	3,255	25,804	31,987	30,562
Net shipments												
.....thous. of dozen pairs..	2,356	2,766	3,406	3,234	3,673	4,046	2,963	3,735	3,755	25,392	31,742	30,488
Stocks, end of month												
.....thous. of dozen pairs..	9,015	8,647	7,864	8,420	8,356	7,902	8,916	8,656	8,128			
New orders.....thous. of dozen pairs..	2,229	2,633	3,292	2,974	3,586	4,038	2,836	3,207	3,810	25,015	32,283	30,135
Unfilled orders, end of month.....thous. of dozen pairs..	2,322	2,096	1,876	4,480	4,299	4,160	4,711	4,079	3,957			
Knit underwear:												
Production												
.....thous. of dozen garments..	869	* 828	945	1,091	1,152	1,098	881	1,098	1,016	9,267	10,495	9,776
Net shipments												
.....thous. of dozen garments..	902	* 1,024	1,299	1,064	1,382	1,532	942	1,306	1,402	9,070	10,493	9,785
Stocks, end of month												
.....thous. of dozen garments..	1,880	* 1,759	1,599	1,797	1,689	1,416	1,658	1,570	1,370			
New orders.....thous. of dozen garments..	781	* 909	1,085	891	1,149	1,459	852	1,236	1,213	8,928	10,948	9,699
Unfilled orders, end of month.....thous. of dozen garments..	1,524	* 1,398	1,170	2,103	1,870	1,783	1,947	1,896	1,696			
Burlaps and Fibers												
Imports:												
Burlaps.....thous. of lbs..	57,553	39,038	39,578	41,526	74,698	33,568	58,541	47,766	43,622	478,971	513,838	505,947
Fibers (unmanufactured)												
.....long tons..	16,857	13,941	13,803	20,469	25,048	22,210	18,448	20,657	21,004	198,426	249,886	225,091
Pyroxylin-Coated Textiles												
Pyroxylin spread.....thous. of lbs..	2,840	* 2,705	2,963	4,331	4,294	3,812	5,040	5,596	4,844	29,831	45,942	45,293
Shipments billed.....thous. of linear yards..	2,212	2,109	2,460	3,509	3,540	3,315	3,757	4,241	3,914	24,878	38,300	35,202
Unfilled orders, end of month.....thous. of linear yards..	1,779	1,179	1,508	2,805	2,468	2,599	4,182	3,853	4,561			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
TEXTILES—Continued												
Fur												
Sales by dealers.....thous. of dollars..	4,348	5,425	7,301	8,135	11,335	11,434	12,215	12,110	10,244	57,545	110,539	107,999
Buttons												
Fresh-water pearl buttons:												
Production.....ratio to capacity..	23.1	25.7	36.2	40.9	45.5	46.6	29.7	44.5	47.5			
Stocks, end of month.....thous. of gross..	* 9,857	* 9,258	9,061	11,170	10,051	* 10,926	10,847	10,667	10,593			
Imports:												
Buttons—												
Product of Philippines.....thous. of gross..	63	69	78	50	52	64	58	72	49	618	482	753
All other.....thous. of gross..	12	14	3	16	9	26	15	2	5	340	296	93
Shells—												
Mother-of-pearl.....thous. of pounds..	476	844	802	832	632	1,073	398	392	586	4,974	5,505	4,146
All other.....thous. of pounds..	72	56	164	86	212	116	46	156	59	2,315	1,563	1,943
Tagua nuts.....thous. of pounds..	1,213	708	1,286	1,537	3,053	2,264	1,799	1,356	1,492	10,185	19,938	16,798
IRON AND STEEL												
Iron												
Manganese ore, imports.....thous. of long tons..	16	8	22	48	33	13	21	26	13	223	259	143
Iron ore:												
Imports.....thous. of long tons..	251	178	215	301	298	247	183	226	211	2,337	2,315	1,855
Shipments from mines.....thous. of long tons..	8,587	8,252	6,488	10,671	10,807	9,547	8,980	9,243	8,748	39,064	53,264	41,266
Receipts—												
Lake Erie ports and furnaces.....thous. of long tons..	6,346	5,586	4,721	7,509	7,518	6,619	6,078	6,390	5,827	26,405	36,575	27,342
Other ports.....thous. of long tons..	2,515	2,492	1,891	3,127	3,284	2,710	2,655	2,819	2,710	11,695	14,839	12,320
Consumption.....thous. of long tons..	3,838	3,673	3,282	5,808	5,779	5,362	4,633	4,761	4,608	37,163	49,502	41,904
Stocks, end of month—												
Total.....thous. of long tons..	30,515	34,938	38,366	28,697	33,831	38,125	27,209	31,754	35,808			
At furnaces.....thous. of long tons..	25,493	29,397	32,323	24,245	28,720	32,960	21,824	26,036	29,708			
On Lake Erie docks.....thous. of long tons..	5,022	5,541	6,043	4,452	5,111	5,165	5,385	5,718	6,100			
Pig-iron production:												
Total, United States.....thous. of long tons..	2,640	2,524	2,277	3,785	3,756	3,498	3,072	3,137	3,062	25,702	32,680	27,792
Merchant furnaces.....thous. of long tons..	564	513	407	746	690	635	607	575	585	5,163	6,671	5,612
Canada.....thous. of long tons..	65	57	48	100	113	99	95	92	91	622	830	746
Furnaces in blast, end of month:												
Furnaces.....number	144	139	123	216	210	205	185	183	197			
Capacity.....long tons per day..	83,645	80,620	73,525	121,965	119,130	116,405	98,445	98,730	106,755			
Malleable castings:												
Production.....short tons..	* 30,911	* 25,614	26,510	70,600	69,173	59,087	60,290	68,606	62,665	428,655	666,842	586,435
Operating activity.....per ct. of capacity..	* 30.9	* 26.2	26.2	73.5	70.6	61.2	63.1	72.1	66.3			
Shipments.....short tons..	* 32,656	* 31,845	28,874	69,618	69,824	62,671	60,084	66,962	61,736	436,798	665,241	574,010
New orders.....short tons..	* 30,068	* 25,409	25,753	61,358	62,541	52,647	60,964	66,128	61,163	397,272	641,094	572,264
Wholesale prices:												
Foundry No. 2, northern.....dolls. per long ton..	19.86	19.76	19.56	20.26	20.26	20.26	18.41	18.26	18.64			
Basic (valley furnace).....dolls. per long ton..	18.10	18.00	17.60	18.50	18.50	18.50	16.00	16.00	16.19			
Composite pig iron.....dolls. per long ton..	18.22	17.99	17.79	19.27	19.18	19.00	17.79	17.78	18.04			
Cast-Iron Boilers and Radiators												
Round boilers:												
Production.....thous. of lbs..	4,703	4,603	6,321	8,997	12,189	11,602	10,581	12,881	13,655	71,935	100,746	113,904
Shipments.....thous. of lbs..	7,266	8,736	12,162	13,553	15,092	18,263	12,302	14,422	17,021	64,012	99,853	110,298
New orders.....thous. of lbs..	6,975	7,392	11,894	14,490	13,916	16,936	12,551	14,504	14,504	59,820	92,910	112,527
Stocks, end of month.....thous. of lbs..	76,865	72,967	68,182	84,027	81,162	74,254	87,993	86,141	82,931			
Square boilers:												
Production.....thous. of lbs..	11,376	10,666	15,920	11,598	19,014	20,766	19,541	38,693	26,760	151,806	199,919	270,371
Shipments.....thous. of lbs..	18,269	24,178	31,595	22,927	28,757	34,671	28,247	36,212	41,989	141,989	174,656	221,533
New orders.....thous. of lbs..	17,496	22,271	32,259	26,039	27,242	36,481	32,164	31,809	30,527	142,413	177,654	229,584
Stocks, end of month.....thous. of lbs..	170,941	155,184	140,508	169,044	159,661	145,716	179,539	182,367	167,063			
Radiators:												
Production.....thous. sq. ft. heating surface..	4,997	5,366	4,643	6,756	10,365	9,545	11,388	15,914	13,770	63,409	99,372	129,993
Shipments.....thous. sq. ft. heating surface..	7,447	9,520	10,347	11,729	13,665	14,980	13,285	16,951	18,092	57,166	86,782	105,276
New orders.....thous. sq. ft. heating surface..	7,232	8,933	11,350	13,621	14,267	15,680	14,844	15,753	16,533	60,759	91,962	112,945
Stocks, end of month.....thous. sq. ft. heating surface..	62,662	57,560	51,964	69,277	65,792	59,794	78,279	77,267	72,902			
Gas-fired boilers:												
Shipments.....dollars..	185,484	430,365	396,788	315,696	486,659	549,424	266,627	288,954	395,265	2,239,547	2,575,156	1,908,511
Shipments.....thous. B. t. u..	160,347	364,861	334,266	254,856	365,280	459,124	224,098	239,048	322,000	1,877,375	2,005,352	1,547,525
Production.....thous. B. t. u..	283,750	268,664	286,748	248,993	235,877	306,158	125,000	168,547	163,376	2,213,263	2,277,781	1,440,404
Stocks, end of month.....thous. B. t. u..	1,031,838	948,557	939,650	1,115,865	951,598	885,625	852,822	778,337	622,687			
Crude Steel												
Steel ingots, production:												
United States, total.....thous. of long tons..	2,933	3,095	2,868	4,851	4,939	4,528	3,806	4,179	4,148	32,689	43,354	36,930
Ratio to capacity.....per cent..	56	59	55	95	93	92	81	82	88			
Canada.....thous. of long tons..	68	58	56	130	120	99	83	89	100	811	1,087	921

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
IRON AND STEEL—Continued												
Crude Steel—Continued												
U. S. Steel Corporation:												
Unfilled orders, end of month.....thous. of long tons..	4,022	3,580	3,424	4,088	3,658	3,903	3,571	3,624	3,698			
Earnings.....thous. of dolls..	13,480	13,000	11,515	24,303	24,687	21,184	16,134	18,597	17,418	134,673	202,275	140,016
Steel castings:												
Production—												
Total.....short tons..	79,181	64,449	62,017	118,100	121,238	106,995	78,648	87,742	75,761	843,707	1,017,828	769,416
Ratio to capacity.....per cent..	55	45	43	81	83	73	53	60	51	325,452	441,707	284,810
Railroad specialties.....short tons..	26,061	20,728	16,309	51,989	53,328	44,609	27,501	27,157	25,311	518,255	576,117	484,606
Miscellaneous.....short tons..	53,120	43,721	45,708	66,111	67,910	62,382	51,147	60,585	50,450			
New orders—												
Total.....short tons..	58,069	50,516	49,618	103,356	101,777	86,584	66,992	81,286	82,762	743,181	1,015,651	740,308
Ratio to capacity.....per cent..	40	35	34	71	70	59	45	55	56			
Railroad specialties.....short tons..	14,710	15,285	10,345	37,731	38,986	33,463	20,483	25,171	35,234	283,437	450,126	284,654
Miscellaneous.....short tons..	43,359	35,231	39,273	65,625	62,791	53,121	46,509	56,115	47,528	459,744	565,525	455,654
Sheets, black, blue, galvanized, and full finished:												
Production—												
Total.....net tons..	186,206	173,956	179,928	323,905	366,734	302,490	267,685	329,396	318,907	2,156,112	3,181,730	2,918,126
Ratio to capacity.....per cent..	50.4	48.6	48.8	98.1	109.7	97.7	82.2	92.8	101.0			
Stocks, end of month—												
Total.....net tons..	202,682	182,240	185,791	154,854	143,323	154,928	161,933	154,461	146,832			
Unsold.....net tons..	82,708	82,315	88,363	47,103	34,436	43,886	55,280	51,636	44,519			
Shipments.....net tons..	194,767	205,774	186,639	344,676	365,649	301,330	278,310	324,691	322,876	2,116,500	3,180,979	2,820,694
New orders.....net tons..	207,400	148,969	214,454	337,222	282,107	274,568	333,357	254,397	370,936	2,148,171	3,171,980	2,780,550
Unfilled orders, end of month.....net tons..	432,298	373,148	388,599	658,155	570,613	522,803	550,468	498,023	539,960			
Wholesale prices:												
Steel billets:												
Bessemer.....dolls. per long ton..	31.00	31.00	31.00	35.00	35.00	35.00	32.00	32.00	32.00			
Iron and steel comp.....dolls. per long ton..	33.25	33.01	32.67	36.72	36.57	36.50	34.91	34.93	35.17			
Structural steel beams.....dolls. per 100 lbs..	1.65	1.65	1.60	1.95	1.95	1.95	1.85	1.85	1.85			
Composite finished steel.....dolls. per 100 lbs..	2.29	2.26	2.24	2.56	2.55	2.54	2.48	2.48	2.50			
Fabricated Steel Products												
Steel barrels:												
Production.....barrels..	617,420	553,842	564,927	790,175	806,574	663,531	647,844	677,313	593,255	6,029,555	6,511,304	5,627,004
Ratio to capacity.....per cent..	44.0	39.6	40.3	64.2	65.2	55.4	55.5	57.8	50.2			
Shipments.....barrels..	621,091	552,265	565,204	782,411	809,860	653,890	645,881	675,000	595,640	6,022,577	6,491,428	5,624,451
Stocks, end of month.....barrels..	72,561	74,138	73,861	59,986	56,700	64,917	55,831	57,544	55,059			
Unfilled orders, end of month.....barrels..	1,295,854	1,114,080	1,011,211	1,372,697	1,205,659	1,071,150	1,232,412	1,064,358	996,820			
Track work, production.....short tons..	8,774	6,812	5,642	13,844	14,818	12,962	11,776	11,040	10,767	95,538	127,061	110,712
Iron, steel, and heavy hardware sales.....rel. to Jan., 1921..	162	161	165	223	240	229	187	215	207			
Lock washers, shipments.....thous. of dolls..	161	173	160	391	320	298	257	282	257	2,219	3,109	2,383
Steel plate, fabricated, new orders:												
Total.....short tons..	31,440	29,235	33,602	48,968	39,702	41,653	35,959	47,245	40,281	315,846	415,136	383,968
Ratio to capacity.....per cent..	10,850	9,388	14,106	14,963	11,150	15,189	16,881	24,807	18,572	82,757	117,362	171,270
Oil storage tanks.....short tons..	19,241	19,086	19,338	49,910	46,747	40,889	39,943	42,993	43,893	266,697	473,370	367,094
Steel boilers, new orders:												
Quantity.....number..	1,309	1,371	1,254	2,052	1,859	1,910	1,932	2,018	1,749	10,381	14,546	14,866
Area.....thous. of sq. ft..	1,410	1,357	1,282	2,075	1,782	1,957	1,738	1,691	1,453	11,321	15,557	13,417
Iron and steel:												
Exports.....long tons..	131,772	151,235	131,211	270,532	242,856	222,408	253,336	287,297	228,056	1,639,219	2,327,635	2,127,431
Imports.....long tons..	31,849	27,408	29,793	51,275	61,547	46,346	33,467	54,062	48,117	335,068	434,740	447,794
Machinery												
Shipments:												
Water softening apparatus.....units..	782	774	755	1,177	1,581	1,484	1,218	1,402	1,187	9,668	12,614	12,631
Water systems.....units..	10,189	9,663	8,611	12,268	14,200	12,600	10,935	11,248	10,200	86,236	99,184	88,600
Pumps:												
Domestic shipments—												
Pitcher, hand, etc.....units..	41,439	43,138	39,885	39,586	52,451	48,039	40,316	50,689	42,538	365,678	412,750	427,040
Power, horizontal type.....units..	2,535	2,476	1,975	2,768	2,902	2,262	2,254	2,531	2,017	21,026	22,628	19,541
Steam, power, and centrifugal—												
New orders.....thous. of dolls..	1,359	1,362	1,212	1,778	1,819	1,628	1,460	1,579	1,405	12,490	16,191	12,782
Shipments.....thous. of dolls..	1,333	1,367	1,183	1,849	1,978	1,774	1,553	1,520	1,369	12,954	15,609	12,643
Unfilled orders, end of mo.....thous. of dolls..	3,257	3,259	3,267	4,282	4,115	4,053	2,984	3,023	3,056			
Foundry equipment:												
New orders.....rel. to 1922-24..	90.6	85.2	91.0	219.3	229.5	216.3	94.8	278.0	170.0			
Shipments.....rel. to 1922-24..	116.1	82.6	66.0	182.1	150.8	176.8	124.8	154.1	129.7			
Unfilled orders, end of mo.....rel. to 1922-24..	139.1	140.2	170.8	368.7	441.1	480.8	332.1	467.2	529.5			
Stokers, mechanical, sales:												
Quantity.....number..	150	115	128	186	199	155	186	162	161	963	1,352	1,172
Power.....horsepower..	37,761	29,988	42,899	65,197	54,929	45,685	58,670	51,572	65,060	294,559	459,032	401,319
Machine tools:												
New orders.....rel. to 1922-24..	91	114	136	259	298	241	204	241	265			
Shipments.....rel. to 1922-24..	128	120	96	278	277	257	181	208	205			
Unfilled orders, end of mo.....rel. to 1922-24..	235	223	268	694	693	709	420	428	441			
Electric hoists:												
New orders—												
Quantity.....number..	217	238	212	504	437	423	394	402	447	2,859	4,891	3,843
Value.....dollars..	122,978	100,456	114,119	249,447	264,888	230,543	204,636	180,365	228,510	1,444,486	2,428,233	1,790,816
Shipments.....dollars..	147,503	121,698	104,856	290,141	339,881	281,439	177,404	193,248	172,986	1,628,557	2,338,978	1,633,428

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
IRON AND STEEL—Continued												
Machinery—Continued												
Electric overhead cranes:												
Shipments.....thous. of dolls.	1,005	729	942	1,146	1,060	1,048	463	564	464	8,146	8,426	4,996
New orders.....thous. of dolls.	601	522	614	1,157	1,165	701	733	821	713	6,045	11,338	5,539
Unfilled orders, end of mo.....thous. of dolls.	2,706	2,527	2,124	5,118	5,193	4,879	1,800	1,952	2,188			
Woodworking machinery:												
New orders.....thous. of dolls.	733	498	648	1,691	1,748	1,297	1,247	1,641	1,639	7,391	15,447	12,721
Cancellations.....thous. of dolls.	27	12	17	18	25	15	32	6	26	230	291	227
Unfilled orders, end of mo.....thous. of dolls.	593	470	588	2,369	2,130	1,829	1,838	2,058	2,265			
Shipments.....thous. of dolls.	821	606	516	1,767	1,974	1,555	1,264	1,436	1,413	7,796	15,306	11,695
Shipments.....number of machines.	624	694	488	1,232	1,386	1,129	932	1,170	1,050	5,729	10,636	8,910
Electric industrial trucks and tractors:												
Shipments, domestic—												
Total.....number of vehicles.	99	81	75	163	144	151	92	90	113	882	1,491	945
Exports.....number of vehicles.	9	11	6	5	10	7	15	6	5	120	92	102
Fire-extinguishing equipment, shipments:												
Motor vehicles.....number.	118	118	86	131	116	122	105	125	143	875	989	950
Hand types.....number.	43,911	35,926	37,482	62,266	63,806	51,197	48,897	47,490	42,198	419,724	490,601	424,639
Oil burners:												
Shipments, total.....number of burners.	7,241	* 8,088	12,025	6,520	10,663	13,723				52,151	54,716	
Stocks, end of mo.....number of burners.	10,171	* 8,993	7,606	7,739	8,403	7,900						
New orders.....number of burners.	6,790	* 8,062	11,413	6,854	11,081	12,633				52,589	57,874	
Unfilled orders, end of mo.....number of burners.	1,995	1,969	1,357	4,681	5,099	4,009						
Pulverized fuel equipment:												
New orders, central system—												
Water-tube boilers.....no. of pulverizers.	2											
Furnaces and kilns.....no. of pulverizers.	3	1	2									
New orders, unit system—												
Water-tube boilers.....no. of pulverizers.	12	4	24							213		
Fire-tube boilers.....no. of pulverizers.		3	6									
Marine boilers.....no. of pulverizers.			2									
Furnaces and kilns.....no. of pulverizers.	1	3	3							30		
Patents issued:												
Total, all classes.....number.	3,452	2,423	2,871	4,054	3,533	3,081	3,107	3,390	3,039	35,097	32,706	31,249
Agricultural implements.....number.	51	27	43	53	51	51	44	29	40	473	460	364
Internal-combustion engines.....number.	52	30	35	92	55	44	59	43	42	573	483	456
NONFERROUS METALS												
Copper												
Production:												
Mines.....short tons.	54,249	56,136	56,584	79,229	78,885	79,402	73,426	76,952	78,341	532,650	772,922	651,612
Smelter.....short tons.	67,638	66,698	68,487	94,690	91,735	92,538	83,875	88,517	85,795	661,750	897,214	752,851
Refined (N. and S. America).....short tons.	123,179	120,778	116,004	153,513	148,648	134,343	135,092	143,560	137,018	1,122,129	1,375,438	1,175,297
World production, blister.....short tons.	* 143,997	* 149,843	151,005	174,507	173,430	174,135	156,190	161,838	157,518	1,329,900	1,624,732	1,376,795
Domestic shipments, refined.....short tons.	75,436	56,810	65,169	98,720	96,970	98,043	82,245	83,398	88,707	600,534	886,551	698,378
Exports.....short tons.	32,421	33,141	30,478	33,876	36,811	42,978	47,855	41,186	36,191	265,251	383,472	421,213
Stocks (N. and S. America), end mo.: Refined.....short tons.	322,039	347,688	360,650	97,729	104,372	94,751	54,871	54,793	51,812			
Blister.....short tons.	242,212	234,135	237,135	239,470	241,678	253,519	241,131	238,923	239,142			
Wholesale price, electrolytic.....dolls. per lb.	.1102	.1069	.1031	.1778	.1778	.1778	.1453	.1453	.1472			
Tin												
Deliveries (consumption).....long tons.	6,130	5,695	7,250	6,865	7,185	8,120	5,545	7,200	6,885	56,880	70,260	58,090
Stocks, end of month:												
World visible supply.....long tons.	41,950	43,805	40,150	23,789	26,400	24,556	18,022	18,456	19,924			
United States.....long tons.	6,786	7,533	25,178	3,087	2,858	2,479	2,878	1,718	3,508			
Imports.....long tons.	5,259	5,979	5,523	5,521	9,737	7,712	4,772	6,584	8,222	61,720	72,118	58,451
Wholesale price, Straits, N. Y.....dolls. per lb.	.2981	.3002	.2964	.4640	.4665	.4538	.4710	.4808	.4807			
Zinc												
Retorts in operation, end of month.....number.	46,030	50,404	44,974	69,911	59,408	60,468	62,384	66,428	61,965			
Production.....short tons.	40,038	41,029	40,485	54,447	55,708	51,994	50,890	52,157	49,361	398,860	480,601	468,485
Stocks, end of month.....short tons.	117,381	122,635	132,947	45,336	49,064	53,856	42,210	44,416	47,915			
Ore, Joplin district:												
Shipments.....short tons.	24,974	37,994	32,122	48,995	63,127	45,084	43,227	43,466	41,429	341,314	481,938	427,663
Stocks, mines, end of month.....short tons.	28,729	38,565	41,663	39,813	42,876	43,832	31,679	39,303	48,474			
Price, slab, prime western.....dolls. per lb.	.0435	.0436	.0427	.0677	.0680	.0680	.0620	.0625	.0625			
Lead												
Ore shipments:												
Joplin district.....short tons.	2,570	3,673	2,746	5,373	7,808	7,461	6,623	6,125	9,326	35,608	77,527	68,693
Utah.....short tons.	45,194	60,978	52,907	66,063	92,668	75,927	56,395	78,811	65,353	580,749	727,761	622,997
Receipts in U. S. ore.....short tons.	44,433	45,542	48,354	54,865	54,365	54,623	49,305	53,575	51,978	439,251	495,016	473,114
Price, pig desilverized, N. Y.....dolls. per lb.	.0525	.0549	.0550	.0680	.0675	.0689	.0622	.0625	.0645			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
NONFERROUS METALS—Contd.												
Other Metal Products												
Babbitt metal, consumption:												
Total apparent.....thous. of lbs..	2,908	2,737	2,765	5,361	5,433	5,225	4,693	4,756	5,308	32,800	51,751	43,265
Direct by producers.....thous. of lbs..	886	954	1,035	1,313	1,435	1,337	900	939	999	8,905	11,199	9,036
Sale to consumers.....thous. of lbs..	2,022	1,783	1,730	4,048	3,997	3,888	3,793	3,817	4,309	23,895	40,552	34,228
Copper wire cloth:												
Production.....thous. of sq. ft..	373	387	384	438	498	373	367	430	403	3,663	4,155	3,912
Shipments.....thous. of sq. ft..	347	353	317	461	434	394	365	387	423	3,349	3,808	3,681
Stocks,												
end of month.....thous. of sq. ft..	1,118	1,117	1,173	1,049	978	928	1,124	1,120	1,099			
New orders.....thous. of sq. ft..	378	336	299	345	302	333	346	408	412	3,404	3,691	3,459
Unfilled orders,												
end of month.....thous. of sq. ft..	279	264	241	405	211	242	247	285	320			
Make and hold or-												
ders, end of mo.....thous. of sq. ft..	525	516	533	507	480	435	405	457	453			
Pails and tubs, galvanized:												
Production.....dozens..	91,879	103,050	103,177	105,454	107,004	113,698	114,343	127,797	150,845	1,033,253	1,280,167	1,397,097
Shipments.....dozens..	104,096	103,354	116,875	109,841	108,461	120,297	121,415	142,487	139,183	1,055,515	1,313,658	1,405,051
Other galvanized ware:												
Production.....dozens..	42,056	46,730	38,218	42,384	53,250	46,594	61,688	37,846	55,850	363,179	430,030	389,364
Shipments.....dozens..	33,874	43,827	46,310	44,117	54,860	52,970	47,856	44,377	50,606	343,771	411,284	369,246
Enameled sheet-metal ware:												
Shipments.....dozen pieces..	213,420	309,645	297,622	290,532	385,162	338,169	277,684	358,811	352,484	2,683,029	3,435,573	3,123,160
Electrical Equipment												
Electrical porcelain, shipments:												
Standard.....dollars..	68,483	69,656	65,581	139,240	97,631	135,487	106,503	111,803	112,210	719,097	1,042,583	718,634
Special.....dollars..	133,654	111,029	99,576	168,066	165,385	171,668	132,762	129,813	129,587	1,081,915	1,444,120	1,127,984
Glazed nail knobs.....thous. of pieces..	2,243	2,218	2,453	8,301	2,794	4,146	4,079	4,328	4,213	25,901	38,813	26,697
Unglazed nail												
knobs.....thous. of pieces..	1,120	1,605	1,222	2,426	1,968	2,250	2,065	2,401	2,796	14,486	21,887	14,663
Tubes.....thous. of pieces..	782	1,146	334	3,330	1,870	1,729	3,237	2,542	2,694	9,607	16,804	14,929
Laminated phenolic products,												
shipments.....dollars..	721,807	788,671	853,978	1,732,023	1,915,381	1,514,902	1,125,767	1,356,179	1,243,476	7,620,859	13,425,531	8,715,110
Motors (direct current):												
New orders.....dollars..	677,348	719,846	820,444	811,575	1,082,845	916,794	804,226	920,083	957,093	7,449,057	8,714,725	7,341,470
Billings (shipments).....dollars..	644,252	708,095	596,670	854,986	853,961	806,813	778,787	894,690	781,472	6,662,507	7,568,015	6,801,650
Power switching equipment, new												
orders:												
Indoor.....dollars..	136,559	121,930	118,431	208,495	169,384	181,078	124,345	148,156	118,301	1,319,163	1,585,064	1,282,158
Outdoor.....dollars..	451,051	319,668	298,354	520,058	605,273	400,343	380,416	413,435	281,502	3,636,623	4,203,071	3,483,317
Outlet boxes and covers,												
shipments.....pieces..	1,516,689	1,490,756	2,179,259	2,587,786	2,719,688	2,542,931	2,769,866	3,049,567	2,915,560	16,938,607	24,032,626	24,815,827
Vulcanized fiber:												
Shipments, total.....thous. of dolls..	450	430	447	878	1,029	883	561	591	568	4,957	7,597	5,639
Consumption.....thous. of lbs..	2,121	1,828	1,945	3,489	3,803	3,411	2,606	2,805	2,362	20,431	30,521	24,425
Industrial reflectors, sales.....units..	135,687	127,608	125,786	124,466	157,473	131,720	115,929	122,124	126,151	1,085,481	1,245,824	1,091,795
Power cables, shipments.....thous. of ft..	1,980	2,260	2,108	2,366	2,411	2,676	1,738	2,138	2,197	18,800	19,531	17,101
Welding sets, new orders:												
Single operator.....units..	207	221	194	282	296	341	294	228	234	2,172	3,025	2,024
Multiple operator.....units..	10	8	9	5	7	9	10	8	7	55	67	125
Nonmetallic conduits,												
shipments.....thous. of ft..	3,564	3,397	4,235	7,320	6,364	6,954	6,373	6,960	7,376	45,896	61,313	68,263
Electric furnaces, new												
orders.....kilowatts..	5,899	5,012	2,866	6,932	5,114	4,105	4,861	6,493	4,226	61,227	73,571	44,133
Manufactured mica:												
Shipments.....thous. of dolls..	156	122	141	254	274	263	265	283	247	1,649	2,547	
Unfilled orders, end of												
month.....thous. of dolls..	88	109	107	326	275	235	304	290	285			
Delinquent accounts, electrical trade:												
Amount.....dollars..	141,162	127,006	93,898	146,166	174,436	128,059	150,243	165,138	140,637			
Delinquent firms.....number..	1,106	1,155	939	1,027	1,176	1,117	1,176	1,367	1,220			
AUTOMOBILES												
Production:												
United States—												
Total.....number of cars..	262,364	223,045	222,931	500,840	498,628	415,912	392,086	461,298	415,314	2,927,891	4,640,823	3,470,219
Passenger cars.....number of cars..	222,459	187,037	180,547	424,944	440,780	363,471	337,151	398,253	357,428	2,485,049	3,992,492	3,052,121
Taxicabs.....number of cars..	241	251	409	1,054	1,040	865	409	469	276	5,422	13,592	4,318
Trucks.....number of cars..	39,664	35,760	41,975	74,842	56,808	51,576	54,526	62,576	57,610	437,420	634,739	413,780
Canada—												
Total.....number of cars..	10,188	9,792	7,957	17,461	14,214	13,817	25,226	31,245	21,193	138,622	233,853	202,652
Passenger cars.....number of cars..	8,556	6,946	5,623	13,600	11,037	10,710	20,122	24,274	16,572	114,484	186,960	168,837
Trucks.....number of cars..	1,632	2,846	2,334	3,861	3,177	3,107	5,104	6,971	4,621	24,138	46,893	33,815
Exports (assembled):												
From United States—												
Total.....number of cars..	11,870	13,274	13,437	55,545	42,829	33,919	51,670	49,007	30,559	200,539	456,724	384,574
Passenger cars.....number of cars..	7,828	7,956	8,125	29,082	22,123	20,934	38,880	32,815	22,494	130,817	293,782	288,493
Trucks.....number of cars..	4,042	5,318	5,312	26,463	20,706	12,985	2,790	16,192	8,065	69,722	162,942	96,081
From Canada—												
Total.....number of cars..	3,521	3,922	6,641	7,319	7,629	6,641	8,021	11,011	8,670	37,548	81,303	54,614
Passenger cars.....number of cars..	2,471	2,552	4,293	4,732	4,901	4,293	6,545	7,985	6,279	24,835	52,691	39,860
Trucks.....number of cars..	1,050	1,370	2,348	2,587	2,721	2,348	1,476	3,026	2,391	12,713	28,612	14,754
Sales (General Motors Co.):												
Total to dealers, incl. Canadian												
and overseas.....number of cars..	79,976	85,610	78,792	189,428	168,185	146,483	169,473	186,653	167,460	1,008,597	1,675,964	1,606,902
To consumers,												
U. S.....number of cars..	80,147	86,426	75,805	147,079	151,722	124,723				900,207	1,271,275	
To dealers, U. S.....number of cars..	70,716	76,140	69,901	157,111	147,351	127,220				896,329	1,361,066	
Accessories and parts, shipments:												
Original equip-												
ment.....rel. to Jan., 1925..	83	87	79	205	193	186	203	230	218			
Replacement												
parts.....rel. to Jan., 1925..	127	132	139	152	169	173	148	176	185			
Accessories.....rel. to Jan., 1925..	65	60	76	92	88	84	112	147	122			
Service parts.....rel. to Jan., 1925..	115	104	105	170	170	147	120	148	140			
Rim production.....thous. of rims..	1,449	1,504	1,052	1,897	1,570	2,110	2,210	2,319	2,316	15,009	19,779	19,815

* Revised

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
AUTOMOBILES—Continued												
New passenger-car registrations:												
Total.....number of cars..	254,098	203,737	175,286	432,503	376,886	* 304,452	324,120	329,674	271,821	2,286,720	3,269,198	2,482,021
Automobile financing:												
Wholesale, dealers.....thous. of dolls..	55,578	45,349	-----	61,839	69,959	-----	121,806	120,556	101,564	7 514,603	7 487,221	-----
Total, consumers.....thous. of dolls..	118,397	102,911	-----	180,780	163,763	138,507	121,806	120,556	101,564	7 924,076	7 183,715	7 818,112
New cars.....thous. of dolls..	73,419	63,325	-----	124,348	110,894	93,579	79,152	78,107	64,277	7 589,946	7 803,394	7 532,911
Used cars.....thous. of dolls..	42,454	37,208	-----	49,788	46,437	39,198	28,950	29,604	25,896	7 308,264	7 327,944	7 200,656
Unclassified.....thous. of dolls..	2,423	2,378	-----	6,643	6,432	5,730	13,703	12,844	11,391	7 25,865	7 52,377	7 84,545
FUELS												
Coal and Coke												
Bituminous:												
Production—												
United												
States.....thous. of short tons..	34,715	35,661	38,632	* 41,379	* 44,695	* 45,334	36,864	41,774	41,971	339,642	389,255	358,698
Canada.....thous. of short tons..	1,061	1,101	1,230	1,290	1,344	1,379	1,341	1,552	1,412	10,487	12,660	12,574
Exports.....thous. of long tons..	1,586	1,433	1,462	1,735	1,441	1,631	1,503	1,606	1,578	10,735	11,575	10,224
Consumption—												
By vessels.....thous. of long tons..	284	261	269	352	339	347	314	356	313	2,484	2,885	2,866
By electric-power plants.....thous. of short tons..	* 3,452	* 3,658	3,724	3,603	3,929	3,903	3,169	3,438	3,418	31,452	33,058	29,916
By railroads.....thous. of short tons..	6,228	6,408	-----	7,160	* 7,504	7,580	7,010	7,409	7,635	7 55,010	7 61,833	7 60,679
By coke plants—												
United												
States.....thous. of short tons..	5,824	5,559	5,214	7,588	7,571	7,153	6,046	6,194	6,180	55,646	65,668	55,986
Canada.....thous. of short tons..	248	244	233	317	315	310	279	269	270	2,480	2,768	2,339
Prices—												
Mine aver. (spot).....dolls. per short ton..	1.71	1.68	1.75	1.70	1.77	1.83	1.71	1.74	1.81	-----	-----	-----
Wholesale, comp.....dolls. per short ton..	3.891	3.892	3.897	3.906	3.913	3.930	3.984	4.009	4.019	-----	-----	-----
Retail, composite.....dolls. per short ton..	8.65	8.70	8.79	8.62	8.69	8.87	8.69	8.74	8.84	-----	-----	-----
Anthracite:												
Production.....thous. of short tons..	5,658	6,190	5,293	* 4,810	5,735	6,543	4,394	6,759	5,927	50,933	52,605	53,512
Exports.....thous. of long tons..	129	205	198	203	222	323	167	278	263	1,667	2,066	2,009
Prices—												
Wholesale, comp.....dolls. per long ton..	12.366	12.578	12.707	12.754	12.848	12.924	12.965	12.853	13.040	-----	-----	-----
Retail, composite.....dolls. per short ton..	14.53	14.57	14.80	14.63	14.67	14.87	14.63	14.76	14.93	-----	-----	-----
Coke:												
Production, U. S.—												
Beehive.....thous. of short tons..	215	170	168	646	604	543	280	297	322	2,239	5,150	3,227
By-product.....thous. of short tons..	3,770	3,637	3,401	4,608	4,637	4,408	3,920	4,004	3,967	35,868	40,316	35,615
Production, Canada.....thous. of short tons..	182	182	170	225	227	220	200	191	194	1,803	1,995	1,680
Exports.....thous. of long tons..	93	64	66	84	86	98	79	70	78	676	770	662
Price, furnace, Connells-ville.....dolls. per short ton..	2.52	2.55	2.60	2.80	2.76	2.70	2.79	2.88	2.88	-----	-----	-----
Petroleum												
Crude petroleum:												
Production.....thous. of bbls..	76,743	74,853	70,977	* 91,309	* 92,165	* 87,453	75,584	77,807	76,474	687,701	759,218	666,097
Stocks at end of month—												
Total (comparable).....thous. of bbls..	378,264	375,140	370,625	* 383,166	* 386,214	* 386,365	369,474	368,707	366,720	-----	-----	-----
Tank farms and pipe lines.....thous. of bbls..	331,124	328,355	324,644	* 334,533	* 339,050	* 340,844	326,399	326,290	326,123	-----	-----	-----
Refineries.....thous. of bbls..	47,140	46,785	45,981	* 48,633	* 47,164	* 45,521	43,075	42,417	40,597	-----	-----	-----
California—												
Light.....thous. of bbls..	41,071	40,671	40,582	* 34,583	* 37,853	* 40,627	18,215	18,310	16,870	-----	-----	-----
Heavy.....thous. of bbls..	104,550	103,701	103,647	* 105,687	* 108,445	* 110,132	95,663	95,057	96,563	-----	-----	-----
Imports.....thous. of bbls..	5,877	5,059	5,808	6,122	5,800	6,953	7,878	6,141	7,139	47,874	62,727	59,349
Consumption (run to stills).....thous. of bbls..	78,644	79,289	75,950	85,919	86,733	84,099	80,602	81,581	79,894	711,541	737,594	676,963
Refinery operations.....per ct. of capacity..	69	70	69	81	81	80	82	83	84	-----	-----	-----
Price, Kansas-Oklahoma.....dolls. per bbl..	1.178	1.178	1.178	1.300	1.300	1.300	1.195	1.210	1.210	-----	-----	-----
Oil wells completed.....number..	1,051	992	782	1,423	1,609	1,438	1,093	1,233	1,185	9,525	11,443	9,063
Mexico—												
Production.....thous. of bbls..	3,437	3,449	-----	3,905	4,091	3,986	4,040	4,047	3,716	7 27,324	7 28,955	7 35,052
Exports.....thous. of bbls..	2,508	2,630	-----	2,483	2,511	2,586	3,249	2,212	2,244	7 18,049	7 18,300	7 24,640
Venezuela—												
Production.....thous. of bbls..	11,624	11,378	11,311	10,793	11,394	11,338	9,398	9,031	9,478	101,653	101,556	74,018
Gasoline:												
Production—												
Raw (at refineries).....thous. of bbls..	38,061	37,844	36,944	* 38,198	* 38,968	* 37,605	32,959	33,937	33,670	336,166	323,713	275,631
Natural gas (at plants).....thous. of bbls..	4,231	4,212	4,079	4,417	4,507	4,574	3,436	3,438	3,488	38,970	38,498	30,897
Exports.....thous. of bbls..	5,497	6,375	3,826	5,975	5,509	4,244	4,686	4,452	4,648	49,014	44,074	39,503
Consumption.....thous. of bbls..	38,352	37,433	37,823	* 37,383	* 37,981	* 34,680	32,527	33,173	29,766	303,825	283,906	245,276
Stocks, end of month—												
Raw (at refineries).....thous. of bbls..	46,077	41,624	38,254	* 37,800	* 33,795	* 33,181	30,394	27,075	26,378	-----	-----	-----
Natural gas (plants).....thous. of bbls..	741	744	534	1,156	893	661	476	414	436	-----	-----	-----
Retail distribution, 41 States.....thous. of gals..	-----	-----	-----	1,092,910	1,158,378	1,039,475	954,697	983,898	919,055	-----	8,243,015	7,312,979
Prices—												
Wholesale, New York.....dolls. per gal..	.163	.163	.148	.190	.188	.166	.173	.180	.180	-----	-----	-----
Retail, wagon, 50 cities.....dolls. per gal..	.148	.147	.146	.158	.157	.160	.156	.160	.163	-----	-----	-----

* Revised.

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FUELS—Continued												
Petroleum—Continued												
Kerosene:												
Production.....thous. of bbls..	3,929	3,975	3,846	4,374	4,908	4,600	4,894	5,339	4,960	38,167	41,206	44,505
Exports.....thous. of bbls..	1,021	1,687	1,349	1,281	2,034	1,101	1,826	1,653	2,068	13,050	14,601	16,787
Consumption.....thous. of bbls..	2,933	2,573	2,768	2,743	3,034	3,320	3,042	3,246	3,164	26,338	27,012	28,802
Stocks at refineries, end mo.....thous. of bbls..	8,319	8,030	7,771	8,551	8,394	8,569	8,470	8,887	8,593			
Price, 150° water white.....dolls. per gal..	.052	.050	.053	.069	.068	.070	.068	.072	.086			
Gas and fuel oils:												
Production.....thous. of bbls..	31,023	29,862	29,923	37,890	39,189	37,546	36,934	37,517	37,104	284,606	337,416	316,844
Consumption—												
By vessels.....thous. of bbls..	4,316	4,702	4,333	4,593	4,734	4,424	4,116	4,564	4,053	38,648	39,528	38,245
By electric pow. plants.....thous. of bbls..	712	749	837	794	820	1,079	554	614	612	6,546	7,098	5,061
By railroads.....thous. of bbls..	3,924	3,817		4,477	4,322	4,375	4,071	4,087	4,363	32,529	34,650	32,145
Stocks at refineries, end mo.....thous. of bbls..	39,027	39,729	41,480	40,075	39,316	40,646	36,410	39,236	39,900			
Price, Okla. 24-26, refineries.....dolls. per bbl..	.625	.600	.580	.695	.744	.775	.670	.650	.650			
Lubricating oil:												
Production.....thous. of bbls..	3,018	2,971	2,723	2,936	3,143	2,852	2,828	2,891	2,833	26,737	26,154	25,939
Consumption.....thous. of bbls..	1,887	1,940	1,944	2,197	2,268	2,053	1,932	2,035	1,995	15,988	18,655	17,353
Stocks at refineries, end mo.....thous. of bbls..	9,953	10,161	10,257	7,524	7,478	7,589	7,667	7,711	7,742			
Price, cylinder oil.....dolls. per gal..	.210	.193	.190	.388	.238	.369	.226	.229	.236			
Asphalt:												
Production.....thous. of short tons..	334	346	306	386	379	365	331	316	306	2,515	2,679	2,564
Stocks, end of month.....thous. of short tons..	311	316	270	243	247	231	251	247	203			
Imports.....thous. of short tons..	6	3	5	3	20	13	12	14	5	40	85	84
Coke:												
Production.....thous. of short tons..	161	172	170	158	169	161	127	136	119	1,434	1,323	1,037
Stocks end of month.....thous. of short tons..	942	994	1,045	630	672	711	385	402	402			
Wax:												
Production.....thous. of lbs..	45,640	39,760	43,960	46,171	53,377	44,513	45,273	54,429	50,428	437,640	473,818	464,248
Stocks, end of mo.....thous. of lbs..	254,999	254,990	248,940	194,896	194,649	187,319	84,476	79,622	85,417			
RUBBER												
Crude Rubber												
World shipments, plantation.....long tons..	60,596	73,509		71,562	70,532	77,997	52,831	58,345	48,338	546,208	568,508	577,506
Imports (including latex).....long tons..	35,424	36,657	35,783	44,338	37,851	34,814	31,258	31,204	39,838	373,044	438,229	312,441
Consumption by tire mfrs.thous. of lbs..	39,365	40,736	33,352	52,249	45,459	39,981	47,128	62,224	55,351	388,869	499,306	451,698
World stocks, end of month:												
World total.....long tons..	394,687	400,640		255,183	261,721	277,151	201,464	193,896	188,355			
United States.....long tons..	158,445	162,283	171,285	95,472	92,686	90,729	75,917	61,813	58,725			
Europe.....long tons..	111,751	112,642	120,804	37,168	45,016	54,417	39,269	35,755	35,243			
Producing countries.....long tons..	40,362	42,910		39,131	36,802	37,753	21,578	21,828	17,687			
Afloat.....long tons..	84,129	82,805		83,412	87,217	94,252	64,700	74,500	76,700			
Wholesale price, smoked sheets, New York.....dolls. per pound..	.115	.099	.084	.213	.206	.202	.192	.193	.182			
Tires and Tubes												
Pneumatic tires:												
Production.....thousands..	3,193	3,332	2,692	4,856	4,354	3,568	4,881	5,607	5,101	33,532	46,143	44,284
Stocks, end of month.....thousands..	9,449	8,678	7,849	11,872	10,669	9,656	8,396	7,539	7,324			
Shipments—												
Domestic.....thousands..	4,229	3,976	3,300	5,723	5,667	4,330	5,811	6,131	5,191	33,546	44,710	42,945
Export.....thousands..	129	164	165	168	217	168	121	179	168	1,612	1,826	1,380
Inner tubes:												
Production.....thousands..	3,151	3,837	3,053	4,634	4,385	4,152	5,009	6,264	5,327	34,182	45,441	46,892
Stocks, end of month.....thousands..	9,326	8,589	8,052	12,249	10,618	10,068	11,248	10,466	10,158			
Shipments—												
Domestic.....thousands..	4,594	4,492	3,523	5,993	6,028	4,562	6,469	6,886	5,245	35,204	46,039	45,352
Export.....thousands..	90	118	108	91	109	125	83	132	121	1,007	1,176	996
Solid and cushion:												
Production.....thousands..	13	16	14	39	32	28	46	52	43	160	316	399
Stocks, end of month.....thousands..	101	90	82	129	118	111	152	149	151			
Shipments—												
Domestic.....thousands..	19	22	22	39	40	34	45	49	42	188	330	373
Export.....thousands..	1	1	1	2	3	2	4	5	2	14	22	34
Other Rubber Products												
Rubber-proofed fabrics, production:												
Total.....thous. of yds..	2,940	3,458	6,481	4,260	5,085	5,507	3,447	4,613	4,966	34,176	37,929	29,034
Auto fabrics.....thous. of yds..	608	678	733	1,188	1,349	1,120	763	764	780	8,055	9,067	7,214
All other.....thous. of yds..	917	975	1,064	1,208	1,317	1,324	733	1,251	1,007	9,462	11,455	7,628
Raincoat fabrics.....thous. of yds..	1,415	1,805	4,684	1,864	2,419	3,063	1,951	2,598	3,179	16,659	17,407	14,192
Rubber heels:												
Production.....thous. of pairs..	15,117	13,735	14,322	19,315	23,095	21,702	17,620	21,289	21,451	137,415	177,096	178,741
Shipments—												
To shoe manufacturers.....thous. of pairs..	11,668	8,813	9,244	13,785	14,942	13,645	12,070	11,642	9,207	84,929	110,075	91,292
To repair trade.....thous. of pairs..	5,053	6,622	6,681	6,337	8,025	7,859	7,372	9,244	9,199	52,210	66,058	71,044
For export.....thous. of pairs..	938	780	1,033	794	1,098	1,054	457	729	875	8,536	9,708	7,717
Stocks, end of month.....thous. of pairs..	36,220	33,226	31,601	44,243	43,960	42,958	49,679	49,511	49,751			
Rubber soles:												
Production.....thous. of pairs..	2,663	1,473	2,193	1,295	2,948	2,841	3,168	3,461	2,725	22,011	24,594	20,928
Shipments—												
To shoe manufacturers.....thous. of pairs..	2,627	1,161	1,691	1,372	2,548	2,185	1,897	2,209	1,703	18,779	19,631	17,187
To repair trade.....thous. of pairs..	364	317	333	163	517	618	808	917	893	3,325	5,399	8,342
For export.....thous. of pairs..	34	74	74	70	78	47	55	46	29	516	481	1,918
Stocks, end of month.....thous. of pairs..	2,876	2,289	2,729	2,895	3,319	3,316	5,067	5,633	5,501			

* Revised.

† Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
RUBBER—Continued												
Other Rubber Products—Continued												
Mechanical rubber goods:												
Shipments—												
Total.....thous. of dolls..	4,910	4,552	4,083	3,606	6,792	5,906	5,157	6,306	5,393	47,541	59,200	52,795
Belting.....thous. of dolls..	1,364	1,248	1,045	1,645	1,940	1,490	1,396	1,888	1,412	11,324	14,418	13,090
Hose.....thous. of dolls..	1,856	1,682	1,473	2,355	2,196	1,964	1,795	2,068	1,731	19,230	21,928	19,772
All other.....thous. of dolls..	1,690	1,622	1,565	2,305	2,656	2,452	1,966	2,360	2,250	16,985	22,855	19,952
Rubber bands, shipments.....thous. of lbs..	174	164	172	192	196	189	173	193	186	1,799	1,947	1,719
Rubber flooring, shipments.....thous. of sq. ft..	507	559	529	566	598	630	477	583	754	4,936	5,101	5,260
Calendered rubber clothing:												
Production.....no. coats and sundries..	38,582	44,952	37,097	89,871	96,281	93,444	59,685	74,509	92,588	538,973	744,720	912,339
Net orders.....no. coats and sundries..	28,767	26,348	39,364	60,921	37,906	49,940	37,512	64,695	108,156	484,928	523,363	633,456
HIDES AND LEATHER												
Hides												
Imports:												
Total hides and skins.....thous. of lbs..	27,960	26,681	27,598	49,910	47,956	51,903	50,175	47,056	34,448	339,819	374,087	414,820
Calfskins.....thous. of lbs..	1,295	1,403	2,835	5,636	4,900	3,178	4,134	4,053	2,707	25,252	34,769	34,041
Cattle hides.....thous. of lbs..	11,504	11,389	12,743	24,259	28,137	29,132	28,193	26,540	18,504	160,673	183,067	204,377
Goatskins.....thous. of lbs..	7,455	8,075	6,807	9,361	7,692	8,893	7,873	7,951	6,728	74,936	77,526	70,462
Sheepskins.....thous. of lbs..	6,219	4,460	3,289	6,849	4,405	7,336	6,171	6,773	4,902	40,223	51,858	50,847
Stocks, end of month:												
Total hides and skins.....thous. of lbs..	279,114	276,225	279,472	248,549	253,415	253,680	239,877	243,591	249,272	-----	-----	-----
Cattle hides.....thous. of lbs..	217,302	212,980	218,446	194,453	202,564	203,304	194,668	197,086	203,227	-----	-----	-----
Calf and kip skins.....thous. of lbs..	27,725	27,166	25,536	30,951	28,141	27,071	25,551	25,758	24,059	-----	-----	-----
Sheep and lamb skins.....thous. of lbs..	34,087	36,079	35,490	23,145	22,710	23,305	19,658	20,747	21,986	-----	-----	-----
Prices:												
Green salted, packers' heavy native steers.....dolls. per lb..	.141	.136	.146	.181	.188	.196	.239	.236	.246	-----	-----	-----
Calfskins, tountry, No. 1.....dolls. per lb..	.165	.161	.165	.199	.198	.204	.278	.275	.275	-----	-----	-----
Inspected slaughter of livestock:												
United States—												
Cattle.....thous. of animals..	710	700	760	706	726	753	662	717	764	6,038	6,096	6,237
Calves.....thous. of animals..	375	363	374	363	388	365	362	369	352	3,435	3,436	3,556
Swine.....thous. of animals..	3,187	2,724	2,773	3,597	3,130	3,104	2,984	2,545	2,508	32,103	35,007	35,773
Sheep.....thous. of animals..	1,411	1,413	1,591	1,255	1,298	1,317	1,076	1,196	1,307	12,237	10,408	7,836
Canada—												
Cattle and calves.....thous. of animals..	81	75	84	105	99	98	100	105	96	728	812	827
Swine.....thous. of animals..	127	124	140	159	160	142	164	140	161	1,429	1,689	1,877
Sheep.....thous. of animals..	56	79	114	55	77	93	45	62	86	410	363	312
Leather												
Sole and belting leather:												
Production—												
Sole only.....thous. of backs, bends, sides..	1,365	1,316	1,330	1,176	1,300	1,178	1,436	1,463	1,324	11,883	10,753	12,213
Sole and belting.....thous. of lbs..	23,894	23,223	23,137	24,161	25,561	23,460	25,070	25,701	23,510	216,552	211,294	220,902
Stocks, end of month—												
In process of tanning.....thous. of lbs..	76,863	80,018	80,895	80,641	80,587	81,574	90,949	89,508	85,990	-----	-----	-----
Finished.....thous. of lbs..	85,953	84,367	81,569	68,538	66,276	61,974	69,557	72,439	72,243	-----	-----	-----
Exports.....thous. of sq. ft..	640	374	673	832	782	539	531	996	733	5,421	8,259	7,491
Price, oak, scoured backs.....dolls. per lb..	.46	.46	.44	.51	.52	.54	.67	.67	.65	-----	-----	-----
Upper leather:												
Production.....thous. of sq. ft..	62,016	61,477	63,304	71,323	82,954	70,054	66,464	73,150	66,380	571,580	615,071	612,814
Stocks, end of month—												
In process of tanning.....thous. of sq. ft..	150,287	143,063	141,495	141,207	147,678	147,478	147,443	147,602	146,010	-----	-----	-----
Finished.....thous. of sq. ft..	259,561	254,020	255,787	230,871	216,406	209,520	254,563	253,854	247,386	-----	-----	-----
Exports.....thous. of lbs..	7,287	8,367	8,813	9,267	7,736	8,264	8,403	9,000	9,093	80,855	87,137	103,087
Price, chrome calf black "B" grade composite price, 6 centers.....dolls. per sq. ft..	.371	.371	.371	.393	.393	.393	-----	-----	-----	-----	-----	-----
Leather Products												
Shoes:												
Production.....thous. of pairs..	24,121	* 28,429	28,919	30,223	36,445	34,831	28,151	34,974	31,000	239,943	274,013	262,607
Exports.....thous. of pairs..	256	263	256	320	291	321	344	331	275	2,282	3,219	3,233
Wholesale prices—												
Men's black calf blucher, Boston.....dolls. per pair..	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	-----	-----	-----
Men's dress welt, tan calf oxford, St. Louis.....dolls. per pair..	4.85	4.85	4.85	4.85	4.85	4.85	5.00	5.00	5.00	-----	-----	-----
Women's black kid, dress welt lace oxford.....dolls. per pair..	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	-----	-----	-----
Gloves, cut.....dozen pairs..	209,873	241,146	219,548	255,711	292,545	285,094	202,051	237,043	213,945	2,209,601	2,319,920	1,912,163
PAPER AND PRINTING												
Wood Pulp												
Groundwood:												
Production.....short tons..	104,997	97,895	92,375	122,946	111,878	102,202	112,403	114,668	108,166	1,200,397	1,231,941	1,193,456
Consumption and shipments.....short tons..	122,709	116,886	109,649	136,695	145,432	133,514	125,465	138,309	122,771	1,154,444	1,250,164	1,219,753
Stocks, end of month.....short tons..	143,054	124,063	106,789	171,535	137,982	106,669	171,098	147,611	133,006	-----	-----	-----
Imports.....short tons..	17,186	21,261	29,502	81,724	24,731	20,666	14,553	17,239	21,953	219,406	189,034	180,197
Sulphite, unbleached:												
Production.....short tons..	18,860	* 19,608	18,888	20,726	20,116	19,734	17,568	20,904	20,034	183,902	179,866	182,578
Consumption and shipments.....short tons..	18,530	* 19,122	18,938	20,368	20,090	19,314	16,968	20,882	19,736	182,572	180,558	181,510
Stocks, end of month.....short tons..	5,306	* 5,792	5,742	2,764	2,600	3,020	* 4,220	* 4,242	4,540	-----	-----	-----
Imports.....short tons..	57,317	60,198	52,426	83,101	70,654	61,534	88,891	57,913	57,847	551,647	580,222	506,949

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
PAPER AND PRINTING—Con.												
Wood Pulp—Continued												
Sulphite, bleached:												
Production.....short tons..	42,136	* 48,340	49,296	49,030	53,028	49,512	46,270	50,880	45,408	463,900	465,066	444,588
Consumption and shipments.....short tons..	42,986	* 48,094	48,684	48,764	53,634	48,928	46,278	49,854	46,018	461,026	464,886	444,074
Stocks, end of month.....short tons..	8,250	* 8,596	9,208	5,780	5,174	5,758	5,574	6,600	5,990	270,496	279,163	249,276
Imports.....short tons..	28,255	26,880	30,567	31,151	33,485	26,338	27,126	30,650	28,511			
Total sulphite:												
Production.....short tons..	123,718	* 131,382	129,198	143,250	153,250	142,530	133,768	151,776	135,950	1,275,280	1,337,504	1,301,120
Consumption and shipments.....short tons..	124,326	* 131,454	128,810	143,790	152,912	144,272	135,688	151,806	137,346	1,270,216	1,343,466	1,304,280
Stocks, end of month.....short tons..	29,250	* 29,178	29,566	22,538	22,876	21,134	29,700	29,670	28,274			
Sulphate:												
Production.....short tons..	40,562	44,374	42,378	40,754	44,056	40,752	32,316	34,740	32,830	387,468	381,562	306,152
Consumption and shipments.....short tons..	38,754	41,970	38,990	40,172	43,184	41,586	33,418	35,088	33,896	369,949	383,944	309,376
Stocks, end of month.....short tons..	9,088	8,498	8,966	6,642	7,884	7,568	6,476	6,430	5,870			
Soda:												
Production.....short tons..	30,326	29,962	30,052	37,384	40,300	35,584	34,420	35,488	32,720	311,596	341,450	314,962
Consumption and shipments.....short tons..	28,984	28,868	28,638	36,722	39,108	33,984	34,676	34,018	32,964	292,142	331,402	313,54
Stocks, end of month.....short tons..	5,420	5,166	5,248	6,722	6,506	6,890	6,734	8,336	8,144			
Other grades:												
Production.....short tons..	160	188	128	58	156	116	150	112	146	1,324	764	964
Consumption and shipments.....short tons..	160	174	150	38	106	-----	166	96	170	1,352	606	1,072
Stocks, end of month.....short tons..	24	38	16	38	88	204	230	246	222			
Total (all grades):												
Production.....short tons..	194,766	* 205,906	201,756	221,446	237,762	218,982	200,654	222,116	201,646	1,975,668	2,061,280	1,923,194
Consumption and shipments.....short tons..	192,224	* 202,466	196,588	220,722	235,310	219,842	203,948	221,008	204,376	1,933,658	2,059,072	1,928,272
Stocks, end of month.....short tons..	43,782	* 42,880	43,796	35,940	37,354	35,796	43,140	44,682	42,510			
Newsprint Paper												
Production:												
United States, total.....short tons..	102,840	101,601	95,261	111,587	120,868	108,155	109,861	116,120	102,821	986,733	1,038,243	1,047,602
Ratio to capacity.....per cent..	73	72	70	77	80	80	82	77	74			
Canada.....short tons..	216,978	202,043	195,490	229,045	225,873	227,665	187,434	200,480	186,896	1,896,818	1,992,604	1,732,563
Consumption by publishers.....short tons..	201,036	200,005	217,262	173,375	172,239	193,045	152,763	162,184	169,625	1,831,991	1,674,983	1,482,445
Shipments:												
United States.....short tons..	103,018	99,236	96,048	112,616	118,789	107,495	109,849	114,768	107,834	973,895	1,048,487	1,031,630
Canada.....short tons..	209,511	197,870	193,835	227,502	224,254	226,623	185,069	197,224	197,532	1,863,298	1,895,172	1,728,423
Imports.....short tons..	193,595	169,280	175,996	210,497	209,901	196,123	174,667	173,872	164,648	1,731,591	1,748,438	1,545,425
Exports, Canada.....short tons..	199,060	170,107	194,820	199,692	217,638	201,250	167,456	179,334	170,840	1,731,591	1,828,881	1,583,010
Stocks, end of month:												
At mills:												
United States.....short tons..	29,284	30,691	30,879	23,603	25,656	26,490	40,386	40,838	35,687			
Canada.....short tons..	52,862	59,007	62,495	28,993	29,785	30,742	48,270	52,108	48,800			
At publishers.....short tons..	221,368	227,443	215,685	191,647	205,532	190,331	199,214	209,044	191,287			
In transit to publishers.....short tons..	32,422	38,885	41,970	44,781	44,076	52,535	44,266	39,744	48,229			
Box Board												
Operation:												
Inch-hours.....thousands..	7,893	8,030	7,134	9,228	9,806	8,745	8,335	9,564	8,645	74,245	83,781	78,114
Capacity.....per cent..	66.9	68.1	62.9	75.7	77.5	77.7	71.4	75.4	77.1			
Production.....short tons..	222,788	224,391	226,724	244,318	265,063	242,032	206,246	237,776	231,324	2,068,118	2,261,811	2,042,375
New orders.....short tons..	230,884	222,372	227,252	244,510	269,951	249,553	211,152	241,228	242,028	2,070,844	2,245,618	2,055,710
Unfilled orders, end of month.....short tons..	66,400	64,050	62,576	76,091	80,634	85,866	82,325	84,726	89,907			
Consumption of waste paper.....short tons..	207,596	215,879	221,534	214,574	256,339	231,029	194,261	218,429	223,009	1,989,290	2,132,115	1,896,548
Shipments.....short tons..	223,427	224,141	228,387	242,696	267,039	245,957	209,412	238,885	236,004	2,063,424	2,256,279	1,801,181
Stocks, end of month.....short tons..	70,601	71,900	69,589	62,779	61,268	59,364	51,044	50,150	47,788			
Stocks of waste paper, end of month:												
On hand.....short tons..	175,645	187,508	165,226	170,745	171,218	175,279	137,068	121,529	120,857			
In transit and unshipped purchases.....tons..	43,393	36,108	46,380	62,967	59,480	87,700	62,066	48,118	53,354			
Other Paper												
Book paper:												
Production.....short tons..	* 105,017	* 105,017	102,602	130,768	138,614	135,842	117,492	130,416	117,374	1,072,140	1,201,686	1,126,079
Ratio to capacity.....per cent..	78	78	81	91	93	103	80	89	86			
Shipments.....short tons..	* 107,012	* 106,907	100,345	130,245	136,951	135,434	118,314	133,024	120,895	1,040,908	1,207,530	1,118,919
Stocks, end of month.....short tons..	* 118,362	* 115,995	118,315	74,998	77,248	78,020	88,491	85,836	82,403			
New orders—												
Coated...p. ct. of normal production.....	71	70	62	82	85	87	77	77	81			
Uncoated...p. ct. of normal production.....	78	79	76	81	77	86	80	79	80			
Unfilled orders, end of month—												
Coated...p. ct. of normal production.....	7	7	8	10	9	10	10	8	10			
Uncoated...p. ct. of normal production.....	6	6	6	9	8	8	8	7	7			
Wrapping paper:												
Production.....short tons..	73,915	77,476	74,704	84,093	91,849	83,356	88,477	100,779	33,582	725,698	812,509	844,042
Ratio to capacity.....per cent..	77	81	81	79	83	84	86	89	86			
Shipments.....short tons..	79,976	74,687	77,916	85,775	90,655	83,939	94,228	100,174	86,173	734,992	814,067	836,914
Stocks, end of month.....short tons..	73,149	75,949	72,732	86,233	87,104	86,518	92,467	93,340	91,977			
Fine paper:												
Production.....short tons..	33,290	31,616	31,608	37,624	38,943	36,166	33,984	39,331	34,885	333,154	352,090	346,357
Ratio to capacity.....per cent..	70	67	67	85	84	88	80	84	80			
Shipments.....short tons..	32,657	30,826	29,996	36,608	39,644	34,936	34,562	38,938	34,885	319,975	335,212	342,977
Stocks, end of month.....short tons..	64,730	65,524	67,136	47,583	46,840	48,058	53,156	53,535	53,361			
All other grades:												
Production.....short tons..	78,272	81,660	84,954	100,503	105,055	97,715	95,469	110,677	100,138	811,133	930,707	920,041
Shipments.....short tons..	82,814	83,735	85,708	101,783	104,638	97,209	96,056	109,154	102,437	810,150	820,820	914,718
Stocks, end of month.....short tons..	66,367	65,186	64,432	57,592	58,009	58,515	70,578	72,438	70,140			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
PAPER AND PRINTING—Contd.												
Other Paper—Continued												
Total paper (inc. newsprint and box board):												
Production.....short tons..	616,122	621,761	615,853	751,102	760,392	703,266	651,529	735,099	670,124	5,996,971	6,585,047	6,326,396
Ratio to capacity.....per cent..	71	72	74	83	86	89	77	83	81			
Shipments.....short tons..	628,904	619,532	618,400	709,723	757,761	704,970	674,352	734,943	688,228	5,943,414	6,604,531	6,297,145
Stocks, end of month.....short tons..	422,493	425,245	423,083	352,788	356,125	343,843	396,122	396,137	381,356			
Paper-Board Shipping Boxes												
Operating activity:												
Total.....per cent of normal..	72	70	73	80	89	89	72	79	79			
Corrugated.....per cent of normal..	73	72	76	82	91	91	71	77	78			
Solid fiber.....per cent of normal..	68	63	65	82	82	82	75	84	80			
Production:												
Total.....thous. of sq. ft..	461,148	473,354	506,628	481,762	550,170	544,276	424,551	464,255	455,931	4,360,736	4,521,384	3,836,809
Corrugated.....thous. of sq. ft..	374,709	388,030	415,623	384,885	448,920	434,351	335,732	364,756	359,553	3,520,583	3,582,890	2,955,185
Solid fiber.....thous. of sq. ft..	86,439	85,324	90,955	96,877	101,250	109,925	88,819	99,499	96,378	822,442	938,494	881,624
Rope paper sacks, shipments.....rel. to 1921-22..	85	78	88	85	101	95	89	111	102			
Printing												
Sales books:												
New orders.....thous. of books..	10,903	11,026	11,652	11,476	12,839	12,977	12,098	12,538	11,837	106,722	112,030	110,993
Shipments.....thous. of books..	10,572	11,918	12,363	13,737	13,631	12,226	9,986	13,738	11,976	106,353	102,934	107,801
Book publication:												
American manufacture.....no. of titles..	418	657	643	501	819	739	555	551	835	5,178	6,176	5,996
Imported.....no. of titles..	74	155	150	131	177	57	128	169	261	1,583	1,197	1,335
Blank forms, new orders.....thous. of sets..	59,152	55,779	60,812	57,225	54,054	56,428	48,963	58,108	50,114	555,272	529,741	420,429
Printing activity.....relative to 1924..	89	85		103	103	107	96	97	105			
BUILDING CONSTRUCTION AND HOUSING												
Building Costs												
Building materials:												
Frame house, 6-rm. 1st of mo.....rel. to 1913..	173	169	168	177	177	176	175	177	177			
Brick house, 6-rm. 1st of mo.....rel. to 1913..	177	175	174	182	182	182	181	181	181			
Bldg. costs, 1st of mo.....rel. to 1913..	201.0	201.0	199.6	204.8	205.9	207.6	206.7	207.3	207.3			
Bldg. costs (A. G. C.), 1st of mo.....rel. to 1913..	199	198	198	202	203	201	198	200	201			
Construction costs (Am. Appraisal):												
Frame.....rel. to 1913..	197	194	191	204	204	205	204	204	204			
Brick, steel frame.....rel. to 1913..	193	190	188	197	197	197	198	198	198			
Brick, wood frame.....rel. to 1913..	211	208	206	214	214	214	213	213	213			
Reinforced concrete.....rel. to 1913..	197	195	193	200	201	201	201	201	201			
Building and Engineering Construction, 37 States												
Total construction, all types:												
Projects.....number..	12,535	11,622	11,495	16,601	16,053	14,262	17,653	17,947	15,653	106,596	139,311	156,051
Floor space.....thous. of sq. ft..	44,604	39,933	41,193	75,464	66,720	59,872	82,125	78,873	76,348	408,945	630,900	741,898
Valuation.....thous. of dolls..	367,528	347,318	331,864	652,436	488,882	444,402	583,433	516,970	581,674	3,684,723	4,601,268	5,126,944
Commercial buildings:												
Projects.....number..	1,925	1,919	1,841	2,173	2,187	2,067	1,991	2,035	1,788	17,928	18,797	18,104
Floor space.....thous. of sq. ft..	7,332	7,915	8,721	14,420	14,322	13,514	17,609	12,553	11,878	82,899	129,424	119,744
Valuation.....thous. of dolls..	46,941	50,860	31,137	91,348	71,955	76,921	95,697	58,911	60,068	538,556	729,794	682,198
Industrial buildings:												
Projects.....number..	453	483	410	549	579	543	438	506	514	4,149	5,068	4,468
Floor space.....thous. of sq. ft..	5,300	3,699	5,732	9,651	10,425	7,748	6,289	8,748	10,580	46,084	78,872	72,134
Valuation.....thous. of dolls..	35,167	20,695	31,722	66,604	75,265	52,640	31,400	42,607	114,780	419,988	588,582	496,218
Educational buildings:												
Projects.....number..	823	548	380	728	603	376	686	611	396	4,089	3,776	4,027
Floor space.....thous. of sq. ft..	6,514	4,141	4,150	6,944	5,428	5,075	5,905	5,762	6,019	46,680	47,815	49,333
Valuation.....thous. of dolls..	42,748	25,897	28,233	47,979	32,349	29,826	36,926	35,713	38,801	293,441	299,471	312,311
Hospital and institutional buildings:												
Projects.....number..	127	120	136	135	117	106	100	117	112	972	889	854
Floor space.....thous. of sq. ft..	1,927	1,782	1,753	2,036	1,964	2,401	1,697	1,659	2,354	16,700	13,710	14,250
Valuation.....thous. of dolls..	13,073	14,090	16,547	15,697	14,382	17,898	12,759	11,913	23,845	138,940	106,487	113,308
Public buildings:												
Projects.....number..	156	137	137	133	152	124	121	143	132	1,119	1,071	1,052
Floor space.....thous. of sq. ft..	2,650	2,031	1,300	685	948	2,225	993	945	1,354	13,492	10,105	8,664
Valuations.....thous. of dolls..	13,947	12,547	11,661	8,550	8,293	15,575	6,902	6,294	5,189	100,478	93,917	57,105
Religious and memorial buildings:												
Projects.....number..	220	206	189	263	225	179	272	256	209	1,669	1,794	2,023
Floor space.....thous. of sq. ft..	873	852	860	1,567	1,431	837	1,879	1,572	1,128	9,256	10,142	12,891
Valuation.....thous. of dolls..	8,030	6,879	6,576	11,969	10,058	6,249	15,347	12,283	9,092	77,710	83,696	105,907
Social and recreational buildings:												
Projects.....number..	270	220	222	248	254	190	240	236	185	2,029	2,029	2,127
Floor space.....thous. of sq. ft..	1,059	1,462	804	1,924	1,832	1,780	2,632	2,573	1,594	11,679	14,726	20,837
Valuation.....thous. of dolls..	8,423	9,478	6,040	15,816	11,204	10,683	18,624	16,654	14,078	90,446	109,812	174,007
Residential buildings, all types:												
Projects.....number..	6,297	5,979	6,097	10,051	9,727	8,687	11,569	11,868	10,489	58,183	90,577	108,096
Floor space.....thous. of sq. ft..	18,231	16,843	19,688	37,759	29,544	25,551	44,671	44,575	40,726	174,154	319,690	439,439
Valuation.....thous. of dolls..	84,333	82,670	98,535	199,925	146,088	117,381	228,703	213,705	190,807	844,952	1,550,465	2,170,076
Public works and utilities:												
Projects.....number..	2,264	2,010	2,083	2,323	2,209	1,990	2,236	2,175	1,828	16,458	15,335	15,300
Floor space.....thous. of sq. ft..	718	1,208	1,185	478	825	740	451	486	715	8,005	6,414	4,786
Valuation.....thous. of dolls..	114,866	124,202	101,413	194,547	119,288	117,229	137,075	118,890	119,014	1,180,220	1,039,043	1,015,812
Contracts awarded, Canada.....thous. of dolls..	37,374	40,409	32,407	57,941	58,622	46,959	38,360	39,449	45,439	350,816	441,644	479,505
Building volume (A. G. C.).....rel. to 1913..	199	206	199	218	239	259	237	239	266			
Fire losses:												
United States.....thous. of dolls..	34,848	36,044	35,230	31,986	30,447	29,249	17,106	17,724	17,183	348,421	321,775	227,062
Canada (Monetary Times).....thous. of dolls..	2,560	5,877	2,507	5,027	3,776	2,040	1,491	2,356	1,739	31,777	26,640	19,176

* Revised

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BUILDING MATERIALS												
Softwood Lumber												
Douglas fir:												
Production (computed) M ft. b. m.	190,250	206,813	199,651	302,162	353,642	315,592	415,417	358,566	296,343	2,291,509	2,981,336	3,988,096
Shipments (computed) M ft. b. m.	231,434	218,452	200,546	319,621	333,498	293,209	484,803	389,454	315,144	2,276,289	3,037,292	4,237,944
New orders (computed) M ft. b. m.	213,080	222,929	217,557	306,639	327,678	293,209	453,467	381,396	322,754	2,264,204	3,088,322	4,377,996
Unfilled orders, end of month M ft. b. m.	172,344	134,742	176,373	328,574	245,311	299,924	456,601	257,845	293,657	—	—	—
Exports, lumber M ft. b. m.	61,813	42,129	48,097	98,179	72,811	64,085	54,181	59,236	64,265	498,583	699,007	581,810
Exports, timber M ft. b. m.	22,369	25,850	16,114	43,932	48,303	38,493	45,471	40,837	44,264	296,197	419,036	427,357
Price, No. 1 common, dollars, per M ft. b. m.	14.47	13.44	13.14	18.77	18.57	18.36	16.99	17.75	17.32	—	—	—
Price, flooring, 1x4, "B" and better, V. G. dollars, per M ft. b. m.	36.57	35.65	34.58	42.73	42.96	42.79	36.13	37.19	38.85	—	—	—
California redwood:												
Production (computed) M ft. b. m.	28,335	28,835	28,337	28,435	44,923	35,291	30,092	41,137	34,329	298,108	340,036	355,577
Shipments (computed) M ft. b. m.	31,305	25,044	27,505	28,672	48,648	37,363	29,615	43,983	33,107	276,543	345,498	344,870
New orders (computed) M ft. b. m.	30,574	25,293	27,155	35,657	44,930	34,086	31,620	39,855	33,519	277,074	361,610	350,486
Unfilled orders, end of month (computed) M ft. b. m.	26,254	26,573	26,150	47,235	44,590	41,837	48,910	45,093	47,916	—	—	—
Northern pine:												
Lumber:												
Production M ft. b. m.	37,849	27,583	22,925	50,733	49,846	41,882	52,384	57,335	51,618	241,514	359,918	395,986
Shipments M ft. b. m.	22,101	21,516	17,791	44,825	43,764	37,054	48,300	47,755	44,618	218,009	367,052	374,491
New orders M ft. b. m.	19,962	19,503	17,697	40,012	42,485	30,291	41,820	41,435	44,209	195,942	336,280	354,411
Lath:												
Production, thousands	5,214	3,968	3,229	8,822	8,442	6,268	13,476	12,318	12,419	26,569	58,689	84,254
Shipments, thousands	4,473	4,833	6,047	10,083	9,258	6,509	9,734	11,099	8,897	38,348	73,194	76,626
North Carolina pine:												
Production (computed) M ft. b. m.	26,803	27,349	—	47,831	48,993	48,132	44,471	45,437	37,457	297,514	458,437	740,865
Shipments (computed) M ft. b. m.	30,730	33,481	—	50,946	48,230	45,605	48,433	48,643	39,900	293,328	448,105	742,039
Northern hemlock:												
Production M ft. b. m.	13,245	8,223	6,876	15,359	14,908	17,079	16,348	20,449	15,315	91,075	137,028	150,323
Shipments M ft. b. m.	8,033	8,007	6,751	18,614	16,020	12,859	18,920	22,661	19,951	70,421	123,316	150,698
Hardwood Lumber												
Walnut lumber:												
Production M ft. b. m.	1,312	1,174	1,121	3,839	4,608	4,649	2,527	2,931	2,749	16,697	34,667	26,394
Shipments M ft. b. m.	1,123	1,511	1,861	3,570	3,607	3,289	2,742	2,863	3,299	15,678	32,515	26,429
Stocks, end of month M ft. b. m.	20,454	20,090	19,334	12,640	14,303	15,347	13,116	13,166	12,625	—	—	—
New orders M ft. b. m.	1,031	1,698	1,735	3,627	3,266	3,398	2,731	2,990	2,635	14,815	33,187	25,996
Unfilled orders, end of month M ft. b. m.	4,016	4,025	4,085	6,474	6,892	7,000	5,088	5,270	4,741	—	—	—
Walnut logs:												
Purchased M ft. log measure	598	886	1,171	2,951	3,667	3,367	2,633	2,736	2,274	11,693	26,849	22,107
Made into lumber and veneer M ft. log measure	943	1,029	1,109	3,217	3,358	3,724	2,527	2,579	2,643	13,925	26,547	22,703
Stocks, end of month M ft. log measure	885	745	805	2,773	2,441	2,148	2,985	3,096	2,684	—	—	—
Northern hardwoods:												
Production M ft. b. m.	14,363	9,225	4,371	24,961	22,459	17,195	23,673	20,073	16,624	167,657	281,754	284,384
Shipments M ft. b. m.	12,649	11,167	11,862	24,413	27,469	24,275	26,194	27,597	25,086	139,108	243,387	244,742
Gum:												
Stocks, total, end of month mill. ft. b. m.	609	610	601	465	469	482	542	543	529	—	—	—
Stock, unsold, end of month mill. ft. b. m.	488	497	494	318	325	328	419	410	396	—	—	—
Unfilled orders, end of month mill. ft. b. m.	120	113	107	147	144	154	124	132	133	—	—	—
Oak:												
Stocks, total, end of month mill. ft. b. m.	1,044	1,036	1,016	955	982	1,004	974	959	954	—	—	—
Stocks, unsold, end of month mill. ft. b. m.	929	927	918	785	802	808	809	800	775	—	—	—
Unfilled orders, end of month mill. ft. b. m.	115	109	98	169	181	195	165	159	161	—	—	—
All hardwoods:												
Production mill. ft. b. m.	172	165	161	311	314	334	244	263	270	1,983	2,836	2,368
Shipments mill. ft. b. m.	150	154	180	278	296	311	263	285	293	1,730	2,746	2,420
New orders mill. ft. b. m.	128	139	176	278	300	323	262	289	293	1,626	2,799	2,495
Stocks, total, end of month mill. ft. b. m.	3,323	3,308	3,261	2,731	2,772	2,848	2,786	2,771	2,731	—	—	—
Stocks, unsold, end of month mill. ft. b. m.	2,795	2,808	2,787	2,088	2,122	2,239	2,225	2,211	2,164	—	—	—
Unfilled orders, end of month mill. ft. b. m.	528	500	475	643	645	678	547	557	566	—	—	—
Flooring												
Maple flooring:												
Production M ft. b. m.	3,755	3,724	3,591	6,456	6,918	7,334	7,784	8,413	7,675	43,991	59,091	68,608
Shipments M ft. b. m.	5,175	4,762	3,700	7,883	8,435	7,239	8,311	9,515	7,929	41,388	61,716	72,567
Stocks, end of month M ft. b. m.	28,786	26,909	26,275	21,913	20,480	20,827	24,667	23,232	22,554	—	—	—
New orders M ft. b. m.	3,881	3,805	3,256	6,159	6,927	4,750	7,466	8,851	7,110	35,727	57,530	70,611
Unfilled orders, end of month M ft. b. m.	4,388	3,613	3,036	10,431	8,881	7,641	10,076	10,187	10,106	—	—	—
Fabricated Structural Steel												
New orders (prorated) short tons	284,000	264,000	168,000	331,100	342,650	296,450	296,450	354,200	319,550	2,280,000	2,768,150	2,541,000
Ratio to capacity per cent.	71	66	42	86	89	77	77	92	83	—	—	—
Shipments (prorated) short tons	292,000	280,000	260,000	281,050	315,700	292,600	265,650	284,900	273,350	2,524,000	2,498,650	2,233,000
Ratio to capacity per cent.	73	70	65	73	82	76	69	74	71	—	—	—

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BUILDING MATERIALS—Contd.												
Portland Cement												
Production.....thous. of bbls.	17,080	17,821	16,124	17,315	18,585	17,223	17,474	18,759	17,884	126,919	128,199	131,178
Operation.....per ct. of capacity	77.8	81.0	75.7	80.4	86.1	81.8	97.0	93.1	91.7			
Shipments.....thous. of bbls.	20,147	20,299	18,083	20,319	23,052	19,950	19,901	21,970	20,460	128,666	133,569	136,284
Stocks, end of month.....thous. of bbls.	26,298	23,824	21,864	24,525	20,056	17,325	22,580	19,374	16,799			
Stocks, clinker, end of month.....thous. of bbls.	15,069	15,237	14,587	11,619	8,995	7,009	11,707	9,357	7,566			
Wholesale prices, composite.....dolls. per bbl.	1.600	1.600	1.600	1.650	1.604	1.500	1.683	1.683	1.650			
Common brick:												
Stocks, end of month—												
Burned.....thousands.	341,993	350,940	—	290,044	290,265	217,451	408,563	491,088	498,691			
Unburned.....thousands.	197,069	222,710	—	95,756	110,904	224,530	208,202	206,938	257,692			
Shipments.....thousands.	82,429	105,493	—	118,834	130,982	93,677	238,941	218,339	167,078	740,135	71,077,096	71,625,111
Unfilled orders, end of month.....thousands.	95,101	149,034	—	148,289	109,564	110,215	299,457	221,625	213,274			
Plants closed down.....number	67	62	—	17	56	26	11	14	21	7680	7354	7377
Price, red, New York.....dolls. per thous.	10.00	9.500	9.500	10.13	10.13	10.50	13.50	13.50	12.50			
Sand-lime brick:												
Production.....thousands.	10,415	9,636	—	16,061	16,838	14,121	18,072	21,680	17,267	71,697	7109,014	7131,915
Shipments by rail.....thousands.	3,102	2,921	—	4,263	4,684	3,960	6,055	8,284	6,767	23,825	732,950	744,996
Shipments by truck.....thousands.	6,781	6,437	—	12,266	11,615	10,951	11,772	13,215	11,281	45,462	785,971	789,454
Stocks, end of month.....thousands.	14,328	15,496	—	8,854	9,714	9,326	12,561	14,446	15,304			
Unfilled orders, end of month.....thousands.	9,797	7,762	—	14,739	9,925	13,286	11,762	14,503	14,455			
Face brick:												
Production.....thousands.	738	854	730	1,194	1,258	1,000	1,139	1,247	1,099	6,071	10,063	6,463
Shipments.....thousands.	865	779	794	1,237	1,244	1,011	1,213	1,283	1,153	6,833	9,699	6,610
Stocks, end of month.....thousands.	3,625	3,717	3,677	4,161	4,142	4,050	3,189	3,172	2,974			
Unfilled orders, end of month.....thousands.	1,144	1,059	1,067	1,503	1,480	1,295	1,675	1,658	1,506			
Floor and wall tile:												
Production.....thous. of sq. ft.	3,690	3,839	—	6,244	6,376	5,572	6,452	6,841	6,621	29,506	749,204	745,177
Shipments, quantity.....thous. of sq. ft.	4,385	4,854	—	6,459	6,797	5,423	6,595	7,403	6,755	31,417	746,136	745,823
Shipments, value.....thous. of dolls.	1,576	1,663	—	2,505	2,684	2,158	2,529	2,847	2,572	11,663	717,798	717,423
Stocks, end of month.....thous. of sq. ft.	16,562	16,749	—	18,301	17,919	18,281	12,837	12,343	12,253			
Terra cotta, new orders:												
Quantity.....net tons.	7,829	5,594	5,718	11,756	8,606	7,784	14,191	12,058	10,570	61,563	96,493	113,707
Value.....thous. of dolls.	741	520	465	1,183	940	817	1,385	1,123	1,005	5,976	10,535	10,780
Plate glass:												
Production, polished.....thous. of sq. ft.	8,326	5,523	7,979	13,057	14,722	14,011	9,966	12,159	10,897	85,195	102,709	97,283
Roofing												
Roofing, felt:												
Production, dry felt.....tons.	17,488	18,285	25,631	28,188	26,665	23,997	25,810	25,574	24,343	188,755	242,667	225,591
Stocks, end of month, dry felt.....tons.	6,232	5,500	5,005	2,846	3,974	4,465	2,798	3,356	3,427			
Prepared roofing, shipments:												
Total.....thous. of sqs.	2,151	2,544	3,506	3,324	2,903	3,011	2,895	3,071	3,187	22,005	32,191	28,943
Smooth roll.....thous. of sqs.	803	1,021	1,438	1,338	1,077	1,231	1,195	1,257	1,394	9,461	14,284	12,418
Grit roll.....thous. of sqs.	612	655	872	983	829	826	830	853	841	5,612	8,112	7,925
Shingles—												
Strip, patented, and hexagon.....thous. of sqs.	597	692	1,001	801	813	781	718	784	785	5,727	8,173	7,114
Individual and single thickness.....thous. of sqs.	139	176	196	202	184	173	152	176	167	1,206	1,623	1,485
BUILDING EQUIPMENT												
Enamel Ware												
Baths:												
Shipments.....pieces	53,259	51,836	47,970	99,705	101,050	77,374	111,067	103,878	86,342	471,938	774,394	895,97
Stocks, end of month.....pieces	173,860	165,687	162,302	162,694	152,349	152,107	113,430	122,167	134,749			
New orders.....pieces	48,706	48,450	41,799	119,670	116,532	58,574	101,603	96,876	76,074	464,338	806,166	993,702
Unfilled orders, end of month.....pieces	39,497	36,110	29,939	61,118	74,973	55,984	101,560	68,263	53,303			
Lavatories:												
Shipments.....pieces	63,895	59,130	62,369	108,077	125,920	96,210	120,600	114,070	94,383	589,278	897,219	1,015,145
Stocks, end of month.....pieces	187,979	187,150	185,515	223,657	192,213	177,442	164,830	161,276	168,211			
New orders.....pieces	56,875	55,083	54,369	140,109	146,983	72,088	104,262	102,140	89,126	585,638	946,058	1,127,717
Sinks:												
Shipments.....pieces	64,459	62,454	63,044	114,051	120,018	103,097	122,593	116,497	101,777	602,456	927,616	1,042,491
Stocks, end of month.....pieces	257,039	254,426	243,845	273,463	254,210	233,532	213,539	216,338	216,255			
New orders.....pieces	61,766	55,843	57,606	138,064	142,536	83,672	116,236	96,830	99,749	594,479	981,567	1,148,750
Miscellaneous sanitary ware:												
Shipments.....pieces	25,987	26,958	31,455	44,762	48,554	37,205	48,550	54,003	44,910	264,112	360,065	433,412
Stocks, end of month.....pieces	104,102	101,920	100,585	133,265	126,626	119,359	110,330	95,958	103,509			
New orders.....pieces	23,537	23,478	23,449	54,131	53,402	28,924	41,665	41,692	44,707	261,630	370,865	452,034
Small ware (all except baths):												
Unfilled orders, end of month.....pieces	113,899	104,569	84,246	214,996	259,787	207,826	274,135	174,072	155,483			
Vitreous china plumbing fixtures:												
New orders.....pieces	142,024	142,254	140,852	244,351	242,596	195,931	184,783	217,305	180,758	1,457,367	2,255,820	2,104,139
Shipments.....pieces	156,650	166,156	155,330	271,411	268,619	237,788	245,363	267,610	215,284	1,638,216	2,301,171	2,407,755
Unfilled orders, end of month.....pieces	299,269	275,367	260,919	411,655	385,632	343,775	403,339	353,034	318,508			
Stocks, end of month.....pieces	654,535	615,931	586,915	582,314	559,418	566,776	460,360	477,593	510,864			
Porcelain plumbing fixtures:												
Net new orders.....pieces	7,480	8,232	6,815	13,153	12,168	9,524	12,976	12,960	9,939	70,337	106,326	209,853
Shipments.....pieces	7,448	7,214	7,564	11,845	13,873	9,569	20,253	22,970	16,525	57,110	98,624	148,788
Unfilled orders, end of month.....pieces	34,171	33,493	31,973	30,088	26,911	26,115	81,699	65,029	54,583			
Stocks, end of month.....pieces	34,259	32,696	29,367	37,947	40,343	39,708	48,621	47,690	50,953			

* Revised.

† Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BUILDING EQUIPMENT—Contd.												
Illuminated Glassware												
Production:												
Total.....number of turns..	1,785	2,083	1,961	1,818	2,719	3,225	1,748	2,985	3,190	21,954	28,450	26,657
Ratio to capacity.....per ct. of capacity..	28.8	33.6	31.7	18.7	36.4	45.2	22.3	36.5	43.0			
New orders.....per ct. of capacity..	28.8	29.9	33.7	40.1	42.9	46.8	40.2	44.5	44.2			
Shipments.....per ct. of capacity..	28.0	30.4	33.0	35.3	43.8	49.6	26.8	42.5	43.0			
Unfilled orders, end of month.....number of weeks' supply..	.8	.7	.8	1.5	1.4	1.4	1.6	1.8	1.7			
Stocks, end of month.....number of weeks' supply..	4.5	4.6	4.6	5.4	4.7	4.6	4.6	4.3	4.3			
Furniture												
Household furniture and case goods:												
Shipments.....dolls., av. per firm..	45,686	56,456		53,748	70,482	75,319	43,462	65,947	65,010	380,470	745,605	738,925
Unfilled orders, dolls., av. per firm..	35,903	33,432		64,573	77,508	84,138	59,214	57,288	58,576			
Grand Rapids district:												
Unfilled orders, end of mo.....No. days' production..	27	24	26	68	64	58	54	53	49			
New orders.....No. days' production..	18	18	29	36	30	37	31	30	31			
Shipments.....No. days' production..	13	18	27	24	30	32	22	31	30			
Outstanding accounts, end of month.....No. days' sales..	37	40	52	46	53	58	48	56	65			
Cancellations.....per ct. new orders..	7.0	6.0	5.0	5.0	5.0	6.0	5.0	7.0	9.0			
Plant operation.....per ct. full time..	67.0	79.0	89.0	90.0	97.0	101.0	88.0	92.0	101.0			
Steel furniture:												
Business group—												
Shipments.....thous. of dolls..	\$ 1,812	\$ 1,985	1,879	2,659	2,483	2,314	2,515	2,565	2,754	20,781	25,702	25,913
New orders.....thous. of dolls..	\$ 1,841	\$ 1,788	1,795	2,590	2,418	2,294	2,594	2,619	2,689	20,148	25,710	26,494
Unfilled orders, end mo.....thous. of dolls..	\$ 1,528	1,331	1,248	2,241	2,171	2,054	2,072	2,118	2,062			
Shelving—												
Shipments.....thous. of dolls..	\$ 604	\$ 554	496	867	890	843	723	836	678	6,095	8,627	6,636
New orders.....thous. of dolls..	\$ 596	\$ 524	509	939	931	880	713	863	800	6,173	9,090	6,938
Unfilled orders, end mo.....thous. of dolls..	\$ 736	704	717	999	1,041	1,079	706	734	754			
PLYWOOD AND VENEER												
Rotary-cut veneer:												
Receipts.....No. of carloads..	118	100	147	272	174	223	181	259	244	1,315	1,823	1,454
Purchases.....No. of carloads..	116	106	139	260	122	287	249	325	199	1,227	2,141	1,851
Bushel baskets:												
Production.....dozens..	298,282	203,492	220,986	232,860	264,212	190,939	229,342	243,056	177,982	1,899,533	1,817,606	1,819,706
Shipments.....dozens..	309,135	227,120	364,993	232,154	360,050	314,904	294,662	262,810	285,813	1,798,920	1,744,713	1,891,623
Stocks, end of month.....dozens..	637,419	513,488	371,481	674,339	584,410	461,717	565,911	570,726	409,110			
GLASS CONTAINERS												
Actual production:												
Quantity.....gross..	2,406	2,439	2,202	2,396	2,715	2,246	2,374	2,686	2,322	21,564	22,322	21,942
Relation to capacity.....per cent..	71.5	72.5	68.1	73.3	77.5	74.5	77.2	80.9	78.7			
New orders.....gross..	1,980	2,636	2,585	2,224	1,922	2,942	2,008	1,909	2,122	23,820	22,551	21,047
Shipments.....gross..	2,368	2,459	2,623	2,507	2,656	2,700	2,311	2,654	2,433	21,811	22,849	21,887
Unfilled orders, end of month.....gross..	10,152	10,024	9,404	8,824	8,079	8,072	9,166	8,467	8,084			
Stock, end of month.....gross..	6,799	6,768	6,412	6,388	6,447	5,994	6,267	6,297	6,173			
CHEMICALS AND OILS												
Chemicals												
Sulphuric acid:												
Exports.....pounds..	570,683	176,023	465,766	506,758	641,492	516,264	773,624	291,035	581,760	4,019,364	5,040,588	5,604,363
Price, wholesale.....dolls. per 100 lbs..	.78	.78	.78	.78	.78	.78	.78	.78	.78			
Nitrate of soda:												
Imports.....long tons..	28,644	9,083	19,362	40,501	51,684	31,539	28,150	75,318	36,644	469,701	767,021	853,558
Production in Chile.....metric tons..	199,284	202,466	181,467	272,300	270,300	253,200	264,300	275,000	259,400	1,967,632	2,406,300	2,301,700
Potash salts:												
Imports (commercial).....long tons..	50,965	48,183	45,857	37,126	45,505	40,088	38,461	57,327	43,313	321,088	253,938	282,410
Sales in Germany (K ₂ O content).....metric tons..	93,859	98,722	127,660	89,190	95,372	123,465	102,608	108,696	140,818	1,140,358	1,138,023	1,155,100
Superphosphate (acid phosphate):												
Production.....short tons..	308,241	295,790	282,710	296,629	309,749	* 253,181	294,121	304,857	251,190	2,963,964	2,607,113	2,797,864
Stocks, end of month.....short tons..	1,309,260	* 1,526,934	1,468,411	1,171,912	1,362,679	* 1,283,706	1,237,006	1,380,278	1,347,735	1,670,020	1,627,966	1,656,322
Shipments.....short tons..	73,134	64,756	149,899	65,162	88,230	* 163,242	64,378	87,688	149,002			
Fertilizer:												
Exports.....long tons..	143,620	115,580	118,761	123,515	112,346	155,103	98,803	103,575	* 99,611	1,244,426	1,149,079	964,380
Consumption, Southern States.....short tons..	18,468	38,256	128,302	20,047	* 46,930	174,347	19,101	62,823	131,120	5,213,934	5,148,146	5,201,831
Crude arsenic:												
Production.....short tons..	1,428	1,217	2,077	1,444	887	1,027	1,385	2,086	1,079	14,596	12,785	12,410
Stocks, end of month.....short tons..	3,495	3,254	4,026	1,998	1,876	1,777	2,105	2,999	2,978			
Refined arsenic:												
Production.....short tons..	1,032	1,002	1,101	812	857	868	728	803	799	8,677	7,827	6,627
Stocks, end of month.....short tons..	1,897	1,525	1,930	3,305	3,414	3,180	1,568	1,618	1,971			
Dyes and dyestuffs, exports:												
Vegetable.....thous. of lbs..	110	124	204	126	191	422	254	237	157	1,534	1,802	2,381
Coal tar.....thous. of lbs..	1,153	1,757	866	3,180	13	39	* 3,841	* 1,351	1,330	19,790	11,636	18,226
Price index numbers:												
Crude drugs.....rel. to Aug., 1914..	147	143	139	183	179	180	197	193	193			
Essential oils.....rel. to Aug., 1914..	107	97	91	191	188	168	162	161	158			
Drugs and pharmaceuticals.....rel. to Aug., 1914..	176	176	176	173	177	177	168	164	164			
Chemicals.....rel. to 1927..	95	94		100	100	100	99	99	99			
Oils and fats.....rel. to 1927..	88	87		92	96	100	95	94	95			

* Revised.

† Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
CHEMICALS AND OILS—Contd.												
Wood Chemicals												
Acetate of lime:												
Production—												
United States.....thous. of lbs..	3,992	4,660	4,955	10,658	11,025	10,154	9,570	9,486	8,605	70,495	104,339	96,990
Canada.....thous. of lbs..				720	715	421	443		446	7 6,137	77,398	7 6,163
Shipments—												
United States.....thous. of lbs..	3,781	3,503	4,325	11,072	10,862	10,162	13,532	12,840	13,355	47,436	103,546	110,145
Canada.....thous. of lbs..	99	48		716	821	349	882	2,098	348	7 2,966	77,455	7 8,013
Stocks, end of month—												
United States.....thous. of lbs..	6 29,449	6 30,733	31,362	1,206	1,259	1,241	11,411	7,950	3,134			
Canada.....thous. of lbs..	3,852	3,804		179	73	147	2,333	140	183			
Exports.....thous. of lbs..		23		120			1,792	1,141	449	23	208	11,093
Price, wholesale.....dolls. per cwt.	3.11	3.00	3.00	4.50	4.50	4.50	3.50	3.88	4.00			
Methanol, crude:												
Production—												
United States.....gallons..	230,162	272,823	289,765	633,731	656,414	598,548	544,693	535,803	495,555	4,322,547	6,166,367	5,420,803
Canada.....gallons..				28,688	25,950	17,581	14,885		18,816	7 265,591	7 308,021	7 247,169
Stocks at crude plants, end of mo.												
United States.....gallons..	617,183	576,563	612,735	252,749	244,185	256,356	327,028	287,492	229,683			
Canada.....gallons..	3,337	3,337		21,863	20,092	17,061	38,485	37,933	13,665			
Stocks at refineries and in transit—												
United States.....gallons..	615,811	541,380	617,571	475,698	526,172	514,572	277,077	160,156	164,972			
Canada.....gallons..	44,859	23,584		78,120	63,702	65,505	66,518	64,817	67,314			
Exports.....gallons..	61,240	157,037	82,168	95,755	33,849	49,948	54,535	14,000	32,540	724,694	407,507	443,354
Wood at chemical plants:												
Consumption—												
United States.....cords..	33,365	34,300	35,400	68,428	70,454	63,640	56,187	55,086	49,444	464,647	644,899	548,334
Canada.....cords..				3,587	3,228	2,041	1,938		2,160	7 29,862	7 38,142	7 30,921
Stocks, end of month—												
United States.....cords..	581,892	6 591,727	601,801	530,264	565,119	552,338	507,227	509,435	514,204			
Canada.....cords..	70,000	70,000		72,126	72,026	72,040	73,699	73,700	73,759			
Daily capacity—												
Total.....cords..	3,170	3,170	3,190	3,276	3,264	3,264	3,470	3,482	3,486			
Shutdown.....cords..	1,714	1,598	1,518	468	475	525	807	1,053	1,083			
Methanol, refined:												
Production—												
United States.....gallons..	265,509	275,712	201,663	259,118	454,160	432,094	541,113	436,811	355,353	2,959,010	3,933,173	4,290,945
Canada.....gallons..	14,100	20,400		10,400	43,700	27,800	10,800	14,700	38,600	7 258,400	7 331,000	7 240,050
Stocks, end of month—												
United States.....gallons..	6 218,532	6 184,107	20,346	712,752	783,674	729,932	444,496	396,730	300,478			
Canada.....gallons..	32,876	41,786		31,185	37,761	21,888	39,210	26,715	33,101			
Shipments—												
United States.....gallons..	356,274	6 310,215	365,927	365,438	487,153	598,551	667,549	497,971	415,340	3,811,207	4,433,016	4,441,365
Canada.....gallons..	17,152	8,896		21,403	22,188	31,902	12,672	22,076	25,396	7 205,643	7 240,228	7 165,860
Price, wholesale, N. Y.												
.....dolls. per gal..	.40	.40	.40	.58	.58	.58	.47	.48	.48			
Ethyl Alcohol												
Production.....thous. of gals..	11,617	12,890	14,299	16,871	20,026	20,739	16,618	18,764	18,613	110,067	144,076	125,178
Withdrawn for denaturation.....thous. of gals..	11,352	11,777	12,615	15,982	18,688	19,199	14,927	16,128	15,269	98,604	131,407	110,307
Warehouse stocks, end of month.....thous. of gals..	9,498	9,317	10,010	11,166	11,489	11,617	7,351	9,263	11,295			
Explosives												
(Black powder, permissible, and other high explosives)												
Production.....thous. of lbs..	30,810	31,168	35,688	35,756	40,584	42,019	30,084	35,092	35,310	293,777	329,527	289,617
Shipments.....thous. of lbs..	30,649	32,289	35,069	36,811	39,163	42,299	29,561	33,039	37,465	293,268	332,303	291,655
New orders.....thous. of lbs..	30,424	32,687	33,173	35,499	39,580	40,141	27,993	32,268	33,611	287,304	321,638	276,782
Stocks, end of month.....thous. of lbs..	17,392	16,043	16,694	16,964	17,529	16,895	17,158	18,554	16,274			
Naval Stores												
Turpentine (gum):												
Net receipts, southern ports.....barrels..	55,822	46,521	42,873	54,872	49,436	42,127	46,637	42,724	34,312	293,820	291,798	250,269
Stocks at port, end of mo.....barrels..	58,491	65,024	76,774	65,570	63,151	65,770	69,245	73,304	73,595			
Price, southern, New York.....dolls. per gal..	.43	.41	.44	.52	.52	.55	.55	.52	.52			
Rosin (gum):												
Net receipts, southern ports.....barrels..	178,876	151,269	140,090	181,433	172,670	140,212	148,250	145,357	116,029	979,171	998,541	841,152
Stocks at 3 ports, end of month.....barrels..	242,948	267,540	276,565	169,420	205,595	233,215	178,225	227,517	230,672			
Price, B, New York.....dolls. per bbl..	5.90	5.39	5.80	8.51	8.51	9.01	9.71	9.59	9.18			
Rosin (wood):												
Production.....barrels..	39,929	37,349	38,293	37,844	38,315	36,905	37,016	37,623	35,473	366,005	331,323	314,173
Stocks, end of month.....barrels..	117,318	114,281	117,726	104,492	98,777	90,636	112,703	114,074	112,964			
Turpentine (wood):												
Production.....barrels..	6,406	6,125	6,573	6,718	6,721	6,695	6,304	6,274	6,257	64,752	61,253	55,000
Stocks, end of month.....barrels..	13,642	12,772	11,163	4,623	4,713	4,344	7,786	6,898	6,027			
Pine oil:												
Production.....gallons..	241,193	224,546	6 229,238	235,892	229,388	222,112	238,767	225,668	211,828	2,205,482	2,013,417	2,053,339
Stocks, end of month.....gallons..	1,456,415	1,512,730	1,528,564	882,037	894,993	888,328	824,671	822,813	845,762			
Fats and Oils												
Total vegetable oils and copra:												
Exports.....thous. of lbs..	533	1,317	1,794	541	1,285	2,632	1,145	1,444	2,222	23,514	18,406	40,827
Imports.....thous. of lbs..	74,579	6 87,072	73,445	73,157	109,091	82,942	53,379	56,364	80,914	710,746	831,895	538,669
Copra, imports.....short tons..	18,663	16,885	31,139	21,693	26,622	18,007	24,409	19,716	20,754	195,143	232,300	168,095
Copra or coconut oil:												
Imports.....thous. of lbs..	8,118	19,331	14,846	23,669	36,623	36,952	19,629	12,581	34,008	214,379	310,664	192,988
Consumption in oleomargarine.....thous. of lbs..	11,455	11,479	15,818	12,658	14,715	16,075	10,642	11,910	14,452	126,140	131,275	113,273

* Revised.

† Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
CHEMICALS AND OILS—Contd.												
Fats and Oils—Continued												
Oleomargarine:												
Production.....thous. of lbs..	20,976	23,071	28,554	24,873	28,400	30,562	21,444	23,610	28,446	234,911	253,307	226,390
Consumption.....thous. of lbs..	18,782	24,672	27,194	24,972	25,788	31,423	20,490	24,965	29,002	229,998	250,457	226,047
Animal glues, shipments.....thous. of lbs..	5,685			6,376	7,231	6,749	6,621	6,780	6,256			
Edible gelatin:												
Production, quarterly.....thous. of lbs..			\$ 3,124			\$ 2,808			\$ 1,824	13,638	13,193	12,042
Stocks, end of quarter.....thous. of lbs..			\$ 5,988			\$ 6,459			\$ 7,284			
Animal glues:												
Production.....thous. of lbs..			\$ 23,131			\$ 23,278			\$ 20,454	77,527	76,783	79,751
Stocks.....thous. of lbs..			\$ 44,825			\$ 27,377			\$ 32,843			
Cottonseed												
Cottonseed:												
Receipts at mills.....short tons..	29,559	336,129	1,040,865	30,680	239,069	\$ 917,344	24,936	175,643	865,691	2,420,000	1,958,799	1,694,859
Consumption (crush).....short tons..	62,248	165,770	561,625	54,165	120,023	\$ 489,048	33,230	74,116	421,362	2,330,247	2,700,985	2,139,984
Stocks at mills, end of month.....short tons..	44,606	214,965	695,033	41,606	160,652	\$ 588,948	21,972	123,499	567,828			
Cottonseed oil, crude:												
Production.....thous. of lbs..	19,971	49,322	169,458	18,313	35,218	\$ 149,121	11,257	20,914	126,787	892,321	867,948	687,647
Stocks, end of month.....thous. of lbs..	8,110	25,606	79,280	19,182	28,823	\$ 77,215	20,351	15,261	68,856			
Cottonseed oil, refined:												
Production.....thous. of lbs..	29,182	26,525	102,460	27,933	22,877	\$ 84,351	25,930	21,012	61,637	820,477	836,545	684,194
Stocks, end of month.....thous. of lbs..	299,933	200,273	174,208	338,620	230,683	\$ 175,437	335,993	234,485	159,588			
Price, yellow, prime, New York.....dolls. per lb..	.080	.084	.081	.096	.094	.093	.101	.094	.099			
Consumption in oleomargarine.....thous. of lbs..	1,587	2,906	2,151	2,051	2,387	2,362	1,867	2,062	2,437	20,671	20,788	19,110
Cottonseed cake and meal:												
Production.....short tons..	27,518	76,440	251,128	25,774	56,303	\$ 214,982	14,065	35,101	185,728	1,266,423	1,224,534	977,944
Stocks, end of month.....short tons..	54,308	45,340	116,396	76,667	48,894	\$ 82,541	32,648	18,715	61,411			
Exports.....short tons..	304	175	2,092	11,969	12,837	21,608	71	944	22,013	38,202	148,953	129,741
Flaxseed												
Minneapolis and Duluth:												
Receipts.....thous. of bush..	294	3,266	5,501	381	1,479	4,111	245	1,025	3,812	10,775	8,130	8,594
Shipments.....thous. of bush..	193	1,436	2,269	340	567	1,055	272	426	1,260	5,251	4,186	5,215
Stocks, end of mo.thous. of bush..	319	447	1,393	360	23	909	411	310	615			
Imports.....thous. of bush..	360	551	59	1,293	1,020	842	1,484	1,068	1,254	11,908	18,627	13,440
Price No. 1, Minneapolis.....dolls. per bush..	2.32	2.00	1.90	2.76	2.79	3.23	2.21	2.05	2.09			
Production, crop estimate.....thous. of bush..			\$ 25,165			\$ 16,844			\$ 19,928			
Linseed oil:												
Shipments from Minneapolis.....thous. of lbs..	6,436	6,117	11,565	14,381	10,787	14,789	14,229	13,571	14,443	65,969	128,002	133,425
Price, New York.....dolls. per lb..	.140	.131	.105	.120	.129	.155	.100	.098	.098			
Linseed cake and meal:												
Shipments from Minneapolis.....thous. of lbs..	5,066	13,398	27,149	12,215	15,683	27,415	10,057	16,051	26,257	111,866	159,246	187,157
Exports.....thous. of lbs..	24,833	22,593	8,474	80,855	74,874	59,539	47,219	52,394	38,770	313,976	580,157	419,017
FOODSTUFFS												
Wheat												
Visible supply, end of month:												
United States.....thous. of bush..	161,666	194,800	213,804	142,855	190,911	198,982	55,362	92,108	114,523			
Canada.....thous. of bush..	106,544	90,617	148,288	103,315	96,224	156,620	72,891	32,728	78,069			
Receipts, principal markets.....thous. of bush..	98,960	85,476	62,569	94,158	101,669	47,046	72,618	84,221	73,322	349,819	383,131	361,869
Shipments, principal markets.....thous. of bush..	42,047	48,053	44,746	42,577	60,983	32,134	33,543	46,105	39,508	230,367	242,475	218,115
Stocks, millers', end of quarter.....thous. of bush..			\$ 154,112			\$ 174,776			\$ 151,228			
Production, crop estimate:												
Winter wheat.....thous. of bush..			\$ 597,392			\$ 577,784			\$ 578,673			
Spring wheat.....thous. of bush..			\$ 242,220			\$ 228,006			\$ 336,203			
Total, wheat.....thous. of bush..			\$ 839,612			\$ 805,790			\$ 914,876			
Exports:												
United States—												
Wheat only.....thous. of bush..	11,934	18,646	12,716	8,691	12,094	13,104	4,153	10,374	17,979	75,689	64,236	56,030
Including wheat flour.....thous. of bush..	16,188	24,167	19,069	13,575	16,935	18,335	7,064	14,568	22,568	119,323	109,645	93,513
Canada—												
Including wheat flour.....thous. of bush..	22,834	20,461	31,120	20,538	13,050	9,624	35,944	29,220	30,928	148,413	187,024	230,914
Prices:												
No. 1, Northern Spring, Minneapolis.....dolls. per bush..	.92	.91	.87	1.43	1.35	1.35	1.38	1.19	1.19			
No. 2, Red Winter, St. Louis.....dolls. per bush..	.85	.89	.88	1.39	1.32	1.35	1.47	1.38	1.45			
No. 2, Hard Winter, Kansas City.....dolls. per bush..	.80	.81	.78	1.25	1.23	1.24	1.20	1.06	1.07			
Wheat Flour												
Grindings of wheat:												
United States.....thous. of bush..	43,721	\$ 47,654	49,376	42,895	50,725	47,583	39,552	47,657	48,014	391,472	393,312	381,024
Canada.....thous. of bush..	6,448	6,930	7,255	7,247	7,178	5,745	6,769	7,330	8,554	52,916	65,071	63,617
Production:												
United States, actual.....thous. of bbls..	9,466	\$ 10,313	10,673	9,337	11,058	10,372	8,516	10,370	10,512	84,831	85,896	82,364
United States, prorated.....thous. of bbls..	10,507	11,562		10,449	12,562	11,870	9,409	11,567	11,197	781,226	784,661	780,798
Canada.....thous. of bbls..	1,436	1,548	1,624	1,603	1,607	1,283	1,458	1,590	1,892	11,816	14,325	13,814

¹ As of Oct. 1. ² Final estimate for 1929. ³ Final estimate for 1928. ⁴ Revised. ⁵ Cumulative through Aug. 31. ⁶ Quarter ending in month indicated.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FOODSTUFFS—Continued												
Wheat Flour—Continued												
Exports:												
United States.....thous. of bbls..	945	1,227	1,412	1,085	1,076	1,163	647	932	1,020	9,696	10,090	8,330
Canada.....thous. of bbls..	659	627	734	836	643	492	782	925	890	5,307	7,877	7,484
Grain offal, production.....thous. of lbs..	774,252	851,404	888,535	746,628	882,931	831,523	697,371	819,994	820,934	6,956,493	6,832,945	6,687,588
Capacity operated, flour mills, per cent..	57	62	67	55	62	66	51	58	66			
Consumption (computed).....thous. of bbls..	10,012	9,585		8,365	11,686	10,006	7,762	10,435	9,078	72,942	74,238	72,090
Stocks, all positions, end of month (computed).....thous. of bbls..	8,850	9,600		10,084	8,800	9,500	7,847	7,400	8,500			
Stocks held by mills, end of quarter.....thous. of bbls..			3,940			4,479			4,180			
Wholesale prices:												
Standard patents,												
Minn.....dolls. per bbl..	5.51	5.34	5.08	7.69	7.31	7.17	7.36	6.62	6.59			
Winter, straights,												
Kansas City.....dolls. per bbl..	4.64	4.56	4.44	6.31	6.24	6.10	6.44	5.66	5.65			
Corn												
Exports, including												
meal.....thous. of bushs..	395	332	394	550	895	693	891	1,018	668	6,608	32,463	17,618
Visible supply, end of month.....thous. of bushs..	4,012	4,226	4,976	9,493	5,765	4,638	12,479	9,965	7,114			
Receipts, principal markets.....thous. of bushs..	16,660	20,282	16,048	21,205	19,023	19,532	23,742	21,467	19,658	190,737	198,924	248,091
Shipments, principal markets.....thous. of bushs..	11,699	12,792	9,829	15,644	13,643	11,082	16,080	15,778	11,949	131,099	136,732	172,989
Grindings (starch, glucose).....thous. of bushs..	6,103	6,565	6,473	6,558	7,672	7,913	5,833	5,193	6,541	58,734	65,390	65,114
Production, crop estimate.....thous. of bushs..			2,046,716			2,614,307			2,818,901			
Prices:												
No. 3, Yellow,												
Chicago.....dolls. per bush..	.82	.99	.94	.99	1.01	1.01	1.06	1.02	1.00			
No. 3, Yellow,												
Kansas City.....dolls. per bush..	.80	.92	.89	.93	.99	.99	1.00	.94	.94			
No. 3, White,												
Chicago.....dolls. per bush..	.84	.99	.97	1.00	1.01	1.02	1.06	1.02	1.00			
Oats												
Receipts, principal markets.....thous. of bushs..	8,725	25,277	15,381	10,123	36,320	13,833	6,610	27,271	14,375	99,544	116,704	118,379
Visible supply, end of month.....thous. of bushs..	9,149	25,867	31,979	8,129	25,897	28,809	1,954	15,687	18,004			
Exports, including												
meal.....thous. of bushs..	717	292	194	487	1,182	1,640	245	2,571	2,753	2,922	8,105	9,257
Production, crop estimate.....thous. of bushs..			1,410,761			1,233,574			1,439,407			
Price, No. 3, White,												
Chicago.....dolls. per bush..	.35	.39	.38	.47	.43	.48	.56	.38	.41			
Grindings, Canada.....thous. of bushs..	826	817	1,054	854	1,101	975	723	988	1,100	7,070	8,175	8,103
Production, oatmeal and rolled oats, Canada.....thous. of lbs..	10,893	11,032	14,843	12,145	14,228	12,263	9,320	15,968	16,499	89,716	103,510	106,292
Barley												
Receipts, principal markets.....thous. of bushs..	2,568	10,822	12,477	4,849	18,666	7,807	2,217	23,611	21,710	43,040	54,195	71,848
Visible supply, end of month.....thous. of bushs..	3,997	7,429	11,991	5,518	9,805	9,519	685	6,313	8,084			
Productions, crop estimate.....thous. of bushs..			328,020			303,552			357,487			
Exports.....thous. of bushs..	698	1,281	1,359	4,120	4,624	6,209	2,242	8,658	14,880	8,443	28,596	33,722
Price, No. 2, Minneapolis.....dolls. per bush..	.47	.52	.53	.69	.61	.60	.85	.65	.63			
Rye												
Receipts, principal markets.....thous. of bushs..	758	5,200	6,562	880	5,766	3,720	571	2,636	6,001	16,889	16,842	17,557
Visible supply, end of month.....thous. of bushs..	10,969	12,649	14,842	6,447	8,015	8,889	1,146	1,440	1,927			
Exports, including												
flour.....thous. of bushs..	18	23	25	106	470	1,220	195	709	2,471	258	2,911	9,692
Price, No. 2, Minneapolis.....dolls. per bush..	.55	.60	.55	1.07	.98	.97	1.11	.94	.94			
Production, crop estimate.....thous. of bushs..			46,655			40,533			43,366			
Total Grains												
Total grain exports, incl. flour.....thous. of bushs..	18,015	26,095	21,041	19,138	24,106	28,097	10,637	27,644	43,250	137,556	182,052	164,313
Rice												
Southern paddy, receipts at mills, bbls..	22,216	507,920	1,084,277	125,737	583,944	1,387,795	16,892	338,269	1,197,924	4,117,003	4,602,915	5,254,968
Shipments:												
Total from mills, pockets (100 lbs.)..	267,710	498,911	766,414	515,342	506,895	841,027	285,155	346,076	777,583	6,089,338	6,529,443	6,670,504
New Orleans.....pockets (100 lbs.)..	56,861			113,969	126,470	156,232	35,274	96,643	147,464			
Stocks, end of month, pockets (100 lbs.)..	450,146	487,724	841,705	485,177	506,953	1,099,055	829,608	695,660	1,102,564			
Exports.....pockets (100 lbs.)..	124,181	99,219	94,030	231,401	221,314	131,509	189,456	120,281	150,623	1,630,979	2,869,489	2,608,073
Imports.....pockets (100 lbs.)..	4,951	5,977	5,667	6,556	5,649	6,292	31,688	6,026	15,412	132,675	182,485	280,683
Production, crop estimate, thous. of lbs..			38,564			40,217			43,240			

* As of Oct. 1.

* Final estimate for 1929.

* Final estimate for 1928.

* Revised.

* Cumulative through Aug. 31.

* Quarter ending in month indicated.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FOODSTUFFS—Continued												
Fruits and Vegetables												
Apples:												
Production, crop estimates.....thous. of bush.			2 153,369			2 142,078			2 186,893			
Cold-storage holdings, end of month.....thous. of bbls.		6 114	1,748			1,633			1,631			
Car-lot shipments.....carloads.	3,253	2,729	12,757	1,903	3,532	13,114	3,369	4,170	18,085	42,970	44,888	44,576
Potatoes:												
Production, crop estimate.....thous. of bush.			2 352,206			2 359,796			2 465,350			
Car-lot shipments.....carloads.	22,093	15,979	21,924	19,359	16,871	23,978	20,972	15,538	20,267	187,679	185,234	191,240
Onions, car-lot shipments.....carloads.	2,556	2,793	5,437	2,351	2,545	5,040	1,652	2,561	6,009	27,644	24,867	25,875
Citrus fruits, car-lot shipments.....carloads.	5,765	4,441	4,510	8,152	7,348	5,684	5,070	4,254	3,636	62,934	108,949	63,323
Hay												
Receipts.....number of cars.	4,505	4,717	4,808	4,598	4,425	4,325	5,903	4,747	5,361	43,176	46,404	51,593
Production, crop estimates.....thous. of tons.			2 84,071			2 101,786			2 93,351			
Cattle and Beef												
Cattle movements, primary markets:												
Receipts.....thousands.	1,512	1,605	2,108	1,665	1,619	2,105	1,650	1,829	2,191	14,357	14,536	15,463
Shipments, total.....thousands.	501	619	947	595	687	888	608	814	1,067	5,494	5,492	6,139
Shipments, stocker and feeder.....thousands.	109	150	443	173	267	423	196	336	563	1,926	2,082	2,417
Local slaughter.....thousands.	1,004	959	1,084	1,043	940	1,117	1,013	1,007	1,069	8,683	8,855	9,166
Beef products:												
Production, inspected.....thous. of lbs.	411,226	403,081	434,625	402,501	406,700	419,281	375,745	398,056	418,882	3,494,188	3,499,028	3,520,081
Apparent consumption.....thous. of lbs.	415,237	409,472	434,193	420,212	419,494	423,701	386,213	407,512	433,958	3,582,313	3,644,253	3,638,023
Exports.....thous. of lbs.	1,987	1,061	1,793	2,208	1,457	1,259	1,510	1,419	647	14,240	12,850	10,237
Cold-storage holdings, end of month.....thous. of lbs.	64,591	59,755	60,135	45,930	48,014	56,434	32,442	31,065	37,223			
Prices:												
Cattle, corn-fed, Chicago.....dolls. per 100 lbs.	9.28	9.14	10.33	14.98	14.69	13.80	14.99	15.11	16.19			
Steer rounds, No. 2.....dolls. per lb.	.174	.168	.191	.238	.238	.236	.229	.244	.259			
Western dressed steers, N. Y.....dolls. per lb.	.177	.173	.203	.255	.251	.250	.249	.260	.284			
Hogs and Pork												
Hog movements, primary markets:												
Receipts.....thousands.	2,918	2,617	2,799	3,297	2,964	3,089	2,924	2,523	2,600	29,902	32,207	34,013
Shipments, total.....thousands.	1,139	1,133	1,090	1,202	1,132	1,128	1,193	1,160	1,093	11,679	11,927	12,845
Shipments, stocker and feeder.....thousands.	30	35	38	38	38	40	45	43	55	399	467	560
Local slaughter.....thousands.	1,782	1,487	1,703	2,092	1,835	1,944	1,719	1,362	1,500	18,214	20,242	21,141
Pork products, total:												
Production, inspected.....thous. of lbs.	603,324	500,438	472,467	675,915	586,150	552,490	537,820	466,696	434,296	5,678,043	6,188,852	6,245,067
Apparent consumption.....thous. of lbs.	557,813	558,041	551,613	604,340	617,432	614,108	560,122	550,185	588,472	5,121,297	5,321,630	5,380,033
Exports.....thous. of lbs.	75,473	72,719	53,892	96,298	87,277	84,650	84,290	81,924	65,617	756,171	875,415	811,212
Cold-storage holdings, end of month.....thous. of lbs.	769,797	639,827	507,103	1,017,364	899,485	754,188	1,024,124	859,903	641,977			
Fresh and cured.....thous. of lbs.	651,444	550,959	447,573	814,354	719,400	600,498	819,185	682,015	515,087			
Lard (included in pork products):												
Production.....thous. of lbs.	121,351	98,167	139,693	121,894	114,179	108,522	92,401	80,135	71,061	1,061,536	1,198,419	1,217,426
Exports.....thous. of lbs.	51,670	49,287	37,417	64,274	55,487	58,329	52,940	46,158	513,424	513,424	595,311	545,784
Cold-storage holdings, end of month.....thous. of lbs.	118,353	88,868	59,530	203,010	180,085	153,690	204,939	177,888	126,890			
Prices:												
Hogs, heavy, Chicago.....dolls. per 100 lbs.	8.94	9.78	10.58	11.20	10.66	9.96	10.86	11.71	12.43			
Hams, smoked, Chicago.....dolls. per lb.	.230	.229	.227	.267	.275	.267	.236	.249	.254			
Lard prime contract, N. Y.....dolls. per lb.	.100	.114	.119	.125	.124	.122	.125	.128	.132			
Sheep and Lambs												
Sheep movement, primary market:												
Receipts.....thousands.	2,296	2,583	3,580	2,119	2,544	3,355	1,898	2,362	3,386	21,103	18,903	17,996
Shipments, total.....thousands.	940	1,317	2,016	883	1,392	1,971	828	1,250	2,161	9,752	9,238	9,054
Shipments, stocker and feeder.....thousands.	206	465	907	231	639	1,027	234	564	1,080	2,396	2,976	2,806
Local slaughter.....thousands.	1,362	1,266	1,479	1,217	1,155	1,301	1,068	1,097	1,213	11,259	9,563	8,916
Lamb and mutton:												
Production, inspected.....thous. of lbs.	51,861	52,268	59,297	46,804	49,096	50,158	39,395	44,525	49,237	476,989	403,839	381,819
Apparent consumption.....thous. of lbs.	52,074	52,646	58,912	47,563	48,743	49,551	39,449	44,443	49,042	476,977	409,059	385,676
Cold-storage holdings, end of month.....thous. of lbs.	4,476	3,977	4,298	2,639	3,159	4,113	1,822	1,691	2,113			
Prices:												
Sheep, ewes, Chicago.....dolls. per 100 lbs.	3.06	3.09	3.08	5.55	5.16	4.68	5.38	5.72	5.50			
Sheep, lambs, Chicago.....dolls. per 100 lbs.	8.13	7.72	7.35	13.80	12.88	12.55	15.18	14.31	14.16			
Miscellaneous Meats												
Cold-storage holdings, end of month.....thous. of lbs.	90,631	84,324	80,698	81,068	76,539	71,511	63,610	56,888	49,798			

2 As of Oct. 1.

3 Final estimate for 1929.

4 Final estimate for 1928.

5 Revised.

7 Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FOODSTUFFS—Continued												
Total Meats												
Production, inspected.....thous. of lbs..	1,066,412	955,786	966,388	1,125,221	1,041,946	1,021,929	952,959	909,277	902,414	9,649,219	10,091,720	10,146,964
Cold-storage holdings, end of month.....thous. of lbs..	929,495	* 787,883	652,234	1,147,001	1,027,197	886,246	1,121,998	949,547	731,111			
Apparent consumption.....thous. of lbs..	1,025,124	* 1,020,159	1,044,718	1,072,115	1,085,669	1,087,360	985,784	1,002,140	1,071,472	9,180,587	9,374,942	9,403,732
Poultry												
Receipts at 5 markets.....thous. of lbs..	19,858	20,527	24,900	22,548	26,150	28,477	22,288	22,361	23,859	204,081	200,805	189,61
Cold-storage holdings, end of month.....thous. of lbs..	46,967	* 42,589	46,912	40,896	49,010	61,976	40,395	40,749	43,578			
Fish												
Total catch, prin. ports.....thous. of bbls..	46,751	35,875	40,687	43,185	43,903	50,270	27,324	30,130	24,284	311,756	294,578	225,060
Cold-storage holdings, 15th of month.....thous. of lbs..	64,847	78,997	85,498	51,664	64,810	* 72,674	53,140	66,170	71,352			
Canned salmon:												
Shipments, United States.....cases..	366,873	1,030,095	1,432,990	367,842	830,404	937,041	454,600	832,632	1,113,495	4,880,857	3,965,534	3,796,988
Exports, Canada.....cases..	24,942	29,494	152,779	38,983	53,100	118,250	26,333	121,152	168,963	541,712	760,956	770,735
Butter												
Production (factory).....thous. of lbs..	163,318	133,600	119,383	185,317	152,192	* 123,582	167,601	145,430	119,499	1,209,180	1,279,871	1,200,926
Receipts, 5 markets.....thous. of lbs..	62,274	44,821	40,853	68,104	54,885	44,500	65,145	55,339	44,969	464,524	481,634	463,410
Cold-storage holdings, creamery, end of month.....thous. of lbs..	145,061	* 143,089	130,753	151,621	168,952	158,541	120,437	136,175	128,071			
Apparent consumption.....thous. of lbs..	191,178	193,110	179,305	244,232	185,708	174,193	186,928	189,164	176,879	1,616,390	1,626,018	1,592,494
Wholesale price, New York.....dolls. per lb..	.35	.39	.40	.42	.43	.46	.45	.47	.49			
Cheese												
Total, all varieties:												
Production (factory).....thous. of lbs..	45,120	41,125	36,062	67,453	55,593	* 47,382	57,182	49,842	45,509	339,557	465,687	421,658
Receipts, 5 markets.....thous. of lbs..	17,436	14,952	14,509	20,548	18,605	15,289	21,741	18,727	18,222	131,185	141,848	152,078
Apparent consumption.....thous. of lbs..	29,640	47,564	43,695	36,607	39,453	38,414	34,461	36,541	48,660	368,174	344,878	371,064
Cold-storage holdings, end of month.....thous. of lbs..	108,899	* 107,219	103,707	98,070	106,009	102,849	89,708	101,498	98,339			
Imports.....thous. of lbs..	3,106	3,687	4,333	6,653	5,268	4,929	5,937	5,597	6,744	51,707	55,595	53,777
Exports, United States.....thous. of lbs..	172	137	121	285	138	284	172	215	141	1,496	2,078	1,929
Exports, Canada.....thous. of lbs..	12,092	10,188	12,652	15,074	11,047	16,954	20,095	15,788	17,123	44,893	56,914	68,866
American whole milk:												
Cold-storage holdings, end of month.....thous. of lbs..	88,749	* 87,221	85,108	79,907	86,558	84,815	73,088	83,906	81,833			
Wholesale price, New York.....dolls. per lb..	.18	.19	.20	.23	.23	.24	.26	.26	.27			
Eggs												
Receipts, 5 markets.....thous. of cases..	1,377	944	952	1,409	1,151	944	1,335	1,076	939	14,088	13,810	13,492
Cold-storage holdings, end of month:												
Case.....thous. of cases..	11,198	10,375	9,169	8,962	8,547	7,195	10,496	9,944	8,542			
Frozen.....thous. of lbs..	116,272	* 113,138	106,447	91,488	86,693	81,541	81,670	89,196	82,255			
Milk												
Condensed milk:												
Total stocks, end of month—												
Case goods.....thous. of lbs..	35,006	30,875	27,314	34,750	32,142	29,893	30,397	30,542	27,837			
Bulk goods.....thous. of lbs..	30,337	25,765	23,718	29,890	29,217	30,038	20,794	19,332	17,604			
Unsold stocks, mfrs., end of mo.—												
Case goods.....thous. of lbs..	30,866	26,464	22,951	28,883	26,950	24,237	23,594	24,159	21,821			
Bulk goods.....thous. of lbs..	10,212	6,954	8,119	9,221	8,751	8,019	8,611	8,367	6,351			
Exports.....thous. of lbs..	1,515	3,294	1,479	3,565	3,366	3,116	3,011	3,246	3,405	23,867	34,354	29,866
Wholesale price, New York.....dolls. per case..	6.03	6.03	6.03	6.13	6.13	6.13	5.97	6.18	6.18			
Evaporated milk:												
Manufacturers' stocks, end of mo.—												
Total, case goods.....thous. of lbs..	258,836	244,969	218,486	281,137	272,427	249,936	180,377	161,679	165,682			
Unsold, case goods.....thous. of lbs..	218,761	197,189	179,047	215,878	186,717	192,761	124,788	101,819	134,259			
Exports.....thous. of lbs..	4,720	5,223	3,452	5,929	4,609	3,708	5,180	6,343	5,583	47,630	53,670	60,430
Wholesale price, New York.....dolls. per case..	3.74	3.80	3.80	4.30	4.30	4.21	4.34	4.45	4.58			
Production, condensed and evaporated milk.....thous. of lbs..	205,641	163,034	139,802	253,215	191,805	* 147,939	197,877	160,360	140,388	1,593,389	1,833,646	1,591,129
Powdered milk:												
Manufacturers' stocks, end of month.....thous. of lbs..	32,493	34,186	32,233	33,921	33,491	30,775	22,632	19,941	18,857			
Exports.....thous. of lbs..	376	426	477	454	250	329	359	526	322	4,784	3,703	2,838
Net new orders.....thous. of lbs..	10,946	* 9,623	9,979	9,967	10,225	* 9,781				91,020	80,588	
Fluid milk:												
Receipts—												
Boston (incl. cream).....thous. of qts..	20,348	19,007	19,634	20,114	19,115	18,273	19,215	19,081	17,329	176,154	165,439	162,017
Greater New York.....thous. of qts..	123,165	116,769		122,366	117,248	118,605	122,100	117,162	113,552	793,559	793,217	791,635
Consumption in manufacture of oleomargarine.....thous. of lbs..	5,837	6,173	7,799	7,045	8,144	8,824	6,652	7,014	8,530	45,673	69,865	66,789
Sugar												
Raw:												
Imports—												
From Hawaii, Porto Rico.....long tons..	199,950	132,240	117,776	156,633	90,922	120,481	102,353	107,202	89,047	1,274,858	1,053,864	1,182,152
From foreign countries.....long tons..	195,187	181,184	273,960	359,393	410,479	292,699	253,613	274,366	315,722	2,245,439	3,766,314	2,761,962
Meltings, 8 ports.....long tons..	501,569	360,592	413,912	445,904	504,207	322,716	433,367	471,175	417,983	3,614,042	3,854,402	3,600,481
Stocks at refineries, end of month.....long tons..	444,415	442,894	378,969	864,589	830,508	873,286	595,214	488,161	465,386			

* Revised.

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FOODSTUFFS—Continued												
Sugar—Continued												
Refined:												
Shipments, 2 ports.....long tons..	89,928	49,066	72,208	93,673	89,294	47,447	67,638	82,773	66,428	605,529	659,901	559,008
Stocks, 2 ports.....long tons..	48,600	53,324	53,998	42,889	47,419	49,631	24,930	34,049	26,725			
Exports, including maple.....long tons..	4,661	7,246	6,668	11,631	8,579	5,705	10,313	11,329	7,413	49,625	78,408	76,824
Prices:												
Wholesale, 96° centnf., New York.....dolls. per lb..	.033	.032	.031	.038	.038	.040	.042	.041	.042			
Wholesale, granulated New York.....dolls. per lb..	.046	.044	.043	.052	.054	.053	.057	.055	.056			
Retail, granulated, New York.....dolls. per lb..	.054	.054	.054	.057	.060	.061	.066	.063	.063			
Retail average, 51 cities.....relative to 1913..	111	111	107	116	120	122	133	129	127			
Cuban movement (raw):												
Receipts at Cuban ports.....long tons..	149,333	160,710	152,166	153,925	211,090	120,530	149,682	182,414	168,638	3,343,313	4,592,954	4,599,087
Exports.....long tons..	326,074	314,239	274,588	428,066	464,310	349,972	299,714	348,808	370,339	2,410,914	4,058,553	3,106,407
Stocks, end of month.....long tons..	1,417,997	1,278,971	1,162,515	978,543	739,068	508,592	1,017,638	829,437	630,548			
Candy												
Sales by manufacturers.....thous. of dolls..	16,713	19,044	28,027	17,963	26,174	34,779				208,225	236,490	
Coffee												
Imports.....thous. of bags..	801	712	991	864	875	925	821	925	1,655	8,893	8,449	9,338
Visible supply:												
World.....thous. of bags..	5,378	5,529	5,498	5,448	5,269	5,227	5,734	5,515	5,378			
United States.....thous. of bags..	861	784	934	760	685	689	850	793	702			
Receipts, total, Brazil.....thous. of bags..	1,391	1,462	1,595	1,056	1,191	1,266	1,168	1,181	1,040	12,066	10,242	10,641
Clearances:												
Total, Brazil, for world.....thous. of bags..	1,025	1,318	1,469	1,267	1,242	1,234	1,105	1,057	997	10,979	10,235	10,171
Total, Brazil, for United States.....thous. of bags..	539	652	852	634	655	642	598	548	570	5,755	5,296	5,415
Price, Rio No. 7, Brazil grades.....dolls. per lb..	.076	.072	.072	.163	.161	.158	.165	.173	.173			
Tea												
Imports.....thous. of lbs..	7,007	8,134	8,717	6,734	7,019	8,737	7,209	8,086	9,754	59,415	61,051	60,790
Price, Formosa fine, New York.....dolls. per lb..	.292	.290	.224	.310	.310	.310	.325	.325	.325			
Cocoa												
Shipments from the Gold and Nigerian Coasts, Africa.....long tons..	20,764	13,441	7,554	7,224	5,238	4,459	6,316	4,011	3,724	185,460	192,196	172,575
Imports.....long tons..	20,443	17,863	11,008	18,862	15,922	10,481	12,971	13,461	6,888	139,173	173,357	143,048
Spot price, Accra, New York.....dolls..	.0869	.0775	.0670	.1069	.1081	.1100	.1350	.1213	.1163			
TOBACCO												
Consumption (tax-paid withdrawals):												
Large cigars.....thousands..	532,805	517,200	523,973	589,282	598,583	591,738	558,206	601,877	586,267	4,387,509	4,816,171	4,687,910
Small cigarettes.....thousands..	11,858,840	10,577,438	10,190,031	10,724,403	10,930,629	10,350,544	9,723,647	10,627,344	9,126,271	92,051,474	90,534,149	79,942,901
Manufac. tobacco and snuff.....thous. of lbs..	30,964	31,370	32,166	32,694	34,470	32,260	30,155	34,981	31,789	284,059	290,993	293,264
Exports:												
Unmanufactured.....thous. of lbs..	27,620	39,527	53,841	26,266	41,343	55,965	20,252	26,833	57,509	382,335	349,677	348,598
Cigarettes.....thousands..	643,358	295,744	305,676	504,565	659,187	558,249	1,078,362	860,791	961,827	4,017,862	6,767,808	8,526,491
TRANSPORTATION												
River and Canal Cargo Traffic												
Panama Canal:												
Total cargo traffic.....thous. of long tons..	2,402	2,145	2,060	2,598	2,681	2,433	2,292	2,425	2,313	21,021	23,546	21,575
In American vessels.....thous. of long tons..	1,221	1,022	1,040	1,335	1,311	1,194	1,212	1,103	1,140	10,109	11,011	10,109
In British vessels.....thous. of long tons..	578	532	436	583	639	600	535	707	602	5,225	6,192	6,07
New York State canals.....thous. of short tons..	563	457	458	444	380	389	414	517	411	2,608	2,053	2,275
Sault Ste. Marie canals.....thous. of short tons..	12,367	11,267	10,347	14,120	14,085	13,356	13,247	13,680	12,812	58,361	73,973	61,670
Cape Cod Canal.....short tons..	219,574	247,376	244,640	175,179	206,188	199,955	135,702	148,691	130,566	1,818,557	1,535,727	950,577
Suez Canal.....thous. of met. tons..	2,390	2,288		2,745	2,762	2,772	2,758	2,602	2,634	19,658	23,122	21,567
Welland Canal.....short tons..	850,918	985,829	980,532	628,041	612,943	574,241	1,006,713	1,115,601	996,833	4,520,783	3,650,462	5,206,151
St. Lawrence Canal.....short tons..	928,453	1,005,853	914,038	783,484	809,323	775,772	1,225,338	1,359,561	1,150,058	4,675,108	4,422,094	5,974,108
Mississippi River Govt. barges.....short tons..	84,266	70,088	113,700	94,141	85,000	90,947	112,248	113,903	148,377	856,259	978,456	1,031,459
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.....short tons..	1,106,423	997,548	927,902	1,088,912	1,080,996	1,144,682	947,227	1,034,775	963,766	8,055,070	8,263,071	7,458,861
Allegheny River.....short tons..	367,727	387,260		396,514	330,123	364,309	306,010	346,670	288,629	2,038,473	1,990,148	1,742,918
Monongahela River.....short tons..	2,154,045	2,152,186		2,396,993	2,500,617	2,374,949	2,095,606	2,304,619	2,305,681	17,512,979	18,878,701	16,977,530
Ocean Traffic												
Clearances, vessels in foreign trade:												
Total.....thous. of net tons	8,067	8,480	7,653	8,099	8,428	7,559	7,781	8,377	7,365	62,832	62,413	58,206
American.....thous. of net tons	3,371	3,359	3,060	3,176	3,219	2,833	3,056	3,173	2,912	24,806	23,806	22,552
Foreign.....thous. of net tons	4,696	5,121	4,593	4,923	5,208	4,726	4,725	5,204	4,453	38,026	38,606	35,654
Shipbuilding												
Completed during month:												
Total.....gross tons..	45,069	75,030	32,083	21,585	32,298	28,325	25,523	12,537	27,833	306,348	172,131	147,991
Steel seagoing.....gross tons..	15,974	33,302	20,125	15,708	21,497	24,322	21,450	2,245	24,483	164,008	97,824	90,741
Building or under contract, end of month:												
Merchant vessels.....thous. of gross tons..	465	489	423	160	215	254	256	235	242	3,762	1,838	2,161

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
TRANSPORTATION—Continued												
Freight Cars												
Surplus (daily av. last week of month):												
Total.....cars.....	454,815	431,971	394,032	197,923	158,112	118,523	271,017	201,864	103,906			
Box.....cars.....	232,235	232,896	202,398	96,577	87,985	72,612	137,618	114,355	53,170			
Coal.....cars.....	165,499	141,721	139,416	58,485	31,021	12,117	90,513	47,615	21,809			
Shortage (daily av. last week of month):												
Total.....cars.....				3	12	127	82	8	279			
Box.....cars.....												
Coal.....cars.....						112	32	8	159			
Car loadings:												
Total.....cars.....	3,555,731	4,670,368	3,725,243	4,160,078	5,600,706	4,542,289	3,944,041	5,348,407	4,470,541	35,158,048	39,920,026	38,224,762
Grain and grain products.....cars.....	233,312	303,994	189,215	246,841	315,111	199,464	207,348	288,572	238,470	1,769,796	1,858,600	1,841,716
Livestock.....cars.....	80,293	105,550	107,777	92,030	121,357	123,685	91,007	120,780	136,923	922,723	1,011,345	1,093,830
Coal and coke.....cars.....	556,605	769,079	637,889	633,584	902,230	799,349	606,857	874,369	764,880	6,215,283	7,075,431	6,659,878
Forest products.....cars.....	159,618	207,372	161,532	245,248	343,804	251,851	238,676	332,061	254,527	1,914,711	2,536,610	2,529,162
Ore.....cars.....	244,998	284,388	195,118	305,437	378,809	274,599	250,150	321,700	250,969	1,396,349	1,862,444	1,465,036
Merchandise and l. c. l.....cars.....	899,253	1,178,655	943,536	995,783	1,307,838	1,048,912	986,282	1,290,844	1,034,957	9,282,936	9,934,753	9,862,727
Miscellaneous.....cars.....	1,381,652	1,821,330	1,490,176	1,641,155	2,230,557	1,844,429	1,563,721	2,114,081	1,789,815	13,656,850	15,640,843	14,772,386
Railroad Operation												
Operating revenues:												
Freight.....thous. of dolls.....	347,293	354,713	363,473	417,083	446,610	435,530	382,226	421,771	424,092			
Passenger.....thous. of dolls.....	65,805	67,432	59,092	79,593	84,315	75,759	82,822	85,187	80,200			
Total operating.....thous. of dolls.....	457,025	466,370	467,469	558,386	587,322	567,365	513,730	558,751	556,916			
Operating expenses.....thous. of dolls.....	331,562	327,204	320,131	389,253	396,205	383,859	376,044	384,528	376,241			
Net operating income.....thous. of dolls.....	82,750	95,604	104,078	123,825	141,758	138,859	95,231	138,728	134,491			
Freight carried.....mills. ton-miles.....	35,580	37,421		42,009	44,950	44,219	39,153	42,425	43,791			
Railway Equipment												
Locomotives (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....number.....	56,342	56,287	56,236	57,635	57,477	57,355	59,975	59,769	59,600			
Tractive power.....mills. of lbs.....	2,537	2,540	2,541	2,541	2,540	2,540	2,590	2,585	2,582			
In bad order, end of month—												
Quantity.....number.....	4,562	4,585	4,676	4,205	4,002	4,075	4,582	4,486	4,327			
Per cent of total in use, per cent.....	8.2	8.2	8.6	7.3	7.0	7.2	7.7	7.6	7.3			
Installed.....number.....	118	161	147	120	153	127	116	114	93	1,334	1,211	1,088
Retired.....number.....	156	216	198	369	306	245	235	320	260	1,910	2,554	2,269
New orders.....number.....	2	34	25	36	31	84	32	70	8	330	672	249
Shipments, manufacturers (Census):												
Total.....number.....	56	77	65	69	129	75	46	34	41	617	592	435
Steam, domestic.....number.....	52	68	62	39	117	60	19	23	28	584	480	285
Electric, domestic.....number.....	3	5	3	3	6	7	5	4	2	17	32	87
Unfilled orders (railroads), end of mo.—												
From manufacturers.....number.....	242	189	143	365	370	329	56	81	98			
In railroad shops.....number.....	54	46	38	45	25	25	17	19	15			
Unfilled orders, manufacturers' (Census)—												
Total.....number.....	291	234	174	539	436	429	198	204	178			
Steam, domestic.....number.....	243	193	136	490	392	347	98	135	118			
Electric, domestic.....number.....	41	36	34	18	13	55	59	26	27			
Exports, steam.....number.....	4	2	2	32	30	20	32	20	33	44	165	166
Freight cars (Am. Ry. Assn.):												
Owned, end of month—												
Quantity.....thous. of cars.....	2,274	2,274	2,275	2,267	2,268	2,266	2,300	2,299	2,296			
Capacity.....mills. of lbs.....	211,550	211,831	211,956	209,095	208,897	209,001	210,437	210,483	210,335			
In bad order, end of month—												
Quantity.....cars.....	144,987	153,046	157,141	137,495	134,253	132,611	151,867	149,252	148,333			
Per cent of total in use, per cent.....	6.5	6.8	7.1	6.2	6.0	6.0	6.7	6.6	6.6			
New orders.....cars.....	1,306	823	565	242	2,562	4,257	307	767	1,236	33,137	66,190	24,636
Shipments:												
Total.....cars.....	5,348	5,940	4,235	7,109	7,811	7,614	4,963	5,295	3,220	60,300	49,585	33,650
Domestic.....cars.....	5,348	5,934	4,176	6,963	7,633	7,239	4,908	5,261	3,000	59,034	47,000	32,763
Unfilled orders (railroads)—												
Total.....cars.....	17,230	10,802	6,175	36,014	31,671	29,317	13,531	8,177	6,619			
From manufacturers.....cars.....	14,247	7,723	4,127	31,590	27,289	25,554	10,371	5,673	3,878			
In railroad shops.....cars.....	2,983	3,079	2,048	4,424	4,382	3,763	3,160	2,504	2,741			
Passenger cars:												
New orders.....cars.....	32	13	62	89	149		19	589	2	623	1,077	1,704
Shipments—												
Total.....cars.....	41	35	50	64	76	96	123	147	146	575	752	817
Domestic.....cars.....	41	35	50	53	64	77	123	144	143	535	684	747
Highways												
Concrete pavements, new contracts:												
Total.....thous. of sq. yds.....	17,416	10,657	10,080	18,022	11,969	10,220	13,123	16,889	14,752	120,975	113,692	124,500
Road.....thous. of sq. yds.....	12,720	7,243	6,360	11,344	7,010	5,945	6,984	9,254	9,630	91,315	75,146	79,297
Federal-aid highways:												
Completed—												
Cost.....thous. of dolls.....	13,844	18,541	18,422	16,445	9,729	22,469	8,828	12,145	26,105	112,225	115,729	119,513
Distance.....miles.....	483	537	544	693	442	830	483	599	1,169	4,107	4,112	5,109
Under construction, end of month.....miles.....	8,055	8,339	8,459	8,494	8,724	8,584	9,497	9,547	9,427	68,187	72,947	80,358
Passenger Travel												
National parks:												
Visitors.....number.....	596,699	549,287	183,583	593,324	523,623	220,766	553,394	499,633	222,698	1,983,153	1,939,910	1,910,400
Automobiles entered.....number.....	143,049	127,153	43,939	131,511	112,574	49,102	111,642	98,523	44,873	483,537	411,055	367,660
Arrivals from abroad:												
Immigrants.....number.....	13,323	14,816		20,068	22,778	28,022	20,682	24,629	29,317	132,869	174,817	187,901
United States citizens.....number.....	38,822	69,957		37,636	70,783	85,946	32,974	63,191	80,233	297,611	290,036	270,426
Departures abroad:												
Immigrants.....number.....	4,818	5,245		5,086	5,571	5,150	7,804	6,488	8,093	32,077	35,183	47,214
United States citizens.....number.....	55,366	88,372		56,339	70,557	49,429	68,463	50,323	42,105	341,858	315,645	327,671

* Revised.

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
TRANSPORTATION—Continued												
Passenger Travel—Continued												
Passports issued.....number..	16,084	10,510	8,772	18,115	11,295	9,135	15,776	9,866	8,056	181,332	172,230	163,319
Pullman company operations:												
Revenue.....thous. of dolls..	6,485	7,128		7,230	7,927	7,483	7,279	7,593	7,297	53,019	55,872	54,619
Passengers carried.....thousands..	2,541	2,767		2,939	3,287	3,031	3,073	3,312	3,081	20,354	22,515	22,881
Trend of business in hotels:												
Room occupancy.....per ct. of capacity..	59	60	64	63	65	69	60	63	68			
Average sale per occupied room.....dollars..	3.86	3.96	3.82	3.94	4.13	4.02	3.98	4.09	3.98			
Warehouses												
Public merchandise warehouses, space occupied.....per ct. of total..	67.8	68.7		71.2	71.9	74.3	67.1	67.9	66.1			
PUBLIC UTILITIES												
Telephone companies:												
Operating revenues.....thous. of dolls..	76,850	76,279		75,141	75,898	75,606	67,676	68,784	68,432	623,744	597,370	540,570
Operating income.....thous. of dolls..	15,452	16,445		15,905	17,601	18,197	15,019	15,985	16,496	139,630	143,193	132,545
Telegraph companies:												
Commercial telegraph tolls.....thous. of dolls..	10,131	10,121		11,679	12,067	11,531	10,618	11,530	11,010	84,122	91,632	85,864
Operating revenues.....thous. of dolls..	13,090	12,965		14,843	15,316	14,751	13,376	14,328	13,911	107,817	116,069	107,348
Operating income.....thous. of dolls..	875	1,400		1,528	1,688	1,724	1,428	1,887	1,918	9,214	13,186	13,658
Gas and electric companies:												
Gross earnings.....thous. of dolls..	181,440	183,073		178,000	179,500	185,000	173,646	173,952	179,346	1,556,013	1,512,250	1,469,378
Net earnings.....thous. of dolls..	70,550	81,133		71,000	73,000	80,000	62,260	61,810	68,236	680,183	651,500	554,432
Electric railways (212 companies):												
Passengers carried.....thous. of persons..	655,477	646,750	646,036	722,289	724,812	704,818	728,849	736,223	717,810	6,342,723	6,824,911	6,917,365
ELECTRIC POWER												
Electric power production:												
Total.....mills. of kw. hours..	7,867	7,879		8,072	8,356	8,062	7,142	7,510	7,276	63,958	63,827	56,987
By water.....mills. of kw. hours..	2,859	2,493		3,055	2,837	2,473	3,071	3,036	2,787	23,774	24,028	23,487
By fuels.....mills. of kw. hours..	5,008	5,386		5,017	5,518	5,589	4,071	4,474	4,488	40,145	39,799	33,501
In street railways, manuf. plants, etc.....mills. of kw. hours..	541	526		368	390	350	381	382	355	4,054	3,075	3,516
In central stations.....mills. of kw. hours..	7,326	7,353		7,704	7,966	7,682	6,761	7,128	6,921	59,905	60,752	53,487
Electric power production (Canada):												
Total.....mills. of kw. hours..	1,415	1,403		1,411	1,445	1,477	1,248	1,314	1,280	11,717	11,425	10,309
By water.....mills. of kw. hours..	1,393	1,382		1,393	1,426	1,455	1,233	1,298	1,262	11,519	11,226	10,174
Exported.....mills. of kw. hours..	132	143		129	133	136	130	146	130	1,015	956	1,043
Electric power, gross revenue.....thous. of dolls..	167,000	168,100		162,300	166,200	170,800	146,600	148,600	156,100	1,413,800	1,367,400	1,235,099
Rate of manufacturing operations (based on the consumption of electrical energy for power purposes):												
Activity by geographical divisions—												
United States.....rel. to 1923-25..	105.1	105.3		129.0	128.2	135.8	120.2	120.8	134.5			
New England.....rel. to 1923-25..	87.9	87.1	88.1	113.4	108.7	118.2	102.4	102.2	115.3			
North Central.....rel. to 1923-25..	109.9	112.0	102.6	141.3	135.5	140.6	131.8	132.4	149.7			
Middle Atlantic.....rel. to 1923-25..	102.9	94.3	103.1	120.5	127.9	138.0	110.8	118.3	136.0			
Southern.....rel. to 1923-25..	106.5	110.2	120.1	114.7	132.7	126.3	112.0	112.8	127.5			
Western.....rel. to 1923-25..	129.0	125.0	133.0	129.4	127.0	143.1	116.5	127.5	150.8			
Activity by industries—												
All industries.....rel. to 1923-25..	105.1	105.3		129.0	128.2	135.8	120.2	120.8	134.5			
Chemical and allied products.....rel. to 1923-25..	104.6	135.7	147.1	127.0	125.0	139.9	128.5	119.2	132.0			
Food and kindred products.....rel. to 1923-25..	139.2	141.2	148.6	129.9	132.2	141.2	129.2	128.3	142.0			
Rolling mills and steel plants.....rel. to 1923-25..	109.7	112.0	110.3	144.4	150.9	152.3	121.2	125.4	141.2			
Metal working plants.....rel. to 1923-25..	95.1	95.2	97.4	144.4	134.6	147.4	126.3	125.8	144.2			
Metal groups.....rel. to 1923-24..	100.5	101.3	101.4	144.2	140.7	149.2	124.2	125.5	143.0			
Leather and its products.....rel. to 1923-25..	97.3	87.7	73.5	82.0	102.2	105.4	99.0	94.7	106.9			
Lumber and its products.....rel. to 1923-25..	100.0	81.3	97.7	103.2	102.3	111.4	108.8	111.6	111.3			
Paper and pulp.....rel. to 1923-25..	119.9	115.1	119.3	122.3	123.6	127.0	127.3	129.1	132.0			
Rubber and its products.....rel. to 1923-25..	103.8	110.5	107.2	136.7	120.2	133.7	135.3	138.4	151.2			
Shipbuilding.....rel. to 1923-25..	116.8	122.8	124.1	107.7	96.3	114.9	67.2	67.3	72.3			
Stone, clay, and glass.....rel. to 1923-25..	110.8	118.2	120.5	154.7	157.7	165.7	129.8	135.3	152.0			
Textiles.....rel. to 1923-25..	79.7	72.5	85.1	113.4	110.0	115.5	91.8	97.3	112.5			
Automobiles, including repair parts.....rel. to 1923-25..	75.3	86.6	88.4	139.5	143.0	138.1	143.7	143.2	161.0			
EMPLOYMENT AND WAGES												
Employment in factories:												
New York State.....rel. to 1923..	74.6	73.9	75.7	87.3	87.7	89.3	81.5	82.5	84.3			
Maryland.....rel. to 1924..	83.3	82.0	83.4	93.0	93.0	94.2	85.6	88.1	89.0			
Iowa.....rel. to 1923..	118.1	117.2		129.7	133.2	133.4	123.3	124.0	124.0			
Massachusetts.....rel. to 1925-27..	71.5	72.8	73.3	87.9	88.8	91.1	83.4	84.9	86.5			
Illinois.....rel. to 1925-27..	85.7	84.9		103.4	105.1	105.8	93.9	96.3	97.7			
Ohio.....rel. to 1926..	85.5	82.8	81.9	108.8	106.5	105.6	102.4	104.9	106.5			
Cleveland.....rel. to Jan., 1921..	99.4	96.1	92.0	124.2	125.0	124.0	111.3	113.8	114.5			
Detroit.....rel. to 1923-25..	48.0	83.0	74.8	131.0	127.0	119.0	123.5	132.7	134.0			
New York State.....number..	412,693	408,895	418,262	483,142	485,330	494,311	451,135	456,803	466,857			
Oklahoma.....number..	34,849	35,139	35,058	34,984	38,978	38,239	29,405	31,137	30,812			

* Revised.

† Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
EMPLOYMENT AND WAGES—Continued												
Total pay roll:												
New York State (weekly).....thous. of dolls.	11,717	11,631	12,061	14,398	14,599	15,063	13,149	13,411	13,862			
Oklahoma (weekly).....thous. of dolls.	971	958	944	965	1,074	1,015	793	877	865			
New York State.....rel. to 1923	77.7	77.2	80.0	95.5	96.8	99.9	87.2	89.0	92.0			
Illinois.....rel. to 1925-27	74.5	73.2	71.4	102.7	106.0	105.0	91.4	96.3	97.1			
Employment:												
Canada.....rel. to cal. year 1926	118.9	118.8	116.6	124.7	127.8	126.8	117.7	119.3	119.1			
Ohio construction.....rel. to 1926	98.8	95.4	89.6	115.0	120.9	115.0	123.5	138.4	136.3			
Employment, trade-unions:												
United States.....per cent of total	78.0	78.0	79.0	91.0	91.0	90.0	88.0	91.0	90.0			
Canada.....per cent of total	90.8	90.7		97.0	96.5	96.3	97.5	97.6	97.8			
Anthracite mines:												
Employment.....rel. to 1923-25	92.3	80.8	94.5	85.6	93.6	105.5	100.7	110.9	112.7			
Pay roll.....rel. to 1923-25	71.6	67.2	78.1	56.8	68.9	83.4	82.5	97.2	112.5			
Federal civilian employees, Washington, D. C., end month.....number	69,666	70,197	70,598	63,372	63,632	63,517	61,650	62,111	62,010			
Average weekly earnings, factories:												
Illinois.....dollars	26.27	26.45	26.43	28.16	28.57	28.26	27.45	29.13	28.31			
New York State.....dollars	28.40	28.45	28.84	29.80	30.08	30.47	29.15	29.39	29.72			
Wisconsin.....dollars	21.47	22.21	22.16	23.96	26.51	25.17	24.45	26.60	26.30			
Oklahoma.....dollars	27.85	27.27	26.92	27.57	27.55	26.50	26.97	28.15	28.07			
New York.....rel. to 1923	104.3	104.4	105.9	109.4	110.4	111.9	107.0	107.9	109.1			
Illinois.....rel. to 1925-1927	92.6	93.2	93.1	99.2	100.7	99.6	96.7	99.9	99.8			
Average weekly earnings (National Industrial Conference Board):												
Grand total (both sexes).....dollars	25.72	25.38	25.22	28.09	27.94	28.58	27.09	27.35	27.76			
Total male.....dollars	27.33	27.15	28.87	31.01	30.69	31.56	29.95	30.30	30.63			
Skilled male.....dollars	28.55	28.35	28.08	32.52	32.18	33.06	31.35	31.77	32.42			
Unskilled male.....dollars	22.26	22.30	21.93	25.23	25.09	25.82	24.69	24.78	25.27			
Total women.....dollars	15.88	15.71	15.27	17.54	17.47	17.81	17.07	17.04	17.33			
Average weekly hours:												
Nominal (both sexes).....hours	48.4	49.1	48.3	49.6	49.4	49.6	49.6	49.6	49.8			
Actual (both sexes).....hours	43.3	42.6	42.5	48.8	48.4	49.0	47.5	47.9	48.2			
Wages, road labor, by districts:												
New England.....cents per hour	49	50	50	49	51	51	47	48	48			
Middle Atlantic.....cents per hour	42	42	42	42	42	43	43	41	42			
South Atlantic.....cents per hour	25	28	23	30	30	29	27	34	24			
East South Central.....cents per hour	26	23	24	25	25	25	25	25	25			
West South Central.....cents per hour	26	26	27	30	30	31	27	29	26			
East North Central.....cents per hour	38	37	38	40	39	39	38	39	38			
West North Central.....cents per hour	36	36	37	36	37	37	36	38	39			
Mountain.....cents per hour	47	46	48	47	48	48	44	50	52			
Pacific.....cents per hour	53	53	53	53	52	53	53	53	54			
United States, average.....cents per hour	40	39	40	39	40	41	40	42	43			
Wage rates, U. S. Steel Corp.....cents per hour	50	50	50	50	50	50	50	50	50			
Wages, steel sheet workers.....per cent 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	198	177	170	131	124	114	137	129	107			
Eastern States.....number	231	214	181	139	136	121	151	223	120			
Central States.....number	221	204	222	141	135	132	150	132	126			
Southern States.....number	253	252	201	174	178	148	174	121	91			
Western States.....number	98	79	71	83	75	67	80	69	63			
Illinois.....number	262	234	230	148	137	136	151	138	130			
Wisconsin.....number	150	162	188	115	117	117	113	107	104			
Canada.....number	161	145		134	119	129	122	109	110			
Factory Labor Turnover												
(Percentage of number on pay roll)												
Departures:												
Total.....per cent (annual basis)	29.3	28.0	30.0	46.5	48.5	50.6	38.0	42.3	50.6			
Voluntary quits.....per cent (annual basis)	11.8	11.2	13.7	35.7	38.4	38.2	27.2	31.9	40.3			
Lay offs.....per cent (annual basis)	15.4	15.3	14.3	5.0	4.8	6.3	5.9	5.1	5.0			
Discharges.....per cent (annual basis)	2.1	1.5	2.0	5.8	5.3	6.1	4.9	5.3	5.3			
Accessions.....per cent (annual basis)	17.4	14.7	22.2	61.4	54.3	59.7	46.9	55.7	56.9			
Industrial disputes:												
Disputes.....number	* 33	32		53	43	49	42	42	34			
Workers involved.....number	* 5,911	8,634		15,589	6,714	8,132	132,187	105,760	62,862			
Man-days lost in month.....number	* 162,125	173,245		1,062,428	358,148	244,864	3,337,386	3,553,750	2,571,982			
DISTRIBUTION MOVEMENT												
Retail Sales												
Mail-order houses:												
Total sales, 2 houses.....thous. of dolls.	48,790	50,682	54,419	53,309	60,088	63,078	40,253	45,994	50,814	469,705	492,011	379,727
Sears, Roebuck & Co.....thous. of dolls.	30,121	29,715	33,086	33,501	35,133	36,950	26,276	28,986	30,004	278,562	298,312	231,365
Montgomery Ward & Co.....thous. of dolls.	18,669	20,967	21,333	19,808	24,955	26,128	13,977	17,008	20,810	191,153	193,699	148,362
Ten-cent chain stores:												
Total sales (4 chains).....thous. of dolls.	39,802	41,995	42,377	42,603	46,613	* 43,180	38,760	41,049	42,906	372,673	383,648	254,510
Total stores operated (4 chains).....number	2,967	2,988	3,002	2,767	2,787	2,816	2,526	2,552	2,586			
F. W. Woolworth & Co.....thous. of dolls.	20,737	22,055	22,353	22,521	24,446	* 22,264	20,587	21,812	22,637	196,459	205,041	190,310
Stores operated.....number	1,871	1,881	1,886	1,789	1,802	1,815	1,658	1,675	1,698			
S. S. Kresge Co.....thous. of dolls.	10,882	11,410	11,265	11,687	13,001	11,971	10,583	11,272	11,914	101,015	104,304	96,560
Stores operated.....number	645	656	655	542	547	560	460	468	474			
McCormick Stores Corp.....thous. of dolls.	3,123	3,406	3,278	3,300	3,853	3,582	2,951	3,115	3,344	29,218	29,761	26,901
Stores operated.....number	240	240	240	239	240	241	224	224	224			

* Revised.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
DISTRIBUTION MOVEMENT—Continued												
Retail Sales—Continued												
Ten-cent chain stores—Continued.												
S. H. Kress & Co.thous. of dolls..	5,061	5,125	5,478	5,095	5,317	5,363	4,639	4,850	5,011	45,980	44,548	41,739
Stores operated.....number..	211	211	211	197	198	200	184	185	190			
Metropolitan.....thous. of dolls..	1,258	1,226	-----	1,337	1,612	1,471	908	993	1,109	79,742	79,738	77,173
Stores operated.....number..	148	148	-----	123	131	134	96	97	100			
W. T. Grant Co.thous. of dolls..	4,818	5,385	5,286	4,524	5,066	4,777	3,731	3,996	4,708	45,499	41,237	33,726
Stores operated.....number..	305	309	318	244	252	258	193	191	199			
F. & W. Grand.....thous. of dolls..	1,669	1,669	1,663	1,635	1,731	1,731	1,205	1,236	1,443	14,871	14,245	10,297
Stores operated.....number..	305	309	318	244	252	258	193	191	199			
Isaac Silver & Bros.thous. of dolls..	598	608	566	649	719	679	462	460	512	5,568	5,214	4,066
Stores operated.....number..	45	45	45	41	43	43	26	26	29			
J. C. Penny Co.thous. of dolls..	13,602	14,397	15,956	14,566	16,493	18,245	11,734	12,877	16,478	130,421	132,390	112,843
Stores operated.....number..	1,438	1,440	1,446	1,217	1,292	1,337	953	982	1,006			
G. C. Murphy Co.thous. of dolls..	1,319	1,362	1,344	1,217	1,273	1,336	796	873	1,046	11,126	10,213	7,481
Stores operated.....number..	163	163	162	145	148	149	116	118	119			
Restaurant chains:												
Total sales (3 chains).....thous. of dolls..	4,501	4,642	4,642	4,821	5,151	5,005	4,280	4,577	4,591	42,915	44,059	41,172
Stores operated.....number..	379	379	380	372	369	367	369	369	366			
Childs Co., sales.....thous. of dolls..	2,050	2,173	2,136	2,259	2,478	2,400	2,012	2,217	2,191	19,878	20,602	19,584
Stores operated.....number..	113	113	113	114	113	112	116	116	113			
J. R. Thompson Co.thous. of dolls..	1,199	1,208	1,215	1,302	1,331	1,282	1,163	1,190	1,185	11,224	11,645	10,854
Stores operated.....number..	119	120	120	124	122	122	121	121	121			
Waldorf System (Inc.), sales.....thous. of dolls..	1,252	1,261	1,291	1,260	1,342	1,323	1,105	1,170	1,215	11,813	11,812	10,742
Stores operated.....number..	147	146	147	134	134	133	132	132	132			
Installment sales in New England dept. stores, ratio to total sales.....per cent..	6.6	-----	-----	6.7	12.5	7.6	5.7	12.1	8.2	-----	-----	-----
Advertising												
Magazine advertising.....thous. of lines..	1,986	1,658	2,145	2,338	1,959	2,536	2,171	1,770	2,287	-----	-----	-----
Magazine advertising, total cost.....thous. of dolls..	14,316	12,075	15,214	15,756	12,433	16,548	14,210	11,437	14,349	151,385	180,935	137,812
Newspaper advertising.....thous. of lines..	72,007	70,018	88,648	87,409	84,645	105,702	81,012	83,240	99,839	789,479	896,839	859,234
Radiobroadcast cost facilities.....thous. of dolls..	2,074	1,960	2,123	1,312	1,330	1,509	640	676	814	13,346	12,903	6,623
National advertising in newspapers:												
Total.....thous. of lines..	39,911	31,126	40,579	46,841	42,932	52,195	41,339	39,167	43,402	412,899	473,953	371,930
Passenger cars.....thous. of lines..	4,082	2,736	3,154	6,278	6,910	7,033	7,193	7,064	6,720	46,077	73,901	61,676
Tires, trucks, and accessories.....thous. of lines..	5,634	5,431	4,063	7,240	6,570	5,274	5,536	5,681	4,696	48,255	52,831	38,700
Financial.....thous. of lines..	6,446	3,755	5,112	8,525	6,155	7,374	6,648	4,796	5,821	56,255	69,669	55,053
Building materials.....thous. of lines..	117	99	216	274	279	757	342	400	811	2,733	5,609	4,997
Electrical appliances, supplies.....thous. of lines..	739	459	685	1,052	851	1,550	822	887	895	9,302	10,993	7,621
Foods and beverages.....thous. of lines..	6,428	5,898	6,618	6,421	5,716	6,258	6,640	5,802	5,678	65,484	59,624	51,979
Heating and plumbing equipment.....thous. of lines..	401	484	979	291	388	737	352	476	979	4,627	4,440	4,185
Medical.....thous. of lines..	1,853	1,760	2,382	2,288	2,136	3,007	2,232	2,214	2,920	33,153	39,856	30,748
Radio.....thous. of lines..	927	1,049	3,584	2,413	2,887	6,037	634	1,009	3,759	12,725	23,616	10,452
Tobacco.....thous. of lines..	3,742	1,760	5,633	2,416	2,041	3,152	2,520	2,709	2,066	36,092	30,854	24,482
Toilet requisites.....thous. of lines..	2,985	2,055	1,841	2,498	2,316	2,963	2,250	1,949	2,139	27,000	27,133	20,861
Transportation.....thous. of lines..	3,130	2,323	1,689	3,625	3,041	2,271	2,946	2,467	1,734	24,722	27,466	21,308
All other.....thous. of lines..	3,427	3,318	4,623	3,520	3,644	5,783	3,224	3,715	5,245	46,478	48,006	39,874
Postal Business												
Postal receipts:												
50 selected cities.....thous. of dolls..	26,761	25,876	28,764	29,069	29,251	30,549	26,508	27,951	23,261	267,502	269,932	271,463
50 industrial cities.....thous. of dolls..	3,157	3,132	3,160	3,189	3,289	3,303	2,956	3,115	3,074	29,966	29,964	29,453
Money orders:												
Domestic issued (50 cities)—Quantity.....thousands..	3,436	3,285	3,415	3,602	3,510	3,407	3,180	3,165	2,879	32,867	32,682	30,004
Value.....thous. of dolls..	34,672	33,363	33,923	37,120	37,027	35,916	32,812	32,886	32,382	327,222	331,946	305,520
Domestic paid (50 cities)—Quantity.....thousands..	10,197	9,681	9,758	10,741	10,862	10,328	9,627	10,183	9,748	96,230	100,640	96,127
Value.....thous. of dolls..	81,800	77,670	79,174	86,573	88,806	86,974	76,227	81,180	79,877	752,404	784,575	742,599
Air mail, weight dispatched.....pounds..	693,627	698,305	-----	645,653	701,538	658,984	214,558	419,047	423,991	5,232,899	4,482,652	1,686,580
BANKING AND FINANCE												
Banking												
Bank debits:												
New York City.....mills. of dolls..	29,600	25,052	27,383	49,215	49,034	50,342	35,685	35,102	38,725	302,368	446,309	356,825
Outside of New York City.....mills. of dolls..	23,171	20,966	21,277	28,444	28,339	27,314	23,897	23,401	24,456	211,095	244,620	222,961
Canada.....mills. of dolls..	1,613	1,464	1,514	2,108	1,937	1,884	1,896	1,813	1,681	14,328	17,505	16,732
Federal reserve banks:												
Bills discounted.....mills. of dolls..	197	231	186	1,076	974	931	1,086	1,039	1,026	-----	-----	-----
Notes in circulation.....mills. of dolls..	1,335	1,368	1,376	1,779	1,829	1,851	1,613	1,651	1,704	-----	-----	-----
Total investments.....mills. of dolls..	714	781	801	232	328	484	378	394	545	-----	-----	-----
Total reserve.....mills. of dolls..	3,178	3,086	3,128	3,109	3,149	3,141	2,756	2,765	2,751	-----	-----	-----
Total deposits.....mills. of dolls..	2,469	2,454	2,457	2,398	2,348	2,471	2,402	2,325	2,414	-----	-----	-----
Reserve ratio.....per cent..	83.5	80.5	81.6	74.4	75.4	72.7	68.6	69.5	66.8	-----	-----	-----
Federal reserve member banks:												
Total loans and discounts.....mills. of dolls..	16,945	16,830	17,013	17,058	16,950	17,428	15,861	15,729	15,952	-----	-----	-----
Total investments.....mills. of dolls..	6,291	6,338	6,454	5,549	5,456	5,401	6,589	6,405	6,401	-----	-----	-----
Net demand deposits.....mills. of dolls..	13,798	13,629	13,812	13,395	12,985	13,295	13,186	12,871	13,226	-----	-----	-----

* Revised.

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BANKING AND FINANCE—Con.												
Banking—Continued												
Brokers' loans, end of month—												
To N. Y. Stock Ex., members—												
Total.....mills. of dolls.	3,689	3,599	3,481	7,474	7,882	8,549	4,837	5,051	5,513			
Ratio to market value, per cent.	5.49	5.31	5.79	9.16	8.79	9.82	9.00	8.80	9.29			
By New York F. R. member												
banks.....mills. of dolls.	3,228	3,110	3,063	5,960	6,217	6,804	4,259	4,235	4,570			
Deposits, New York State savings												
banks, end of month.....mills. of dolls.	4,572	4,591	4,662	4,434	4,426	4,457	4,283	4,299	4,352			
Interest rates:												
Time loans, 90 days.....per cent.	2.75	2.63	2.63	7.75	8.88	8.88	6.00	6.25	7.00			
Call loans, renewal.....per cent.	2.20	2.21	2.19	9.23	8.23	8.50	6.05	6.87	7.26			
Prime com. paper												
(4-6 mos.).....per cent.	3.25	3.00	3.00	6.00	6.13	6.25	5.13	5.38	5.63			
Prime bankers' acceptances.....per cent.	1.88	1.88	1.88	5.13	5.13	5.13	4.25	4.63	4.50			
N. Y. Fed. Res. Bank (redis.).....per cent.	2.50	2.50	2.50	5.00	6.00	6.00	5.00	5.00	5.00			
Federal land banks.....per cent.	5.61	5.63	5.63	5.29	5.31	5.44	5.04	5.04	5.04			
Intermediate credit banks.....per cent.	4.17	4.13	4.06	5.67	5.67	5.67	4.63	4.84	5.12			
Public Finance												
Government debt, gross, end mo.....mills. of dolls.	16,176	16,188	16,081	16,832	16,805	16,720	17,526	17,648	17,367			
Customs receipts.....thous. of dolls.	26,200	32,083	36,655	52,144	56,427	52,612	44,591	52,797	50,410	379,724	461,667	411,520
Total ordinary receipts.....thous. of dolls.	138,741	127,388	602,811	169,473	174,502	670,736	154,859	173,495	557,398	2,969,342	3,180,322	2,938,160
Expenditures chargeable to ordinary receipts.....thous. of dolls.	284,310	224,117	308,221	349,825	210,725	399,068	278,620	308,594	482,600	2,824,905	2,771,967	2,788,904
U. S. money in circulation:												
Daily average.....mills. of dolls.	4,483	4,476	4,492	4,764	4,777	4,811	4,746	4,743	4,804			
Gold and Silver												
Gold:												
Domestic receipts at mint.....fine ounces	115,119	112,395	125,871	92,256	100,387	77,029	72,676	98,769	83,247	832,338	660,665	679,661
Rand output.....fine ounces	912,000	921,000	907,880	889,480	889,601	849,553	867,211	891,863	857,731	8,003,058	7,812,649	7,728,631
Monetary stock of U. S.—												
daily average.....mills. of dolls.	4,532	4,496	4,503	4,335	4,351	4,368	4,113	4,118	4,125			
Imports.....thous. of dolls.	21,889	19,714	13,671	35,525	19,271	18,781	10,331	2,445	4,273	287,473	255,084	100,026
Exports.....thous. of dolls.	41,529	39,332	11,135	807	881	1,205	74,190	1,698	3,810	101,659	9,942	535,216
Silver:												
Production—												
United States.....thous. of fine oz.	3,551	3,835	3,717	4,523	5,006	4,634	3,915	4,776	4,087	38,904	44,663	42,768
Canada.....thous. of fine oz.	2,100	2,685	3,486	1,910	2,744	2,437	2,389	2,252	2,177	17,701	15,388	15,003
Stocks, end of month—												
United States.....thous. of fine oz.	459	677	813	682	1,074	1,112	262	263	872			
Canada.....thous. of fine oz.	312	410	341	339	880	914	436	720	1,457			
Imports.....thous. of dolls.	3,953	3,492	3,461	4,723	7,345	4,111	6,544	6,496	5,739	34,179	48,913	50,232
Exports.....thous. of dolls.	3,709	4,544	3,903	6,795	8,522	4,374	6,160	9,246	6,229	42,158	61,046	63,966
Price at New York.....dolls. per fine oz.	.343	.352	.363	.525	.526	.510	.502	.589	.575			
Business Failures												
Liabilities (United States):												
Total commercial.....thous. of dolls.	39,826	49,181	46,947	32,426	33,746	34,125	29,587	58,202	33,957	473,042	332,427	373,194
Manufacturers.....thous. of dolls.	13,369	22,735	16,448	12,767	13,857	14,914	12,932	16,877	14,727	181,265	127,218	135,759
Trade establishments.....thous. of dolls.	21,572	17,829	19,311	14,605	16,602	16,660	12,899	19,096	13,567	201,265	165,596	171,876
Agents and brokers.....thous. of dolls.	4,887	8,617	11,188	5,053	3,888	2,551	3,755	22,229	5,662	96,515	19,615	65,558
Banks (quarterly).....thous. of dolls.	81,712		73,877	54,458		74,180	28,953		20,810	207,268	166,147	86,565
Liabilities (Canada).....thous. of dolls.	2,997	2,939	2,664	2,592	1,393	2,457	1,402	2,584	2,632	33,312	22,333	27,681
Firms (United States):												
Total commercial.....number	2,028	1,913	1,963	1,752	1,762	1,568	1,723	1,852	1,635	19,675	17,254	18,038
Manufacturers.....number	425	566	434	461	482	427	450	493	454	4,794	4,484	4,379
Trade establishments.....number	1,481	1,234	1,395	1,190	1,163	1,039	1,161	1,241	1,073	13,688	11,696	12,576
Agents and brokers.....number	122	113	134	101	117	162	112	112	108	1,243	1,074	1,077
Banks (quarterly).....number	134		102	148		81	92		55	360	310	256
Firms (Canada).....number	183	167	175	180	132	164	123	136	119	1,718	1,472	1,327
By groups:												
Manufacturers—												
Metals.....number	45	33	30	39	35	29	31	36	35	331	317	334
Textiles.....number	51	55	53	63	48	48	61	59	74	597	514	560
Lumber.....number	81	98	65	88	102	77	69	60	73	839	747	664
Chemicals.....number	11	14	9	6	11	8	5	4	8	93	99	66
Printing and engraving.....number	20	19	16	15	11	10	16	22	6	159	140	134
Foodstuffs.....number	37	29	35	31	34	38	47	51	24	353	361	374
Leather, etc.....number	10	21	14	10	4	11	18	8	15	113	110	117
Liquors and tobacco.....number	1	11	8	7	6	3	3	6	4	43	59	51
Stone, clay, and glass.....number	9	7	7	9	6	9	5	10	3	77	74	74
All other.....number	160	279	197	193	225	194	195	237	212	2,189	1,963	2,005
Traders—												
General stores.....number	83	67	93	68	72	60	77	54	60	847	770	751
Foods and tobacco.....number	403	329	341	406	399	363	387	423	376	3,461	3,724	3,797
Clothing.....number	268	270	257	201	163	168	202	210	168	2,749	2,020	2,478
Household furniture.....number	235	204	247	180	179	127	179	171	187	2,481	2,049	2,202
Chemicals and paints.....number	73	78	98	54	64	54	55	71	43	779	547	598
Books and paper.....number	21	11	12	5	15	11	14	11	13	119	111	115
All other.....number	398	275	347	276	271	256	247	307	226	3,202	2,475	2,632

* Revised.

* Quarter ending in month indicated.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BANKING AND FINANCE—Con.												
Life Insurance												
<i>(Association of Life Insurance Presidents)</i>												
Policies and certificates, new (44 companies):												
Ordinary.....number of policies..	270,285	245,110	228,764	273,099	273,484	245,042	249,738	245,081	214,010	2,467,444	2,398,492	2,173,285
Industrial.....number of policies..	896,318	804,504	721,848	809,110	795,451	805,623	753,773	740,371	770,416	7,885,969	8,132,278	7,723,607
Group.....number of certificates..	74,171	38,851	45,713	72,923	40,622	21,799	38,905	24,605	52,943	442,298	414,946	369,888
Total policies and certificates.....number..	1,240,774	1,085,465	996,325	1,155,132	1,109,557	1,072,464	1,042,416	1,010,057	1,037,369	10,792,711	10,945,716	10,266,780
Amount of new insurance (44 companies):												
Ordinary.....thous. of dolls..	714,748	622,075	545,481	722,451	698,196	608,869	660,062	626,594	534,112	6,552,079	6,548,857	6,061,771
Industrial.....thous. of dolls..	247,506	233,745	210,423	223,680	219,144	221,006	194,642	193,365	198,949	2,170,066	2,174,377	2,009,999
Group.....thous. of dolls..	130,036	73,188	138,492	147,658	99,773	75,151	74,196	56,926	277,943	850,752	833,293	986,310
Total insurance.....thous. of dolls..	1,092,290	929,008	894,396	1,093,789	1,017,113	905,026	928,900	876,885	1,011,004	9,572,897	9,556,527	9,063,080
Premium collections (44 companies):												
Ordinary.....thous. of dolls..	170,847	150,754	-----	169,773	154,206	143,078	152,862	143,386	135,743	1,347,411	1,326,414	1,246,918
Industrial.....thous. of dolls..	54,602	58,961	-----	57,932	56,143	56,773	53,072	50,228	49,343	746,547	743,783	741,454
Group.....thous. of dolls..	8,480	6,508	-----	11,494	7,129	6,485	7,296	5,705	5,738	764,316	776,108	762,139
Annuities.....thous. of dolls..	7,047	5,797	-----	-----	-----	-----	-----	-----	-----	755,189	-----	-----
Total.....thous. of dolls..	240,976	222,020	-----	239,199	217,478	206,336	213,230	199,319	190,824	1,932,353	1,842,305	1,720,511
Admitted life insurance assets (40 companies):												
Grand total.....mills. of dolls..	14,837	14,926	-----	13,594	13,691	13,798	12,312	12,406	12,510	-----	-----	-----
Mortgage loans—												
Total.....mills. of dolls..	6,200	6,213	-----	5,849	5,887	5,925	5,338	5,382	5,429	-----	-----	-----
Farm.....mills. of dolls..	1,572	1,571	-----	1,607	1,600	1,600	1,601	1,602	1,604	-----	-----	-----
All other.....mills. of dolls..	4,628	4,642	-----	4,242	4,287	4,325	3,737	3,780	3,825	-----	-----	-----
Bonds and stocks (book value):												
Total.....mills. of dolls..	5,582	5,616	-----	5,171	5,188	5,208	4,665	4,704	4,718	-----	-----	-----
Government.....mills. of dolls..	1,079	1,085	-----	1,048	1,062	1,070	916	927	930	-----	-----	-----
Railroad.....mills. of dolls..	2,617	2,621	-----	2,517	2,526	2,527	2,397	2,411	2,406	-----	-----	-----
Public utility.....mills. of dolls..	1,450	1,473	-----	1,267	1,274	1,281	1,128	1,138	1,151	-----	-----	-----
All other.....mills. of dolls..	436	437	-----	339	326	330	224	228	231	-----	-----	-----
Policy loans and premium notes.....mills. of dolls..	2,018	2,041	-----	1,670	1,688	1,707	1,472	1,486	1,497	-----	-----	-----
<i>(Life Insurance Sales Research Bureau)</i>												
Sales of ordinary life insurance:												
United States total.....thous. of dolls..	779,184	685,864	603,102	796,900	765,702	677,104	700,939	702,275	578,193	7,144,857	7,165,313	6,563,545
Eastern manuf. district.....thous. of dolls..	319,321	275,228	238,909	319,437	300,810	261,657	273,188	273,055	218,788	2,958,080	2,941,392	2,681,717
Western manuf. district.....thous. of dolls..	172,695	153,052	136,170	182,763	177,990	161,222	163,694	163,568	136,379	1,606,175	1,656,175	1,461,681
Western agric. district.....thous. of dolls..	114,929	99,276	89,779	121,224	116,749	104,534	107,659	104,287	90,916	1,031,044	1,042,626	994,973
Southern district.....thous. of dolls..	89,284	80,858	69,724	90,954	90,526	77,810	85,056	86,288	71,371	802,039	807,844	779,978
Far western district.....thous. of dolls..	82,955	77,450	68,520	82,522	79,627	71,881	71,342	75,077	60,739	747,519	717,276	645,196
Canada total, 15 companies.....thous. of dolls..	47,829	37,061	39,643	56,078	42,468	43,911	49,492	43,503	38,872	425,295	449,719	413,419
Dividend and Interest Payments												
Grand total.....thous. of dolls..	915,900	423,500	524,100	897,856	410,500	* 530,200	748,704	335,800	413,250	6,145,270	5,559,801	4,402,864
Interest payments.....thous. of dolls..	542,900	227,000	296,000	515,156	201,000	292,000	466,704	182,000	262,000	3,200,471	3,009,201	2,697,754
Dividend payments:												
Total.....thous. of dolls..	373,000	196,500	228,100	382,700	209,500	* 238,200	282,000	153,800	151,250	2,944,800	2,550,600	1,705,110
Industrial and misc. thous. of dolls..	278,000	152,900	183,900	284,500	165,000	* 191,000	200,500	112,100	121,100	2,206,300	1,882,000	1,250,580
Steam railroads.....thous. of dolls..	54,000	36,900	29,900	55,000	37,600	* 31,100	43,900	35,200	23,400	381,300	344,300	288,480
Street railways.....thous. of dolls..	12,500	6,700	6,800	13,100	6,900	7,100	12,600	6,500	6,750	86,700	84,600	86,050
New Security Issues												
Foreign loans in U. S.....thous. of dolls..	* 73,738	* 19,680	59,650	41,708	25,250	13,197	45,303	577	108,949	973,674	558,489	1,205,264
Foreign governments.....thous. of dolls..	42,100	2,680	52,900	-----	15,000	8,000	41,396	-----	43,500	472,386	64,750	586,370
Total corporation.....thous. of dolls..	428,762	189,866	346,887	862,847	788,222	* 1,507,876	323,748	201,426	428,184	4,929,986	8,722,028	5,389,416
Purpose of issue—												
New capital.....thous. of dolls..	402,281	121,516	284,570	803,553	763,177	* 1,201,234	284,803	182,716	391,158	4,474,762	7,473,588	3,826,501
Refunding.....thous. of dolls..	26,481	68,350	62,317	59,294	25,045	306,592	38,945	18,710	37,026	455,224	1,255,440	1,562,915
Type of security—												
Stocks.....thous. of dolls..	70,430	57,673	61,775	650,604	670,090	* 1,265,887	208,211	73,892	172,047	1,446,197	6,119,916	2,084,894
Bonds and notes.....thous. of dolls..	358,332	132,193	285,112	212,243	118,132	241,989	115,537	127,534	256,137	3,483,789	2,602,112	3,304,523
Class of industry:												
Railroads.....thous. of dolls..	62,632	41,516	76,254	27,580	660	81,520	18,874	13,726	-----	999,687	561,009	544,631
Public utilities.....thous. of dolls..	234,465	48,071	172,243	319,796	108,910	380,291	57,598	97,776	202,239	2,255,059	2,163,126	2,054,579
Industrial.....thous. of dolls..	45,920	84,714	10,273	127,621	91,282	280,078	96,810	32,989	98,234	736,855	1,764,171	1,055,112
Oil.....thous. of dolls..	625	-----	-----	17,639	2,105	51,000	15,030	-----	-----	239,074	230,015	95,027
Land and buildings.....thous. of dolls..	22,070	3,101	15,615	41,269	35,503	6,501	64,538	30,256	57,517	191,302	471,497	606,501
Shipping and misc. thous. of dolls..	63,050	9,363	72,501	328,944	549,763	* 708,487	75,374	26,678	70,194	448,510	3,416,983	1,007,536
States and municipalities:												
Permanent loans.....thous. of dolls..	111,657	* 98,514	72,603	86,745	80,415	100,257	75,886	78,445	70,170	1,037,496	967,543	1,001,621
Temporary loans.....thous. of dolls..	153,068	* 26,406	49,801	59,321	86,164	95,978	57,014	63,543	73,419	686,248	696,666	593,562
Bond sales (Canada):												
Government and provincial.....thous. of dolls..	1,000	7,150	20,150	-----	-----	8,257	-----	-----	9,733	118,436	68,466	59,503
Municipal.....thous. of dolls..	12,930	2,365	8,485	1,537	1,449	3,760	975	964	260	95,334	67,744	17,370
Corporation.....thous. of dolls..	3,475	35,875	4,345	39,525	693	5,147	9,565	4,095	11,980	161,950	159,793	222,724
Tax-exempt securities outstanding, end of month.....mills. of dolls..	19,848	* 19,873	19,814	17,531	17,635	* 18,255	16,845	16,865	16,897	-----	-----	-----

* Revised.

* Cumulative through Aug. 31.

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
BANKING AND FINANCE—Con.												
Agricultural Finances												
Loans outstanding, end mo.:												
Federal farm loan banks.....thous. of dolls.	1,191,949	1,191,212	1,190,270	1,204,363	1,203,806	1,202,490	1,185,714	1,187,365	1,189,345			
Joint-stock land banks.....thous. of dolls.	567,010	564,933	562,747	596,403	594,876	593,388	608,314	608,706	608,451			
Federal intermediate credit banks.....thous. of dolls.	111,244	122,697	123,336	68,981	68,882	72,204	67,815	66,978	68,619			
Stocks and Bonds												
Stock prices, average daily closing:												
25 industrials, average.....dolls. per share.	282.64	282.81	282.92	414.04	431.20	448.78	257.98	267.16	283.99			
25 railroads, average.....dolls. per share.	113.69	110.38	110.16	149.27	151.29	152.26	119.18	121.57	124.82			
Southern cotton mills.....dolls. per share.	71.92	68.96	65.70	92.45	90.41	89.37	108.17	104.82	103.31			
103 stocks, average.....dolls. per share.	56.98	55.92	47.40	80.25	90.35	82.47	73.30	76.59	78.49			
Stock prices, average weekly closing:												
Industrials, rails, and utilities (402).....rel. to 1926.	149.3	147.6	148.8	190.7	207.2	218.1	144.2	148.3	156.6			
All industrials (335).....rel. to 1926.	139.8	138.7	139.3	202.7	210.3	216.1	147.8	152.6	162.2			
All railroads (33).....rel. to 1926.	124.2	121.2	122.6	160.0	165.4	168.1	124.6	126.5	129.6			
All utilities (34).....rel. to 1926.	215.4	212.7	216.4	272.8	304.3	321.0	145.3	147.9	155.8			
Automobiles and trucks (13).....rel. to 1926.	132.2	134.1	132.5	241.0	240.8	240.9	238.4	244.7	270.0			
Automobile tires and rubber goods (7).....rel. to 1926.	76.8	72.0	65.5	184.9	169.5	163.4	113.3	119.3	127.6			
Airplane (10).....rel. to 1926.	405.7	400.9	391.1	1,131.0	1,130.0	994.4	565.2	591.5	693.7			
Agricultural implements (4).....rel. to 1926.	285.5	268.5	265.3	418.0	423.9	444.8	263.9	281.7	301.3			
Chain stores (17).....rel. to 1926.	88.7	90.1	95.6	148.0	148.7	154.6	135.3	142.9	150.5			
Copper and brass (9).....rel. to 1926.	129.1	121.3	114.4	280.8	228.9	294.4	150.0	155.2	172.0			
Food, other than meat (20).....rel. to 1926.	149.4	147.2	149.8	189.1	186.7	191.1	152.1	158.1	167.1			
Machinery and machine equipment (10).....rel. to 1926.	154.5	152.3	154.1	171.8	177.2	191.4	132.7	135.4	139.4			
Oil producing and refining (16).....rel. to 1926.	132.9	129.7	125.4	149.1	157.5	166.7	110.9	112.6	115.7			
Railroad equipment (9).....rel. to 1926.	94.3	93.4	95.6	148.5	157.8	157.6	125.1	123.6	129.5			
Rayon (5).....rel. to 1926.	72.0	65.8	71.4	126.6	126.2	119.8	107.0	105.1	160.7			
Steel and iron (9).....rel. to 1926.	159.1	160.4	161.5	211.5	238.4	243.9	136.6	143.6	155.8			
Textiles (30).....rel. to 1926.	67.1	66.0	67.2	120.3	118.1	114.1	120.3	120.5	125.9			
Theaters, motion pictures, and amusements (7).....rel. to 1926.	111.9	106.1	112.4	139.0	142.5	145.2	111.0	116.6	135.1			
Tobacco and tobacco products (10).....rel. to 1926.	146.6	149.2	152.6	139.1	141.6	141.5	134.3	137.6	142.5			
Traction, motor transportation, etc. (9).....rel. to 1926.	74.1	72.7	74.6	83.0	83.1	84.7	96.0	95.7	99.5			
Stock yields:												
Total common (90).....per cent.	4.44	4.42	4.33	3.16	3.01	2.92	4.14	4.01	3.78			
Industrial (50).....per cent.	4.77	4.69	4.60	3.36	3.26	3.19	4.11	3.96	3.72			
Public utilities (20).....per cent.	3.04	3.12	3.04	1.95	1.78	1.69	3.48	3.39	3.14			
Railroads (20).....per cent.	5.41	5.50	5.45	4.17	4.04	3.96	5.14	5.08	4.98			
Preferred high grade industrial (20).....per cent.	5.56	5.53	5.48	5.52	5.54	5.52	5.40	5.43	5.41			
Stocks sold, N. Y. Stock Exchange.....thous. of shares.	46,753	39,869	53,545	93,379	95,705	100,056	39,001	67,704	90,907	649,293	827,006	613,202
Bond sales:												
Miscellaneous.....thous. of dolls.	183,716	167,584	221,327	295,577	251,287	210,995	183,815	173,561	190,582	2,008,537	2,028,340	2,155,943
Liberty-Treasury.....thous. of dolls.	10,112	4,951	9,631	13,330	8,510	9,267	25,240	9,988	10,467	84,611	95,201	138,850
Total.....thous. of dolls.	193,828	172,535	230,958	308,907	259,797	220,262	209,055	183,549	201,049	2,093,147	2,123,541	2,294,793
Bond prices:												
Highest-grade rails.....p. ct. of par. 4% bond.	92.83	94.25	95.83	86.06	85.93	85.51	90.62	89.66	91.05			
Second-grade rails.....p. ct. of par. 4% bond.	85.09	86.94	88.32	78.55	77.25	77.64	83.09	80.99	82.51			
Public utility.....p. ct. of par. 4% bond.	74.99	76.82	79.49	73.25	73.14	73.13	79.47	79.08	79.51			
Industrial.....p. ct. of par. 4% bond.	75.43	76.33	76.13	75.24	74.54	73.84	77.74	77.97	78.18			
Comb. price index.....p. ct. of par. 4% bond.	81.43	82.93	84.26	77.99	77.43	77.23	82.45	81.68	82.53			
Bond prices, 1st of following month:												
5 Liberty bonds.....p. ct. of par.	105.44	105.23	105.84	100.64	100.61	100.34	103.20	103.88	103.11			
50 domestic bonds.....p. ct. of par.	99.81	100.41	100.96	96.82	96.51	96.34	99.09	99.48	99.57			
40 representative issues.....p. ct. of par.	91.12	90.99	88.25									
Bond yields:												
Total, 60 high grade.....per cent.	4.49	4.43	4.41	4.73	4.74	4.76	4.54	4.59	4.57			
Railroads (15).....per cent.	4.36	4.29	4.25	4.67	4.67	4.71	4.44	4.49	4.43			
Industrials (15).....per cent.	4.92	4.87	4.85	5.09	5.09	5.12	4.95	4.96	4.95			
Utilities (15).....per cent.	4.63	4.59	4.55	4.90	4.89	4.90	4.68	4.73	4.73			
Municipal (15).....per cent.	4.05	3.97	3.97	4.28	4.31	4.32	4.13	4.16	4.17			
Municipal bond yield (20).....per cent.	4.08	4.01	3.97	4.41	4.41	4.49	4.13	4.18	4.16			
U. S. Treasury notes and certificates, 3-6 months.....per cent.	1.83	1.53	1.84	4.55	4.70	4.58	4.12	4.36	4.57			
Liberty and Treasury bonds.....per cent.	3.37	3.38	3.37	3.68	3.72	3.70	3.50	3.56	3.54			
Long-term and real-estate bonds issued:												
Grand total.....thous. of dolls.	16,425	1,938	13,890	36,790	28,403	5,338	48,495	21,947	52,116	124,497	298,680	518,089
Purpose of issue—												
Finance construction.....thous. of dolls.	10,725	300	1,475	24,660	16,108	950	18,581	9,970	4,460	52,821	113,500	194,510
Real-estate mortgage.....thous. of dolls.	2,590	1,388	165	4,556	8,485	188	24,079	5,590	32,955	14,543	77,438	178,329
Acquisitions and improvements.....thous. of dolls.	480		10,500	2,390	105	200	1,510	3,252	530	18,990	52,805	49,758
Kind of structure—												
Office and commercial.....thous. of dolls.	3,395	250	2,300	24,860	9,875	880	9,786	4,785	2,510	49,763	98,185	162,671
Hotels.....thous. of dolls.	1,400	675	600	1,175	9,995		4,020	2,200	400	4,173	25,230	34,560
Apartments.....thous. of dolls.	10,050			1,582	1,588	215	4,600	3,145	270	21,335	15,652	30,279
Interest rates.....per cent.	5.99	5.46	5.89	6.09	6.03	6.14	5.86	5.76	5.79			

TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through August, 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 SEPTEMBER 30		
	July	August	September	July	August	September	July	August	September	1930	1929	1928
FOREIGN EXCHANGE RATES												
Europe:												
England.....dolls. per £ sterling..	4.87	4.87	4.86	4.85	4.85	4.85	4.86	4.85	4.85			
France.....dolls. per franc.....	.039	.039	.039	.039	.039	.039	.039	.039	.039			
Italy.....dolls. per lira.....	.052	.052	.052	.052	.052	.052	.052	.052	.052			
Belgium.....dolls. per franc.....	.140	.140	.140	.139	.139	.139	.139	.139	.139			
Netherlands.....dolls. per guilder..	.402	.403	.403	.401	.401	.401	.403	.401	.401			
Sweden.....dolls. per krone.....	.269	.269	.269	.268	.268	.268	.268	.268	.268			
Switzerland.....dolls. per franc.....	.194	.194	.194	.192	.192	.193	.193	.193	.193			
Asia:												
Japan.....dolls. per yen.....	.494	.494	.494	.456	.467	.473	.459	.451	.458			
India.....dolls. per rupee.....	.361	.360	.360	.360	.360	.360	.363	.363	.363			
America:												
Canada.....dolls. per Canadian doll..	1.001	1.001	1.001	.995	.994	.992	.998	1.000	1.000			
Argentina.....dolls. per gold peso.....	.821	.825	.818	.954	.954	.953	.961	.959	.957			
Brazil.....dolls. per milreis.....	.109	.100	.101	.119	.119	.119	.119	.119	.119			
Chile.....dolls. per paper peso.....	.121	.121	.121	.120	.121	.121	.121	.121	.121			
U. S. FOREIGN TRADE												
Imports												
Grand total.....thous. of dolls..	220,494	218,359	226,312	352,981	369,358	351,304	317,848	346,715	319,618	2,401,150	3,360,018	3,070,113
By grand divisions:												
Europe—												
Total.....thous. of dolls..	62,046	63,495	-----	115,113	109,759	120,056	95,596	107,793	102,315	763,954	788,320	7805,114
France.....thous. of dolls..	7,857	8,806	-----	14,590	14,028	17,462	11,321	15,075	13,783	75,768	7109,296	798,553
Germany.....thous. of dolls..	12,724	14,334	-----	22,806	22,731	21,800	20,668	21,023	18,661	122,580	7171,560	7143,954
Italy.....thous. of dolls..	4,618	4,546	-----	8,487	7,660	9,407	6,956	6,876	6,548	56,275	772,761	763,629
United Kingdom.....thous. of dolls..	13,901	13,840	-----	27,975	25,920	28,987	28,103	27,535	26,373	148,489	7223,517	7231,282
North America—												
Total.....thous. of dolls..	57,515	55,129	-----	79,393	82,242	76,942	77,533	78,216	76,926	530,966	7683,995	7644,309
Canada.....thous. of dolls..	30,265	29,286	-----	44,092	43,751	42,257	41,798	43,254	42,209	278,865	7335,855	7317,121
South America—												
Total.....thous. of dolls..	30,248	26,280	-----	46,630	51,624	45,387	45,894	51,043	37,560	318,045	7442,692	7399,063
Argentina.....thous. of dolls..	3,931	3,341	-----	7,396	7,818	6,734	8,119	8,975	6,313	60,966	778,493	774,120
Asia and Oceania—												
Total.....thous. of dolls..	65,281	68,789	-----	104,987	114,589	102,504	89,788	100,880	97,554	635,438	7921,088	7834,296
Japan.....thous. of dolls..	17,147	25,249	-----	28,885	40,254	39,973	24,888	38,993	33,741	178,481	7270,874	7250,581
Africa, total.....thous. of dolls..	5,354	4,696	-----	6,857	11,144	6,415	7,037	8,782	5,263	51,713	780,618	764,711
By economic classes:												
Crude materials.....thous. of dolls..	69,585	72,611	75,404	119,038	125,817	122,062	106,065	122,186	110,289	796,350	1,195,010	1,122,851
Foodstuffs, crude and food animals.....thous. of dolls..	29,310	26,598	27,582	42,957	39,357	40,700	43,174	45,940	37,207	310,489	409,510	417,960
Manufactured foodstuffs.....thous. of dolls..	19,669	17,211	20,588	32,900	35,558	32,327	33,314	30,060	33,771	226,420	335,477	310,544
Semimanufactures.....thous. of dolls..	44,688	44,141	40,970	71,833	79,725	70,609	60,038	66,337	63,455	486,122	674,842	557,761
Finished manufactures.....thous. of dolls..	57,242	57,798	61,767	86,163	88,901	85,606	75,258	82,192	74,906	581,768	743,178	661,008
Exports												
Grand total, including reexports.....thous. of dolls..	266,619	298,118	318,000	402,902	380,758	437,671	378,984	379,006	421,607	2,959,169	3,844,250	3,557,586
By grand divisions:												
Europe—												
Total.....thous. of dolls..	113,043	143,262	-----	160,999	160,654	201,300	152,285	149,216	192,840	1,208,057	71,441,501	71,399,779
France.....thous. of dolls..	11,986	16,152	-----	15,794	17,095	24,026	15,918	15,167	20,049	138,744	7155,465	7134,221
Germany.....thous. of dolls..	14,151	22,784	-----	24,634	26,367	38,993	22,092	24,579	46,298	170,094	7231,208	7252,709
Italy.....thous. of dolls..	5,522	5,775	-----	8,666	6,620	14,500	11,853	9,956	14,275	67,195	794,525	798,721
United Kingdom.....thous. of dolls..	40,628	53,928	-----	56,890	58,333	72,609	52,098	52,827	59,182	433,055	7517,438	7489,749
North America—												
Total.....thous. of dolls..	82,956	82,945	-----	116,405	111,517	117,649	110,919	118,041	115,500	737,944	7952,746	7857,090
Canada.....thous. of dolls..	55,058	53,695	-----	79,569	76,862	80,485	77,940	84,963	87,139	480,440	7659,067	7591,753
South America—												
Total.....thous. of dolls..	27,612	25,744	-----	49,293	39,430	43,550	43,907	43,767	33,805	238,462	7376,723	7305,236
Argentina.....thous. of dolls..	10,816	9,741	-----	20,481	17,352	17,995	16,736	17,348	11,457	92,057	7145,943	7114,261
Asia and Oceania—												
Total.....thous. of dolls..	35,913	38,641	-----	63,183	58,610	66,039	61,866	59,971	71,917	389,125	7544,910	7500,901
Japan.....thous. of dolls..	7,489	8,821	-----	15,006	11,507	19,117	17,987	15,517	27,542	113,321	7153,110	7156,426
Africa, total.....thous. of dolls..	7,095	7,525	-----	13,022	10,546	9,133	10,006	8,011	7,544	67,591	790,696	772,973
By economic classes:												
Total domestic exports only.....thous. of dolls..	261,968	293,914	307,738	393,798	374,723	431,801	371,471	371,312	414,859	2,902,781	3,778,878	3,482,321
Crude materials.....thous. of dolls..	36,537	53,156	93,749	50,015	50,891	112,260	60,177	52,375	120,188	556,097	697,362	770,827
Foodstuffs, crude and food animals.....thous. of dolls..	16,656	24,160	18,183	20,259	28,438	29,943	14,217	20,310	42,363	134,439	205,560	183,034
Manufactured foodstuffs.....thous. of dolls..	24,209	28,325	27,823	35,840	37,107	40,963	30,661	34,749	35,761	273,487	351,476	323,122
Semimanufactures.....thous. of dolls..	39,831	40,770	37,192	60,511	57,069	57,691	61,397	55,873	51,077	407,970	558,178	537,329
Finished manufactures.....thous. of dolls..	144,734	147,503	130,791	227,173	201,218	190,944	205,019	199,005	165,469	1,530,788	1,966,305	1,668,008
Agricultural exports (quantities):												
All commodities.....rel. to 1910-1914..	57	87	-----	70	76	121	64	75	138	-----	-----	-----
All commodities except cotton.....rel. to 1910-1914..	98	130	-----	117	132	143	84	126	168	-----	-----	-----
CANADIAN FOREIGN TRADE												
Total trade:												
Imports.....thous. of dolls..	84,551	77,906	87,900	114,201	111,631	99,380	103,404	114,175	106,066	793,671	989,581	912,267
Exports.....thous. of dolls..	77,906	70,613	82,190	105,686	98,395	89,424	127,869	113,904	111,856	678,428	883,215	917,839

* Revised.

† Cumulative through Aug. 31.

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.

Agricultural machinery. Manufacture and Sale of Farm Equipment, 1929. 16 pages. (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.

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.

Coal and coke. Simplification of Sizes and Terminology of High Volatile Bituminous Coal (Handled over Docks at American Head of Great Lakes). vi+14 pages, 1 chart. (Bureau of Standards. Miscellaneous Publication No. 113.) This is regional recommendation RR1-29. Price, 5 cents.

Commerce Reports. Index to Commerce Reports, Nos. 14-26, Vol. 2, Thirty-third Year, April-June, 1930. ii+xxv pages. (Bureau of Foreign and Domestic Commerce.) This publication, issued quarterly, indexes all material published in Commerce Reports under the subject, country, and author for the period indicated. Single copies, 5 cents; annual subscription, 20 cents.

Commerce Yearbook, 1930: Vol. I, United States. xxii+678 pages, charts, maps. (Bureau of Foreign and Domestic Commerce.) This volume of the Commerce Yearbook contains detailed information concerning business conditions in the United States and its noncontiguous Territories. Price, \$1.

Commercial laws. Trading Under Laws of Peru, by Roger D. Moore and Joaquin Servera. x+136 pages. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 98.) Discussion of the political and judicial organization of Peru, the codes of civil and commercial laws, bills of exchange, tax laws, regulations governing suspension of payments and bankruptcy, and the law on industrial property. Price, 25 cents.

Commercial standards. American National Special Screw Threads. iv+28 pages, illustrations. (Bureau of Standards. Commercial Standard CS25-30.) Price, 15 cents.

American National Standard Screw Threads (Coarse and Fine Thread Series). vi+22 pages, 1 illustration. (Bureau of Standards. Commercial Standard CS 24-30.) Price, 10 cents.

Fish. Alaska Fishery and Fur-Seal Industries in 1929, by Ward T. Bower. (Bureau of Fisheries. Document No. 1086.) Appendix X to Report of Commissioner of Fisheries for fiscal year 1930, pp. 205-439, 14 illustrations. This bulletin gives the regulations governing the fisheries of Alaska, with a report on operations of the industry during 1929. There is also a report on the fur-seal industry of the Pribilof Islands. Price, 25 cents.

Experiments in Culture of Black Bass and Other Pond-fish, by H. S. Davis and A. H. Wiebe. (Bureau of Fisheries. Document No. 1085.) Appendix IX to Report of Commissioner of Fisheries for fiscal year 1930, pp. 117-203, 5 illustrations, 1 chart. Report on experiments in the propagation of black bass and other fish in ponds. A description of the ponds is given the fertilization used, and methods of caring for the fish. A bibliography is included. Price, 10 cents.

Review of Fisheries of California, by R. H. Fiedler. (Bureau of Fisheries. Document No. 1087.) Appendix XI to Report of Commissioner of Fisheries for fiscal year 1930, pp. 341-369, 4 illustrations, 4 charts. Deals with the location of fisheries along the California coast, the catch of various kinds of fish, amount and kinds canned, and salmon and cod fishing in Alaska. Price, 10 cents.

Metals and minerals. Accelerated Tests of Asphalts, by O. G. Strieter. (Bureau of Standards. Research Paper No. 197.) Reprint from Bureau of Standards Journal of Research, vol. 5, August, 1930, pp. 247-253, 8 pages of plates. This publication discusses the equipment and methods used for accelerated weathering tests of asphalts and suggests appli-

cations of the method in the solution of problems encountered in asphalt technology. Price, 10 cents.

Silica in 1929. (Bureau of Mines. Mineral Resources of United States, 1929, Pt. II, pp. 35-40.) This publication gives statistics regarding production of silica and regions where found. Price, 5 cents.

Structure of Spectra of Doubly and Trebly Ionized Zirconium, by G. C. Kieck and R. J. Land. (Bureau of Standards. Research Paper No. 202.) Reprint from Bureau of Standards Journal of Research, vol. 5, August, 1930, pp. 305-324, 3 illustrations, 1 plate. Price, 10 cents.

Monthly Summary of Foreign Commerce of United States, August, 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 August, 1929 and 1930, and for eight months ending August, 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.

Motion Pictures in China. ii+16 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 722.) Discussion of the increased interest in motion pictures in China, the growing local film industry, the number of films exported from the United States to China, the number of theaters in operation in different towns, and regulations governing film exhibition in each of these places. Price, 10 cents.

Motor vehicles. Automotive Market in Paraguay. ii+13 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 720.) Discussion of highway conditions, the number of motor vehicles in operation, factors influencing the marketing of cars, and the outlook for future sales in Paraguay. Price, 10 cents.

Petroleum. International Trade in Petroleum and Its Products, 1929. vi+175 pages. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 99.) This publication contains tables showing the exports of petroleum products from the United States and the imports of such products into the different countries of the world during 1927 to 1929. There are also tables showing exports of petroleum products from countries where such trade exists. Price, 30 cents.

Petroleum Refineries in Foreign Countries, 1930. ii+43 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 723.) This bulletin deals with petroleum refinery activities in different countries, showing location of refineries, source of crude product, daily output, and age of equipment used. Price, 10 cents.

Population Statistics. Fifteenth Census of United States, 1930: Rhode Island, Number and Distribution of Inhabitants. 6 pages, 1 illustration. (Bureau of the Census. Population Bulletin, First Series.)

Fifteenth Census of United States, 1930: Virginia, Number and Distribution of Inhabitants. 20 pages, 1 illustration. (Bureau of the Census. Population Bulletin, First Series.)

Fifteenth Census of United States, 1930: West Virginia, Number and Distribution of Inhabitants. 15 pages, 1 illustration. (Bureau of the Census. Population Bulletin, First Series.)

Radio Service Bulletin is issued monthly by the Radio Division of the Department of Commerce and contains list of radio stations. Single copies, 5 cents; annual subscription, 25 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.

Washing, Cleaning, and Polishing Materials. ii+47 pages. (Bureau of Standards. Circular No. 383.) Discussion of the composition of different laundry soaps and alkaline cleaners. There is a brief account of the nature and application of dry cleaning fluids and soaps, with a discussion of polishes. Price, 10 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.

U. S. GOVERNMENT PRINTING OFFICE: 1926