

UNITED STATES
DEPARTMENT OF COMMERCE
WASHINGTON

SURVEY OF
CURRENT BUSINESS

MARCH, 1931

No. 115



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

A NEW EDITORIAL PLAN FOR THE SURVEY OF CURRENT BUSINESS

With a view to making the Survey of Current Business of greater practical value to the business men of the country and to others interested in the development and trends of American business and industry, the following new editorial plan for the Survey is announced:

An Annual Supplement to the Survey of Current Business, the first issue to be published in April, 1931. The 1931 Annual Supplement, of about 275 pages, will contain monthly data for the past seven years and cover some 2,000 items on the activities of business and industry.

A Monthly Survey of Current Business of 52 pages, which will contain all data reported by the 25th of the month, and which will be distributed within 8 or 10 days after that date. The Monthly Survey will contain monthly business statistics on some 2,000 items, carefully arranged alphabetically, and running back 13 months and the weekly business statistics for the latest weeks, with yearly comparisons. The data will be supplemented by 25 pages of interpretive text and diagrams conveniently arranged, prepared by members of the Division of Statistical Research of the Bureau of Foreign and Domestic Commerce. The semiannual issues of past years will be displaced by a regular monthly issue and by the Annual Supplement.

A 4-page Weekly Supplement to the Survey of Current Business, containing weekly and monthly data made available during the preceding week which will be distributed the following Thursday. The Weekly Supplement will follow the current form very closely for the present.



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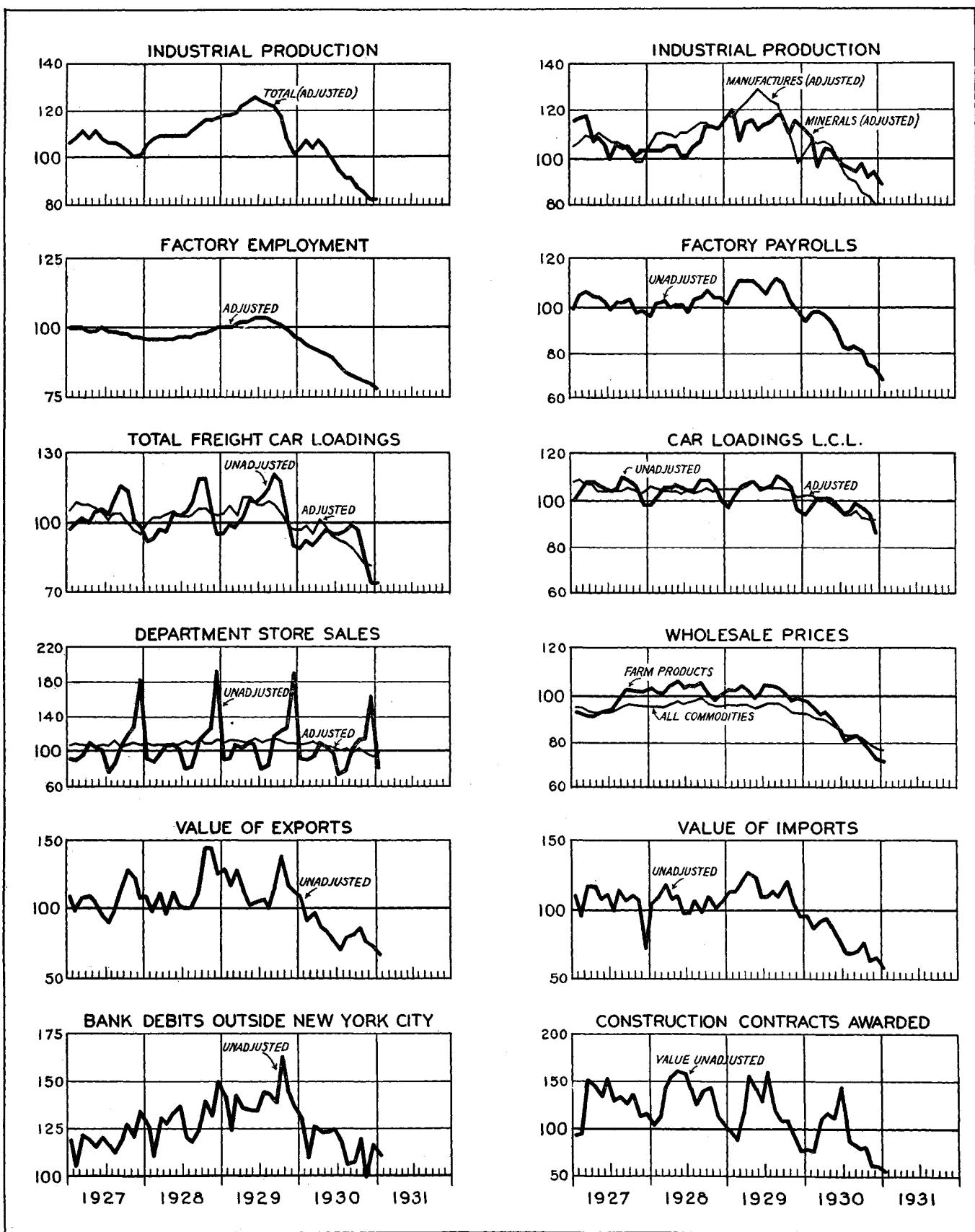
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Subscription price of the SURVEY OF CURRENT BUSINESS is \$1.50 a year; single copies (monthly), 10 cents; annual supplement, 25 cents. Foreign subscriptions, \$2.50; single copies (monthly issues), including postage, 14 cents; annual supplement, 36 cents. Subscription price of COMMERCE REPORTS is \$4 a year; with the SURVEY, \$5.50 a year. Make remittances only to Superintendent of Documents, Washington, D. C., by postal money order, express order, or New York draft. Currency at sender's risk. Postage stamps or foreign money not accepted.

MONTHLY BUSINESS INDICATORS

1923-1925=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				1931	
	1924	1925	1926	1927	1928	1929	1930	Oct.	Nov.	Dec.	Jan.	Oct.	Nov.	Dec.	Jan.	Sept.	Oct.	Nov.	Dec.	
	1923-1925 monthly average=100																			
Industrial production:																				
*Total manufacturing.....	94.0	105.0	108.0	106.0	112.0	119.0	96.0	116.0	116.0	117.0	118.0	118.0	108.0	98.0	103.0	90.0	85.0	84.0	80.0	
Total minerals.....	96.0	99.0	108.0	107.0	106.0	115.0	99.0	114.0	113.0	112.0	118.0	118.0	110.0	116.0	112.0	94.0	98.0	92.0	94.0	
Pig iron.....	86.7	101.5	109.0	101.0	105.5	117.9	87.6	112.9	110.5	112.8	120.1	120.1	94.9	94.6	76.2	72.5	62.5	55.8	57.4	
Steel ingots.....	88.7	106.4	113.1	104.6	120.2	130.9	95.6	134.5	123.4	116.2	130.2	131.2	101.9	84.0	109.8	83.0	78.7	64.7	58.1	
Automobiles.....	90.8	107.5	108.4	85.7	109.9	135.1	84.6	120.2	77.8	70.8	121.3	114.9	65.8	36.3	82.6	66.7	46.7	41.1	47.1	
Cement.....	99.8	108.1	110.0	115.3	118.0	114.1	107.9	141.1	121.2	98.1	79.5	134.6	113.0	90.2	68.4	129.7	115.9	89.3	68.2	
Cotton (consumption).....	89.7	104.4	108.5	120.2	106.7	114.5	87.4	120.1	119.1	103.9	130.2	124.7	105.4	88.2	112.3	76.8	86.6	80.8	79.2	
Wool (consumption).....	94.6	92.6	89.7	97.0	94.7	103.1	75.6	108.6	105.7	96.8	114.0	125.3	98.5	79.8	92.1	80.4	86.5	65.9	63.3	
Raw material output:																				
Animal products.....	103.8	96.6	96.0	97.4	99.2	98.4	101.6	92.6	92.2	95.8	102.6	95.2	93.0	94.7	91.2	96.7	88.5	97.8	100.3	
Crops.....	104.2	104.0	109.0	113.3	117.0	113.6	95.3	252.1	179.7	152.3	246.3	154.6	127.9	78.7	165.6	197.9	138.6	98.3	68.7	
Forest products.....	97.0	104.0	97.6	92.6	87.9	85.4	68.2	87.1	83.6	75.9	81.8	89.1	81.3	69.6	63.3	61.2	68.2	62.9	58.0	
Crude petroleum.....	96.9	103.7	104.6	122.3	122.4	136.5	121.7	129.8	123.8	129.5	129.9	144.0	128.3	131.8	133.7	115.6	118.4	111.0	109.1	
Bituminous coal.....	92.5	99.5	109.7	99.0	95.8	102.3	88.3	117.5	107.5	101.2	120.3	119.8	106.8	108.0	114.3	88.7	101.3	87.5	91.2	
Copper.....	100.2	106.4	110.2	104.9	114.9	127.1	87.2	131.1	129.6	129.8	130.9	125.2	115.1	113.4	102.9	85.8	84.8	80.6	73.9	
Power and construction:																				
Electric power.....	98.1	109.5	122.6	133.3	146.0	161.8	159.0	158.0	154.6	157.8	164.3	173.7	164.3	169.7	172.5	164.8	163.0	153.4	161.6	
Building contracts (37 States).....	92.7	117.6	111.0	106.8	121.4	99.6	64.1	129.1	111.1	98.2	87.9	98.9	76.9	66.3	49.6	62.1	59.5	49.9	43.8	
Unfilled orders:																				
General index.....	87.0	91.3	84.6	74.0	76.1	80.9	73.5	71.7	74.1	71.0	76.8	77.0	74.0	78.0	80.5	67.4	58.6	58.7	61.9	
U. S. Steel Corporation.....	83.6	90.6	82.1	71.1	80.7	87.1	83.7	78.6	76.9	83.3	86.1	85.6	86.4	92.5	93.6	71.7	72.9	76.2	82.6	
Stocks:																				
General index.....	102.2	103.4	115.0	121.4	123.2	136.9	142.9	133.3	137.5	141.7	139.4	155.1	156.5	158.0	150.6	147.8	157.2	161.8	163.7	
Manfd. commodities (28).....	103.3	103.0	107.3	113.7	117.8	120.4	122.7	111.5	114.7	121.5	127.4	114.4	116.2	119.2	121.6	117.7	119.0	119.1	120.9	
Cotton.....	91.4	106.2	145.5	153.1	123.6	126.5	173.2	155.0	180.6	185.4	169.8	176.9	198.6	205.8	192.3	165.3	236.6	265.0	267.0	
Copper (refined).....	113.9	73.1	64.8	85.4	58.4	78.4	276.2	40.3	46.1	57.8	55.4	78.1	112.1	151.3	179.7	318.6	322.4	326.7	324.4	
Employment:																				
Factories.....	96.2	99.7	101.4	98.8	97.2	100.4	87.8	100.2	98.8	98.1	97.5	103.3	98.9	95.2	93.2	86.4	84.3	81.0	78.8	
Prices:																				
Farm products, to producers.....	97.1	106.5	98.6	94.9	100.7	100.0	84.8	99.3	97.1	97.1	96.4	101.4	98.6	97.8	97.1	80.4	76.8	74.6	70.3	
Wholesale, all commodities.....	97.4	102.8	99.3	94.7	97.0	95.8	85.8	97.1	96.0	95.8	96.5	93.7	93.5	92.8	83.6	82.0	79.8	77.9	76.5	
Retail food.....	97.6	104.9	107.6	103.6	102.9	104.6	98.2	104.8	104.8	104.2	103.3	107.2	106.7	105.6	103.8	97.3	96.5	94.5	91.7	
Cost of living (including food).....	99.4	102.4	102.4	100.0	98.7	98.4	93.8	99.3	99.3	98.7	98.1	99.3	99.3	98.7	97.4	93.2	92.6	91.4	90.1	
Distribution (values):																				
*Bank debits, 141 cities.....	96.7	111.9	119.6	132.5	158.2	184.5	130.5	161.0	165.1	172.3	187.3	211.1	189.9	139.8	136.6	120.8	120.3	97.6	109.0	
*Department stores, sales.....	99.0	103.0	106.0	107.0	108.0	111.0	102.0	108.0	108.0	110.0	110.0	112.0	108.0	107.0	99.0	102.0	98.0	94.0	99.0	
*Mail-order sales, 2 houses.....	97.2	111.9	120.6	126.2	147.7	188.6	171.5	156.2	155.6	167.6	147.1	194.7	186.0	199.9	154.7	167.1	167.8	145.4	167.8	
*10-cent chains, sales.....	99.0	113.0	125.0	138.0	150.0	164.0	159.0	148.0	151.0	164.0	146.0	159.0	166.0	165.0	152.0	156.0	151.0	158.3	152.2	
Postal receipts.....	98.5	107.9	114.5	117.3	117.7	121.1	114.9	127.7	118.0	149.8	118.6	133.5	122.0	153.3	120.9	107.9	121.1	106.2	145.3	
Imports.....	93.1	109.0	114.3	108.0	105.6	113.5	79.0	110.0	101.1	105.1	114.2	121.1	104.8	95.9	96.3	70.1	76.6	63.0	64.6	
Exports.....	100.8	107.8	105.5	106.8	112.6	115.0	84.4	144.9	143.5	125.3	128.5	139.2	116.5	112.3	108.2	82.2	86.1	76.1	72.5	
Transportation:																				
Freight, net ton-miles.....	95.9	101.9	109.1	106.0	106.5	109.9	94.3	129.3	112.5	100.8	105.1	128.2	103.8	96.6	98.3	97.1	105.3	86.5	77.8	
Finance:																				
Member bank loans and discounts.....	98.5	107.4	112.9	117.3	127.5	135.9	133.8	128.3	129.8	135.4	128.7	151.1	141.3	140.9	133.1	135.8	133.8	131.8	129.8	
Interest rate (commercial paper).....	90.0	93.5	100.9	95.4	112.8	135.7	83.3	127.6	124.8	124.6	124.8	145.0	133.4	116.0	113.2	69.6	69.6	66.3	66.8	
Federal reserve ratio.....	104.1	96.9	96.0	99.1	89.1	93.4	104.3	87.0	84.5	80.2	89.9	89.9	93.0	90.2	101.4	105.7	108.7	103.4	95.5	
Price, corporation bonds.....	99.9	103.6	108.0	112.5	113.0	106.5	109.3	111.3	112.0	110.7	110.8	105.2	105.0	107.1	106.8	113.3	110.9	109.1	106.2	
Price, railroad stocks.....	96.1	117.9	133.4	162.7	174.5	194.3	162.3	176.4	186.0	180.3	189.3	203.5	176.2	181.4	180.6	157.5	139.1	129.0	117.2	
Price, industrial stocks.....	91.9	122.0	132.4	171.4	214.8	292.6	228.2	234.5	252.6	229.0	275.0	316.3	219.4	229.3	235.5	226.0	191.1	181.8	169.6	
Failures (liabilities).....	106.8	87.2	80.4	102.2	96.2	95.0	131.3	82.5	95.8	96.2	127.1	73.9	122.8	159.1	110.7	132.8	130.3	197.4	223.1	

*Seasonal adjustments.

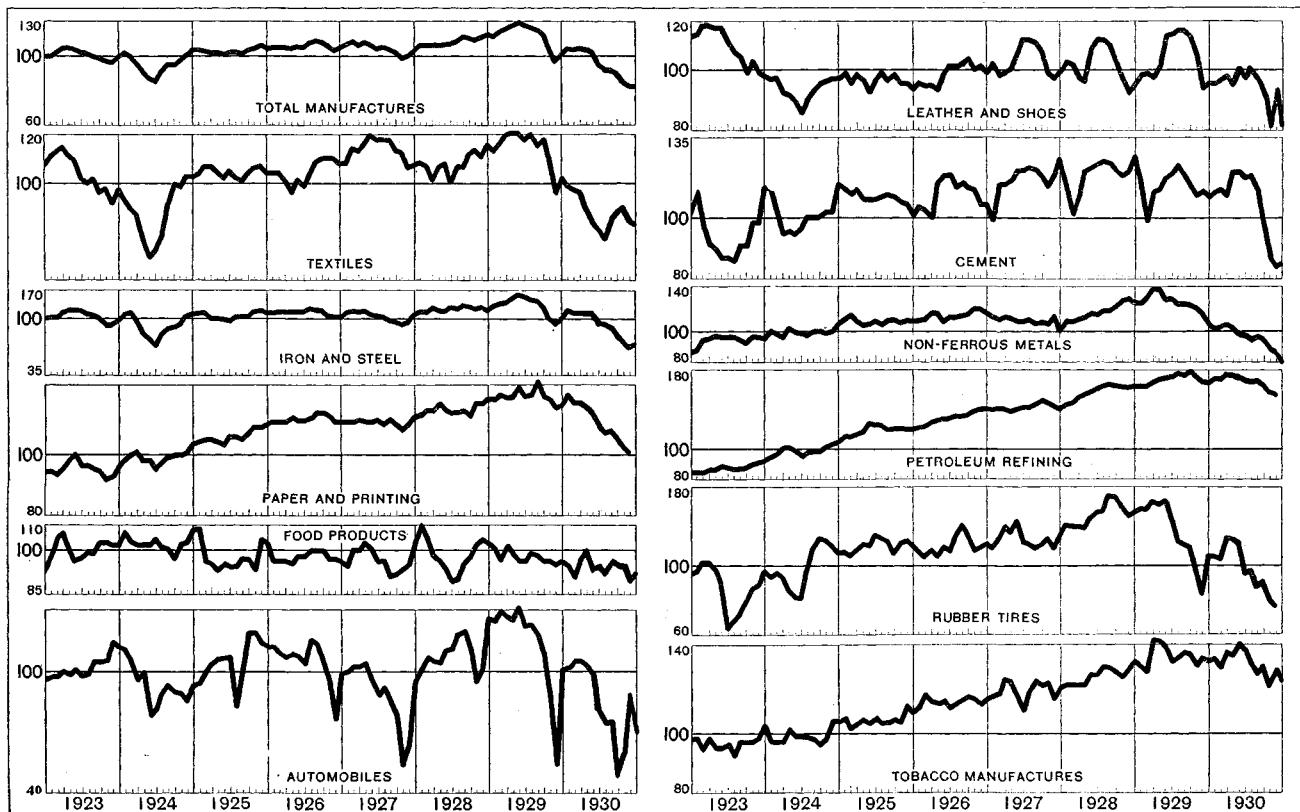
PRELIMINARY SUMMARY FOR FEBRUARY

The volume of business operations in the country as a whole in the first weeks of February, as reflected by the available indicators, continued somewhat irregular, and was on a lower plane than reported for the corresponding period last year. The value of new building contracts, data on which are now issued only every two weeks, increased slightly over the previous period and was slightly higher than for the corresponding period in 1930. The activity of steel plants continued to show gains and was among the most encouraging of all current industrial and business indicators. The automobile industry was an important source of

were below the level of February, 1930. Interest rates at the middle of February on time money were higher than at the close of January, while rates on call money remained stationary. Both rates, however, were materially lower than during a like period in 1930 or 1929. New capital issues continued on a low level and during the first two weeks of February represented almost entirely municipal flotations. New corporation financing remained comparatively inactive. The bond market in general remained inactive. Bond prices as a whole were irregular, but were above the level for the corresponding period in 1930 and 1929.

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



demand for steel products, but difficulties in financing seem to have delayed the placing of orders in pipe-line requirements and in fabricated structural steel. Operations were still materially under the same time in the year previous.

Wholesale prices of commodities, as measured by Fisher's index, continued to decline, constituting one of the most discouraging features of the current situation. Prices were considerably under those prevalent during a similar four weeks last year. Prices of wheat remained steady during the first weeks of February, but were considerably under those of a like period last year.

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

Stock prices continued to rise from the January levels, reaching during the first two weeks of February a point over 20 per cent above the December low.

Brokers' loans rose slightly during the opening weeks of February, but were materially under those of 1930. The Federal reserve ratio continued to increase fractionally each week and was considerably higher than during February, 1930.

Freight-car loadings continued on a low level during February, being about on the same level as during January but materially under the weekly average for February, 1930. Lumber production rose during the first part of February in response to increased orders, but was materially under February of last year.

BUSINESS CONDITIONS IN JANUARY

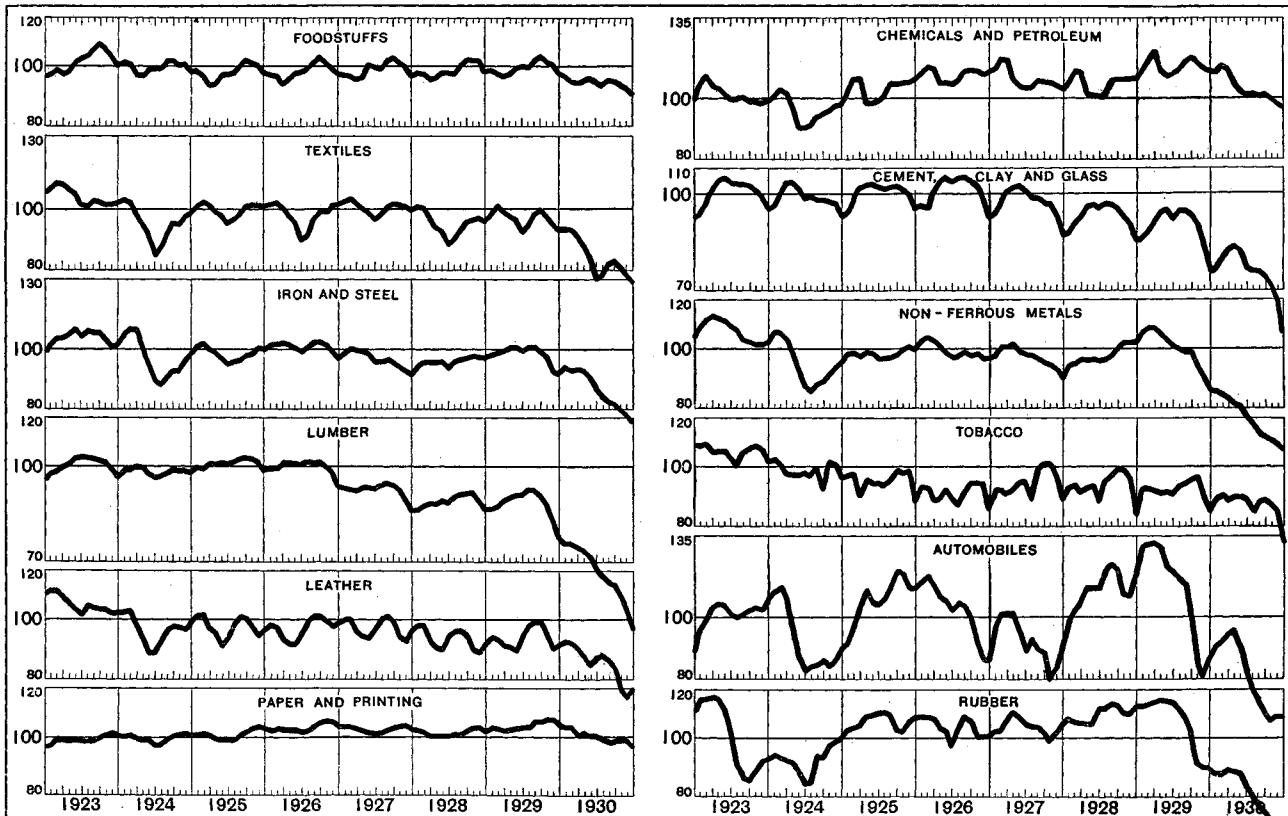
General industrial production in January, according to the weighted index of the Federal Reserve Board, showed a normal increase during January from December, but was still on a plane 21.2 per cent under January, 1930. The output of manufactured commodities over that of December was of about normal proportions, after adjustments are made for seasonal variation, but was some 22.3 per cent under the output of January of last year. In manufacturing greater than the normal seasonal increase was registered by the iron and steel industry, food products, and the stone, clay, and glass industry. Less than the normal seasonal

The number of wage earners employed in factories was smaller than in the preceding month. The leather industry is the only group reporting an increased number of employees. The greatest decrease in number of employees in respect to December employment was registered by the tobacco manufacturing group with 11.2 per cent.

Distribution as indicated by freight-car loadings was about the same as during December. Usually some increase in car-loadings is witnessed during the December-January period. Retail trade as indicated by department store sales increased more than usual

FACTORY EMPLOYMENT, BY GROUPS

[1926 monthly average = 100. January, 1931, is latest month plotted]



increase between December and January was registered by the following industries: Textiles, automobiles, nonferrous metals, and tobacco manufactures. The increase in operations of the leather and the shoe industry was of about normal proportion for this season of the year. The greatest increase after seasonal adjustments are made was registered by the iron and steel industry, and automobile manufactures showed the largest decrease. All manufacturing groups, however, were operating on a plane materially under that of January, 1930.

In the output of minerals, all groups, with the exception of anthracite coal, declined from both the preceding period and the month of January, 1930.

for this season of the year. Sales were still some 8 per cent under those of January, 1930.

Wholesale prices of all commodities and retail prices of food, as compiled by the Department of Labor, continued the downward trend in January. The decline in wholesale prices from December to January was 1.8 per cent; and from January, 1930, to January, 1931, the decline amounted to 17.6 per cent. All commodity groups showed a decrease from December to January. Raw material prices dropped 1.8 per cent; semimanufactured articles, 1.2 per cent; finished products, 1.7 per cent; nonagricultural commodities, 1.5 per cent; and all commodities less farm products and foods, 1.5 per cent.

WEEKLY BUSINESS INDICATORS¹

[Weekly average 1923-1925 = 100]

WEEK ENDING SAT. ²	COM- PO- SITE INDEX		PRODUCTION						RECEIPTS			WHOLESALE PRICES			BANKING AND FINANCE						Interest rates, call time		Interest rates, time		Loans and dis- counts		Stock prices	Money in circu- lation
	New York Times	Business week	Beehive coke	Bituminous coal	Building, new awards	Petroleum	Steel	Cattle and calves	Cotton	Hogs	Wheat	Car loadings	Copper, electro- lytic	Cotton middling	Fisher's index	Iron and steel composite	Bank debits out- side N. Y. City	Bond prices	Business failures (number)	Federal reserve ratio	Interest rates, call time	Interest rates, time	Loans and dis- counts	Stock prices	Money in circu- lation			
1930																												
Jan.	4	93.9	90.0	31.4	104.6	86.3	127.3	77.6	62.3	91.5	80.7	50.7	80.9	129.0	63.6	93.0	86.6	133.6	104.8	123.1	89.8	145.5	114.3	141.2	211.3	100.2		
	11	95.0	95.3	29.8	114.6	86.3	129.1	86.8	80.1	96.5	112.8	57.8	90.0	129.0	64.0	93.1	86.3	162.8	105.2	179.9	94.1	112.1	111.4	136.5	212.3	97.2		
	18	94.5	96.2	29.4	109.5	88.2	127.8	90.8	83.5	76.4	98.1	61.9	88.4	129.0	64.3	93.2	86.0	125.1	105.1	156.8	97.3	109.1	108.6	134.7	213.0	95.3		
	25	96.6	95.6	28.6	120.1	59.5	125.6	97.4	76.3	71.9	125.9	40.5	89.9	129.0	63.6	93.7	85.4	123.7	104.7	158.2	98.4	109.1	108.6	133.5	215.6	94.4		
Feb.	1	97.4	94.2	26.1	119.3	59.6	124.6	100.0	75.3	63.1	125.1	42.7	93.7	129.0	60.3	93.3	85.1	109.8	104.7	133.9	101.0	109.1	114.3	133.4	222.7	93.7		
	8	97.5	92.9	30.6	112.2	60.6	125.5	105.3	62.7	50.8	104.0	65.9	92.4	129.0	55.9	93.4	85.1	128.2	104.8	152.1	100.6	109.1	114.3	133.0	228.3	93.9		
	15	97.0	90.9	27.3	104.9	63.5	127.4	106.6	65.5	47.3	107.1	59.6	93.2	129.0	58.5	93.1	85.1	100.4	104.9	131.9	101.5	97.0	114.3	132.8	231.6	94.0		
	22	95.3	93.7	29.0	97.6	66.0	130.7	105.3	73.1	52.7	92.0	52.7	86.3	129.0	56.3	92.2	85.1	130.7	104.8	143.7	101.3	109.1	111.4	132.2	229.4	93.7		
Mar.	1	94.4	95.4	28.2	83.9	139.4	126.0	103.9	69.3	60.4	98.1	78.5	93.8	129.0	56.3	91.9	85.1	109.0	105.0	129.2	101.7	106.1	111.4	131.4	228.7	93.7		
	8	93.1	94.4	26.5	87.9	75.8	121.7	100.0	71.8	51.5	75.5	66.4	91.1	129.0	52.2	91.0	84.8	139.9	105.2	129.5	103.0	97.0	102.9	132.4	232.9	94.0		
	15	92.8	95.2	27.3	82.9	109.2	124.0	97.4	77.8	48.8	81.2	51.3	91.9	129.0	50.4	90.9	84.4	116.2	105.9	137.6	104.3	93.9	100.0	133.7	233.1	93.4		
	22	92.8	95.6	29.0	80.4	141.2	121.7	96.1	68.0	48.8	63.2	40.1	91.3	129.0	58.5	90.7	84.3	128.0	107.0	137.1	106.4	72.7	94.3	134.8	236.5	93.0		
	29	93.6	93.0	27.3	91.4	112.8	120.7	100.0	70.9	43.5	80.7	32.7	92.3	129.0	58.8	90.4	84.2	117.1	106.9	131.0	105.5	93.9	97.1	135.1	241.0	92.8		
Apr.	5	96.5	96.0	31.0	84.6	105.7	121.5	98.7	74.4	39.2	75.7	38.7	94.7	129.0	61.0	90.8	83.5	140.9	106.5	123.6	103.0	97.0	97.1	135.3	245.1	93.5		
	12	96.6	96.5	29.0	84.7	118.1	122.9	100.0	73.1	43.8	76.4	32.7	95.0	129.0	61.0	91.3	83.4	121.2	106.4	124.4	105.2	97.0	102.9	134.8	248.8	93.3		
	19	95.5	93.9	27.8	83.1	104.0	122.9	102.6	66.8	33.8	76.3	29.4	93.1	100.0	59.6	90.7	83.2	129.6	106.1	120.6	103.7	97.0	102.9	134.8	249.0	93.3		
	26	95.4	93.9	27.8	84.0	121.7	124.3	102.6	74.7	36.2	73.5	51.3	94.6	100.0	59.9	90.2	83.1	116.1	105.9	134.4	105.5	97.0	100.0	135.7	244.5	92.7		
May	3	95.7	94.2	25.7	85.5	130.1	124.6	101.3	78.2	36.9	74.7	47.0	98.3	94.9	61.0	89.7	82.8	120.4	106.0	116.0	106.4	92.1	97.1	135.7	233.0	92.7		
	10	94.0	96.9	24.9	85.0	117.2	124.6	100.0	71.8	32.3	78.0	38.4	94.7	89.9	61.0	89.0	82.0	136.3	106.1	129.0	107.1	76.6	91.4	134.8	228.6	92.8		
	17	94.2	98.1	24.5	83.8	124.1	125.2	98.7	71.2	49.6	76.0	38.5	97.0	92.0	67.0	88.7	81.7	120.4	106.3	127.0	107.9	72.7	89.1	134.5	234.9	92.3		
	24	93.5	95.0	23.3	84.9	86.5	123.9	97.4	70.9	48.8	76.0	59.3	97.2	82.8	60.3	88.4	81.1	121.6	106.3	117.9	107.7	72.7	88.6	134.5	231.7	92.2		
	31	93.7	93.0	24.9	77.9	107.9	125.3	93.4	71.5	40.8	78.1	48.3	89.7	92.8	59.9	87.8	81.1	113.1	106.4	102.2	107.0	72.7	88.6	134.7	234.1	92.8		
June	7	93.1	91.3	25.3	83.6	134.4	124.2	93.4	83.2	29.6	87.8	57.2	97.6	91.3	58.5	87.6	81.3	107.9	106.4	119.2	106.1	72.7	85.7	136.3	230.0	92.9		
	14	92.1	89.5	23.5	81.9	97.6	123.5	95.9	75.6	35.4	72.4	46.3	96.6	92.0	57.0	87.0	81.0	114.9	106.4	120.1	107.1	68.6	85.7	135.8	216.1	92.4		
	21	90.9	94.7	27.8	82.1	141.2	124.8	86.8	67.7	27.3	80.6	57.4	96.0	85.5	51.8	86.2	81.0	134.9	106.4	119.7	107.5	60.6	81.8	137.0	197.7	92.3		
	28	91.3	100.3	24.5	82.0	204.4	125.3	84.2	52.2	18.8	80.3	62.2	97.7	84.1	50.0	85.7	80.8	127.5	106.1	120.4	108.0	54.5	74.3	136.5	192.2	92.0		
July	5	90.2	101.4	18.8	67.2	37.3	124.0	63.2	49.7	6.5	56.1	73.6	82.6	81.9	50.0	85.6	80.5	150.3	106.2	106.9	104.1	57.6	68.6	135.7	197.3	93.8		
	12	89.3	97.3	21.2	80.7	62.2	121.5	75.0	71.2	6.2	76.9	230.3	95.5	81.2	48.5	84.5	80.5	105.2	106.5	127.8	105.2	62.5	70.4	135.8	205.5	93.2		
	19	86.0	94.8	20.4	81.3	90.7	120.0	76.3	84.8	7.7	74.4	296.7	96.8	78.3	49.3	83.4	80.1	122.1	106.7	111.1	105.8	54.5	79.1	135.3	207.4	92.1		
	26	85.5	91.0	18.4	82.9	84.9	119.5	76.3	66.8	7.3	65.2	406.0	95.9	78.3	47.1	83.3	80.0	110.7	105.9	125.3	107.4	48.5	80.0	134.8	207.1	91.4		
Aug.	2	85.5	82.2	18.0	82.0	87.9	120.7	76.3	58.9	7.7	59.2	375.8	95.8	78.3	47.1	82.9	79.9	100.8	107.2	115.0	107.7	48.5	80.0	135.6	206.8	91.3		
	9	86.9	87.2	16.7	80.4	84.3	119.1	73.7	67.7	26.9	61.8	303.5	94.3	77.5	46.3	83.1	81.9	116.6	107.5	111.1	107.2	56.5	80.0	135.3	209.2	92.0		
	16	87.3	87.7	16.7	83.8	81.3	118.3	72.4	77.8	52.7	57.6	255.3	96.3	77.5	43.8	83.8	81.7	102.9	107.6	108.4	105.8	60.6	75.2	134.9	196.9	92.1		
	23	87.6	88.9	15.1	87.2	110.7	118.6	76.3	76.0	93.8	58.1	222.3	98.1	77.1	41.2	82.8	79.7	110.0	108.0	107.1	105.7	56.5	74.3	134.4	202.5	92.2		
	30	87.3	86.8	14.7	92.9	63.7	118.1	76.3	96.5	119.6	58.7	169.8	102.7	77.5	41.9	83.3	79.4	93.8	108.3	115.7	105.7	48.5	74.3	134.4	206.2	92.4		
Sept.	6	86.5	83.5	15.1	83.0	54.6	117.0	73.7	97.5	136.5	51.8	224.9	89.3	76.8	43.0	83.5	79.2	94.1	108.6	82.6	104.3	48.2	74.3	134.7	208.0	93.2		
	13	86.4	84.1	15.5	93.8	95.0	116.2	76.3	99.1	165.0	60.1	212.4	100.7	75.4	40.8	83.4	78.9	99.8	108.6	113.8	104.9	60.6	75.4	134.5	210.5	92.5		
	20	85.2	85.6	15.9	91.5	89.7	116.3	78.9	102.8	193.5	60.4	167.6	99.3	73.9	40.1	83.6	78.7	116.0	108.7	122.1	105.3	54.5	74.3	135.1	203.8	92.3		
	27	83.6	81.7	17.1	93.4	76.2	114.7	78.9	101.0	189.8	63.8	144.9	99.1	71.7	38.2	83.1	78.6	106.5	109.0	119.9	105.8	48.5						

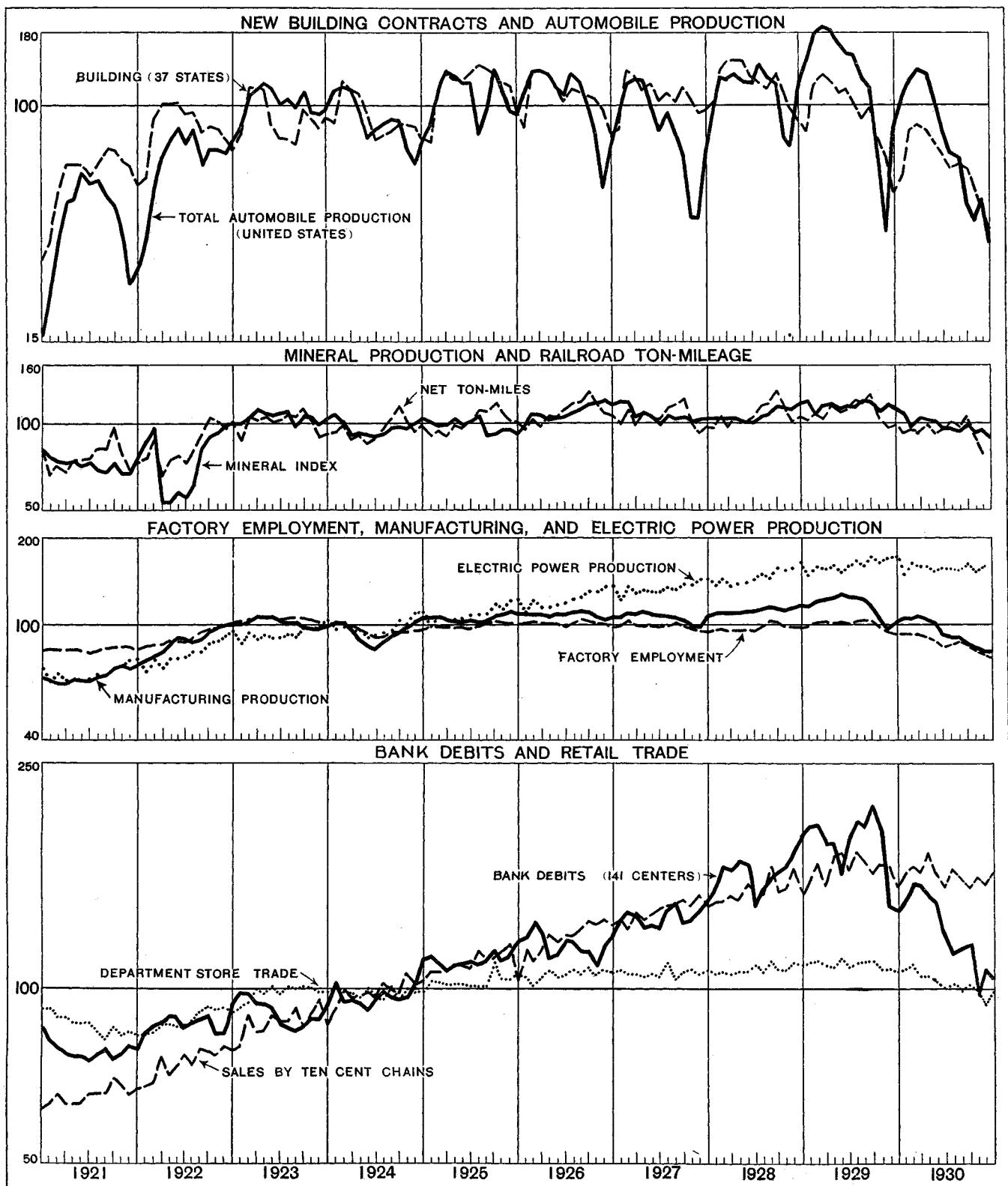
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

NOTE.—Prices to producer on farm products and market price of wool and grain prices are from U. S. Department of Agriculture, Bureau of Agriculture Economics; nonferrous metals from the *Engineering and Mining Journal-Press*, except tin, which is from the *American Metal Market*. All other prices are from U. S. Department of Labor, Bureau of Labor Statistics. So far as possible all quotations represent prices to producer or at mill.

COMMODITIES	Unit	ACTUAL PRICE (dollars)			RELATIVE PRICE				
		1926 average=100					January, 1931	Decem- ber, 1929	Janu- ary, 1930
		Decem- ber, 1930	January, 1931	January, 1930	Novem- ber, 1930	Decem- ber, 1930			
FARM PRODUCTS—AVERAGE PRICE TO PRODUCER									
Wheat.....	Bushel.....	0.613	0.591	1.075	44	45	44	80	80
Corn.....	Bushel.....	.649	.617	.773	95	93	88	112	111
Potatoes.....	Bushel.....	.898	.903	1.378	51	48	49	73	74
Cotton.....	Pound.....	.087	.086	.158	64	58	57	106	105
Cottonseed.....	Ton.....	21.28	21.25	28.95	78	78	78	111	106
Cattle, beef.....	Pound.....	.0637	.0641	.0869	99	99	99	131	135
Hogs.....	Pound.....	.0744	.0725	.0880	70	63	61	72	75
Lambs.....	Pound.....	.0618	.0630	.1110	54	53	55	93	96
FARM PRODUCTS—MARKET PRICE									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	.77	.76	1.27	47	49	48	83	80
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	.83	.78	1.34	54	54	50	87	86
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	.71	.69	1.19	46	48	46	81	80
Corn, No. 3, yellow (Chicago).....	Bushel.....	.69	.65	.85	95	92	87	117	113
Oats, No. 3, white (Chicago).....	Bushel.....	.34	.32	.45	80	83	78	110	110
Barley, No. 2 (Minneapolis).....	Bushel.....	.47	.44	.58	75	73	69	92	91
Rye, No. 2 (Minneapolis).....	Bushel.....	.44	.38	.91	47	48	41	107	99
Cotton, middling upland (New York).....	Pound.....	.101	.102	.173	63	57	58	109	99
Wool, $\frac{1}{4}$ blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.27	.23	.38	63	59	50	89	83
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	10.575	10,000	12,469	108	111	105	127	131
Hogs, heavy (Chicago).....	Cwt.....	7.935	7,338	9,613	72	64	60	77	78
Sheep, ewes (Chicago).....	Cwt.....	2.925	3,438	6,263	51	44	52	75	95
Sheep, lambs (Chicago).....	Cwt.....	7.400	7,981	12,675	52	54	58	88	93
FOOD									
Flour, standard patents (Minneapolis).....	Barrel.....	4.885	4,963	6,750	56	58	59	77	80
Flour, winter straight (Kansas City).....	Barrel.....	4.031	4,085	5,844	57	56	56	82	81
Sugar, 96° centrifugal (New York).....	Pound.....	.033	.034	.037	79	76	78	87	86
Sugar, granulated, in barrels (New York).....	Pound.....	.046	.046	.051	85	83	83	91	93
Cottonseed oil, prime yellow (New York).....	Pound.....	.072	.072	.084	64	61	61	74	71
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.195	.195	.240	119	119	119	146	146
Beef, fresh, carcass, steer (New York).....	Pound.....	.205	.205	.235	120	120	120	138	138
Pork, smoked hams (Chicago).....	Pound.....	.213	.207	.239	72	69	67	70	78
Butter, creamery, 92 score (New York).....	Pound.....	.32	.29	.37	80	71	64	91	82
Oleomargarine, standard, uncolored (Chicago).....	Pound.....	.190	.177	.235	90	83	78	103	103
TEXTILES									
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound.....	.247	.248	.382	71	69	69	95	90
Cotton-print cloth 64 x 60-33 $\frac{1}{4}$ "-5.35—yards to pound.....	Yard.....	.053	.052	.076	76	70	69	92	90
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.065	.062	.090	71	70	67	91	89
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.117	1,100	1.575	84	82	77	98	96
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.900		.975	87	87		94	94
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.601	1,601	1.838	80	80	80	95	91
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.746	1,746	1.959	81	81	81	90	90
Silk, Japan, 13-15.....	Pound.....	2.709	2,807	4,630	40	44	45	74	75
Hosiery, women's pure silk, mill.....	Dozen pair.....	6.750	6,500	9,000	58	58	56	78	78
LEATHER									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.107	.095	.163	84	76	68	114	116
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.144	.125	.176	90	83	72	101	102
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.400	.380	.495	94	91	87	119	113
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.....	4.715	4,600	4,850	100	88	95	100	100
FUEL									
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.898	3,829	3,982	90	90	89	92	92
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.317	4,270	4,492	91	90	89	94	94
Coal, anthracite, chestnut (composite price).....	Long ton.....	12.751	12,732	13,033	93	93	93	94	95
Coke, Connellsburg (range of prompt and future), furnace—at ovens.....	Short ton.....	2.550	2,550	2,588	63	62	62	64	63
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	.850	.850	1,229	45	45	45	69	65
METALS									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	18.760	18,760	20,260	91	91	91	98	98
Pig iron, basic, valley furnace.....	Long ton.....	17.000	17,000	18,500	92	92	92	100	100
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	30.600	30,000	34,000	89	87	86	99	97
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1030	.0984	.1778	73	75	71	129	129
Brass, sheets, mill.....	Pound.....	.178	.173	.233	93	94	91	122	122
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0510	.0480	.0625	61	61	57	74	74
Tin, straits (New York).....	Pound.....	.2527	.2610	.3891	40	39	40	61	60
Zinc, slab, western (St. Louis).....	Pound.....	.0410	.0404	.0523	58	56	55	77	71
BUILDING MATERIAL AND MISCELLANEOUS									
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	32.510	30,730	37,220	74	72	68	84	83
Brick, common red, domestic building (New York).....	Thousand.....	9.50	9,596	10,500	58	58	61	64	
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.580	1,578	1,576	91	91	91	89	89
Steel beams, mill (Pittsburgh).....	Cwt.....	1.600	1,625	1,900	82	82	83	97	97
Rubber, smoked sheets (New York).....	Pound.....	.089	.082	.150	18	18	17	33	31
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15,500	15,500	107	107	107	107	107
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3,100	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

Activity in the textiles industry during January, as measured by the consumption of electrical energy for power purposes, was 3.8 per cent under that recorded during December, 23.2 per cent under that of January, 1930, and 33.2 per cent under that of January, 1929.

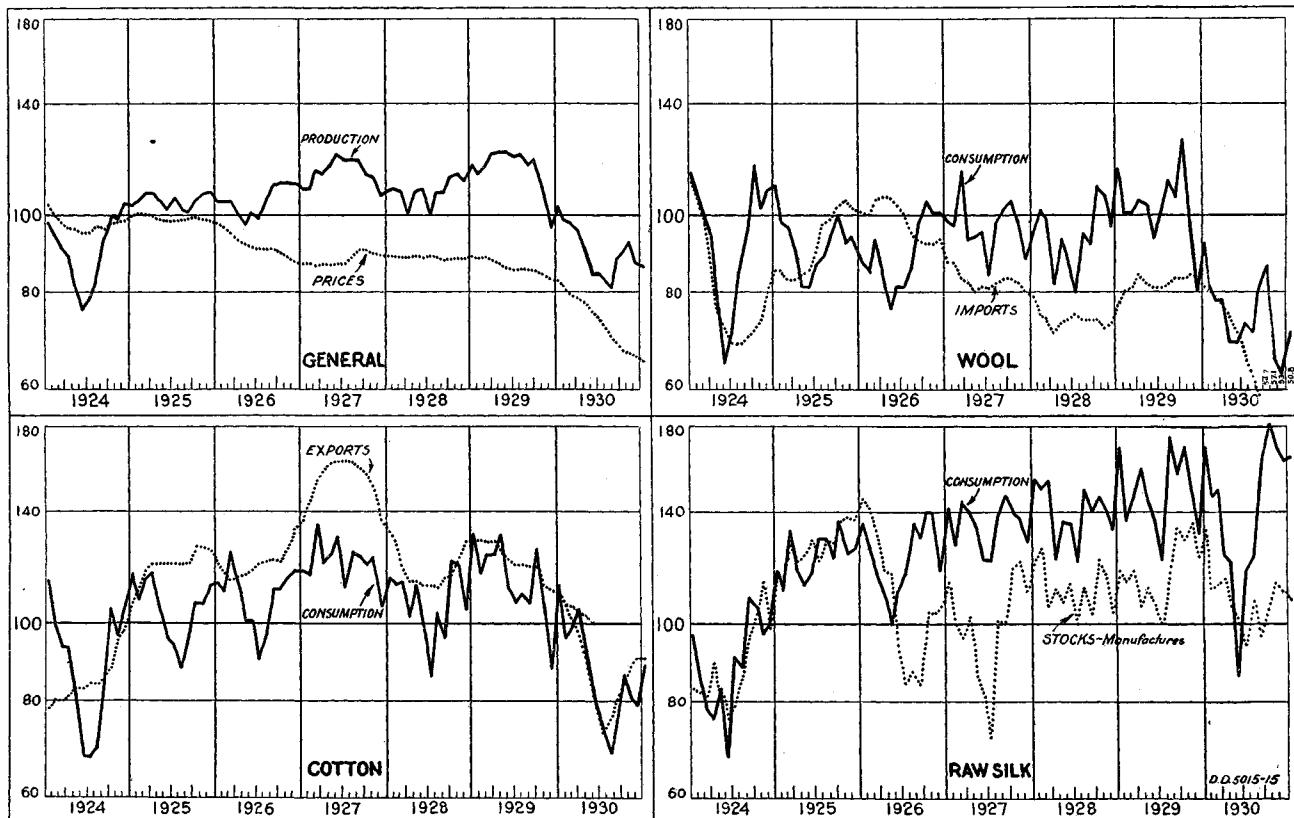
Production of cotton textiles increased during January in respect to December and was also in excess of the November production. The January production, however, was 17.5 per cent under that of January, 1930, and was also under production in January, 1929. New orders, shipments, and unfilled orders at the end

hand at the close of January, 1930, and 3,169,452 bales, or 49.7 per cent, over those of January, 1929. Consumption of raw cotton by textile mills during January was 21.2 per cent under that of January, 1930, and 32 per cent under the figure for 1929. Spindle activity in the cotton industry was about 7.5 per cent over that in December, and 22.2 per cent under that in January of the year previous.

The consumption of silk during January increased by 486 bales, or by 0.9 per cent from December. This consumption of silk was 3.1 per cent under that reported for January, 1930. Stocks of silk in the ware-

THE TEXTILE INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. January, 1931, 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]



of January were all materially under the figures for these items recorded for the corresponding period in 1930 and 1929. Stocks of cotton textiles at the close of January were slightly under the figure reported at the close of December, and were materially under the stocks on hand at the close of January, 1930 and 1929.

Receipts of raw cotton during January totaled 729,256 bales, a drop of 897,444 bales from the total December receipts. This is a smaller decrease than was witnessed during a similar period in 1930 and 1929. The total January receipts of cotton were 107,741 bales under receipts reported for January, 1930, and were 396,959 bales under the receipts during January, 1929. Stocks of raw cotton at the end of January were 2,322,405 bales, or 32.2 per cent above the stocks on

houses at the close of January were 6,616 bales, or 11.7 per cent under the stocks on hand at the close of December. These stocks were also 32.2 per cent under those at the close of January, 1930.

Total wool receipts at Boston showed a decrease of 6.6 per cent from the December receipts, and were 31.7 per cent under those of January, 1930. Receipts of domestic wool were under those of January, 1930, and receipts of foreign wool were also under the receipts of last year.

METALS

No shipments of iron ore from the mines were recorded during January from the upper Lake ports. This is a normal seasonal condition. Stocks of iron ore at the close of January were 5.7 per cent under the

stocks at the close of December, but were 9.4 per cent over those at the close of January, 1930. The consumption of iron ore by furnaces totaled 2,350,000 long tons, against 2,339,000 long tons in December, and 4,101,000 long tons in January, 1930.

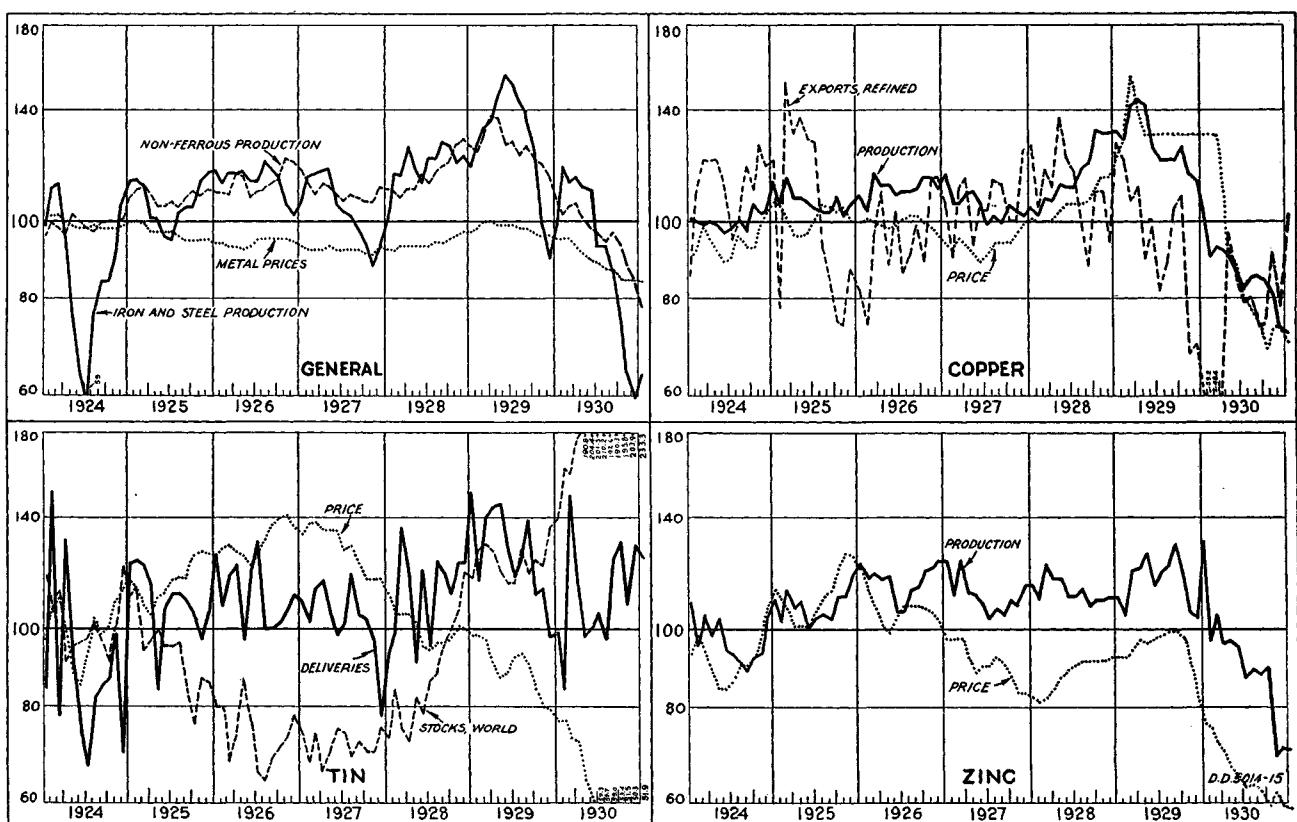
Pig-iron production during January witnessed an increase in comparison with the December production, whereas last year a slight reduction was recorded for the same period. The total production of 1,714,000 long tons during January was 3.1 per cent over that of December, but was 39.3 per cent under January production in 1930.

Copper production declined 1.9 per cent from the December output, and was 29.6 per cent under that of January, 1930. Domestic shipments of refined copper decreased by 9,645 short tons from December, and were 9,723 short tons under those of the previous year. Stocks of refined copper in North and South America decreased slightly from the previous month but were 78.8 per cent above the stocks at the close of January, 1930. Zinc production was under that of December and of January, 1930.

Domestic receipts of gold at the mint decreased during January, being 14 per cent under the December

THE METAL INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. January, 1931, is latest month plotted]



The output of steel ingots registered an increase of 23.7 per cent with respect to December, but was 34.4 per cent under January, 1930. The ratio of total steel ingot production to capacity declined to 46 per cent during January, as against 70 per cent for January, 1930.

Steel furnaces in blast at the end of the month totaled 102, with a capacity of 57,365 long tons per day. At the close of January, 1930, 172 furnaces were in blast, with a total capacity of 96,370 long tons per day.

Unfilled orders of the United States Steel Corporation at the close of January showed an increase of 4.7 per cent in orders placed during January as compared with the previous month, but were 7.4 per cent below the level of orders for January of the previous year.

receipts, but were 24.5 per cent over the receipts during January, 1930. The Rand output of gold during January exceeded that of December and of January, 1930. Silver production in the United States remained on approximately the same level as for the past several months, but was materially under that reported for January, 1930.

FUELS

Production of bituminous coal in the United States registered a decrease of 2.9 per cent from the December output and was 22.6 per cent lower than during January, 1930. Anthracite production increased during January, being 1.1 per cent above the output of December, but was 12.4 per cent under that of January, 1930.

Production of beehive coke in the United States decreased by 4.7 per cent during January in respect to December, and the January production was about 50.8 per cent of that reported for January, 1930.

AUTOMOBILES AND RUBBER

Automobile production showed an upward trend of a seasonal nature during January. Total production during January was 171,903 cars, or 10.3 per cent above the December output, but was 37.1 per cent under the production in January, 1930. Output of passenger cars was 40.6 per cent under that of January, 1930, and the output of trucks was 14.5 per cent under that of January last year.

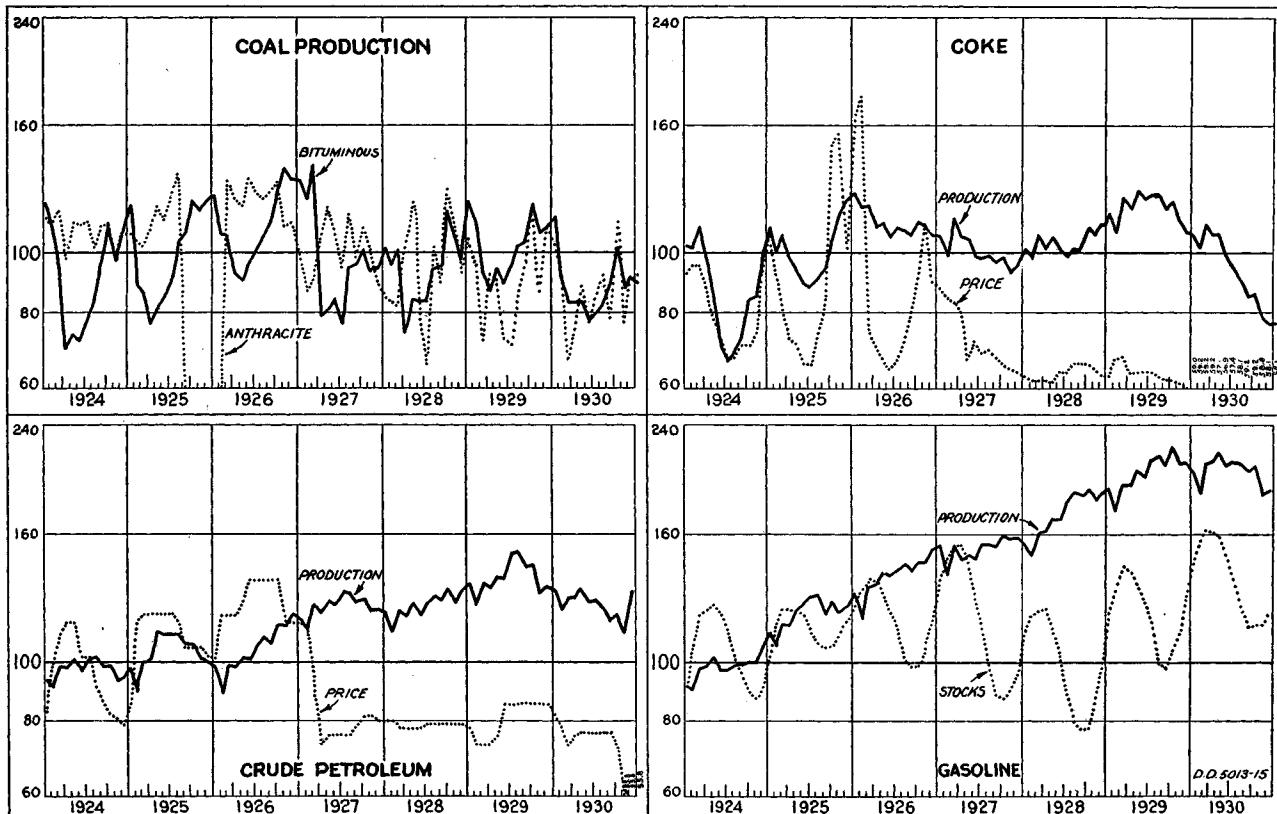
on the same plane as reported for previous months, and were also on the same level as for January, 1930. Women's shoes showed a slight decline in price during January as compared with December.

PAPER AND PRINTING

Shipments of newsprint in the United States were greater than in the month of December, but were under those of January, 1930. Canadian shipments were under those of both prior periods. Production in the United States increased 6.4 per cent from the month of December, but was 15.3 per cent under that of the year previous. Canadian production during January was 0.2 per cent under the December

THE FUEL INDUSTRIES

[Relative numbers, monthly average 1923-1925 taken as 100. January, 1931, is latest month plotted where data were available]



HIDES AND LEATHER

The production of hides, as shown by the number of cattle and sheep slaughtered under Federal inspection, decreased during January. Production of cattle skins was less than in January, 1930, while the number of sheepskins exceeded the year previous by 8.1 per cent. In Canada decreases were recorded in respect to December, but production during the current January exceeded that of January last year. Wholesale prices of hides decreased during January as compared with December, and were 41.8 per cent under those of January, 1930. The price of sole leather was 4.8 per cent under that of December, and was 24.1 per cent under the price quoted during January of the year previous. Wholesale prices of men's shoes remained

figure, and was 10.7 per cent under the figure for January, 1930. Shipments of newsprint in the United States increased over December shipments by 5.8 per cent, but were 15.6 per cent under those of the corresponding period in 1930. Stocks at the mills in the United States at the close of January were somewhat larger than at the close of December, and were 75 per cent over those on hand at the close of January, 1930.

CONSTRUCTION

Building contracts awarded for new construction and engineering projects declined in value during January; the number of projects and the floor space involved were also under those of December. The value of contracts awarded for all types of construc-

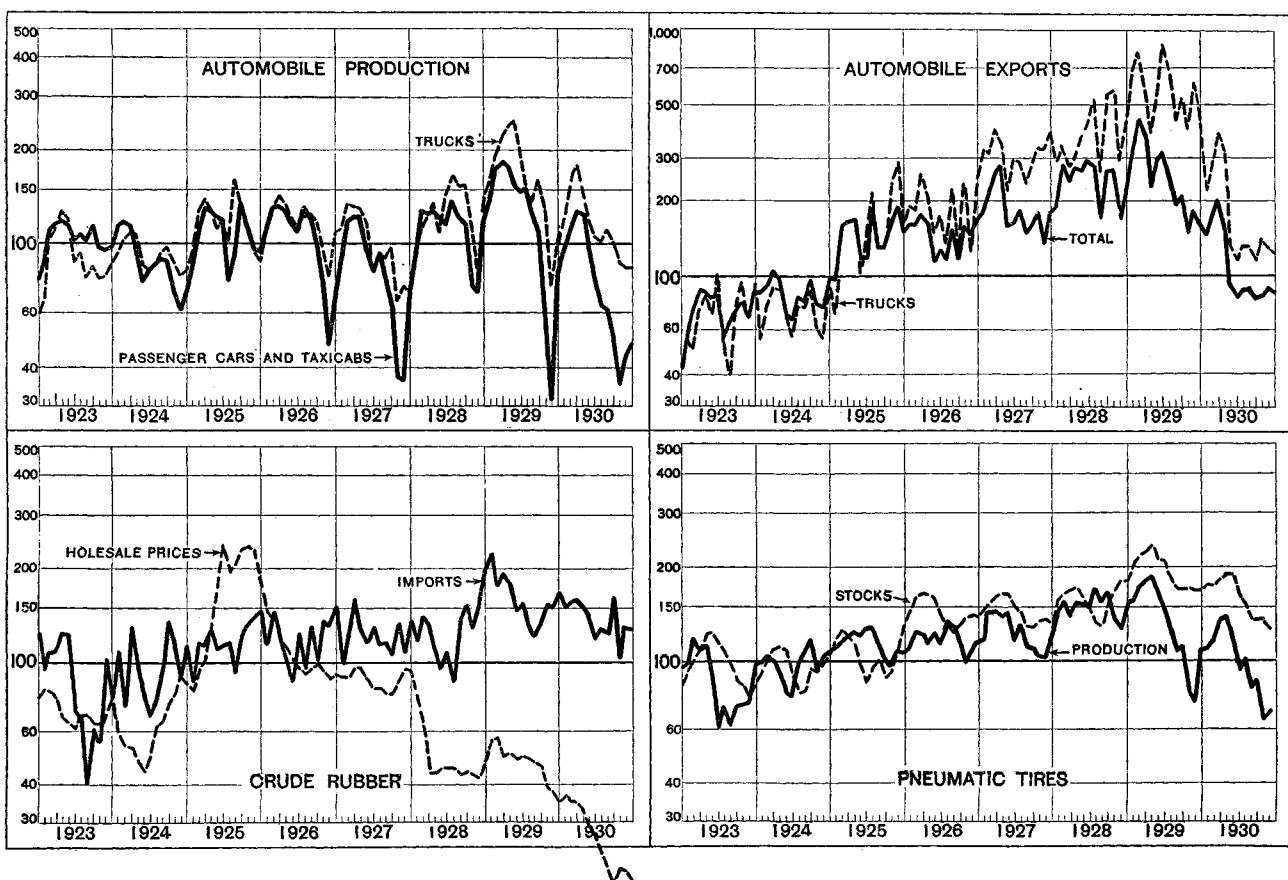
tion was 29.6 per cent under that reported for January, 1930. Compared with the year previous the amount of floor space involved in the total contracts for January decreased by 25.1 per cent, and the same item for industrial buildings dropped 55.6 per cent. The value of contracts awarded for residential construction decreased 23.3 per cent in respect to December, and was 18.3 per cent under that of 1930.

Construction costs increased slightly during the month but were still about 4.7 per cent under those for the corresponding period in 1930. Fire losses in the United States and Canada in January were 3.2 per

season of the year. The January production was also 22.5 per cent under that of January, 1930. Production and shipments of face brick showed declines from previous periods. The volume of unfilled orders was the same as for December, but was under that of January, 1930. Stocks of face brick on hand at the close of January rose slightly but were some 16 per cent under stocks reported for the close of January, 1930. Orders for terra cotta declined from both periods, the value being 59.8 per cent under that reported for January of the year previous. Production of illuminating glass during January was above that

THE AUTOMOBILE AND RUBBER INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. Where available, January, 1931, is latest month plotted]



cent larger than in December, and were 4.0 per cent greater than in January, 1930.

LUMBER

Lumber production in general was on a slightly higher plane than during December but was materially under that of January, 1930. The production of most species, both of softwoods and of hardwoods, increased in comparison with December, but was still under the 1930 production.

STONE, CLAY, AND GLASS

Production of Portland cement showed a decrease in volume of 22.4 per cent from the December output—a decrease somewhat less than normal for this

in December but was 23.2 per cent under that in January, 1930.

FOODSTUFFS

The visible supply of wheat, as well as receipts at the principal centers, increased slightly from the preceding month, and both items exceeded the figures recorded during January, 1930. Shipments of wheat were 8.9 per cent under those of December and 3.2 per cent under those of January, 1930. The visible supply of corn was greater than in December, and was 7.8 per cent over that of January, 1930. Corn receipts were under receipts of both prior periods. Shipments of corn rose during January, but were 23.3 per cent under those of January, 1930. Rice shipments in-

creased over December slightly but were under those of January, 1930.

Receipts, shipments, and local slaughter of cattle and calves decreased from the month of December and were under those of January, 1930. The production of Federally inspected beef and veal declined from December. Cold-storage holdings of these products at the end of January decreased by 3.8 per cent from those of the previous month, and were 26.8 per cent under those of the year previous. The apparent consumption of beef during the month was under that of both previous periods. Total meat in cold storage at

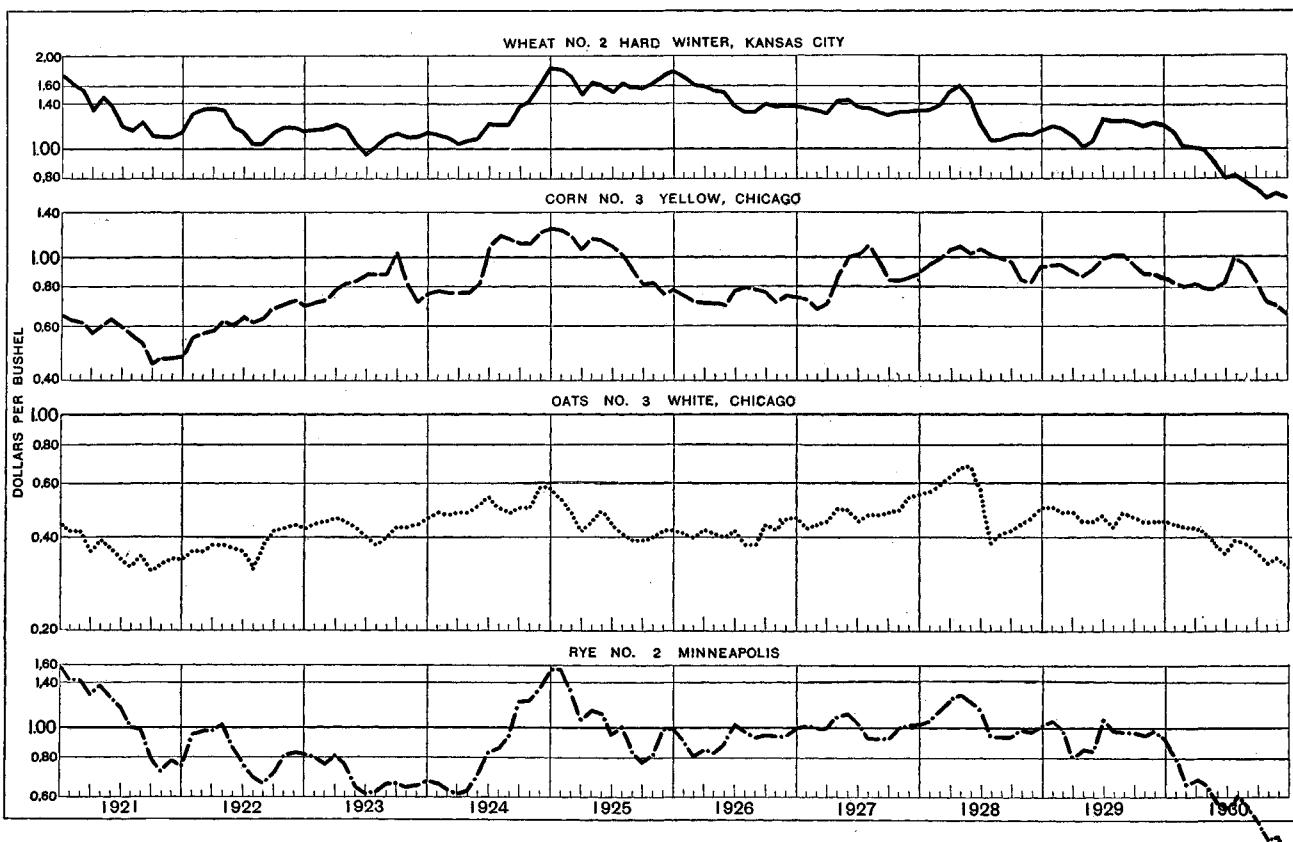
Stocks of sugar at the end of January, on the other hand, were greater than at the close of January, 1930.

The visible supply of coffee at the close of January was greater than at the close of the month previous. Receipts of coffee in Brazil were greater than for both previous periods, and the clearances from Brazil were also greater than for the two previous periods. Price of Rio No. 7 declined during the month and was 34.0 per cent under that of 1930. The price of tea remained the same as during November and December, but was 24.9 per cent under the price of January, 1930.

Car-lot shipments of apples declined by 3.3 per cent

MOVEMENT OF GRAIN PRICES

[Weighted price per bushel. January, 1931, is latest month plotted]



the close of January was over that of December, but under that of January, 1930.

Wholesale prices of western dressed steers in New York and fresh native steers in Chicago remained the same as in December, but were materially under prices in January, 1930.

Cold-storage holdings of butter showed a loss of 26.2 per cent from those at the close of December, and were 22.3 per cent smaller than holdings of the year previous. The amount of cheese held in cold storage also decreased from the December holdings, but was practically the same as reported at the close of January, 1930. Shipments of refined sugar from two ports during January increased over December, but were 29.2 per cent less than those reported for January, 1930.

from those of December, but were still 28.0 per cent over the figure for January, 1930. Onions in car-lot shipments exceeded December shipments by 53.2 per cent, and shipments of citrus fruit increased seasonally by 13.0 per cent in comparison with December. Potato shipments were materially above those of December and slightly exceeded those of 1930.

TRANSPORTATION

Transportation on inland waterways and canals reflected seasonal conditions and was under the level recorded during December. The Cape Cod Canal reported an increased volume of traffic as compared with December, but the traffic in other principal canals in the northern climates was entirely at a stand-

still. Freight-car loadings by the railroads, as a whole, were greater than during December, but were 17.7 per cent under the total loadings reported for January, 1930. Carload shipments of grain and grain products as compared with December gained 36.8 per cent, livestock 32.0 per cent, coal and coke 28.0 per cent, forest products 29.5 per cent, ore 14.3 per cent, merchandise (less than carload shipments) 21.6 per cent, and miscellaneous commodities 24.4 per cent. None of the commodity groupings exceeded the loadings reported for January, 1930. Shipments of locomotives declined to 16 in number as against 49 in January, 1930. Shipments of new freight cars increased over December, but were only 10.4 per cent of the shipments for January, 1930.

BANKING AND FINANCING

Bank debits outside New York City were 5.9 per cent lower than those of the previous month and 15.4 per cent lower than for the corresponding period of the previous year. Total loans and discounts by Federal reserve member banks at the close of January showed a slight decrease from December, and were 5.5 per cent under the figure reported for January, 1930. The value of new life insurance written during January registered a decline of 20.1 per cent from the preceding period, and was 10.7 per cent under that of the previous year. Total dividends and payments paid by corporations during January exceeded those of December and were of approximately the same amount as reported for January, 1930.

More business firms failed during January than during the previous month, and the liabilities of such firms were also greater than for the month previous. The number of business failures was materially greater and the liabilities were far greater than those of a year ago. Prices of representative stocks were slightly higher

than in December but materially under a year ago. Bond prices showed substantial gains over comparative periods.

Brokers' loans at the end of the month were smaller than at the end of both the month of December and the preceding year. Interest rates on call-loan renewals showed a decrease from the December rate, and rates on 60 to 90 day commercial paper also declined during the month. Both rates were considerably lower than a year ago.

GOLD, SILVER, AND FOREIGN EXCHANGE

Gold receipts at the United States mint were substantially less than for December, but exceeded those reported for January, 1930. Gold exports were slightly over those of December but were materially under such exports for January, 1930. Imports of gold, however, were slightly larger than in the preceding period, and were materially greater than those of January, 1930. Silver production in the United States during January registered a slight reduction from the preceding December and was substantially under the 1930 production. Canadian production of the metal also showed a slight loss from that of December, but exceeded the production of January, 1930. Gains were noted in both exports and imports of silver during January, but both were below the levels of the corresponding month of 1930.

Foreign exchange quotations in general showed little change from December, there being slight declines in rates in England, Belgium, Netherlands, Japan, Canada, and Brazil. Argentine exchange rates witnessed the largest drop. No country witnessed an increase in exchange rates as compared with those of December. Rates in Japan and Canada increased as compared with a year ago, while rates in England, Sweden, India, Argentina, and Brazil declined.

INDEXES OF BUSINESS

The index numbers presented in this table are designed to show the trend in production, prices, trade, etc., by commodities or groups. They consist in general of weighted combinations of series of individual relative numbers; often the individual relative numbers are also given. 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	Maxi- mum since Jan. 1, 1923	Mini- mum since Jan. 1, 1923	1928		1929		1930		1931			
			Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber		
PRODUCTION												
TOTAL INDUSTRIAL												
Unadjusted, except for working days-----	125	78	115	108	116	108	95	104	85	78		
Adjusted for seasonal variations-----	127	82	116	117	118	106	101	104	85	82		
MANUFACTURING												
Total (adjusted for working days only)-----	127	76	115	109	116	107	92	103	84	76		
Total (adjusted for seasonal variations)-----	129	80	113	114	118	108	101	104	84	80		
Iron and steel-----	155	59	120	123	118	100	90	99	65	59		
Textiles-----	121	77	113	111	116	108	96	103	93	87		
Food products-----	110	89	102	104	103	96	95	96	94	89		
Paper and printing-----	130	91	121	122	123	123	118	120	103	101		
Lumber-----	110	78	85	87	89							
Automobiles-----	166	45	129	138	142	113	65	97	74	85		
Leather and shoes-----	134	80	99	99	99	108	100	100	80	81		
Cement-----	126	83	117	119	126	109	110	108	86	83		
Glass, plate-----	174	65	143	146	141	149	117	124	91	65		
Nonferrous metals-----	137	78	126	127	126	119	113	105	87	85		
Petroleum refining-----	178	84	159	158	159	171	167	163	151	149		
Rubber tires-----	169	66	154	144	148	94	80	106	77	73		
Tobacco manufactures-----	143	93	124	127	131	130	133	131	119	128		
MINERALS												
Total (adjusted for working days only)-----	128	84	117	106	114	114	110	108	95	89		
Total (adjusted for seasonal variations)-----	120	89	113	112	118	110	116	112	92	94		
Bituminous coal-----	125	77	101	98	105	98	104	100	86	85		
Anthracite coal-----	133	1	111	97	106	88	117	106	83	93		
Crude petroleum-----	147	88	127	131	137	132	133	132	114	111		
Iron-ore shipments-----	143	0	106			98			51			
Copper-----	142	71	133	133	129	118	115	101	83	76		
Zinc-----	127	65	111	106	102	106	98	104	70	68		
Lead-----	125	75	111	109	120	117	105	95	83	92		
Silver-----	123	66	93	100	94	114	87	88	73	71		
ANIMAL PRODUCTS (Marketing)												
Total-----	124	79	93	92	96	95	93	95	89	98		
Wool-----	545	14	70	55	34	63	70	49	35	57		
Livestock-----	131	76	98	95	102	96	90	98	88	94		
Poultry and eggs-----	148	67	110	126	85	137	137	89	122	138		
Dairy products-----	164	64	77	78	95	81	84	92	78	93		
Fish-----	283	44	131	119	87	154	102	135	146	99		
CROPS (Marketing)												
Total-----	252	45	180	152	113	155	128	79	139	98		
Grains *-----	214	38	122	124	100	69	90	79	72	80		
Vegetables *-----	199	60	94	69	94	91	77	89	90	79		
Fruits *-----	266	43	119	70	92	93	53	53	109	67		
Cotton products *-----	373	6	258	206	100	234	183	76	241	145		
Miscellaneous crops *-----	344	3	209	196	243	296	179	116	11	5		

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

INDEXES OF BUSINESS—Continued

Relative to 1923-1925 monthly average as 100	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1928		1929		1930		1931				
			November	December	January	November	December	January					
PRODUCTION—Continued													
FOREST PRODUCTS													
Total	112	55	84	76	82	81	70	63	63	58			
Lumber	112	49	79	71	78	77	65	59	57	51			
Pulpwood	151	54	116	111	123	113	100	106	105	116			
Gum (rosin and turpentine)*	204	18	119	122	41	142	127	48	113	118			
Distilled wood	148	47	104	104	99	95	94	100	67	67			
NEW ORDERS													
Total	138	49	102	80	99	73	72	76	49	49			
Textiles	179	56	113	88	105	89	73	85	74	61			
Iron and steel	158	58	116	113	134	81	98	117	58	71			
Lumber	141	36	99	67	80	63	52	50	37	34			
Paper and printing	128	85	114	99	113	106	92	115	93	86			
Stone and clay products	129	49	101	82	87	84	73	73	53	49			
STOCKS													
Grand total	162	82	138	142	139	157	158	151	162	164			
Total manufactured goods	128	88	115	122	127	116	119	122	119	121			
Foodstuffs	144	79	87	97	107	104	110	105	93	95			
Textiles	139	78	118	129	127	121	131	125	97	109			
Iron and steel	158	78	143	147	152	134	135	147	146	146			
Nonferrous metals	234	74	125	125	126	150	165	178	231	228			
Lumber	125	78	107	113	116	113	116	118	114	117			
Stone, clay, etc.	198	62	144	163	190	147	172	186	163	166			
Leather	123	66	75	77	76	74	75	75	83	84			
Rubber	199	77	156	164	160	146	144	144	116	111			
Paper	156	46	133	132	145	90	73	72	122	123			
Chemicals and oils	141	84	112	117	126	124	127	130	124	126			
Total raw materials	193	68	154	156	148	186	186	172	193	195			
Foodstuffs	230	68	155	163	158	219	213	198	200	205			
Textiles	243	43	170	173	161	194	203	188	238	242			
Metals	304	54	126	97	89	122	115	100	140	130			
Chemicals and oils	146	72	136	136	125	129	129	118	129	124			
UNFILLED ORDERS													
Total	157	64	74	71	77	74	78	81	59	62			
Textiles	154	31	72	72	75	55	51	55	37	34			
Iron and steel	159	63	76	83	86	81	87	90	69	76			
Transportation equipment	204	35	49	35	54	114	116	118	81	80			
Lumber	142	47	84	62	74	58	66	69	43	47			
RETAIL TRADE													
Mail-order houses (2 houses)	275	68	188	227	145	225	275	157	170	222			
CHAIN STORES:													
Ten-cent	308	62	158	305	112	174	308	117	159	298			
Restaurant	116	87	100	108	102	110	112	110	100	107			
DEPARTMENT STORES:													
Sales	189	71	125	192	90	125	191	88	112	165			
Stocks	117	83	115	94		115	94		104				
COST OF LIVING													
National Industrial Conference Board Indexes													
(Relative to July, 1914)													
All items weighted	172	148	163	162	161	163	162	160	150	148			
Food (Department of Labor)	167	137	157	156	155	160	158	155	141	137			
Shelter	186	152	160	160	159	159	159	159	152	150			
Clothing	177	147	172	171	169	168	169	166	149	147			
Fuel and light (combined)	179	156	162	163	163	162	162	163	159	159			
Fuel	208	174	183	184	184	183	183	184	180	180			
Light	123	118	121	121	121	120	120	121	119	119			
Sundries	176	164	171	171	170	170	169	168	165	164			

* 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			1931		
			November	December	January	November	December	January	November	December	January		
EMPLOYMENT													
(Relative to 1923-1925 monthly average as 100)													
Number employed, by industries:													
Total, all classes	106	76	99	98	98	99	95	93	81	79	76		
Iron and steel	108	76	98	97	97	97	92	92	80	78	76		
Machinery	122	81	104	105	107	115	112	110	85	83	81		
Textiles	111	76	96	97	96	97	94	93	80	78	76		
Food products	109	90	102	102	99	102	100	97	94	92	90		
Paper and printing	107	96	104	104	103	107	107	105	98	98	96		
Lumber and products	104	54	91	88	86	87	82	77	62	58	54		
Transportation equipment—													
Group	110	65	90	90	94	83	81	83	65	65	65		
Automobiles	131	68	109	108	118	84	80	86	68	69	68		
Leather and products	112	75	89	89	92	94	90	91	77	75	78		
Cement, clay, and glass	107	59	92	90	84	89	82	75	70	66	59		
Nonferrous metals	113	68	102	102	102	94	90	86	71	70	68		
Chemicals—													
Group	119	90	107	107	108	114	112	111	99	98	96		
Petroleum refining	125	95	104	105	104	124	121	121	100	100	98		
Rubber products	117	73	110	110	112	91	89	90	73	73	73		
Tobacco products	109	75	99	96	84	96	89	84	87	85	75		
Amount of pay roll, by industries:													
Total, all classes	112	68	104	104	101	103	99	94	75	74	68		
Iron and steel	114	62	105	103	101	100	94	91	69	67	62		
Machinery	132	70	110	114	112	122	120	114	75	75	70		
Textiles	111	68	97	100	97	96	94	92	73	72	68		
Food products	109	93	105	106	102	106	106	103	97	95	93		
Paper and printing	118	92	112	114	111	117	118	115	105	106	101		
Lumber and products	107	44	94	91	83	89	83	73	55	50	44		
Transportation equipment—													
Group	117	52	96	96	94	89	86	81	61	61	52		
Automobiles	152	40	115	112	115	84	73	74	57	56	40		
Leather and products	116	55	80	86	90	84	84	85	55	56	61		
Cement, clay, and glass	108	47	91	88	79	86	80	67	61	58	47		
Nonferrous metals	128	64	119	121	117	100	96	92	67	68	64		
Chemicals—													
Group	118	90	108	108	106	116	114	109	96	95	90		
Petroleum refining	129	90	107	107	105	126	125	121	103	101	99		
Rubber products	150	59	112	114	112	86	85	89	59	63	64		
Tobacco products	111	64	94	94	76	94	89	77	77	78	64		
WHOLESALE PRICES													
Department of Labor Indexes													
(Relative to 1926 monthly average as 100)													
All commodities	105	77	97	97	97	94	94	93	80	78	77		
Farm products	114	74	102	104	106	101	102	101	79	75	74		
Food, etc.	107	80	100	98	99	99	99	97	86	82	80		
Hides and leather products	127	89	116	116	114	108	107	105	94	91	89		
Textile products	114	71	96	96	96	92	90	89	73	72	71		
Fuel and lighting	112	70	84	84	83	82	81	80	72	71	70		
Metals and metal products	113	89	102	103	104	102	102	101	90	90	89		
Building materials	116	83	96	97	97	96	96	96	86	84	83		
Chemicals	104	84	96	96	96	94	94	93	85	85	84		
House-furnishing goods	111	91	96	96	97	97	97	97	95	91	91		
Miscellaneous	127	65	80	80	81	80	80	79	68	67	65		
Classified by condition of manufacture:													
Semimanufactured articles	128	73	97	97	97	96	94	93	76	74	73		
Finished products	103	81	97	96	97	94	94	93	84	82	81		
Raw materials	109	73	96	97	99	95	95	94	77	74	73		
All commodities except farm and food products	111	78	94	94	93	92	91	90	80	79	78		
Commercial Indexes													
(Relative to 1926 monthly average as 100)													
Dun's	106	83	103	102	103	100	99	98	86	85	83		
Bradstreet's	112	72	102	100	101	95	90	89	76	74	72		

INDEXES OF BUSINESS—Continued

Relative to monthly average indicated	Maximum since Jan. 1, 1923	Minimum since Jan. 1, 1923	1928		1929			1930			1931			
			November	December	January	November	December	January	November	December				
PRICE INDEX NUMBERS														
FARM PRICES														
(Relative to 1909-1914 average as 100)														
All groups	152	94	134	134	133	136	135	134	103	97	94			
Grains	178	77	110	112	115	118	119	118	80	80	77			
Fruits and vegetables	253	108	109	108	109	159	163	167	114	108	108			
Meat animals	174	98	150	143	146	144	143	146	118	112	112			
Dairy and poultry	166	108	155	159	149	157	157	146	130	120	108			
Cotton and cottonseed	252	72	146	148	148	132	130	128	80	73	72			
Unclassified	108	67	86	90	92	90	87	87	73	70	69			

SALES OF THE GREAT ATLANTIC & PACIFIC TEA CO.¹

YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES			YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES							
	Total	Number of weeks	Weekly average	Total	Weekly average	Total		Total	Number of weeks	Weekly average	Total	Weekly average						
1928																		
September	\$69,336	4	\$17,334	309,451	77,363		January	104,271	5	20,854	492,425	98,485						
October	93,429	5	18,686	419,079	83,816		February	86,122	4	21,530	400,568	100,146						
November	73,844	4	18,461	338,704	84,676		March	83,976	4	20,994	395,331	98,834						
December	74,911	4	18,728	345,595	86,399		April	86,138	4	21,534	404,319	101,080						
1929																		
January	91,983	5	18,397	425,500	85,118		May	104,671	5	20,934	503,976	100,791						
February	85,846	4	21,462	396,225	99,056		June	82,882	4	20,721	407,085	101,776						
March	77,712	4	19,428	363,786	90,947		July	96,724	5	19,345	488,682	97,735						
April	77,324	4	19,331	350,129	89,782		August	78,363	4	19,591	389,113	97,278						
May	97,319	5	19,464	451,680	90,336		September	77,023	4	19,256	378,627	94,657						
June	76,653	4	19,163	353,289	88,322		October	100,960	5	20,192	495,509	99,102						
July	93,671	5	18,734	427,431	85,486		November	79,820	4	19,955	399,742	99,935						
August	75,191	4	18,798	335,628	83,907		December	81,347	4	20,337	417,163	104,291						
September	75,246	4	18,811	336,309	84,077		1931											
October	105,995	5	21,199	468,258	93,102		January	97,559	5	19,512	510,421	102,084						
November	\$83,714	4	\$20,928	381,106	95,277													
December	87,260	4	21,815	407,339	101,835													

¹ Compiled by the *Atlantic & Pacific Tea Co.*, and represent the sales of identical stores for the periods shown.INDEXES OF EMPLOYMENT AND PAY-ROLL TOTALS¹

[Monthly average, 1929=100]

Year and month	Anthracite mining		Bituminous coal mining		Metalliferous mining		Quarrying and non-metallic mining		Telephone and telegraph		Power, light, and water		Operation and maintenance of electric railroads ²		Wholesale trade		Retail trade		Hotels		Canning and preserving	
	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals	Employment	Pay-roll totals
1929																						
June	92.9	80.7	94.7	90.0	103.8	105.6	106.6	110.5	101.5	100.0	100.7	100.4	101.2	101.7	99.2	98.6	97.4	93.6	99.3	98.7	76.6	71.9
July	83.2	64.7	94.1	85.6	101.5	99.0	104.7	104.7	102.6	101.4	103.2	102.3	102.2	101.9	100.4	100.5	93.6	95.9	101.1	99.8	126.8	109.2
August	91.1	78.4	95.7	92.8	103.0	100.1	106.7	110.3	103.7	101.8	105.4	102.8	102.0	101.3	100.0	93.6	95.2	102.6	94.6	184.8	180.1	
September	101.9	103.8	97.2	98.6	101.2	102.0	106.6	109.8	102.5	100.4	105.5	106.8	101.4	101.5	101.9	103.3	97.6	99.2	102.8	102.2	210.1	207.9
October	106.1	133.9	98.8	106.8	101.9	103.1	103.6	105.8	101.9	101.5	105.7	106.0	100.5	100.0	102.6	102.7	101.7	102.6	100.6	100.2	143.3	134.5
November	104.0	100.5	101.0	106.0	103.0	102.2	86.6	96.0	101.9	101.2	104.7	104.1	99.4	98.4	102.9	101.9	106.7	105.2	100.0	104.7	95.1	91.6
December	107.1	137.2	101.3	108.2	98.5	99.7	90.1	85.4	101.8	103.9	102.5	105.8	99.8	102.6	104.7	126.2	120.6	97.7	98.9	61.3	63.4	
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	100.0	100.0	100.0	100.0	100.0	100.0	
1930																						
January	102.1	105.8	102.5	101.4	95.7	92.7	79.6	71.9	101.6	105.1	99.6	99.7	97.1	97.8	100.0	100.0	98.9	99.7	100.4	100.3	46.1	50.3
February	106.9	121.5	102.4	102.1	92.3	92.5	79.8	73.5	100.2	101.9	98.8	100.4	95.1	95.7	98.5	98.3	94.4	96.0	102.4	103.8	45.7	51.5
March	82.6	78.5	98.6	86.4	90.9	90.8	83.0	80.0	99.4	105.8	99.7	102.1	94.4	95.4	97.7	99.7	93.9	95.5	102.4	104.4	49.7	50.8
April	84.1	75.0	94.4	81.7	89.3	88.3	87.4	85.4	93.9	103.4	100.7	102.6	95.2	97.1	97.3	97.5	100.1	100.3	74.8	72.6		
May	93.8	98.8	90.4	77.5	87.5	85.6	90.8	90.2	99.7	103.2	103.4	104.5	95.2	96.0	96.8	97.4	96.7	97.3	98.0	98.4	65.7	66.9
June	90.8	94.3	88.4	75.6	84.6	81.6	90.9	99.8	103.4	104.6	107.8	94.8	97.0	96.5	98.0	93.9	96.8	98.0	98.1	83.0	81.5	
July	91.6	84.0	88.0	68.9	80.5	71.9	89.9	85.5	100.0	106.4	105.6	105.9	95.3	95.6	96.0	96.0	89.0	91.7	101.3	99.8	126.3	112.7
August	80.2	28.8	89.2	71.1	79.0	71.0	89.3	85.8	98.8	102.5	106.4	106.6	92.9	92.1	95.0	93.6	85.6	87.6	101.5	98.6	185.7	172.0
September	93.8	91.6	90.5	74.9	78.1	69.8	87.7	82.5	96.8	102.2	105.2	106.1	91.8	90.5	94.8	93.6	92.0	92.4	100.1	97.1	246.6	214.8
October	99.0	117.2	91.8	79.4	77.2	68.6	84.7	79.3	94.5	100.9	104.8	105.6	91.0	88.9	94.2	92.9	95.5	95.1	97.5	95.5	164.7	140.0
November	97.2	98.0	92.5	79.1	72.8	63.4	78.3	66.8	93.0	97.9	103.4	103.7	89.3	87.7	92.6	91.0	98.4	96.8	95.2	93.6	96.7	82.9
December	99.1	100.0	92.5	77.7	70.1	59.9	70.2	59.9	91.6	101.3	103.2	106.3	88.8	88.6	92.0	91.3	115.1	107.7	93.5	91.5	61.6	57.4
Average	93.4	95.3	93.4	81.3	83.2	78.0	84.3	79.3	97.9	102.9	103.0	104.3	93.4	93.5	96.0	95.9	95.9	96.2	99.2	98.5	103.9	96.1

¹ Compiled by the U. S. Department of Labor, Bureau of Labor Statistics.² Not including car building and repairing, electric railroads; see vehicles group, manufacturing industries, page 14, et seq.

COMPARATIVE STATEMENT OF INCOME TAX COLLECTED¹

DISTRICTS AND STATES	CORPORATION		INDIVIDUAL		TOTAL INCOME TAX	
	1929	1930	1929	1930	1929	1930
Alabama.....	\$3,401,311.59	\$2,999,488.24	\$4,456,717.66	\$2,464,056.66	\$7,858,029.25	\$5,463,544.90
Arizona.....	1,078,842.94	1,806,215.11	1,665,919.42	1,226,822.59	2,744,762.36	3,033,037.67
Arkansas.....	2,060,772.81	1,672,972.41	1,182,370.91	1,075,435.52	3,243,143.72	2,748,407.93
First California.....	40,414,241.98	31,550,854.42	36,716,837.88	21,382,660.20	77,131,079.86	52,933,514.62
Sixth California.....	29,034,863.08	25,480,594.64	35,623,843.42	32,231,932.43	64,658,736.50	57,712,527.07
Total State of California.....	69,449,135.06	57,031,449.06	72,340,881.30	53,614,592.63	141,789,816.36	110,646,041.69
Colorado.....	6,735,858.76	10,697,552.17	4,713,742.06	4,023,097.46	11,449,600.82	14,720,649.63
Connecticut.....	20,347,368.93	21,937,164.11	24,163,039.04	24,892,560.76	44,510,407.97	46,829,724.79
Delaware.....	21,372,333.22	30,629,033.76	10,784,704.45	15,455,115.87	32,157,037.67	46,084,149.63
Florida.....	3,358,449.95	2,929,930.12	9,905,719.99	6,777,155.08	13,284,169.94	9,707,085.20
Georgia.....	8,730,212.81	5,882,837.16	4,567,206.72	3,177,310.41	13,297,419.53	9,060,147.57
Hawaii.....	4,140,857.35	3,495,511.52	1,499,171.17	1,336,997.28	5,640,028.52	4,832,508.80
Idaho.....	652,586.14	566,514.83	311,336.44	227,143.27	963,922.58	783,658.10
First Illinois.....	116,530,058.28	121,087,654.46	112,696,523.29	86,917,240.01	229,226,581.57	208,004,894.47
Eighth Illinois.....	4,426,031.31	4,063,066.08	3,334,305.59	2,571,949.37	7,760,336.90	6,635,015.45
Total State of Illinois.....	120,956,089.59	125,150,720.54	116,030,828.88	89,489,189.38	236,986,918.47	214,639,906.92
Indiana.....	14,167,362.11	13,096,233.12	10,916,704.91	9,053,704.82	35,084,067.02	22,149,937.94
Iowa.....	7,375,340.77	7,006,075.63	6,696,209.13	4,341,501.42	14,071,549.90	11,347,577.05
Kansas.....	13,178,378.69	14,740,244.36	3,476,027.72	3,013,086.55	16,654,906.41	17,753,330.91
Kentucky.....	8,988,613.61	8,666,518.44	6,348,466.26	5,706,939.23	15,337,079.87	14,373,457.67
Louisiana.....	7,627,078.59	5,799,123.50	4,811,158.02	3,342,046.33	12,438,236.61	9,141,169.92
Maine.....	4,083,612.63	4,257,920.48	4,342,630.19	3,666,813.40	8,426,242.82	7,924,738.88
Maryland, including District of Columbia.....	25,186,617.52	23,928,740.28	26,014,411.98	24,839,088.33	51,201,629.50	48,767,778.61
Massachusetts.....	47,799,109.32	46,693,929.84	62,622,739.04	60,154,122.51	110,421,848.36	106,848,052.35
Michigan.....	86,285,492.84	73,024,066.01	54,020,249.72	54,307,845.69	140,305,742.56	127,331,911.70
Minnesota.....	18,135,237.59	15,255,212.16	12,654,845.07	10,833,727.49	30,790,082.66	26,068,939.65
Mississippi.....	1,295,776.73	1,310,155.20	848,821.17	732,571.07	2,144,397.90	2,042,726.27
First Missouri.....	23,046,399.40	23,017,466.60	15,392,980.70	14,449,387.01	38,439,380.10	37,466,873.61
Sixth Missouri.....	7,753,519.94	7,425,788.34	5,809,465.64	4,656,853.82	13,562,985.58	12,082,642.16
Total State of Missouri.....	30,799,919.34	30,443,274.94	21,202,446.34	19,106,240.83	52,002,365.68	49,549,515.77
Montana.....	1,407,357.65	1,016,732.76	1,734,455.73	1,175,985.41	3,141,843.38	2,192,718.17
Nebraska.....	3,277,565.34	2,906,383.19	2,562,260.26	2,200,077.76	5,839,825.60	5,106,460.95
Nevada.....	811,239.21	1,019,779.27	511,549.46	350,789.32	1,322,788.67	1,370,565.59
New Hampshire.....	1,337,113.69	1,276,934.78	2,078,311.12	1,977,989.57	3,415,424.81	3,254,924.35
First New Jersey.....	8,292,240.55	6,313,413.47	12,787,539.32	8,675,201.32	21,079,779.87	14,988,614.79
Fifth New Jersey.....	36,511,154.21	41,114,245.37	40,765,631.71	37,420,268.25	77,276,797.92	78,534,513.62
Total State of New Jersey.....	44,803,394.76	47,427,658.84	53,553,183.03	46,095,469.57	98,356,577.79	93,523,128.41
New Mexico.....	536,072.73	390,147.62	487,595.49	345,702.24	1,024,032.22	735,849.86
First New York.....	16,079,638.70	12,533,868.81	34,595,412.44	29,689,633.49	50,675,096.14	42,223,502.30
Second New York.....	220,559,403.75	209,206,721.14	261,055,906.15	252,308,901.88	481,615,309.90	461,515,623.02
Third New York.....	91,772,377.09	97,401,533.08	127,508,978.44	96,903,252.65	219,281,355.53	194,304,785.73
Fourteenth New York.....	18,579,515.88	20,519,952.18	26,208,842.16	22,186,222.22	44,788,388.04	42,700,174.40
Twenty-first New York.....	6,689,645.61	6,680,277.52	7,891,776.51	7,388,565.64	14,581,422.12	14,068,843.06
Twenty-eighth New York.....	21,205,787.06	20,047,551.65	20,274,908.82	16,410,841.57	41,480,695.88	36,458,393.22
Total State of New York.....	374,886,443.09	366,389,904.38	477,535,824.52	424,887,417.35	852,422,267.61	791,277,321.73
North Carolina.....	12,549,920.51	11,612,297.88	6,604,163.99	3,953,547.40	19,154,089.50	15,565,845.28
North Dakota.....	394,164.14	298,492.18	240,326.13	134,285.42	634,490.27	432,777.60
First Ohio.....	20,496,334.81	16,156,196.27	19,020,264.35	13,603,063.85	39,516,599.16	29,819,260.12
Tenth Ohio.....	9,659,707.48	10,189,850.43	6,767,328.35	4,766,654.38	16,427,035.83	14,956,504.81
Eleventh Ohio.....	5,707,520.48	5,671,172.80	3,298,559.22	3,796,521.03	9,006,079.70	9,467,693.83
Eighteenth Ohio.....	40,672,657.48	46,330,750.84	24,648,581.63	23,811,556.31	65,321,239.11	70,142,307.15
Total State of Ohio.....	76,536,220.25	78,347,970.34	53,734,733.55	46,037,795.57	130,270,953.80	124,385,765.91
Oklahoma.....	10,490,728.59	10,590,699.18	7,496,496.29	6,742,117.96	17,987,224.88	17,332,817.14
Oregon.....	3,186,828.87	2,917,289.55	2,870,804.30	2,070,372.80	6,057,633.17	4,987,662.35
First Pennsylvania.....	64,536,739.01	65,101,683.82	58,675,857.97	55,114,506.10	123,212,596.98	120,216,189.92
Twelfth Pennsylvania.....	8,539,007.57	10,754,634.35	7,129,909.43	5,866,255.27	15,668,917.00	16,626,889.62
Twenty-third Pennsylvania.....	39,894,443.74	42,586,956.15	35,499,853.64	35,905,719.26	75,394,297.28	78,492,675.41
Total State of Pennsylvania.....	112,970,190.32	118,443,274.32	101,035,620.94	96,886,480.63	214,275,811.26	215,329,754.95
Rhode Island.....	5,991,805.55	6,065,858.03	8,071,286.67	7,970,418.27	14,063,092.22	14,036,276.30
South Carolina.....	2,197,282.57	1,855,424.83	834,341.36	653,427.27	3,031,623.93	2,508,852.10
South Dakota.....	471,350.53	457,074.24	332,208.47	445,199.06	803,559.00	902,273.30
Tennessee.....	7,916,780.56	6,748,448.93	6,220,866.02	4,302,294.63	14,137,646.58	11,050,743.56
First Texas.....	12,088,934.02	13,398,176.51	8,796,811.94	7,824,337.66	20,885,745.96	21,222,514.17
Second Texas.....	8,947,216.65	8,536,870.55	7,812,463.03	7,130,238.57	16,759,679.68	15,667,109.12
Total State of Texas.....	21,036,150.67	21,935,047.06	16,609,274.97	14,954,576.23	37,645,425.64	36,889,623.29
Utah.....	2,477,994.30	1,976,039.48	1,137,570.98	916,310.76	3,615,565.28	2,892,350.24
Vermont.....	1,121,405.03	1,044,330.45	1,116,869.75	1,082,887.00	2,238,274.78	2,127,217.45
Virginia.....	14,163,923.81	14,690,475.17	5,110,832.14	3,559,290.03	19,276,755.95	18,285,765.70
Washington, including Alaska.....	8,646,449.83	7,642,812.82	5,188,951.87	6,504,127.37	13,835,401.70	14,146,940.19
West Virginia.....	7,147,036.44	6,625,880.15	3,187,417.74	2,815,645.54	10,334,454.18	9,441,425.69
Wisconsin.....	22,545,077.60	21,534,418.97	13,587,437.04	11,183,614.74	36,132,514.64	32,718,033.71
Wyoming.....	562,079.72	372,525.18	443,395.81	269,774.80	1,005,475.53	642,299.98
Total.....	1,264,673,434.65	1,242,595,782.68	1,238,132,324.22	1,090,372,611.28	2,502,805,758.87	2,332,968,393.96

SUMMARY OF INCOME TAX COLLECTIONS

QUARTER	CALENDAR YEAR 1929			CALENDAR YEAR 1930		
	CORPORATION	INDIVIDUAL	TOTAL	CORPORATION	INDIVIDUAL	TOTAL
Jan. 1-Mar. 31.....	\$329,737,408.10	\$346,356,152.88	\$676,093,560.98	\$321,824,690.56	\$306,254,777.81	\$628,079,468.37
Apr. 1-June 30.....	309,872,212.57	332,237,057.53	642,109,270.10	316,525,962.06	281,050,872.06	597,576,834.12
July 1-Sept. 30.....	316,730,969.06	292,735,048.79	609,466,017.85	302,675,618.79	251,050,206.07	553,725,824.86
Oct. 1-Dec. 31.....	308,332,844.92	266,804,065.02	575,36,909.94	301,569,511.27	252,016,755.34	553,586,266.61
Total (12 months).....	1,264,673,434.65	1,238,132,324.22	2,502,805,758.87	1,242,595,782.68	1,090,372,611.28	2,332,968,393.96

¹ Compiled by the Treasury Department, Internal Revenue Bureau, and represent the collection of income taxes for the calendar years of 1929 and 1930; by States and collection districts.

RELATIVE BANK DEBITS AT CLEARING-HOUSE CENTERS¹
GROUPED BY FEDERAL RESERVE DISTRICTS

[Table continued on p. 21]

YEAR AND MONTH	U. S. TOTAL ¹⁴¹ CENTERS	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	Philadel- phia	Scranton	Trenton	
		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
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	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	111.6
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	118.6	146.5
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	137.2	138.9
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	130.6	137.2	159.6
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	168.5
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	139.6	201.6
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	145.5	175.6
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	146.6	187.4
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	148.8	204.7
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	171.1	144.8	148.8	230.3
1930 monthly average...	147.4	142.4	147.8	219.8	110.7	156.8	157.5	211.9	150.1	132.4	157.5	136.9	135.1	124.2	127.0	176.0
1929																
April.....	190.7	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.....	210.4	186.3	195.1	273.9	152.1	179.2	261.5	191.9	213.3	158.3	263.4	189.1	181.8	152.8	204.7	
December.....	178.3	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	249.8	116.8	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	158.3	183.8	139.8	139.4	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.....	141.0	140.0	145.9	209.8	101.4	152.5	145.9	228.7	146.8	143.3	145.4	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.....	129.9	116.8	117.7	153.6	90.3	147.2	142.6	168.9	134.2	117.5	134.5	119.4	116.8	115.1	148.9	
October.....	145.5	156.4	165.5	222.8	114.6	162.5	151.2	174.6	146.4	130.8	151.2	138.2	136.4	128.3	160.5	
November.....	112.7	131.5	139.0	190.2	114.6	127.8	110.9	136.7	121.3	106.7	110.5	112.1	109.8	113.2	146.5	
December.....	139.2	143.0	143.4	241.3	105.5	150.0	142.6	167.8	140.3	132.5	142.5	145.3	143.4	122.7	223.3	
1931																
January.....	123.6	127.1	129.2	214.1	99.3	154.2	121.1	154.0	127.7	121.7	120.6	127.0	124.5	117.0	186.1	
		ATLANTA DISTRICT						CHICAGO DISTRICT								
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	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	92.0	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	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	226.7	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...	123.9	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	
1930 monthly average...	107.2	129.9	208.5	96.8	97.4	58.2	142.3	140.1	185.7	132.7	128.8	98.4	97.6	89.7		
1929																
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	252.2	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	245.4	159.6	139.4	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</	

RELATIVE BANK DEBITS AT CLEARING-HOUSE CENTERS¹—Continued

GROUPED BY FEDERAL RESERVE DISTRICTS—Continued

[Table continued on p. 22]

YEAR AND MONTH	CLEVELAND DISTRICT									RICHMOND DISTRICT						
	Total, 13 centers	Akron	Cincin- nati	Clev- eland	Pitts- burgh	Yngs- town	Toledo	Colum- bus	Dayton	Total, 7 centers	Balti- more	Norfolk	Rich- mond	Green- ville ²		
	1,963	90	247	653	746	60	116	116	50	718	404	84	16	37		
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...	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	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	163.5	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	60.4		
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	146.9	150.9	137.4	198.9	166.6	216.2	108.9	107.6	83.5	127.4	61.3		
1930 monthly average...	132.4	108.4	153.4	126.1	133.3	113.0	157.3	158.3	177.7	103.3	106.6	73.5	118.9	49.3		
1929																
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	150.0	214.0	101.5	103.0	73.8	120.7	51.4		
October	170.4	140.0	206.5	165.5	170.2	165.0	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	167.8	162.1	190.0	106.4	113.4	77.4	112.9	54.1		
April	139.2	122.2	175.7	188.9	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	135.2	104.4	149.8	132.7	135.2	115.0	155.2	164.4	170.0	103.0	113.9	70.0	135.3	48.7		
November	110.6	87.8	133.6	105.8	110.1	90.0	129.3	146.6	132.0	97.4	100.0	64.3	119.8	46.0		
December	142.8	106.7	176.9	145.1	139.5	103.4	181.9	168.1	160.0	112.8	113.6	84.5	134.5	46.0		
1931																
January	140.3	96.7	171.3	156.6	122.1	110.0	164.7	175.9	210.0	101.7	103.2	67.8	121.6	51.4		
		DALLAS DISTRICT				ST. LOUIS DISTRICT				MINNEAPOLIS DISTRICT						
YEAR AND MONTH	Total, 11 centers	Dallas	Hous- ton	Fort Worth		Sum- mary for 5 centers	Louis- ville	St. Louis	Mem- phis	Little Rock	Total, 9 centers	Duluth	Minne- apolis	St. Paul	Helena	Billing
	521	161	138	92		965	156	617	136	36	659	90	354	162	11	9
	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	100.0
1920 monthly average...	117.4	114.3	125.2	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	137.5	134.8	132.9	134.6	208.6	128.2	101.1	141.5	116.3	93.9	111.1	
1930 monthly average...	124.7	136.8	134.2	96.5	114.3	116.7	112.7	104.4	159.3	109.5	81.9	119.6	104.9	80.3	89.9	
1929																
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	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	125.3	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	157.6	153.2	147.5	202.2	215.0	154.0	125.5	172.3	130.3	109.1	166.7	
November	155.8	175.8	161.6	131.5	139.0	136.5	131.5	105.7	187.4	116.7	151.7	124.7	109.1	122.2		
December	154.9	182.6	148.5	133.7	134.7	117.9	133.9	147.8	166.7	135.0	105.5	150.0	124.7	100.0	111.1	
1930																
January	142.2	155.3	149.3	110.9	129.4	127.6	129.0	130.1	136.1	113.9	71.1	128.0	111.1	81.8	88.9	
February	124.0	131.														

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 Fran- cisco	Seattle	Oak- land, Calif.
	1,231	146	413	264	85	68	94	1,909	314	181	760	206	63
1919 average, millions of dollars.													
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	72.0	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	190.3
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
1930 monthly average.....	106.8	117.4	100.6	79.2	55.3	180.8	156.8	174.3	318.4	97.5	165.1	113.9	306.6
1929													
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	393.3	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	101.0	79.2	52.9	183.9	171.3	178.9	326.5	98.9	170.3	120.9	366.3
July.....	113.4	113.0	111.9	81.1	55.3	192.7	185.5	172.9	321.7	93.4	162.3	106.8	306.3
August.....	104.8	114.4	100.2	81.4	54.1	184.8	153.2	166.4	298.1	92.3	165.3	106.3	274.6
September.....	104.1	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.....	112.7	127.4	108.5	80.3	52.9	197.1	157.5	178.3	326.1	101.7	167.8	118.4	323.7
November.....	95.8	113.0	89.8	65.9	47.0	148.6	135.1	151.1	255.1	95.6	144.5	99.0	284.1
December.....	105.3	113.7	101.2	75.0	51.7	175.0	160.7	171.1	305.4	88.4	159.6	112.6	352.3
1931													
January.....	97.5	111.6	90.3	73.5	52.9	157.4	133.0	167.9	319.5	79.0	151.2	102.9	358.7

DISTRICT TOTALS—SEASONAL VARIATIONS ELIMINATED

YEAR AND MONTH	U. S. total	Boston	New York	Phi- ladel- phia	Clev- eland	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	136.0	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	132.3	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	137.6	128.2	120.4	147.5	204.2
1930 monthly average.....	147.7	142.4	157.8	137.1	132.7	103.4	107.5	142.4	114.7	110.3	106.8	125.8	175.0
1929													
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	130.9	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.....	239.0	199.5	291.1	175.5	166.2	110.9	120.0	195.5	143.9	130.1	128.1	152.4	221.9
November.....	215.0	176.6	255.4	182.5	156.0	107.6	116.5	182.6	136.4	125.0	140.9	201.9	
December.....	158.1	151.4	171.9	155.3	133.2	96.4	112.6	149.6	119.8	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	120.6	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	127.9	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.....	112.3	138.5	148.1	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.....	136.7	128.5	145.4	123.5	126.8	103.2	103.7	134.1	110.7	106.0	102.8	119.2	159.5
October.....	136.2	143.5	142.5	130.3	131.9	103.1	102.3	123.0	1				

MONTHLY BUSINESS STATISTICS

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.

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
TEXTILES														
Wool														
Receipts at Boston:														
Total	thous. of lbs.	10,795	11,574	6,240	12,739	7,074	51,672	76,915	57,665	28,649	17,163	14,986	12,166	15,828
Domestic	thous. of lbs.	3,363	7,574	4,576	10,494	4,094	47,826	72,313	54,729	18,937	8,501	5,628	5,012	6,500
Foreign	thous. of lbs.	7,432	4,000	1,664	2,245	2,980	3,846	4,602	2,936	9,712	8,662	9,358	7,154	9,328
Imports:														
In condition imported	thous. of lbs.	13,767	10,920	8,546	8,994	8,817	10,145	8,900	8,896	15,484	17,816	20,049	18,498	26,464
Consumption by textile mills,														
grease equivalent	thous. of lbs.	33,856	30,007	31,237	40,975	38,083	33,761	34,682	32,772	32,641	36,794	37,195	38,330	43,627
Machinery activity, hourly:														
Looms—														
Wide	per ct. to total activity	49	46	47	47	46	44	48	53	51	45	46	52	53
Narrow	per ct. to total activity	28	26	37	44	41	43	42	48	39	41	39	41	50
Carpet and rug	per ct. to total activity	29	29	38	38	36	34	31	36	44	49	49	51	51
Set of cards	per ct. to total activity	47	43	50	54	53	48	51	60	60	61	61	65	63
Combs	per ct. to total activity	67	67	65	74	81	75	71	72	68	60	64	56	79
Spinning spindles—														
Woolen	per ct. of hours active	48	45	52	53	55	48	52	62	60	58	58	61	62
Worsted	per ct. of hours active	52	52	52	62	60	55	53	56	52	43	50	50	55
Prices:														
Raw, territory, fine, scoured	dolls. per lb.	.66	.72	.72	.75	.76	.76	.76	.76	.77	.76	.77	.79	.81
Raw, Ohio and Pa.														
fleeces, $\frac{1}{4}$ blood, combing, grease	dolls. per lb.	.23	.27	.29	.30	.31	.31	.31	.31	.29	.31	.33	.36	.38
Worsted yarns	dolls. per lb.	1.10	1.17	1.20	1.20	1.20	1.20	1.20	1.20	1.23	1.25	1.30	1.35	1.38
Women's dress goods, French														
serge, 39-in.	dolls. per yd.		.90	.90	.90	.90	.90	.90	.90	.90	.90	.93	.98	.98
Suiting, 13-oz.	dolls. per yd.	1.601	1.601	1.601	1.601	1.601	1.696	1.756	1.756	1.756	1.756	1.800	1.838	
Cotton														
Receipts into sight	thous. of bales	729	1,627	2,749	3,670	2,410	865	64	163	238	463	482	427	837
Imports, unmanufactured	bales	11,299	4,461	3,409	1,747	3,394	5,901	24,162	29,550	53,328	67,397	28,279	23,643	51,474
Exports, unmanufactured (excl. Inters.)	thous. of bales	625	766	908	1,004	903	366	176	185	209	350	478	402	729
Consumption by textile mills	bales	454,188	406,207	414,887	444,494	394,321	352,335	370,022	405,236	473,284	531,911	507,646	494,396	576,160
Stocks, domestic, end of month:														
Totals, mills and warehouses	thous. of bales	9,553	10,037	9,965	8,895	6,215	4,476	24,060	24,462	24,907	25,299	25,956	26,664	27,231
Mills	thous. of bales	1,614	1,659	1,567	1,333	968	1,011	21,183	21,357	21,528	21,662	21,758	21,808	21,826
Warehouses	thous. of bales	7,939	8,378	8,398	7,542	5,247	3,465	2,877	2,310	2,379	2,637	2,4198	2,4,858	2,5,405
Stocks, world visible, end of month:														
Total	thous. of bales	9,897	9,897	9,437	8,413	6,707	5,190	5,230	5,951	6,335	6,659	7,339	7,854	8,059
American	thous. of bales	7,576	7,841	7,676	6,617	3,159	2,917	3,352	3,688	3,975	4,612	5,150	5,576	
Machinery activity of spindles:														
Active spindles	thousands	25,611	25,526	25,858	26,154	26,087	25,874	26,458	27,659	28,358	28,851	28,862	28,920	29,177
Total activity	millions of hours	6,360	5,916	5,832	6,239	5,663	5,134	5,301	5,789	6,725	7,497	7,344	7,087	8,176
Activity per spindle	hours	191	176	173	184	167	151	156	170	197	220	214	205	237
Ratio to capacity	per cent.	80.8	76.1	80.1	77.1	73.4	65.2	67.2	76.2	83.4	96.1	92.6	97.4	100.2
Prices:														
To producer	dolls. per lb.	.086	.087	.096	.092	.099	.114	.119	.140	.145	.147	.138	.148	.158
In New York, middling	dolls. per lb.	.102	.101	.110	.107	.109	.121	.132	.145	.164	.163	.151	.157	.173
Cotton Yarn														
Carded sales yarn:														
Production	thous. of lbs.	12,665	9,582	11,787	15,494	11,148	10,031	11,049	10,968	11,678	15,485	13,707	13,086	17,571
Stocks, end of month	thous. of lbs.	13,795	13,531	12,548	12,819	13,633	13,742	13,559	13,439	13,116	12,487	11,775	10,773	
Unfilled orders, end of mo.	thous. of lbs.	40,296	38,920	38,926	37,854	33,194	29,103	26,469	27,632	30,186	34,457	39,072	36,165	35,056
Prices:														
22/1 cones, Boston	dolls. per lb.	.248	.247	.254	.235	.242	.252	.262	.273	.290	.302	.297	.310	.323
40/1s, southern spinning	dolls. per lb.	.390	.390	.405	.413	.420	.435	.447	.461	.473	.480	.477	.486	.500
Cotton Goods														
Cotton textiles:														
Production	thous. of yds.	202,149	234,052	206,633	228,866	182,385	218,815	165,850	198,539	275,801	257,243	261,403	266,849	323,287
New orders	thous. of yds.	239,106	182,656	183,067	335,801	291,980	235,272	180,147	129,947	184,473	223,225	292,249	243,861	292,034
Shipments	thous. of yds.	210,597	226,951	200,661	270,383	232,975	231,348	176,689	182,652	270,056	253,360	265,675	274,543	331,451
Stocks, end of month	thous. of yds.	355,514	363,962	356,861	350,889	332,406	442,996	455,529	466,368	450,481	444,736	440,853	445,125	452,819
Unfilled orders, end of month	thous. of yds.	317,465	288,956	333,251	350,845	285,427	226,422	222,498	219,040	271,745	357,328	387,463	360,889	391,571
Cotton cloth:														
Imports	thous. of sq. yds.	2,641	1,658	1,763	1,976	1,920	1,664	2,434	3,019	4,299	5,076	3,781	3,505	4,455
Exports	thous. of sq. yds.	31,488	29,388	29,273	34,804	32,626	34,285	35,397	35,868	38,523	36,821	36,171	32,045	39,153
Fabric for tire manufacture:														
Consumption	thous. of lbs.	12,738	8,358	8,418	11,780	10,917	13,223	13,399	15,034	17,437	17,264	14,656	13,767	14,559
Elastic webbing, shipments	thous. of dolls.	1,041	921	1,000	1,356	1,200	1,127	1,088	1,169	1,300	1,347	1,496	1,421	1,444
Prices:														
Print cloth, 64 x 60	dolls. per yd.	.052	.053	.057	.055	.053	.050	.054	.056	.061	.061	.062	.065	.068
Sheeting, brown	dolls. per yd.	.062	.065	.066	.070	.070	.070	.070	.075	.078	.076	.078	.079	.083
Cotton goods (Fairchild)	rel. to 1911-1913	120	122	124	124	124	126	130	134	137	138	140	150	152

² Revised.

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
TEXTILES—Continued														
Cotton Finishing														
White, dyed and printed (outside mills):														
Billings, finished goods.....thous. of yds.	43,642	47,566	40,249	53,003	40,631	37,907	41,473	50,933	59,384	65,364	66,246	64,271	63,457	
New orders, gray yardage.....thous. of yds.	46,370	39,749	38,541	47,133	41,618	35,576	37,349	39,249	48,699	56,641	60,526	57,834	71,723	
Shipments, finished goods.....cases	29,031	23,888	23,743	29,260	26,691	28,843	28,559	32,986	39,307	34,308	39,459	37,014	41,793	
Stocks, finished goods, end mo.....cases	20,134	23,593	21,803	22,392	22,079	27,198	31,901	34,477	34,571	40,741	32,528	32,967	35,428	
Operating activity.....per cent. of capacity	47	40	44	48	46	36	34	41	47	56	59	62	57	
Unfilled orders, end of month.....days	2.6	2.6	2.5	2.1	2.6	2.1	1.9	2.0	2.6	2.9	4.2	4.2	4.3	
Printed only (mills and outside):														
Production.....thous. of yds.	68,380	70,301	62,005	69,761	55,387	42,185	38,799	47,608	58,588	72,721	72,634	60,939	60,091	
Stocks, end of month.....thous. of yds.	65,704	68,420	68,817	65,876	64,788	70,395	82,297	82,856	85,381	84,808	77,763	72,642	73,239	
Silk														
Imports, raw.....thous. of lbs.	7,405	9,877	7,000	8,940	7,887	8,244	5,712	4,622	3,622	6,047	6,103	6,644	7,346	
Deliveries (consumption).....bales	55,910	55,424	57,333	61,937	55,649	41,734	39,948	29,396	40,823	41,584	50,863	49,852	57,683	
Stocks, end of month:														
At warehouses.....bales	51,814	58,430	49,238	51,278	47,621	44,978	35,565	28,450	35,477	53,704	57,773	68,646	76,264	
At manufacturing plants.....bales	23,588	24,242	24,929	22,954	21,243	20,511	18,046	19,843	20,300	22,120	21,522	21,404	25,396	
Silk machinery activity:														
Broad looms.....per cent. of normal	94.0	94.0	96.5	88.2	80.0	73.1	79.2	79.0	87.9	101.3	111.1	109.7	105.6	
Narrow looms.....per cent. of normal	39.2	35.8	26.0	38.2	24.4	36.9	31.0	63.6	25.0	25.6	26.0	25.8	24.1	
Spinning spindles.....per cent. of normal	55.2	65.8	75.1	70.2	57.7	49.1	52.1	58.0	59.1	68.8	69.2	69.3	67.0	
Prices:														
Raw, Japanese, 13-15, N. Y. dollars. per lb.	2.807	2.709	2.463	2.512	2.413	2.955	2.955	3.251	3.940	4.186	4.531	4.433	4.630	
Silk goods, composite.....dollars. per lb.	1.02	1.02	1.02	1.02	1.04	1.06	1.08	1.09	1.11	1.14	1.16	1.17	1.17	
Rayon														
Imports.....thous. of lbs.	154	None.	216	101	153	171	133	383	487	901	928	954	1,159	
Price, 150 denier, A grade, N. Y. dollars. per lb.	.75	.95	.95	.95	.95	.95	.95	1.15	1.15	1.15	1.15	1.15	1.15	
Clothing														
Men's and boys' garments cut:														
Suits.....thous. of garments	1,222	1,100	1,654	1,662	1,878	1,811	1,792	1,923	1,981	2,294	2,336	2,522	2,522	
Separate trousers.....thous. of garments	1,232	1,183	2,103	2,071	1,891	1,926	1,976	2,218	2,247	2,363	2,379	2,293	2,293	
Overcoats.....thous. of garments	159	444	555	564	437	441	329	203	216	352	335	307	307	
Overalls:														
Cut.....thous. of dozen garments	161	207	279	326	288	244	231	260	285	326	321	319	319	
Net ship- ments.....thous. of dozen garments	137	191	249	289	250	223	218	248	273	297	304	289	289	
Unfilled orders, end of mo.....thous. of dozen garments	42	36	51	69	74	60	67	80	112	116	117	147	147	
Hosiery:														
Production.....thous. of dozen pairs	2,400	2,589	3,005	3,440	2,789	2,408	2,300	2,823	2,840	2,935	3,046	3,189	3,474	
Net shipments.....thous. of dozen pairs	2,209	2,743	3,292	3,783	3,406	2,766	2,356	2,822	2,838	2,865	2,886	2,711	2,742	
Stocks, end of month.....thous. of dozen pairs	7,074	7,058	7,120	7,627	7,864	8,647	9,015	10,418	9,205	8,724	8,993	8,814	8,308	
New orders.....thous. of dozen pairs	2,526	2,408	3,198	3,889	3,292	2,633	2,229	2,941	2,993	2,920	2,747	2,598	2,662	
Unfilled orders, end of month.....thous. of dozen pairs	2,041	1,828	2,403	2,618	1,876	2,096	2,322	2,781	2,683	2,470	2,642	2,852	3,035	
Knit underwear:														
Production.....thous. of dozen garments	831	821	978	1,132	913	828	869	1,023	1,025	1,148	1,192	1,128	1,109	
Net ship- ments.....thous. of dozen garments	976	816	1,129	1,365	1,261	1,024	902	875	1,003	998	1,044	981	944	
Stocks, end of month.....thous. of dozen garments	1,275	1,299	1,197	1,421	1,497	1,759	1,880	1,846	1,759	1,731	1,590	1,530	1,436	
New orders.....thous. of dozen garments	970	878	1,164	1,475	1,049	909	781	911	1,070	896	1,036	1,041	1,199	
Unfilled orders, end of month.....thous. of dozen garments	1,265	1,284	1,266	1,250	1,140	1,398	1,524	1,634	1,607	1,549	1,658	1,677	1,632	
Burlaps and Fibers														
Imports:														
Burlaps.....thous. of lbs.	35,062	44,591	36,656	37,940	39,578	39,038	57,553	43,235	47,699	54,863	52,854	71,053	73,098	
Fibers (unmanufactured).....long tons	19,162	20,429	14,681	17,958	13,803	13,941	16,857	24,163	19,322	23,126	33,312	23,640	30,262	
Pyroxylin-Coated Textiles														
Pyroxylin spread.....thous. of lbs.	2,565	2,208	2,268	2,699	2,963	2,705	2,840	3,932	3,693	4,033	3,474	3,093	3,098	
Shipments billed.....thous. of linear yards	2,333	1,945	1,893	2,480	2,460	2,109	2,212	2,820	3,227	3,445	3,111	2,708	2,786	
Unfilled orders, end of month.....thous. of linear yards	2,735	1,169	1,413	1,441	1,508	1,179	1,779	2,323	2,370	2,421	2,332	2,404	2,373	
Fur														
Sales by dealers.....thous. of dolls.	4,496	3,048	4,520	5,787	7,301	5,425	4,348	5,455	7,692	8,362	8,327	7,667	2,968	
Buttons														
Fresh-water pearl buttons:														
Production.....ratio to capacity	33.1	40.6	42.0	38.8	36.2	25.7	23.1	41.1	42.4	47.1	48.3	49.3	42.3	
Stocks, end of month.....thous. of gross	8,705	8,842	8,756	8,808	9,061	9,258	9,857	10,056	9,790	9,878	9,838	9,698	2,977	
Imports:														
Buttons—														
Product of Philip- pines.....thous. of gross	59	82	65	72	78	69	63	107	44	59	63	71	64	
All other.....thous. of gross	4	9	9	5	3	14	12	18	16	6	5	5	261	
Shells—														
Mother of pearl.....thous. of pounds	475	896	402	354	802	844	476	271	570	171	531	443	866	
All other pearl.....thous. of pounds	22	15	458	586	164	56	72	377	925	104	69	516	32	
Tagua nuts.....thous. of pounds	270	858	331	1,204	1,286	708	1,213	1,242	1,317	1,607	1,186	477	1,149	
IRON AND STEEL														
Iron														
Manganese ore, imports.....thous. of long tons	17	29	10	18	22	8	16	31	30	26	30	22	38	
Iron ore:														
Imports.....thous. of long tons	150	176	74	186	215	178	251	292	291	313	301	203	293	
Shipments from mines.....thous. of long tons														
1,988	5,531	6,488	8,252	8,587	8,650	6,979	108	None.	None.	None.	None.	None.	None.	

² Revised.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931		1930										
	January	December	November	October	September	August	July	June	May	April	March	February	January
IRON AND STEEL—Continued													
Fabricated Steel Products													
Steel barrels:													
Production..... barrels	424,184	412,283	407,539	616,121	564,927	553,842	617,420	651,559	731,087	769,061	771,686	604,709	650,764
Ratio to capacity..... per cent.	31.2	30.3	36.5	44.1	40.3	39.6	44.0	46.4	52.1	55.9	45.0	49.2	
Shipments..... barrels	427,622	406,337	500,409	619,558	565,204	552,265	621,091	638,358	736,147	766,617	785,951	599,324	643,120
Stocks, end of month..... barrels	64,965	64,965	67,554	70,424	73,861	74,138	72,561	76,232	63,031	68,091	65,647	79,912	74,527
Unfilled orders, end of month..... thous. of bbls.	1,424	1,437	929	986	1,011	1,114	1,296	1,290	1,457	1,538	1,703	1,593	1,696
Track work, production..... short tons	5,626	5,174	4,212	5,192	5,642	6,812	8,774	10,553	12,799	13,508	13,096	12,524	11,830
Iron, steel and heavy hardware, sales..... rel. to Jan., 1921													
Lock washers, shipments..... thous. of dolls.	140	115	119	153	165	161	162	167	180	183	177	149	160
Steel plate, fabricated, new orders:													
Total..... short tons	23,275	26,787	33,151	30,197	41,066	36,513	38,283	41,774	38,328	45,454	46,137	34,662	57,083
Oil storage tanks..... short tons	2,545	5,118	9,965	4,518	14,916	10,056	11,969	9,869	10,495	9,683	9,195	9,982	9,688
Steel bars, cold finished, shipments..... short tons	21,943	15,747	15,456	20,521	19,338	19,036	19,241	27,388	33,010	38,557	36,487	37,745	35,845
Steel boilers, new orders:													
Quantity..... number	598	814	777	1,189	1,254	1,371	1,309	1,360	1,283	1,017	977	873	942
Area..... thous. of sq. ft.	577	587	709	852	1,282	1,357	1,410	1,588	1,330	1,070	1,264	939	1,082
Iron and steel:													
Exports..... long tons	92,745	101,988	111,968	131,850	131,211	151,235	131,772	159,392	196,120	208,640	238,333	197,426	225,090
Imports..... long tons	31,706	24,338	34,572	29,730	29,703	27,403	31,849	34,755	46,081	45,358	49,284	35,830	34,710
Machinery													
Shipments:													
Water softening apparatus..... units	753	645	732	738	755	774	782	752	1,279	1,554	1,391	1,141	1,240
Water systems..... units	6,308	5,512	6,572	7,831	8,611	9,663	10,189	10,953	11,598	10,104	8,930	7,881	8,307
Pumps:													
Domestic shipments—													
Pitcher, hand, etc..... units	29,665	25,222	23,405	29,162	39,885	43,138	41,439	29,820	38,958	35,986	42,936	49,127	44,389
Power, horizontal type..... units	1,608	1,384	1,297	2,088	1,975	2,476	2,535	3,040	2,628	2,400	2,562	1,965	1,449
Steam, power, and centrifugal—													
New orders..... thous. of dolls.	773	1,047	967	1,027	1,212	1,362	1,359	1,291	1,535	1,467	1,465	1,362	1,437
Shipments..... thous. of dolls.	718	1,205	1,116	1,167	1,183	1,367	1,338	1,644	1,641	1,558	1,483	1,410	1,330
Unfilled orders, end of mo..... thous. of dolls.	2,826	2,812	2,975	3,124	3,267	3,259	3,257	3,250	3,605	3,722	3,825	3,794	3,842
Foundry equipment:													
New orders..... rel. to 1922-24	65.3	59.8	45.3	50.0	91.0	85.2	90.6	102.1	92.7	122.8	164.1	196.4	160.1
Shipments..... rel. to 1922-24	54.7	102.6	76.5	62.0	66.0	82.6	116.1	160.5	149.4	217.4	194.5	169.6	223.6
Unfilled orders, end of mo..... rel. to 1922-24	94.6	82.3	124.9	159.1	170.8	140.2	139.1	166.7	179.3	291.0	411.1	424.7	395.6
Stokers, mechanical, sales:													
Quantity..... number		53	71	92	128	115	150	151	96	108	89	73	53
Power..... horsepower		11,726	21,103	38,276	42,899	29,988	37,761	47,803	31,956	35,903	32,403	22,648	13,198
Machine tools:													
New orders..... rel. to 1922-24	67	69	60	90	136	114	91	126	135	179	181	170	182
Shipments..... rel. to 1922-24	75	85	67	103	96	120	128	176	197	234	227	214	183
Unfilled orders, end of mo..... rel. to 1922-24	179	203	230	233	268	223	235	282	355	407	454	541	565
Electric hoists:													
New orders—													
Quantity..... number	306	208	222	214	212	238	217	265	337	432	402	387	369
Value..... dollars	121,345	113,464	104,235	101,818	114,119	109,456	122,978	128,197	179,103	220,132	200,167	184,502	194,832
Shipments..... dollars	120,207	94,836	99,218	97,811	101,856	121,698	147,503	181,049	191,635	206,013	232,968	222,107	220,678
Electric overhead cranes:													
Shipments..... thous. of dolls.	496	671	587	677	942	729	1,005	956	880	825	1,059	773	977
New orders..... thous. of dolls.	423	392	370	353	613	522	601	741	596	882	851	832	406
Unfilled orders, end of mo..... thous. of dolls.	1,407	1,517	1,864	1,948	2,124	2,527	2,706	3,249	3,490	3,739	3,525	3,836	3,765
Woodworking machinery:													
New orders..... thous. of dolls.	486	470	459	605	648	498	733	886	779	716	950	1,120	1,111
Cancellations..... thous. of dolls.	9	21	16	17	17	12	27	10	11	31	46	64	12
Unfilled orders, end of mo..... thous. of dolls.	557	467	520	636	588	470	593	705	785	763	1,101	1,488	1,347
Shipments..... thous. of dolls.	383	500	506	564	516	606	821	913	723	1,026	1,290	934	967
Shipments..... number of machines	400	529	442	441	488	694	624	615	577	603	833	536	759
Electric industrial trucks and tractors:													
Shipments, domestic—													
Total..... number of vehicles	38	42	36	90	75	81	99	63	125	101	109	106	123
Exports..... number of vehicles	5	9	9	3	6	11	9	32	19	5	14	7	17
Fire-extinguishing equipment, shipments:													
Motor vehicles..... number	56	113	71	96	86	118	118	106	95	94	96	79	83
Hand type..... number	27,713	34,295	29,213	36,303	37,482	34,958	43,065	44,911	56,620	57,043	43,579	48,463	45,300
Oil burners:													
Shipments, total..... number of burners		3,486	5,880	14,064	12,025	8,088	7,241	5,174	5,901	3,923	3,376	2,954	3,469
Stocks, end of mo..... number of burners		6,025	5,647	5,939	7,606	8,993	10,171	8,520	6,883	6,386	6,568	5,445	
New orders..... number of burners		3,561	5,061	13,985	11,413	8,062	7,170	7,294	7,718	3,182	3,479	3,481	
Unfilled orders, end of month..... number of burners		534	450	1,278	1,357	1,969	1,995	2,416	2,450	1,057	1,262	1,456	931
Pulverized fuel equipment:													
New orders, central system—													
Water-tube boilers, no. of pulverizers	2	None	None	None	None	2	2	1	3	None	2	2	1
Furnaces and kilns, no. of pulverizers	None	None	None	None	2	1	3	2	1	2	1	2	5
New orders, units system—													
Water-tube boilers, no. of pulverizers	9	3	15	10	24	4	12	15	30	39	16	29	52
Fire-tube boilers, no. of pulverizers	6	None	5	None	6	3	None	None	3	7	3	2	6
Marine boilers, no. of pulverizers	None	None	None	None	2	3	None	6	7	None	6	None	1
Furnaces and kilns, no. of pulverizers	None	None	3	2	3	1	1	5	2	8	6	None	1
Patents issued:													
Total, all classes..... number	3,215	4,251	3,023	2,871	2,871	2,423	3,452	7,670	3,932	4,645	3,349	3,592	3,163
Agricultural implements..... number	41	58	52	41	43	27	51	109	49	60	56	58	40
Internal-combustion engines..... number	58	67	54	49	35	30	52	144	59	73	81	57	42
Copper													
Production:													
Mines..... short tons	47,741	48,726	53,141	55,954	56,584	56,136	54,249	56,743	60,238	60,450	61,216	59,196	67,833
Smelter..... short tons	53,429	60,022	64,816	70,419	68,487	66,698	67,638	69,155	75,936	76,777	78,514	74,094	84,451
Refined (N. and S. America)..... short tons	102,458	106,366	112,646	118,229	116,004	120,778	123,179	124,821	132,183	124,531	127,064	121,195	132,374
World production, blister..... short tons	129,390	136,252	139,914	152,544	152,405	149,843	143,997	145,797	148,758	145,595	148,944	140,083	155,848
Domestic shipments, refined..... short tons													

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
IRON AND STEEL—Continued														
Iron—Continued														
Iron ore—Continued.														
Receipts—														
Lake Erie ports and furnaces—thous. of long tons			1,634	4,011	4,721	5,586	6,346	5,755	3,987	10	None.	None.	None.	
Other ports—thous. of long tons			993	1,675	1,891	2,492	2,515	2,697	2,100	None.	None.	None.	None.	
Consumption—thous. of long tons	2,350	2,339	2,640	3,050	3,282	3,673	3,838	4,288	4,715	4,576	4,628	4,062	4,101	
Stocks, end of month—														
Total—thous. of long tons	36,620	38,949	41,227	41,092	38,366	34,938	30,515	25,700	21,325	20,285	24,877	29,475	33,528	
At furnaces—thous. of long tons	30,430	32,618	34,761	34,750	32,323	29,397	25,493	21,087	17,072	15,950	19,785	23,939	27,674	
On Lake Erie docks—thous. of long tons	6,190	6,331	6,466	6,342	6,043	5,541	5,022	4,613	4,253	4,335	5,092	5,536	5,854	
Pig-iron production:														
Total, United States—thous. of long tons	1,714	1,666	1,867	2,165	2,277	2,524	2,640	2,934	3,233	3,182	3,246	2,839	2,827	
Merchant furnaces—thous. of long tons	292	396	375	407	513	564	630	619	617	645	645	555	613	
Canada—thous. of long tons	36	38	46	40	249	57	65	66	81	72	75	71	87	
Furnaces in blast, end of month:														
Furnaces—number	102	95	107	111	123	139	144	160	180	183	185	179	172	
Capacity—long tons per day	57,365	51,330	60,205	65,965	73,525	80,620	83,645	92,590	103,425	104,770	106,080	102,250	96,370	
Malleable castings:														
Production—short tons	31,357	20,431	27,114	28,785	26,528	25,614	30,911	39,347	53,502	61,984	63,464	65,942	61,381	
Operating activity—per cent. of capacity	31.6	31.1	27.8	29.0	27.2	26.2	31.0	40.3	53.8	63.1	64.6	67.4	61.6	
Shipments—short tons	31,638	27,474	25,974	29,206	29,223	31,845	32,656	43,937	55,656	60,875	65,184	59,971	57,820	
New orders—short tons	32,633	26,433	27,451	24,171	26,251	25,409	30,068	33,865	47,022	54,625	60,915	61,606	58,009	
Wholesale prices:														
Foundry, No. 2, northern—dollars per long ton	18.76	18.76	18.76	18.89	19.56	19.76	19.86	20.26	20.26	20.26	20.26	20.26	20.26	
Basic (valley furnace)—dollars per long ton	17.00	17.00	17.00	17.60	17.60	18.00	18.10	18.50	18.50	18.50	18.50	18.50	18.50	
Composite pig iron—dollars per long ton	16.94	17.01	17.14	17.30	17.79	17.99	18.22	18.55	18.66	18.75	18.77	18.99	19.08	
Cast-Iron Boilers and Radiators														
Round boilers:														
Production—thous. of lbs.		3,614	5,910	8,291	6,321	4,603	4,703	7,103	8,398	9,934	9,858	10,659	10,356	
Shipments—thous. of lbs.		7,131	10,041	17,774	12,162	8,736	7,266	6,342	5,808	5,853	4,935	5,516	7,304	
New orders—thous. of lbs.		7,193	9,495	14,521	11,894	7,392	6,975	6,874	5,368	4,988	4,805	5,158	6,366	
Stocks, end of month—thous. of lbs.		51,657	53,686	59,134	68,182	72,967	76,865	79,605	78,908	76,232	78,787	73,404	67,836	
Square boilers:														
Production—thous. of lbs.		10,857	12,858	23,068	15,920	10,066	11,376	14,493	15,567	21,988	21,008	21,355	20,033	
Shipments—thous. of lbs.		16,837	21,480	39,158	31,595	24,178	18,269	14,384	11,249	9,433	8,854	10,191	13,836	
New orders—thous. of lbs.		17,723	21,377	33,760	32,259	22,271	17,496	16,044	11,047	8,923	10,613	10,415	13,345	
Stocks, end of month—thous. of lbs.		109,635	115,313	121,666	140,508	155,184	170,941	177,376	177,674	173,605	155,335	143,638	132,837	
Radiators:														
Production—thous. sq. ft. heating surface		4,097	4,791	5,852	4,643	5,366	4,997	5,873	7,639	7,898	8,518	9,222	9,253	
Shipments—thous. sq. ft. heating surface		6,866	9,118	12,390	10,347	9,520	7,447	6,154	5,047	4,259	3,912	4,433	6,047	
New orders—thous. sq. ft. heating surface		7,471	9,089	11,220	11,350	8,933	7,232	7,296	5,331	4,411	5,085	4,845	6,276	
Stocks, end of month—thous. sq. ft. heating surface		38,702	41,420	45,626	51,964	57,560	62,662	65,034	65,309	62,747	59,064	54,589	49,717	
Gas-fired boilers:														
Shipments—thous. dollars		181,966	202,835	445,101	390,788	430,365	185,484	312,950	184,795	323,434	175,912	111,401	118,418	
Shipments—thous. B. t. u.		221,775	149,507	359,206	334,266	364,861	160,347	260,123	155,282	259,442	151,380	91,644	100,030	
Production—thous. B. t. u.		85,399	85,328	250,001	286,748	268,664	283,750	367,022	251,027	169,086	182,837	188,190	215,939	
Stocks, end of month—thous. B. t. u.		620,891	758,964	884,859	939,650	948,557	1,031,838	933,478	840,004	715,889	856,070	917,929	845,210	
Crude Steel														
Steel ingots, production:														
United States,														
total—thous. of long tons	2,483	2,008	2,235	2,721	2,868	3,005	2,933	3,440	4,025	4,154	4,300	4,078	3,796	
Ratio to capacity—per cent.	46	39	45	50	55	59	56	69	74	80	83	85	70	
Canada—thous. of long tons	58	56	72	65	56	58	68	95	299	103	117	107	115	
U. S. Steel Corporation:														
Unfilled orders, end of month—thous. of long tons	4,132	3,944	3,640	3,482	3,424	3,580	4,022	3,968	4,059	4,354	4,571	4,480	4,469	
Earnings—thous. of dollars		4,191	7,949	10,943	11,515	13,000	13,480	14,377	16,571	16,114	18,104	16,108	15,404	
Steel castings:														
Production—														
Total—short tons	46,156	46,290	44,290	59,522	61,919	64,303	78,977	90,795	104,984	110,692	113,463	107,628	109,009	
Ratio to capacity—per cent.	32	32	31	41	43	45	55	63	73	77	79	75	76	
Railroad specialties—short tons	10,943	14,197	11,845	15,682	17,823	20,728	26,061	32,793	43,341	45,463	47,813	44,652	48,292	
Miscellaneous—short tons	35,213	32,093	32,445	43,840	44,096	43,575	52,916	58,002	61,643	65,229	65,650	62,976	60,717	
New orders—														
Total—short tons	46,613	49,387	48,123	45,552	49,542	50,370	57,850	61,164	91,077	92,987	122,462	114,419	101,500	
Ratio to capacity—per cent.	32	34	33	32	34	35	40	42	63	64	85	79	70	
Railroad specialties—short tons	14,718	19,256	16,495	13,208	11,148	15,285	14,710	13,714	42,051	35,457	54,063	55,310	42,502	
Miscellaneous—short tons	31,913	30,131	31,628	32,344	38,394	35,085	43,140	47,450	49,026	57,530	68,399	59,109	58,998	
Sheets, black, blue, galvanized, and full finished:														
Production—														
Total—net tons	167,865	145,125	148,550	193,934	179,928	173,956	186,206	205,675	274,220	308,988	259,658	275,952	291,529	
Ratio to capacity—per cent.	45.1	39.8	43.6	50.6	48.8	48.6	50.4	58.8	73.3	84.0	73.7	83.9	77.6	
Stocks, end of month—														
Total—net tons	180,285	184,590	184,586	189,213	185,791	182,240	202,682	200,589	204,702	208,374	192,317	201,609	191,532	
Unsold—net tons	87,496	83,629	96,248	91,024	88,363	82,315	82,708	83,988	85,585	81,671	75,847	75,771	73,948	
Shipments—net tons	170,379	144,040	158,182	193,516	186,639	205,774	194,767	212,930	266,436	291,601	275,235	241,441	241,677	
New orders—net tons	180,863	233,289	135,682	158,700	214,454	148,969	207,400	187,412	204,589	300,086	299,764	203,315	382,182	
Unfilled orders, end of month—net tons	360,479	378,601	295,282	319,518	388,599	373,148	432,298	431,324	461,756	526,827	524,230	517,215	558,412	
Wholesale prices:														
Steel billets,														
Bessemer—dollars per long ton	30.00	30.60	31.00	31.00	31.00	31.00	31.00	31.00	32.50	33.00	33.00	33.00	34.00	
Iron and steel comp.—dollars per long ton	31.70	31.76	31.95	32.31	32.67	33.01	33.25	33.53	33.84	34.48	35.01	35.24	35.64	
Structural steel beams—dollars per 100 lbs.	1.63	1.60	1.60	1.60	1.60	1.65	1.65	1.70	1.80	1.80				

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930											
		January	Decem-	Novem-	October	Septem-	August	July	June	May	April	March	Febru-
AUTOMOBILES													
Production:													
United States—													
Total number of cars	171,903	2155,708	2135,754	154,401	220,649	224,368	265,523	334,506	420,027	444,024	396,384	330,407	273,218
Passenger cars number of cars	139,814	2122,748	102,358	115,476	177,752	185,619	224,690	288,481	364,512	375,685	331,973	280,996	235,226
Taxicabs number of cars	512	1,425	609	582	930	386	376	463	440	486	1,421	351	967
Trucks number of cars	31,577	231,533	232,787	38,343	41,967	38,363	40,467	45,562	55,075	67,853	62,990	48,560	37,025
Canada:													
Total number of cars	6,496	5,622	5,407	4,541	7,957	9,792	10,188	15,090	24,672	24,257	20,730	15,548	10,388
Passenger cars number of cars	4,552	4,225	3,527	3,206	5,623	6,946	8,556	12,194	21,251	20,872	17,165	13,021	8,856
Trucks number of cars	1,944	1,397	1,880	1,335	2,334	2,846	1,632	2,896	3,421	3,385	3,565	2,527	1,532
Exports (assembled):													
From United States—													
Total number of cars	12,838	14,198	12,078	11,215	13,437	13,274	11,870	15,437	26,542	35,238	31,090	25,482	28,169
Passenger cars number of cars	8,304	9,096	6,039	7,136	8,125	7,956	7,828	10,101	16,876	23,777	22,129	18,732	15,293
Trucks number of cars	4,534	5,102	6,039	4,079	5,312	5,318	4,042	5,336	9,666	11,461	8,961	6,750	12,876
From Canada—													
Total number of cars	3,054	3,645	2,588	2,868	6,641	3,922	3,521	3,670	3,024	3,272	6,308	4,237	2,953
Passenger cars number of cars	1,798	2,193	1,260	2,003	4,293	2,552	2,471	2,240	2,131	2,304	5,029	2,498	1,317
Trucks number of cars	1,256	1,452	1,328	865	2,348	1,370	1,050	1,430	893	968	1,279	1,739	1,636
Sales (General Motors Co.):													
Total to dealers, incl. Canadian and overseas number of cars	89,349	80,008	57,257	28,253	78,792	85,610	79,976	97,440	147,483	150,361	135,930	126,196	106,509
To consumers, U. S. number of cars	61,566	57,989	41,757	57,757	75,805	86,426	80,147	97,318	131,817	142,004	123,781	88,742	74,167
To dealers, U. S. number of cars	76,681	68,252	48,155	22,924	69,901	76,140	70,716	87,595	136,169	132,365	118,081	110,904	94,458
Accessories and parts, shipments:													
Original equipment rel. to Jan., 1925	84	94	62	75	79	87	83	119	153	175	167	141	135
Replacement parts rel. to Jan., 1925	98	100	127	140	139	132	127	131	137	150	139	131	137
Accessories rel. to Jan., 1925	46	55	63	79	76	60	65	71	78	74	67	66	79
Service parts rel. to Jan., 1925	92	75	80	99	105	104	115	128	165	180	175	151	135
Rim production thous. of rims	681	567	920	864	1,052	1,504	1,449	1,338	2,010	2,340	2,062	1,653	1,601
New passenger-car registration:													
Total number of cars	96,054	93,066	150,219	175,286	203,737	254,098	260,861	345,031	357,084	298,904	211,645	180,094	
Automobile financing:													
Wholesale dealers thous. of dolls.	40,249	225,600	29,684	35,962	45,387	45,411	55,430	53,802	83,660	85,346	77,548	61,245	
Total, consumers thous. of dolls.	62,467	266,146	60,365	81,504	90,466	102,530	119,044	138,520	141,307	146,987	123,786	85,770	73,619
New cars thous. of dolls.	33,273	235,412	31,869	45,751	52,962	63,143	73,596	91,278	94,236	94,085	77,332	53,011	405,245
Used cars thous. of dolls.	27,558	228,913	26,915	33,852	35,266	37,222	42,780	43,074	42,805	48,854	42,478	29,206	25,593
Unclassified thous. of dolls.	1,636	21,820	1,581	1,901	2,288	2,165	2,668	4,169	4,266	4,048	3,976	3,552	2,778
FUELS													
Coal and Coke													
Bituminous:													
Production:													
United States thous. of short tons	38,542	39,716	38,122	44,150	38,632	35,661	34,715	33,714	35,954	35,860	35,773	39,555	49,778
Canada thous. of short tons	1,164	1,275	1,315	1,630	1,230	1,101	1,061	1,128	1,115	907	1,130	1,185	1,630
Exports thous. of long tons	700	803	1,287	1,317	1,462	1,433	1,586	1,394	1,488	858	726	835	953
Consumption:													
By vessels thous. of long tons		201	204	230	269	261	284	276	278	292	278	263	283
By electric-power plants thous. of short tons	3,716	43,836	3,670	3,944	3,724	3,658	3,452	3,201	3,296	3,255	3,442	3,418	4,006
By railroads thous. of short tons		6,622	6,642	7,124	6,349	6,408	6,228	6,177	6,690	6,804	7,376	7,117	8,210
By coke plants:													
United States thous. of short tons	4,686	4,737	4,820	5,270	5,214	5,559	5,824	6,155	6,572	6,645	6,841	6,248	6,605
Canada thous. of short tons	236	246	249	249	233	244	248	268	290	295	309	281	312
Stocks, end of month, held by consumers thous. of short tons		37,200	-----	36,800	35,900	-----	33,100	32,200	-----	33,100	-----	37,700	
Prices:													
Mine aver. (spot)													
dolls. per short ton	1.77	1.77	1.78	1.81	1.75	1.68	1.71	1.67	1.67	1.71	1.74	1.79	1.86
Wholesale, comp.		3.829	3,898	3,900	3,893	3,897	3,892	3,891	3,892	3,902	3,901	3,911	3,982
Retail, composite													
dolls. per short ton	8.87	8.94	8.94	8.88	8.79	8.70	8.65	8.54	8.53	8.84	9.32	9.04	9.11
Anthracite:													
Production thous. of short tons	6,157	6,086	5,207	7,576	5,293	6,190	5,658	5,183	5,947	4,916	4,551	6,157	7,038
Exports thous. of long tons	207	178	182	253	198	205	129	144	186	123	149	262	271
Stocks, end of mo. in yards of dealers													
Prices:													
Wholesale, comp.		43	-----	47	61	-----	60	57	-----	36	31	-----	35
dolls. per long ton	12,732	12,751	12,751	12,762	12,707	12,578	12,386	12,251	12,441	12,887	13,033	13,033	
Retail, composite													
dolls. per short ton	14.88	14.89	14.90	14.87	14.80	14.57	14.53	14.32	14.33	14.99	15.00	15.00	15.00
Coke:													
Production, U. S.—													
Beehive thous. of short tons	163	171	168	178	168	170	215	262	272	302	291	281	320
By-product thous. of short tons	3,092	3,077	3,137	3,432	3,401	3,637	3,770	3,954	4,266	4,246	4,394	4,004	4,196
Production, Canada													
thous. of short tons													
Exports thous. of long tons	171	181	185	185	170	182	182	193	210	213	224	204	225
Price, furnace, Connellsburg													
dolls. per short ton	2.55	2.55	2.58	2.60	2.60	2.55	2.52	2.50	2.53	2.50	2.60	2.60	2.59
Petroleum													
Crude petroleum:													
Production thous. of bbls.	65,991	66,985	68,174	72,696	70,977	74,853	76,554	76,929	80,342	77,191	77,600	74,243	79,721
Stocks at end of month—													
Total (comparable) thous. of bbls.	360,078	361,701	2,366,535	369,062	370,089	375,140	378,264	377,822	378,919	379,875	380,007	381,306	379,826
Tank farms and pipe lines													
thous. of bbls.	318,163	320,510	323,089	323,030	324,644	328,355	331,124	331,050	331,429	332,487	334,082	335,728	335,318
Refineries thous. of bbls.	41,915	41,191	2,43,446	46,032	45,445	46,785	47,140	46,772	47,490	47,388	45,925	45,578	44,508
California—													
Light thous. of bbls.	40,389	40,625	40,652	40,738	40,582	40,671	41,071	41,045	42,912	44,166	44,710	44,241	41,868
Heavy thous. of bbls.	102,368	104,121	103,553	102,643	103,474	103,701	104,550	105,276	105,560	105,636	107,414	107,739	107,123
Imports thous. of bbls.	4,353	4,727											

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930											
	January	December	November	October	September	August	July	June	May	April	March	February	January
IRON AND STEEL—Continued													
Copper—Continued													
Stocks (North and South America), end mo.: Refined..... short tons.	363,827	367,175	369,632	364,930	360,650	347,688	322,039	316,762	308,646	301,338	256,020	233,123	203,404
Blister..... short tons.	210,637	218,799	223,280	240,145	236,464	234,135	242,212	253,834	265,106	269,623	266,561	264,249	270,209
Wholesale price, electrolytic..... dollars per lb.	.0984	.1030	.1011	.0960	.1031	.1069	.1102	.1205	.1276	.1562	.1778	.1778	.1778
Tin													
Deliveries (consumption)..... long tons.	7,210	7,405	6,270	7,580	7,250	5,695	6,130	5,885	5,710	6,780	8,675	4,940	5,815
Stocks, end of month: World visible supply..... long tons.	43,619	42,498	40,811	39,676	40,150	43,805	41,950	42,611	39,771	36,595	32,972	33,581	29,032
United States..... long tons.	4,904	4,693	5,372	4,823	6,323	7,533	6,786	7,728	6,767	5,687	3,566	3,626	3,081
Imports..... long tons.	8,112	6,659	6,470	5,929	5,523	5,979	5,259	6,793	8,829	8,209	8,589	5,460	7,079
Wholesale price, pig tin..... dollars per lb.	.2610	.2527	.2589	.2686	.2664	.3002	.2981	.3030	.3213	.3607	.3681	.3867	.3891
Zinc													
Retorts in operation, end of mo..... number.	35,635	33,640	37,492	41,004	44,974	50,404	46,030	52,428	52,072	50,038	51,300	57,929	59,457
Production..... short tons.	32,522	32,682	32,097	40,922	40,470	41,012	40,023	43,458	44,556	44,335	48,119	44,628	52,010
Stocks, end of month..... short tons.	145,076	143,576	145,139	143,327	134,835	126,835	117,724	113,090	106,080	100,205	96,367	90,068	861,736
Ore, Joplin district: Shipments..... short tons.	25,987	31,056	39,478	33,474	32,122	37,994	24,974	41,819	52,454	27,214	51,611	35,095	38,031
Stocks, mines, end of mo..... short tons.	56,013	47,000	49,441	45,689	41,663	38,565	28,729	19,553	20,602	28,486	21,950	25,531	29,313
Price, slab, prime western..... dollars per lb.	.0404	.0410	.0427	.0406	.0427	.0436	.0435	.0444	.0464	.0484	.0493	.0518	.0625
Lead													
Production, refined..... short tons.	43,405	48,517	43,423	50,402	48,491	52,980	51,538	50,721	52,818	55,547	56,552	54,125	49,991
Ore shipments: Joplin district..... short tons.	2,721	2,896	3,963	3,361	2,746	3,673	2,570	5,975	5,100	2,450	6,770	3,477	2,847
Utah..... short tons.	55,331	48,705	48,400	63,584	52,907	60,978	45,194	55,801	77,372	64,966	66,473	69,489	87,569
Receipts in U. S. ore..... short tons.	42,110	40,462	38,820	46,237	48,354	45,542	44,433	47,692	49,530	49,388	57,441	49,009	47,862
Price, pig, desilverized, N. Y..... dollars per lb.	.0480	.0510	.0518	.0550	.0549	.0525	.0541	.0552	.0554	.0566	.0624		
Other Metal Products													
Babbitt metal, consumption: Total apparent..... thous. of lbs.	2,852	2,107	2,695	3,101	2,892	2,918	3,061	3,913	4,073	4,036	5,430	3,931	4,597
Direct by producers..... thous. of lbs.	766	647	791	1,033	1,042	954	900	1,170	933	1,042	1,027	933	1,013
Sale to consumers..... thous. of lbs.	2,086	1,459	1,904	2,069	1,850	1,964	2,161	2,742	3,140	2,994	4,402	2,998	3,585
Copper-wire cloth: Production..... thous. of sq. ft.	332	344	310	385	384	387	373	370	401	418	421	423	486
Shipments..... thous. of sq. ft.	311	309	303	356	317	353	347	395	359	395	395	351	437
Stocks, end of month..... thous. of sq. ft.	1,087	1,145	1,176	1,160	1,173	1,117	1,118	1,107	1,145	1,130	1,108	1,099	1,051
New orders..... thous. of sq. ft.	404	337	269	363	299	336	378	360	453	453	342	423	435
Unfilled orders, end of month..... thous. of sq. ft.	217	165	166	199	241	264	279	232	252	220	243	303	246
Make and hold orders, end of month..... thous. of sq. ft.	574	539	530	606	533	516	525	565	540	555	564	561	485
Pails and tubs, galvanized: Production..... dozens.	103,677	87,140	60,798	130,906	103,177	103,050	91,879	89,982	113,645	131,015	135,178	119,739	145,588
Shipments..... dozens.	133,977	68,598	68,330	115,185	116,875	103,354	104,056	82,956	107,496	120,552	135,602	129,553	154,731
Other galvanized ware: Production..... dozens.	23,716	21,657	16,061	40,084	38,218	46,730	42,056	40,646	44,405	44,058	37,963	35,121	33,982
Shipments..... dozens.	25,958	15,915	21,256	41,126	46,310	43,827	33,874	33,140	43,483	44,276	38,160	31,536	29,165
Enamelled sheet-metal ware: Shipments..... dozen pieces.	267,232	250,568	250,365	329,337	297,622	309,645	213,420	247,861	290,617	318,431	341,372	331,915	332,146
Electrical Equipment													
Electrical mfrs., new orders (quarterly)..... thous. of dolls.	\$195,547				\$217,818				\$276,732			\$298,733	
Electrical porcelains, shipments: Standard..... dollars.	51,016	47,994	73,659	65,581	69,656	68,483	72,825	80,368	69,308	69,511	87,952	135,413	
Special..... dollars.	91,564	93,677	131,813	99,576	111,029	133,554	116,935	111,941	127,295	136,901	116,754	127,830	
Glazed nail knobs..... thous. of pieces.	2,007	1,834	2,044	2,453	2,218	2,243	2,464	3,292	2,930	3,146	2,701	4,454	
Un glazed nail knobs..... thous. of pieces.	1,159	1,164	1,615	1,222	1,605	1,120	1,524	2,211	1,400	1,232	1,863	2,309	
Tubes..... thous. of pieces.	522	801	1,156	334	1,146	782	1,140	1,266	928	1,093	1,291	1,627	
Laminated phenolic products, shipments..... dollars.	605,291	551,328	673,867	1,022,660	853,978	788,671	721,807	925,006	868,399	910,651	950,513	773,205	819,629
Motors (direct current): New orders..... dollars.	617,454	457,518	474,611	820,444	719,846	677,348	935,040	633,088	931,822	942,556	878,612	910,301	
Billings (shipments)..... dollars.	500,165	433,530	621,114	596,670	708,055	644,252	673,415	776,081	875,083	833,183	755,074	800,654	
Power switching equipment, new orders: Indoor..... dollars.	76,052	77,248	69,202	84,160	118,431	121,930	136,559	172,186	128,303	191,277	155,095	135,513	159,869
Outdoor..... dollars.	228,862	178,160	219,232	342,771	298,354	319,668	451,051	366,584	448,802	476,943	465,117	346,035	464,069
Outlet boxes and covers, shipments..... thous. of pieces.				1,677	2,179	1,491	1,517	1,703	1,512	2,218	1,949	1,922	2,448
Vulcanized fiber: Shipments, total..... thous. of dolls.		318	359	465	447	430	450	541	517	622	614	613	723
Consumption..... thous. of lbs.		1,421	1,513	1,824	1,945	1,828	2,121	1,967	2,144	2,759	2,405	2,492	2,770
Industrial reflectors, sales..... units.	65,501	76,659	115,736	113,316	125,786	127,608	135,687	134,783	109,977	107,040	108,210	106,021	130,369
Power cables, shipments..... thous. of ft.	1,139	1,678	1,824	1,957	2,108	2,260	1,980	2,033	1,936	2,368	2,720	1,768	1,627
Welding sets, new orders: Single operator..... units.	155	152	153	200	194	221	207	228	274	261	251	280	256
Multiple operator..... units.	23	13	14	34	9	8	10	7	1	9	5	1	1
Panel boards and cabinets, shipments (quarterly)..... thous. of dolls.		\$ 1,311			\$ 1,396				\$ 1,219			\$ 1,285	
Nonmetallic conduits, shipments..... thous. of ft.	3,997	2,417	3,713	4,067	4,235	3,397	3,564	4,021	4,021	7,660	8,505	4,383	6,110
Electric furnaces, new orders..... kilowatts.	4,599	1,489	2,202	3,317	2,866	5,012	5,899	3,665	16,062	12,458	2,620	4,015	8,630
Manufactured mica: Shipments..... thous. of dolls.	133	101	132	150	141	122	156	162	195	241	199	206	227
Unfilled orders, end of mo..... thous. of dolls.	105	104	90	104	107	109	88	137	166	178	196	230	219
Delinquent accounts, electrical trade: Amount..... dollars.	112,250	150,349	96,912	122,150	93,898	127,006	141,162	157,821	215,001	203,572	223,048	233,176	240,428
Delinquent firms..... number.	1,089	1,065	808	1,101	939	1,155	1,106	1,096	1,449	1,493	1,526	1,465	1,486

* Quarter ended in month indicated.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930												
		January	Decem-	Novem-	October	Septem-	August	July	June	May	April	March	Febru-	January
FUELS—Continued														
Petroleum—Continued														
Crude petroleum—Continued.														
Mexico:														
Production.....thous. of bbls.					3, 147	3, 243	3, 449	3, 437	3, 287	3, 351	3, 319	3, 491	3, 271	3, 719
Exports.....thous. of bbls.					2, 419	2, 630	2, 808	3, 030	2, 429	1, 902	2, 085	1, 648	1, 517	
Venezuela:														
Production.....thous. of bbls.		10, 911	11, 785	11, 311	11, 378	11, 624	11, 361	10, 918	10, 724	11, 920	10, 899	11, 518		
Exports.....thous. of bbls.		11, 134	12, 208	11, 674	12, 182	11, 506	11, 221	11, 133	11, 018	10, 821	10, 266	10, 781		
Gasoline:														
Production—														
Raw (at refineries).....thous. of bbls.	32, 708	34, 352	33, 616	37, 400	36, 944	37, 844	38, 061	37, 537	39, 293	38, 157	37, 727	33, 949	36, 654	
Natural gas (at plants)														
Exports.....thous. of bbls.	4, 140	4, 198	4, 238	4, 326	4, 079	4, 212	4, 231	4, 269	4, 521	4, 428	4, 576	4, 248	4, 410	
Consumption.....thous. of bbls.	4, 461	2 4, 149	3, 536	6, 131	3, 826	6, 375	5, 497	6, 955	4, 864	5, 662	5, 735	4, 809	5, 291	
Stocks, end of month—														
Raw (at refineries).....thous. of bbls.	26, 844	29, 094	30, 984	32, 267	37, 823	37, 433	38, 256	2 35, 706	2 36, 438	2 34, 509	2 30, 798	2 26, 461	2 25, 791	
Retail distribution, 41 States														
thous. of bbls.	42, 818	2 40, 741	38, 705	38, 684	38, 254	41, 624	46, 077	50, 225	54, 046	54, 435	55, 239	53, 229	49, 676	
mill. of gals.	606	578	596	559	524	744	741	928	920	700	673	672	611	
Prices—														
Wholesale, New York.....dolls. per gal.	.135	.141	.141	.143	.148	.163	.163	.163	.163	.151	.143	.158	.165	
Retail, wagon, 50 cities.....dolls. per gal.			.135	.138	.143	.146	.148	.153	.153	.143	.145	.154		
Kerosene:														
Production.....thous. of bbls.	3, 560	3, 575	3, 590	3, 876	3, 846	3, 975	3, 929	4, 026	4, 317	4, 435	4, 752	4, 398	4, 489	
Exports.....thous. of bbls.	1, 275	1, 310	970	1, 373	1, 349	1, 687	1, 021	1, 782	816	1, 529	1, 730	1, 198	1, 938	
Consumption.....thous. of bbls.	2, 596	2, 786	2, 841	2, 599	2, 768	2, 573	2, 933	2, 323	3, 181	3, 240	3, 118	3, 205	2 053	
Stocks at refineries, end mo.														
thous. of bbls.	6, 555	6, 883	7, 379	7, 633	7, 771	8, 030	8, 319	8, 352	8, 384	8, 068	8, 455	8, 565	8, 571	
Price, 150° water white.....dolls. per gal.	.054	.054	.053	.054	.053	.050	.052	.055	.060	.063	.064	.062	.064	
Gas and fuel oils:														
Production.....thous. of bbls.	29, 174	2 29, 704	29, 034	29, 818	29, 923	29, 862	31, 023	31, 092	33, 961	32, 236	32, 111	31, 185	33, 213	
Consumption—														
By vessels.....thous. of bbls.	3, 808			4, 463	4, 333	4, 702	4, 316	4, 041	4, 657	4, 234	4, 077	4, 065	4, 223	
By electric pow. plants	771	2 849	2 790	885	835	751	712	617	607	.590	633	706	1, 095	
by railroads.....thous. of bbls.		3, 705	3, 806	4, 355	3, 841	3, 817	3, 924	3, 750	4, 064	4, 025	4, 328	4, 065	4, 556	
Stocks at refineries, end mo.														
thous. of bbls.	33, 977	37, 007	40, 427	41, 293	41, 480	39, 729	2 39, 127	38, 302	36, 664	33, 650	32, 998	34, 280	35, 873	
Price, Okla. 24-26, refineries														
dollars per bbl.	.600	.610	.650	.594	.580	.600	.625	.675	.744	.788	.805	.913	.950	
Lubricating oil:														
Production.....thous. of bbls.	2, 441	2, 509	2, 409	2, 546	2, 723	2, 971	3, 018	2, 920	3, 185	3, 193	3, 120	2, 727	2, 880	
Consumption.....thous. of bbls.	1, 715	1, 458	1, 573	1, 569	1, 944	1, 040	1, 887	1, 772	2, 394	2, 116	2, 122	1, 525	1, 288	
Stocks at refineries, end mo.														
thous. of bbls.	11, 013	10, 971	10, 536	10, 502	10, 257	10, 161	9, 953	9, 742	9, 578	9, 649	9, 561	9, 289	8, 956	
Price, cylinder oil.....dollars per gal.	.165	.172	.184	.186	.190	.193	.210	.284	.340	.343	.345	.345	.351	
Asphalt:														
Production.....thous. of short tons.	147	168	217	306	306	346	334	337	337	273	2 223	2 194	2 215	
Stocks, end of month														
thous. of short tons.	295	308	295	267	270	316	311	312	317	293	2 302	2 289	2 273	
Imports.....thous. of short tons.	0	3	3	7	5	3	6	6	4	1	7	3	5	
Coke:														
Production.....thous. of short tons.	159	166	158	177	170	172	161	163	170	151	161	140	146	
Stocks end of month.....thous. of short tons.	1, 032	1, 041	1, 064	1, 045	1, 045	994	942	891	866	817	786	756	741	
Wax:														
Production.....thous. of lbs.	42, 560	36, 120	35, 840	38, 080	43, 960	39, 760	45, 640	43, 680	45, 920	54, 040	61, 320	50, 960	52, 360	
Stocks, end of mo.....thous. of lbs.	233, 044	232, 592	237, 027	240, 060	248, 940	254, 990	249, 748	248, 524	241, 853	2 230, 734	2 211, 777	2 204, 209		
RUBBER														
Crude Rubber														
World shipments, plantation.....long tons.		65, 661	63, 065	71, 934	74, 941	73, 509	60, 596	53, 944	72, 485	63, 127	70, 347	74, 909	77, 291	
Imports (including latex).....long tons.	36, 598	37, 370	29, 733	45, 375	35, 783	36, 657	35, 424	40, 382	42, 994	45, 648	45, 254	42, 998	47, 904	
Consumption by tire mfrs.....thous. of lbs.	36, 319	25, 537	26, 253	36, 097	33, 382	40, 736	39, 365	45, 706	52, 130	51, 152	43, 911	40, 379	42, 108	
World stocks, end of month:														
long tons.	439, 728	429, 901	427, 664	427, 089	400, 794	394, 687	379, 688	378, 972	378, 052	373, 097	358, 095	334, 809		
United States.....long tons.	201, 000	193, 091	188, 310	171, 285	162, 283	158, 445	155, 000	146, 179	148, 272	141, 843	131, 748	120, 649		
Europe.....long tons.	127, 553	121, 131	119, 010	118, 873	120, 389	112, 798	111, 751	109, 908	105, 035	100, 729	93, 232	87, 321	82, 417	
Producing countries.....long tons.	43, 154	36, 118	37, 564	36, 046	37, 714	42, 910	40, 362	39, 300	41, 923	43, 176	41, 725	41, 095	36, 915	
Afloat.....long tons.		81, 479	80, 236	84, 435	97, 701	82, 805	84, 129	75, 480	85, 855	85, 875	96, 297	97, 931	94, 828	
Wholesale price, smoked sheets, New York.....dollars per pound.		.082	.089	.089	.084	.080	.100	.111	.124	.142	.150	.153	.158	.150
Tires and Tubes														
Pneumatic casings:														
Production.....thousands.	2, 630	2, 251	2, 123	2, 866	2, 692	3, 332	3, 193	4, 098	4, 574	4, 518	3, 891	3, 645	3, 589	
Stocks, end of month.....thousands.	7, 166	7, 203	7, 676	7, 842	7, 849	8, 678	9, 449	10, 622	10, 745	10, 461	1, 010	9, 929	9, 539	
Shipments—														
Domestic.....thousands.	2, 855	2, 550	2, 119	2, 613	3, 360	3, 976	4, 229	4, 050	3, 960	3, 886	3, 587	3, 150	3, 348	
Export.....thousands.	140	139	148	186	165	164	129	185	213	186	186	206	178	
Inner tubes:														
Production.....thousands.	2, 898	2, 448	2, 144	3, 161	3, 053	3, 837	3, 151	3, 960	4, 428	4, 408	3, 953	3, 707	3, 685	
Stocks, end of month.....thousands.	7, 552	7, 999	8, 250	8, 414	8, 052	8, 589	9, 326	10, 889	11, 082	11, 028	10, 543	10, 429	10, 163	
Shipments—														
Domestic.....thousands.	3, 147	2, 634	2, 147	2, 659	3, 525	4, 492	4, 594	4, 082	3, 940	3, 769	3, 682	3, 344	3, 778	
Export.....thousands.	102	96	84	119	108	118	90	131	119	109	99	126	107	
Solid and cushion:					</td									

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"		1931		1930										
		January	December	November	October	September	August	July	June	May	April	March	February	January
RUBBER—Continued														
Other Rubber Products														
Rubber-proofed fabrics, production:														
Total	thous. of yds.	1,909	2,822	5,209	5,046	3,458	2,940	3,379	3,597	4,029	3,570	3,441	3,281	
Auto fabrics	thous. of yds.	476	532	915	733	678	608	851	1,239	1,368	727	885	966	
All other	thous. of yds.	577	736	864	1,254	1,064	975	917	1,042	1,025	1,071	1,211	1,081	1,076
Raincoat fabrics	thous. of yds.	697	1,426	3,040	3,249	1,805	1,415	1,486	1,333	1,590	1,632	1,475	1,239	
Rubber heels:														
Production	thous. of pairs	12,973	13,101	11,083	16,460	14,322	13,735	15,117	15,795	15,603	17,762	15,439	14,172	15,470
Shipments—														
To shoe manufacturers	thous. of pairs	8,471	6,618	4,578	9,354	9,244	8,813	11,668	10,287	7,432	9,201	8,458	8,837	10,989
To repair trade	thous. of pairs	3,939	3,450	4,473	8,291	6,681	6,622	5,053	5,186	5,221	4,641	7,189	6,511	5,106
For export	thous. of pairs	748	838	880	966	1,083	780	938	829	776	1,096	956	1,031	1,049
Stocks, end of month	thous. of pairs	30,302	29,741	29,130	29,333	31,601	33,226	36,220	38,852	38,595	37,618	36,541	38,250	40,528
Rubber soles:														
Production	thous. of pairs	2,588	3,021	1,426	3,056	2,193	1,473	2,663	2,734	1,939	2,593	2,582	2,338	3,496
Shipments—														
To shoe manufacturers	thous. of pairs	2,197	2,305	1,011	2,638	1,691	1,161	2,627	2,549	1,506	1,956	2,055	1,973	3,261
To repair trade	thous. of pairs	287	243	280	492	333	317	364	309	332	380	407	392	491
For export	thous. of pairs	11	58	60	82	74	74	34	31	27	28	54	56	138
Stocks, end of month	thous. of pairs	3,032	2,917	2,390	2,520	2,729	2,289	2,876	3,307	3,019	3,272	3,349	3,171	3,227
Mechanical rubber goods:														
Shipments—														
Total	thous. of dolls.	3,338	3,400	4,186	4,083	4,552	4,910	5,318	6,163	5,989	5,981	5,376	5,169	
Belting	thous. of dolls.	675	779	954	1,045	1,248	1,364	1,238	1,310	1,309	1,379	1,281	1,150	
Hose	thous. of dolls.	1,337	1,276	1,554	1,473	1,682	1,856	2,199	2,703	2,593	2,500	2,190	2,034	
All other	thous. of dolls.	1,326	1,345	1,678	1,565	1,622	1,690	1,881	2,150	2,087	2,101	1,905	1,984	
Rubber bands, shipments	thous. of lbs.	211	165	165	197	172	164	174	211	197	248	230	226	
Rubber flooring, shipments	thous. of sq. ft.	365	597	432	682	529	559	507	634	615	570	533	530	459
Calendered rubber clothing:														
Production	no. coats and sundries	20,791	22,623	41,291	37,097	44,952	38,582	55,411	75,719	86,471	78,858	64,934	56,949	
Net orders	no. coats and sundries	12,881	15,493	25,082	39,364	26,348	28,767	21,249	110,520	89,862	97,612	39,568	31,638	
HIDES AND LEATHER														
Hides														
Imports:														
Total hides and skins	thous. of lbs.	20,211	20,471	18,207	21,512	27,598	26,681	27,960	37,407	54,900	50,966	40,097	35,116	39,094
Calfskins	thous. of lbs.	2,067	0	2,202	3,264	2,835	1,403	1,295	3,505	5,720	2,815	2,408	12,318	2,053
Cattle hides	thous. of lbs.	5,186	6,781	6,781	6,888	12,743	11,389	11,504	13,992	26,839	31,007	21,169	18,885	19,145
Goatskins	thous. of lbs.	5,863	6,154	5,167	7,268	6,807	8,075	7,455	10,016	12,271	7,827	9,670	6,087	6,728
Sheepskins	thous. of lbs.	4,040	3,313	1,965	2,821	3,289	4,460	6,219	7,626	6,284	6,186	2,971	3,715	5,473
Stocks, end of month:														
Total hides and skins	thous. of lbs.	295,652	299,434	290,236	288,617	279,472	276,928	279,114	236,666	281,523	270,286	268,158	265,248	269,925
Cattle hides	thous. of lbs.	235,649	237,392	227,647	227,099	218,446	212,980	217,302	224,209	223,025	218,530	218,308	216,251	221,718
Calf and kip skins	thous. of lbs.	26,707	27,553	28,221	26,972	25,536	27,166	27,725	30,034	30,006	25,538	25,478	25,626	23,480
Sheep and lamb skins	thous. of lbs.	33,296	34,469	34,368	34,546	35,490	36,079	34,087	32,423	28,492	26,218	24,372	23,371	22,727
Prices:														
Green salted, packers' heavy native steers	dolls. per lb.	.095	.107	.118	.133	.146	.136	.141	.152	.143	.140	.142	.148	.163
Calfskins, country, No. 1	dolls. per lb.	.125	.144	.156	.172	.165	.161	.165	.175	.169	.159	.156	.164	.176
Inspected slaughter of livestock:														
United States—														
Cattle	thous. of animals	651	692	605	836	760	700	710	654	690	635	615	561	713
Calves	thous. of animals	379	398	324	438	374	363	375	356	421	455	388	329	374
Swine	thous. of animals	5,362	4,647	4,024	3,492	2,773	2,724	3,187	3,689	3,823	3,480	3,392	4,034	5,001
Sheep	thous. of animals	1,426	1,426	1,305	1,727	1,591	1,413	1,411	1,295	1,370	1,387	1,358	1,187	1,225
Canada—														
Cattle and calves	thous. of animals	69	75	78	97	84	75	81	81	108	100	74	57	68
Swine	thous. of animals	166	170	168	160	140	124	127	159	174	162	168	168	207
Sheep	thous. of animals	37	53	98	185	114	79	56	36	23	27	24	20	31
Leather														
Sole and belting leather:														
Production—														
Sole only														
thous. of backs, bends, sides		1,087	1,226	1,071	1,333	1,330	1,316	1,365	1,310	1,340	1,332	1,293	1,239	1,359
Sole and belting	thous. of lbs.	19,559	21,993	18,777	23,418	23,137	23,223	23,594	23,542	24,355	24,854	24,551	23,552	25,444
Stocks, end of month—														
In process of tanning	thous. of lbs.	73,261	74,135	77,485	78,815	80,895	84,367	85,953	77,946	85,495	85,760	84,300	84,709	84,624
Finished	thous. of lbs.	91,827	90,875	86,331	84,036	81,569	80,018	76,863	74,799	72,724	69,805	69,876	67,452	65,846
Exports	thous. of sq. ft.	726	1,128	825	691	673	374	640	849	669	450	579	430	757
Price, oak, scoured backs	dolls. per lb.	.38	.40	.41	.41	.44	.46	.46	.44	.47	.49	.49	.49	.50
Upper leather:														
Production	thous. of sq. ft.	52,225	59,459	53,658	65,339	63,304	61,477	62,016	60,544	60,699	63,027	68,997	63,220	68,296
Stocks, end of month—														
In process of tanning	thous. of sq. ft.	129,513	134,633	133,357	137,513	141,495	143,063	150,287	141,506	141,190	138,975	139,865	144,022	146,077
Finished	thous. of sq. ft.	282,079	289,092	279,023	270,902	255,787	254,020	259,561	262,621	255,738	256,155	256,867	249,866	246,185
Exports	thous. of lbs.	9,133	8,118	7,451	9,838	8,813	8,367	7,287	8,765	11,481	8,684	10,375	8,320	8,763
Price chrome calf black "B" grade composite price, 6 cents	dollars. per sq. ft.	359	.367	.367	.372	.372	.371	.371	.371	.371	.372	.379	.380	.385
Leather Products														
Shoes:														
Productions	thous. of pairs	19,429	17,537	18,541	27,731	20,334	28,429	24,121	23,904	24,512	29,001	28,626	25,898	26,534
Exports	thous. of pairs	130	208	270	269	256	263	256	257	302	175	293	189	290
Wholesale prices—														
Men's black calf blucher														
Boston	dolls. per pair	6.75	6.75											

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
PAPER AND PRINTING														
Wood Pulp														
Groundwood:														
Production.....short tons..	108,083	110,578	102,957	96,465	92,872	97,895	104,997	140,603	162,911	158,709	163,392	136,898	142,617	
Consumption and shipments.....short tons..	108,662	109,740	110,502	121,335	109,860	116,886	122,709	124,903	136,293	132,728	135,389	131,389	144,498	
Stocks, end of month.....short tons..	73,492	75,498	74,660	82,205	107,075	124,063	143,054	160,766	147,710	123,002	99,218	71,215	65,706	
Imports.....short tons..	14,344	27,024	21,776	31,305	29,502	21,281	17,188	18,534	17,432	20,634	27,329	39,105	28,423	
Sulphite, unbleached:														
Production.....short tons..	20,370	17,860	18,532	22,166	18,888	19,608	18,860	19,464	21,200	22,090	21,638	20,604	21,550	
Consumption and shipments.....short tons..	19,652	18,272	18,238	22,316	18,938	19,122	18,530	19,398	20,488	21,382	22,160	20,440	22,114	
Stocks, end of month.....short tons..	6,192	5,474	5,886	5,592	5,742	5,792	5,306	4,976	4,948	4,236	3,524	4,050	3,886	
Sulphite, bleached:														
Production.....short tons..	44,502	38,698	40,938	47,790	49,830	48,340	42,136	50,096	52,738	54,122	57,088	51,200	58,884	
Consumption and shipments.....short tons..	44,748	38,844	40,634	48,118	49,050	48,094	42,938	47,892	52,652	53,672	56,620	52,174	58,252	
Stocks, end of month.....short tons..	9,248	9,206	9,352	9,048	9,376	8,596	8,250	9,200	6,972	6,886	6,436	5,968	6,942	
Total sulphite:														
Production.....short tons..	126,932	117,158	121,276	140,264	129,242	131,382	123,718	137,768	146,280	146,790	156,194	146,474	157,476	
Consumption and shipments.....short tons..	127,004	116,830	120,780	141,852	128,936	131,454	124,326	136,573	146,014	144,104	153,332	146,978	158,620	
Stocks, end of month.....short tons..	28,392	28,720	28,392	27,896	29,484	29,178	29,250	29,858	28,632	28,366	25,680	22,818	23,322	
Sulphate:														
Production.....short tons..	37,724	36,204	37,208	44,454	42,378	44,374	40,562	41,290	46,134	46,790	44,100	41,564	40,276	
Consumption and shipments.....short tons..	35,148	33,190	34,110	41,446	38,990	41,970	38,754	39,066	43,504	44,122	41,822	41,164	40,566	
Stocks, end of month.....short tons..	10,016	10,066	9,494	8,974	8,966	9,088	9,998	10,296	10,484	10,666	8,830	8,020		
Soda:														
Production.....short tons..	23,102	28,560	28,966	30,684	30,052	29,962	30,326	32,366	38,532	37,814	38,158	35,008	39,378	
Consumption and shipments.....short tons..	28,512	27,128	28,346	28,954	28,638	28,868	28,984	30,004	35,676	34,976	34,872	31,992	38,132	
Stocks, end of month.....short tons..	4,366	5,118	4,936	5,642	5,248	5,166	5,420	5,426	5,652	5,838	6,006	5,710	5,438	
Other grades:														
Production.....short tons..	108	92	122	168	128	188	160	196	188	110	126	132	96	
Consumption and shipments.....short tons..	98	124	110	136	150	174	160	214	168	152	118	82	134	
Stocks, end of month.....short tons..	38	28	60	48	16	38	24	24	42	22	64	56	6	
Total (all grades):														
Production.....short tons..	193,866	182,014	187,572	215,570	201,800	205,906	194,766	211,620	231,134	231,504	238,578	223,178	237,226	
Consumption and shipments.....short tons..	190,802	177,272	183,346	212,388	196,714	202,466	192,224	205,862	225,362	223,334	230,144	220,216	237,442	
Stocks, end of month.....short tons..	42,812	43,872	42,882	42,500	43,714	42,880	43,782	45,306	44,622	44,710	42,416	37,414	36,786	
Newspaper Print														
Production:														
United States, total.....short tons..	101,990	99,276	92,337	105,450	95,261	101,601	102,840	108,398	118,093	109,967	113,328	112,394	124,851	
Ratio to capacity.....per cent..	69	69	68	72	70	72	73	80	80	78	80	83	86	
Canada.....short tons..	182,657	184,755	201,703	213,817	195,490	202,043	216,978	213,634	237,681	228,048	207,485	189,154	206,305	
Consumption by publishers:														
United States.....short tons..	100,440	99,062	93,631	102,808	96,048	99,236	103,018	106,883	110,702	109,346	109,686	110,714	124,262	
Canada.....short tons..	180,027	188,845	213,673	221,748	193,835	197,870	209,511	212,670	239,034	221,050	208,629	178,691	202,008	
Shipments:														
United States.....short tons..	100,440	99,062	93,631	102,808	96,048	99,236	103,018	106,883	110,702	109,346	109,686	110,714	124,262	
Canada.....short tons..	180,027	188,845	213,673	221,748	193,835	197,870	209,511	212,670	239,034	221,050	208,629	178,691	202,008	
Imports:														
short tons..	172,110	194,144	195,953	209,944	175,996	169,280	193,595	206,927	207,605	186,025	187,513	154,138	198,620	
Exports, Canada.....short tons..	153,362	225,495	173,149	200,776	194,820	170,107	199,060	194,322	225,251	159,802	225,252	163,204	199,773	
Stocks, end of month:														
At mills:														
United States.....short tons..	32,903	32,061	31,818	33,318	30,879	30,691	29,284	29,507	27,924	24,546	24,004	20,552	18,778	
Canada.....short tons..	38,768	36,777	40,372	52,547	62,495	59,007	52,862	45,229	44,409	45,948	38,661	39,598	29,154	
At publishers:														
short tons..	217,889	217,651	198,151	211,716	215,685	227,443	221,368	200,651	199,363	197,621	210,054	224,155	231,879	
In transit to publishers.....short tons..	39,022	38,821	50,539	41,017	41,970	38,885	32,422	36,274	46,702	44,690	42,915	47,174	48,925	
Price, roll, f. o. b. mill.....dollars per 100 lbs..	3.10	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	
Box Board														
Operation:														
Inch-hours.....thousands..	7,451	6,261	7,114	8,391	7,907	8,030	7,893	7,842	8,378	8,581	8,643	8,972	8,832	
Capacity.....per cent..	63.2	53.1	65.3	68.5	69.7	68.1	66.9	69.1	71.0	72.7	73.3	82.4	75.5	
Production:														
short tons..	209,369	176,483	203,381	253,889	228,257	224,391	222,788	221,525	239,186	245,167	229,979	220,014	236,344	
New orders.....short tons..	209,953	173,258	200,199	247,209	226,809	221,840	230,380	226,965	234,448	249,735	225,782	213,181	243,612	
Unfilled orders, end of month.....short tons..	55,726	53,622	55,534	57,377	61,978	63,518	65,819	68,866	63,237	66,868	58,591	62,134	69,940	
Consumption of waste paper.....short tons..	195,797	162,528	190,502	228,588	223,071	215,879	207,596	210,793	232,581	230,993	229,909	216,717	223,288	
Shipments.....short tons..	207,849	175,170	202,042	251,810	224,439	224,141	223,427	228,439	233,336	238,079	241,458	229,325	220,987	
Shipments, end of month.....short tons..	73,971	72,451	71,138	69,799	67,720	67,902	67,652	68,291	72,102	70,995	67,286	66,632	67,605	
Stocks, end of month.....short tons..														
Stocks of waste paper, end of month:														
On hand.....short tons..	192,034	201,597	184,598	177,486	165,499	187,508	175,645	184,451	185,972	181,125	192,957	179,497	180,055	
In transit and unshipped purchases.tons..	34,470	34,292	30,649	34,910	45,960	36,108	43,393	38,241	34,919	51,950	54,629	54,577	54,142	
Other Paper														
Binders' board, production.....short tons..						1,894	1,342	1,620	1,400	1,592	1,974	1,586	2,054	
Book paper:														
Production.....short tons..	109,806	100,188	93,897	103,525	102,602	105,017	105,017	111,720	124,133	135,813	131,857	120,970	135,011	
Ratio to capacity.....per cent..	79	75	73	74	81	78	78	87	93	101	97	100	103	
Shipments.....short tons..	111,453	101,090	93,428	106,838	100,345	106,907	107,012	109,932	117,306	125,627	124,473	119,155	130,151	
Stocks, end of month.....short tons..	112,359	114,302	115,340	114,766	118,315	113,995	118,362	120,778	118,410	110,664	98,807	90,649	88,524	
Wrapping paper:														
Production.....short tons..	81,330	7												

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
PAPER AND PRINTING—Continued														
Paper-Board Shipping Boxes—Continued														
Production:														
Total	thous. of sq. ft.	383,195	359,440	428,236	518,388	506,578	473,354	461,148	490,604	483,965	487,482	486,475	494,971	468,548
Corrugated	thous. of sq. ft.	305,274	283,933	347,876	425,900	415,623	388,030	374,709	393,130	390,884	395,832	401,160	391,265	369,950
Solid fiber	thous. of sq. ft.	77,921	75,507	80,360	92,488	90,955	85,324	86,439	97,474	93,081	91,650	85,315	103,706	98,598
Rope paper sacks, shipments	rel. to 1921-22	84	66	79	87	88	78	85	87	80	90	92	96	103
Printing														
Sales books:														
New orders	thous. of books	10,735	9,455	11,053	12,217	11,652	11,026	10,903	12,688	11,730	11,661	12,347	11,684	13,028
Shipments	thous. of books	10,454	10,893	10,723	13,428	12,363	11,918	10,572	12,540	10,967	12,237	12,176	11,587	11,993
Book publication:														
American manufacture	no. of titles		618	785	712	643	657	418	440	621	646	790	514	449
Imported	no. of titles		247	141	95	150	155	74	71	147	241	338	251	156
Blank forms, new orders	thous. of sets	50,587	69,004	47,878	78,707	60,812	55,779	59,152	64,544	68,630	54,901	72,340	63,793	55,321
Printing activity	relative. to 1924		95	91	92	93	85	89	96	104	107	108	108	110
BUILDING CONSTRUCTION AND HOUSING														
Building Costs														
Building materials:														
Frame house, 6-rm. 1st of mo.	rel. to 1913	163	168	165	171	163	169	173	175	177	173	177	178	178
Brick house, 6-rm. 1st of mo.	rel. to 1913	170	174	172	176	174	175	177	179	181	176	181	182	182
Bldg. costs, 1st of mo.	rel. to 1913	194.5	196.9	198.5	198.7	199.6	201.0	201.0	203.4	205.9	207.2	206.8	206.5	209.0
Bldg. costs (A. G. C.), 1st of mo.	rel. to 1913	199	199	200	198	198	200	200	201	201	201	203	203	203
Construction costs (Am. Appraisal):														
Frame	rel. to 1913	179	182	183	188	191	194	197	198	201	202	202	204	204
Brick, steel frame	rel. to 1913	179	179	180	186	188	190	193	193	196	196	196	198	197
Brick, wood frame	rel. to 1913	194	196	196	202	206	208	211	212	213	213	213	215	214
Reinforced concrete	rel. to 1913	182	184	185	190	193	195	197	198	200	200	201	203	202
Building and Engineering Construction, 37 States														
Total construction, all types:														
Projects	number	6,911	7,391	9,127	12,158	11,495	11,621	12,533	13,359	14,331	14,686	12,421	8,560	7,587
Floor space	thous. of sq. ft.	24,635	29,055	33,099	39,484	41,193	39,760	44,577	48,214	53,732	56,603	53,505	38,236	32,925
Valuation	thous. of dolis.	227,956	249,436	253,574	336,706	331,864	346,643	366,878	600,573	457,416	482,877	456,119	317,053	323,975
Commercial buildings:														
Projects	number	1,135	1,174	1,481	2,015	1,841	1,919	1,925	1,916	2,267	2,331	2,262	1,797	1,670
Floor space	thous. of sq. ft.	4,567	3,555	4,727	6,673	5,721	7,914	7,332	9,489	9,897	10,510	12,723	10,712	8,601
Valuation	thous. of dolis.	28,435	25,092	29,509	35,653	31,137	50,860	59,080	73,340	73,241	77,002	72,903	54,052	54,052
Industrial buildings:														
Projects	number	236	294	356	427	410	483	453	448	485	543	506	439	379
Floor space	thous. of sq. ft.	1,620	2,163	2,212	2,705	5,732	3,699	5,300	4,359	8,023	5,119	6,191	4,007	3,654
Valuation	thous. of dolis.	10,067	15,156	17,649	16,150	31,722	20,636	35,167	93,619	45,566	38,121	74,333	33,499	38,266
Educational buildings:														
Projects	number	146	197	202	283	380	548	823	696	518	401	337	204	182
Floor space	thous. of sq. ft.	2,800	4,012	4,275	3,584	4,150	4,141	6,514	6,730	6,213	5,842	6,135	4,068	2,887
Valuation	thous. of dolis.	10,408	24,527	29,528	28,233	25,897	42,748	48,919	36,890	35,156	35,350	21,239	19,009	19,009
Hospital and institutional buildings:														
Projects	number	55	69	72	110	136	119	126	125	125	115	101	60	63
Floor space	thous. of sq. ft.	600	752	816	1,052	1,753	1,609	1,900	1,903	1,401	2,918	2,909	1,316	791
Valuation	thous. of dolis.	4,855	6,769	6,937	11,556	16,547	13,415	12,673	19,675	10,312	25,874	23,803	8,778	6,783
Public buildings:														
Projects	number	86	107	114	137	137	137	156	155	112	138	124	91	69
Floor space	thous. of sq. ft.	952	1,710	645	1,176	1,300	2,031	2,650	1,115	1,598	1,779	1,763	642	614
Valuations	thous. of dolis.	5,364	19,545	5,240	14,533	11,661	12,547	13,947	8,554	10,033	11,399	18,189	5,581	8,567
Religious and memorial buildings:														
Projects	number	90	102	111	162	189	206	220	236	208	204	185	118	103
Floor space	thous. of sq. ft.	241	446	496	667	860	852	873	1,315	1,131	1,439	1,346	921	519
Valuation	thous. of dolis.	1,685	5,177	4,564	5,386	6,576	6,879	8,030	11,809	10,374	8,866	10,096	9,576	5,504
Social and recreational buildings:														
Projects	number	129	127	169	227	222	220	269	242	280	279	215	148	153
Floor space	thous. of sq. ft.	1,226	1,108	771	1,047	804	1,462	1,059	1,253	1,416	2,117	1,433	726	1,409
Valuation	thous. of dolis.	8,557	5,849	7,670	9,583	9,478	8,173	10,187	10,419	17,409	10,505	4,889	13,096	13,096
Residential buildings, all types:														
Projects	number	4,056	4,340	5,368	6,822	6,097	5,979	6,297	7,012	7,982	8,566	7,208	4,874	4,168
Floor space	thous. of sq. ft.	12,235	14,705	18,844	22,337	19,688	16,843	18,231	20,782	23,462	25,402	20,713	15,207	13,826
Valuation	thous. of dolis.	54,376	70,911	80,782	104,670	98,535	82,670	84,333	96,816	116,569	123,142	101,492	74,763	66,632
Public works and utilities:														
Projects	number	978	981	1,254	1,975	2,083	2,010	2,264	2,529	2,354	2,109	1,483	829	800
Floor space	thous. of sq. ft.	393	604	312	244	185	1,208	718	270	593	1,478	292	637	624
Valuation	thous. of dolis.	95,211	76,412	71,696	110,601	101,413	124,202	114,866	251,916	143,913	149,670	105,350	85,825	112,065
Contracts awarded, Canada														
	thous. of dolis.	20,299	24,542	39,311	33,332	32,407	49,407	37,374	54,728	46,862	48,779	24,263	28,464	37,530
Building volume (A. G. C.)	rel. to 1913	95	123	173	186	199	206	199	191	176	146	131	114	131
Real estate market activity	rel. to 1926	66.0	68.9	64.6	74.0	66.8	69.6	69.8	66.7	73.5	73.0	70.3	74.5	75.0
Fire losses:														
United States	thous. of dolis.	44,090	42,670	35,683	36,839	35,230	36,044	34,848	31,818	38,415	43,551	42,964	43,207	42,344
Canada (Monetary Times)	thous. of dolis.				3,175	2,796	2,507	5,877	2,560	3,266	3,941	2,331	3,783	2,412
BUILDING MATERIALS														
Softwood Lumber														
Southern pine:														
Production	M ft. b. m.	165,065	157,143	184,712	210,972	207,107	202,016	223,647	218,268	258,049	278,332	274,542	244,549	251,382
Shipments	M ft. b. m.	182,679	145,110	176,110	217,885	209,545	199,360	205,419	194,561	244,818	254,699	258,612	230,552	228,480
New orders	M ft. b. m.	190,985	146,465	177,327	213,028	206,024	189,350	196,791	183,820	229,906	243,247	239,450	246,295	252,070
Unfilled orders	M ft. b. m.	116,193	99,036	105,021	108,86									

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931		1930											
	January	December	November	October	September	August	July	June	May	April	March	February	January	
BUILDING MATERIALS—Continued														
Softwood Lumber—Continued														
Douglas fir—Continued:														
Unfilled orders, end of month.	M ft. b. m.	38,251	188,012	176,373	137,876	176,373	134,742	172,344	199,203	201,889	265,903	216,662	290,076	293,657
Exports, lumber.	M ft. b. m.	16,081	53,718	42,364	43,801	48,097	42,129	61,813	85,004	60,420	70,343	45,184	38,106	47,487
Exports, timber.	M ft. b. m.		12,859	9,151	12,511	16,114	25,850	22,369	41,849	46,979	41,942	37,143	27,887	63,064
Price, No. 1 common	dolls. per M ft. b. m.													
Price, flooring, 1x4, "B" and better, V. G.	dolls. per M ft. b. m.	12.82	12.99	13.25	12.98	13.14	13.44	14.47	14.30	15.16	16.26	16.75	16.71	16.85
California redwood:														
Production (computed).	M ft. b. m.		23,048	25,900	35,063	28,337	28,835	28,335	31,095	29,650	39,146	34,959	36,667	41,084
Shipments (computed).	M ft. b. m.		20,307	20,549	31,808	27,505	25,044	31,305	28,384	29,566	38,576	31,097	34,173	30,893
New orders (computed).	M ft. b. m.		17,857	21,485	30,603	27,155	25,293	30,574	26,092	30,052	36,401	29,768	36,106	35,633
Unfilled orders, end of month (computed).	M ft. b. m.		22,766	24,514	24,277	26,150	26,573	26,254	25,815	30,880	31,080	32,403	37,211	27,029
Northern pine:														
Lumber—														
Production.	M ft. b. m.	2,167	1,326	850	9,853	22,925	27,583	37,849	41,891	34,543	30,690	15,549	15,549	14,935
Shipments.	M ft. b. m.	13,799	10,577	14,280	20,498	17,791	21,516	22,101	25,160	27,422	26,548	28,127	26,144	23,200
New orders.	M ft. b. m.	13,990	9,442	12,525	21,033	17,697	19,503	19,962	24,290	21,076	25,629	23,858	21,257	22,670
Lath—														
Production.	thousands	0	0	33	1,273	3,229	3,968	5,214	4,558	4,770	3,215	571	571	527
Shipments.	thousands	4,174	1,450	3,162	3,671	6,047	4,833	4,473	4,001	3,815	4,861	3,524	3,543	3,251
North Carolina pine:														
Production (computed).	M ft. b. m.		28,140	29,386	27,832	27,349	26,803	35,917	38,346	41,979	43,526	42,497	41,097	
Shipments (computed).	M ft. b. m.		34,300	35,049	35,392	33,481	30,730	38,164	36,666	39,627	39,683	38,031	36,946	
Northern hemlock:														
Production.	M ft. b. m.	6,526	5,812	4,046	4,374	6,876	8,223	13,245	9,555	10,505	10,700	11,213	8,515	11,153
Shipments.	M ft. b. m.	6,094	4,955	6,596	7,436	6,751	7,007	8,033	8,455	9,539	8,616	8,919	5,241	7,860
Hardwood Lumber														
Walnut lumber:														
Production.	M ft. b. m.	642	1,184	1,444	1,386	1,121	1,174	1,312	1,850	1,786	2,654	2,599	1,838	2,363
Shipments.	M ft. b. m.	1,004	1,187	1,470	1,907	1,861	1,511	1,123	1,696	1,717	2,060	1,860	1,771	2,070
Stocks, end of month.	M ft. b. m.	18,295	17,670	18,731	18,796	19,334	20,090	20,454	20,281	19,634	19,503	18,905	18,079	18,727
New orders.	M ft. b. m.	1,152	1,203	1,343	1,809	1,735	1,698	1,031	1,989	1,476	1,638	1,732	1,445	2,071
Unfilled orders, end of month.	M ft. b. m.	3,211	3,118	3,393	3,646	4,085	4,025	4,016	3,970	3,389	3,408	3,886	3,704	4,418
Walnut logs:														
Purchased.	M ft. log measure.	1,179	1,204	1,460	1,294	1,171	886	598	712	1,008	1,820	1,788	2,009	1,701
Made into lumber and veneer.	M ft. log measure.	895	1,146	1,340	1,421	1,109	1,029	943	1,268	1,588	2,011	2,128	1,818	2,021
Stocks, end of month.	M ft. log measure.	1,136	777	791	670	805	745	885	1,198	1,649	2,093	2,364	2,682	2,510
Northern hardwoods:														
Production.	M ft. b. m.	14,178	8,147	4,382	4,772	4,371	9,225	14,363	16,321	19,560	23,851	25,788	24,694	29,484
Shipments.	M ft. b. m.	10,854	8,021	9,374	11,285	11,862	11,167	12,649	13,345	18,479	18,201	18,513	17,773	17,119
Gum:														
Stocks, total, end of month.	mill. ft. b. m.	611	610	608	601	610	609	598	587	573	552	534	534	
Stock, unsold, end of month.	mill. ft. b. m.	511	509	504	494	497	488	470	456	442	422	408	404	
Unfilled orders, end of month.	mill. ft. b. m.	100	102	104	107	113	120	128	131	130	130	126	130	
Oak:														
Stocks, total, end of month.	mill. ft. b. m.	1,029	1,022	1,021	1,016	1,036	1,044	1,049	1,038	1,051	1,055	1,052	1,040	
Stocks, unsold, end of month.	mill. ft. b. m.	935	928	924	918	927	929	917	885	870	865	865	877	
Unfilled orders, end of month.	mill. ft. b. m.	95	95	97	98	109	115	132	153	181	189	187	174	
All hardwoods:														
Production.	mill. ft. b. m.	134	143	158	161	165	172	214	240	255	270	255	251	
Shipments.	mill. ft. b. m.	125	133	169	180	154	150	165	203	218	221	233	206	
New orders.	mill. ft. b. m.	125	148	154	176	139	128	143	195	199	203	244	199	
Stocks, total, end of month.	mill. ft. b. m.	3,319	3,273	3,270	3,261	3,308	3,323	3,294	3,217	3,182	3,141	3,086	3,061	
Stocks, unsold, end of month.	mill. ft. b. m.	2,863	2,821	2,805	2,787	2,808	2,795	2,737	2,614	2,555	2,500	2,451	2,440	
Unfilled orders, end of month.	mill. ft. b. m.	456	452	466	475	500	526	557	603	627	641	635	614	
Flooring														
Maple flooring:														
Production.	M ft. b. m.	3,211	3,312	3,128	3,591	3,724	3,755	3,968	5,271	5,719	5,382	5,992	6,589	
Shipments.	M ft. b. m.	1,955	2,813	3,375	3,700	4,762	5,175	4,469	5,357	4,768	4,701	3,771	4,625	
Stocks, end of month.	M ft. b. m.	27,417	26,468	25,921	26,275	26,909	28,786	30,170	30,674	31,122	31,017	30,150	28,314	
New orders.	M ft. b. m.	2,036	2,964	2,521	3,256	3,805	3,881	4,083	4,604	4,204	3,953	3,696	4,245	
Unfilled orders, end of month.	M ft. b. m.	3,670	3,448	3,518	3,036	3,613	4,388	5,430	5,224	5,353	5,418	6,008	5,827	
Fabricated Structural Steel														
New orders (prorated).	short tons	162,400	152,800	151,200	203,200	155,600	252,000	270,000	253,600	279,200	222,800	236,800	267,600	228,800
Ratio to capacity.	per cent	41	28	28	52	39	63	68	63	70	56	59	67	60
Shipments (prorated).	short tons	172,400	168,400	195,200	230,200	243,200	262,400	274,800	280,000	265,200	284,000	264,800	280,400	229,600
Ratio to capacity.	per cent	43	42	49	60	61	66	70	69	71	66	66	70	57
Portland Cement														
Production.	thous. of bbls.	6,581	8,480	11,098	14,410	16,124	17,821	17,078	17,239	17,249	13,521	11,225	8,162	8,498
Operation.	per cent of capacity	29.5	38.2	51.7	65.4	75.7	81.0	77.8	81.4	78.9	64.0	51.5	41.5	38.8
Shipments.	thous. of bbls.	4,687	5,688	8,784	15,599	18,083	20,299	20,153	18,781	17,224	13,340	8,826	7,012	4,955
Stocks, end of month.	thous. of bbls.	27,777	25,883	23,056	20,697	21,889	23,824	26,289	29,364	30,891	30,867	30,648	28,249	27,081
Stocks, clinker, end of month.	thous. of bbls.	10,400	8,809	7,758	7,266	7,783	9,275	11,684	13,452	14,668	15,164	13,503	11,572	9,646
Wholesale prices, composite.	dolls. per bbl.	1,578	1,580	1,588	1,600	1,600	1,600	1,600	1,600	1,617	1,617	1,617	1,576	
Common brick:														
Stocks, end of month—														
Burned.	thousands.	251,842	290,144	429,806	405,082	373,485	350,940	341,993	390,782	303,971	327,657	368,833	513,057	428,508
Unburned.	thousands.	305,600	233,812	285,944	273,309	271,577	222,710	197,069	213,848	171,867	177,704	193,430	259,889	234,126
Shipments.	thousands.	19,657	33											

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
BUILDING MATERIALS—Continued														
Portland Cement—Continued														
Sand-lime brick:														
Production..... thousands		7,126	7,925	7,877	9,636	10,415	10,317	12,708	9,802	7,406	4,827	553	6,586	
Shipments by rail..... thousands		3,044	3,437	3,278	2,921	3,102	2,929	3,272	3,910	2,846	2,489	2,356		
Shipments by truck..... thousands		4,659	6,169	6,553	6,437	6,781	6,809	7,559	5,624	4,990	3,576	3,086		
Stocks, end of month..... thousands		12,730	12,260	14,151	15,496	14,328	13,191	12,975	11,505	11,959	10,286	13,691		
Unfilled orders, end of month..... thousands		8,183	7,567	8,957	7,762	9,797	9,314	10,706	8,229	12,793	9,358	7,904		
Face brick:														
Production..... thousands	310	494	543	748	854	738	835	757	664	439	553	501		
Shipments..... thousands	303	365	536	767	794	865	887	968	966	720	495	359		
Stocks, end of month..... thousands	3,856	3,823	3,677	3,662	3,677	3,717	3,625	3,737	3,765	3,922	4,335	4,645	4,591	
Unfilled orders, end of month..... thousands	778	778	821	901	1,067	1,144	1,263	1,331	1,192	1,145	1,179	1,265		
Floor and wall tile:														
Production..... thous. of sq. ft.		3,342	2,3,134	4,135	3,954	3,812	3,690	3,869	3,838	3,588	3,752	3,350	3,435	
Shipments, quantity..... thous. of sq. ft.		2,937	2,3,791	4,572	4,482	4,859	4,385	4,280	2,4,420	3,964	3,868	3,195	3,366	
Shipments, value..... thous. of dolls.		975	2,1,110	2,1,581	1,518	1,663	1,576	1,539	2,1,620	1,503	1,444	1,251	1,335	
Stocks, end of month..... thous. of sq. ft.		14,570	2,14,166	14,823	2,15,259	2,15,786	2,16,834	2,17,189	17,771	18,147	18,263	18,108		
Terra cotta, new orders:														
Quantity..... net tons	3,231	3,799	3,373	5,930	5,718	5,594	7,829	8,326	6,990	7,502	5,656	5,900	8,048	
Value..... thous. of dolls.	324	350	329	556	463	520	741	734	719	743	579	636	839	
Plate glass:														
Production, polished..... thous. of sq. ft.	7,321	4,941	7,103	8,583	7,979	5,523	8,326	9,128	12,571	11,430	10,416	9,804	10,018	
Roofing														
Roofing, felt:														
Production, dry felt..... tons	13,197	8,106	8,944	21,470	25,631	18,285	17,488	20,470	22,458	23,543	21,170	16,594	23,116	
Stocks, end of month, dry felt..... tons	4,759	3,731	4,036	4,799	5,005	5,500	6,232	7,391	6,322	6,838	6,811	7,087	6,382	
Prepared roofing, shipments:														
Total..... thous. of sqs.	1,645	1,126	1,484	3,259	3,506	2,544	2,151	2,384	2,714	2,727	2,240	1,356	2,383	
Smooth roll..... thous. of sqs.	773	583	742	1,575	1,438	1,021	803	924	1,088	1,191	1,062	709	1,224	
Grit roll..... thous. of sqs.	572	242	372	922	872	655	612	653	731	676	581	338	493	
Shingles—														
Strip, patented, and hexagon..... thous. of sqs.	249	238	283	572	1,001	692	597	656	730	715	484	252	598	
Individual and single thickness..... thous. of sqs.	51	63	86	191	196	176	139	151	164	144	113	57	67	
BUILDING EQUIPMENT														
Enamel Ware														
Baths:														
Shipments..... pieces	68,564	36,008	35,489	48,547	47,970	51,836	53,259	52,189	59,554	60,072	59,887	46,204	40,967	
Stocks, end of month..... pieces	148,909	167,932	168,808	166,248	162,302	165,687	173,860	181,746	180,903	182,616	179,910	179,512	173,523	
New orders..... pieces	56,494	52,254	30,813	43,750	41,799	48,449	48,706	54,827	49,375	55,243	66,670	30,173		
Unfilled orders, end of month..... pieces	24,642	36,712	20,466	25,142	20,939	36,110	39,497	44,050	41,412	51,591	56,420	49,637	29,774	
Lavatories:														
Shipments..... pieces	93,870	48,023	47,078	58,273	62,369	59,130	63,895	62,337	72,124	74,800	81,171	60,604	53,122	
Stocks, end of month..... pieces	192,072	214,472	205,517	204,496	185,515	187,150	187,979	197,117	192,197	176,181	170,666	166,257	163,283	
New orders..... pieces	71,113	72,493	41,227	52,509	54,369	55,062	56,875	64,792	59,984	66,842	83,157	97,582	38,700	
Sinks:														
Shipments..... pieces	80,093	43,968	51,027	61,486	64,044	62,454	64,459	61,329	75,123	75,176	79,997	62,531	58,343	
Stocks, end of month..... pieces	244,880	261,800	253,374	246,632	243,845	254,426	257,039	261,633	261,556	260,237	248,198	269,193	251,446	
New orders..... pieces	63,074	61,567	44,897	58,504	57,606	55,785	61,766	62,424	61,803	70,704	79,305	91,665	43,189	
Miscellaneous sanitary ware:														
Shipments..... pieces	33,527	19,680	22,065	29,142	31,485	29,807	25,987	27,283	35,399	34,212	34,441	25,519	24,288	
Stocks, end of month..... pieces	105,152	112,460	108,795	106,858	100,585	101,920	104,102	125,505	132,146	145,644	145,345	117,074	113,355	
New orders..... pieces	29,785	25,092	21,453	27,840	28,449	28,365	23,537	27,159	30,878	33,731	37,835	33,755	19,53	
Small ware (all except baths):														
Unfilled orders, end of month..... pieces	65,506	109,086	61,605	74,198	84,246	101,720	113,899	126,062	122,636	152,617	165,528	160,840	86,492	
Vitreous china plumbing fixtures:														
New orders..... pieces	250,183	131,807	113,710	141,036	140,882	142,254	142,024	128,991	139,784	133,179	170,325	259,675	200,253	
Shipments..... pieces	172,334	108,065	121,259	158,839	155,330	166,156	158,650	157,773	194,948	209,366	211,637	180,683	205,673	
Unfilled orders, end of month..... pieces	337,158	259,309	235,567	243,116	260,919	275,367	299,269	313,895	342,677	397,841	474,028	515,340	436,348	
Stocks, end of month..... pieces	594,836	623,125	582,675	593,492	586,915	615,931	654,535	648,805	626,429	635,501	646,235	642,888	632,740	
Porcelain plumbing fixtures:														
Net new orders..... pieces	4,559	4,586	4,451	8,657	6,815	8,232	7,480	7,367	7,879	6,469	9,044	6,721	10,330	
Shipments..... pieces	4,597	3,259	5,634	6,455	7,564	7,214	7,448	6,336	7,101	6,502	5,378	4,240	5,327	
Unfilled orders, end of mo..... pieces	29,863	30,400	29,869	31,309	31,973	33,493	34,171	35,674	35,078	35,017	35,961	32,731	30,374	
Stocks, end of month..... pieces	25,585	29,598	30,370	31,133	29,367	32,696	34,259	37,410	36,920	38,240	39,198	39,352	37,815	
Plumbing fixtures, 6 pieces..... dollars	99.26	98.52	96.68	97.40	96.88	98.32	98.27	99.29	105.99	105.47	104.51	103.69	100.55	
Illuminating Glassware														
Production:														
Total..... number of turns	2,183	1,912	2,059	2,185	1,961	2,083	1,785	2,262	3,180	2,532	2,667	2,636	2,847	
Ratio to capacity														
per ct. of capacity	29.1	30.9	33.2	35.3	31.7	33.6	28.8	36.5	36.6	37.8	34.4	38.1	35.4	
New orders..... per ct. of capacity	30.7	26.5	30.5	34.5	33.7	29.9	26.8	36.1	38.2	41.5	38.6	35.6	35.6	
Shipments..... per ct. of capacity	28.7	27.6	30.6	34.4	33.0	30.4	28.0	36.2	33.6	38.8	37.1	36.4	34.8	
Unfilled orders, end of month..... number of weeks' supply	.2	.7	.7	.8	.8	.7	.8	1.1	1.0	1.0	1.0	1.1	1.1	
Stocks, end of month..... number of weeks' supply..	1.1	5.1	4.9	4.7	4.6	4.6	4.5	5.9	5.8	5.8	6.0	5.5	5.4	
Furniture														
Household furniture and case goods:														
Shipments..... dolls., av. per firm	24,765	34,207	53,091	63,343	56,456	45,686	32,956	41,015	47,092	54,203	56,664	46,398		
Unfilled orders..... dolls., av. per firm	14,073	15,411	17,335	23,830	33,432	33,903	33,951	22,028	22,976	30,837	39,067	46,593		
Grand Rapids district:														
Unfilled orders, end of mo..... No. days' production	18	17	22	20	26	24	27	24	26	18	24	27	29	
New orders..... No. days' production	16	15	22	21	29	18	18	10	23	13	15	16	21	
Shipments..... No. days' production	14	17	18	26	27	18	13	12	16	16	16	16	21	
Outstanding accounts, end of month..... No. days' sales	42	43	48	51	52	40	37	36	37	39				

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary	January
BUILDING EQUIPMENT—Continued														
Furniture—Continued														
Steel furniture:														
Business group—														
Shipments.....thous. of dolls.	1,798	1,800	1,673	1,901	1,879	1,985	1,812	2,168	2,342	2,427	2,727	2,550	2,891	
New orders.....thous. of dolls.	1,798	1,665	1,637	1,855	1,795	1,788	1,841	2,007	2,310	2,524	2,627	2,370	2,886	
Unfilled orders end mo.....thous. of dolls.	933	932	1,168	1,203	1,249	1,331	1,528	1,492	1,651	1,680	1,590	1,683	1,862	
Shelving—														
Shipments.....thous. of dolls.	393	468	458	593	497	555	604	705	752	815	812	683	675	
New orders.....thous. of dolls.	376	242	429	534	512	526	596	699	725	796	839	759	725	
Unfilled orders, end mo.....thous. of dolls.	388	405	632	661	720	704	736	746	754	782	808	782	706	
PLYWOOD AND VENEER														
Rotary-cut veneer:														
Receipts.....No. of carloads.	101	111	106	101	147	100	118	115	93	181	203	209	149	
Purchases.....No. of carloads.	138	112	97	101	139	106	116	133	73	122	120	211	207	
GLASS CONTAINERS														
Actual production:														
Quantity.....gross.	1,776	1,698	1,913	2,461	2,202	2,439	2,406	2,528	2,633	2,419	2,527	2,074	2,336	
Relation to capacity.....per cent.	52.8	50.5	59.1	70.4	68.1	72.5	71.5	78.1	75.4	71.9	75.8	67.3	70.1	
New orders.....gross.	2,634	1,894	2,221	2,451	2,585	2,636	1,980	3,249	2,236	2,550	2,165	2,363	4,056	
Shipments.....gross.	2,041	1,486	1,678	2,297	2,623	2,459	2,368	2,451	2,788	2,564	2,437	2,011	2,110	
Unfilled orders, end of month.....gross.	10,761	9,628	9,484	9,097	9,404	10,024	10,152	11,147	10,924	11,922	12,111	12,636	13,011	
Stock, end of month.....gross.	6,696	7,022	6,814	6,578	6,412	6,768	6,788	6,750	6,662	6,809	6,962	6,868	6,850	
CHEMICALS AND OILS														
Chemicals														
Sulphuric acid:														
Exports.....pounds.	304,745	438,836	308,992	703,787	465,766	176,023	570,683	409,748	507,011	327,918	335,773	434,127	882,315	
Price, wholesale.....dollars. per 100 lbs.	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	
Nitrate of soda:														
Imports.....long tons.	45,890	35,512	35,474	27,207	19,362	9,083	28,644	18,737	42,308	69,788	106,521	85,837	89,421	
Production in Chile.....metric tons.														
Potash salts:														
Imports (commercial).....long tons.	22,750	17,537	13,499	37,425	48,482	48,487	51,970	2,75,704	2,13,313	2,22,339	2,42,492	40,811	44,077	
Sales in Germany (K ₂ O content).....metric tons.														
Superphosphate (acid phosphate):														
Production.....short tons.	325,552	335,980	302,730	335,594	282,710	295,790	308,241	290,615	326,566	334,467	324,632	355,815	445,128	
Stocks, end of month.....thous. of short tons.	2,293	1,877	1,703	1,479	1,527	1,309	1,079	882	885	1,615	2,260	2,224		
Shipments.....short tons.	103,024	70,496	77,861	92,769	149,899	64,756	73,134	54,488	149,343	469,184	403,435	189,022	116,759	
Fertilizer:														
Exports.....long tons.	91,497	71,533	84,847	125,441	118,761	115,580	143,620	113,538	143,347	188,044	153,539	163,776	104,221	
Consumption, Southern States.....thous. of short tons.	343	74	61	95	128	38	18	79	216	1,280	1,878	1,071	2,479	
Crude arsenic:														
Production.....short tons.	2,803	1,483	2,392	2,694	2,077	1,217	1,428	2,168	1,652	1,350	1,692	1,933	1,079	
Stocks, end of month.....short tons.	6,486	5,767	5,937	5,125	4,026	3,254	3,495	3,654	3,935	4,159	4,514	4,576	3,677	
Refined arsenic:														
Production.....short tons.	1,570	1,439	1,508	1,265	1,101	1,002	1,032	1,081	963	1,084	864	808	742	
Stocks, end of month.....short tons.	2,419	2,221	2,010	1,813	1,930	1,525	1,897	2,024	2,726	2,889	3,131	3,157	3,879	
Dyes and dyestuffs, exports:														
Vegetable.....thous. of lbs.	101	178	114	309	204	124	110	194	232	218	119	182	151	
Coal tar.....thous. of lbs.	2,066	2,502	3,136	2,481	866	1,757	1,153	2,612	2,334	3,349	3,347	2,320	2,052	
Price index numbers:														
Crude drugs.....rel. to Aug., 1914.	133	137	137	137	139	143	147	154	161	166	167	169	170	
Essential oils.....rel. to Aug., 1914.	81	85	87	90	91	97	107	111	113	115	118	123	133	
Drugs and pharmaceuticals.....rel. to Aug., 1914.	175	175	175	176	176	176	176	176	176	176	176	176	177	
Chemicals.....rel. to 1927.	90	93	94	94	94	95	96	97	97	97	98	98	99	
Oils and fats.....rel. to 1927.	71	73	73	74	78	87	88	89	92	94	92	95	94	
Wood Chemicals														
Acetate of lime:														
Production.....thous. of lbs.		8,373	7,480	6,824	6,845	4,326	3,605	5,987	7,896	9,445	10,959	9,288	11,334	
Shipments.....thous. of lbs.		9,481	10,318	9,029	5,163	3,380	3,613	6,586	6,787	6,326	7,546	4,616	4,029	
Stocks, end of month.....thous. of lbs.		22,438	23,547	26,385	28,590	26,908	25,962	25,970	26,569	25,460	22,340	18,927	14,254	
Exports.....thous. of lbs.														
Price, wholesale.....dollars. per cwt.	2.00	2.00	2.00	2.42	3.00	3.00	3.11	4.29	4.50	4.50	4.50	4.50	4.50	
Methanol, crude:														
Production.....gallons.		512,219	464,167	413,451	328,002	276,939	193,567	368,373	478,764	579,823	613,368	582,062	680,779	
Stocks at crude plants, end of month.....gallons.														
Stocks at refineries and in transit.....gallons.		322,514	291,587	410,633	595,576	553,329	593,949	610,904	688,439	673,221	601,914	472,617	368,919	
Exports.....gallons.														
Wood at chemical plants:														
Consumption.....cords.		51,173	47,216	42,282	35,401	31,489	29,767	39,793	50,627	58,762	64,304	57,542	70,284	
Stocks, end of month.....cords.		544,308	579,510	552,393	581,103	574,684	564,849	535,220	513,931	484,524	449,287	461,615	574,831	
Daily capacity—														
Total.....cords.		3,039	2,819	2,819	3,055	3,035	3,035	3,041	3,037	3,123	3,111	3,111	3,111	
Shutdown.....cords.		726	678	741	1,518	1,598	1,714	1,088	756	612	535	396	192	
Menthanol, refined:														
Production.....gallons.		472,547	521,179	647,711	404,505	374,521	297,085	476,205	473,780	524,295	498,476	394,647	334,804	
Stocks, end of month.....gallons.		386,555	376,360	421,210	421,306	516,315	649,509	708,698	674,063	608,213	614,952	638,629	695,155	
Shipments.....gallons.		462,352	576,029	637,807	499,514	507,715	356,274	441,570	407,930	531,034	522,153	451,173	425,071	
Price, wholesale, N. Y.....dollars. per gal.		.40	.40	.40	.40	.40	.40	.40	.40	.40	.43	.46	.47	
Ethyl Alcohol														
Production.....thous. of gals.		17,770	20,861	18,455	14,299	12,890	11,617	13,116	13,245	12,221	10,151	10,943	11,601	
Withdrawn for denaturation.....thous. of gals.		19,134	20,070	18,537	12,615	11,777	11,352	11,128	11,319	10,585	8,881	9,801	11,174	
Warehouse stocks, end of month.....thous. of gals.		6,858	8,304	8,898	10,010	9,317	9,498	10,076	9,143	8,074	7,616	7,496	7,298	

² Revised.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey" #6	1931												1930													
	January	Decem-	Novem-	October	Septem-	August	July	June	May	April	March	Febru-	January	December	ber											
CHEMICALS AND OILS																										
Explosives																										
(Black powder, permissible, and other high explosives)																										
Production.....thous. of lbs..	24,056	24,024	30,248	34,113	35,688	31,168	30,810	33,546	36,147	30,967	30,221	33,244	31,986	30,201	22,974	30,229	35,069	32,289	30,649	33,969	33,404	34,071	30,534	31,574	31,709	
Shipments.....thous. of lbs..	25,201	22,974	30,229	34,198	35,069	32,289	30,649	33,969	33,404	34,071	30,534	31,574	31,709	26,714	24,404	28,847	34,324	33,173	32,687	30,424	33,005	33,340	33,204	30,059	30,584	30,828
New orders.....thous. of lbs..	17,375	17,303	16,346	16,812	16,694	16,043	17,392	17,181	17,699	18,566	20,295	20,522	18,636													
Naval Stores																										
Turpentine (gum):																										
Net receipts, southern ports.....barrels..	7,228	27,482	28,107	38,500	42,873	46,521	55,822	46,711	48,803	27,999	9,779	5,075	10,237	68,320	84,911	95,860	88,499	76,774	65,024	58,491	42,344	47,130	35,053	40,078	45,338	58,485
Stocks at port, end of month.....barrels..	.44	.42	.43	.41	.44	.41	.43	.47	.49	.54	.56	.55	.55													
Price, southern New York.....dolls. per gal..																										
Rosin (gum):																										
Net receipts, southern ports.....barrels..	41,345	117,489	107,414	127,621	140,090	151,269	178,876	149,880	150,386	86,873	40,401	30,605	50,791	329,626	372,090	323,142	303,669	276,565	267,540	242,948	196,857	143,684	135,958	149,232	184,451	221,568
Stocks at 3 ports, end of month.....barrels..	4.45	4.9	5.29	5.54	5.80	5.39	5.90	6.50	6.34	6.78	7.26	7.59														
Price, B, New York.....dolls. per bbl..																										
Rosin (wood):																										
Production.....barrels..	24,488	34,332	38,931	34,818	38,293	37,349	39,929	40,049	40,933	43,919	44,964	39,615	40,954	125,630	122,318	119,727	109,785	117,726	114,281	117,318	109,198	99,359	97,168	91,498	88,385	90,258
Stocks, end of month.....barrels..																										
Turpentine (wood):																										
Production.....barrels..	4,757	6,200	6,584	5,817	6,573	6,125	6,406	6,774	7,454	8,303	8,129	7,478	7,510	14,437	15,799	13,895	11,257	11,103	12,772	13,642	13,762	13,715	15,854	14,126	12,190	10,581
Stocks, end of month.....barrels..																										
Pine oil:																										
Production.....gallons..	144,440	229,737	229,979	225,688	229,238	224,543	241,193	248,777	234,281	253,049	280,560	238,944	254,894	1,769	1,799	1,708	1,610	1,529	1,513	1,456	1,386	1,277	1,278	1,212	1,097	1,006
Stocks, end of month.....thous. of gals..																										
Fats and Oils																										
Total vegetable oils and copra:																										
Exports.....thous. of lbs..	4,775	2,086	2,294	2,591	1,794	1,317	533	2,049	970	3,753	4,618	3,814	4,666	72,142	72,028	75,352	106,699	73,445	87,072	74,579	86,947	85,173	67,133	84,600	67,603	84,194
Imports.....thous. of lbs..	12,142	72,028	75,352	106,699	73,445	87,072	74,579	86,947	85,173	20,976	21,906	21,906	20,976	34,056	37,419	33,886	33,725	31,139	16,885	18,663	16,106	21,089	16,649	20,748	26,376	18,488
Copra, imports.....short tons..																										
Copra or coconut oil:																										
Imports.....thous. of lbs..	24,690	30,952	20,477	43,124	14,846	19,331	8,118	25,590	34,868	21,943	32,771	19,213	37,699	14,873	16,491	17,111	18,248	15,818	11,479	11,455	11,763	13,236	15,379	14,164	14,356	18,490
Oleomargarine:																										
Production.....thous. of lbs..	25,740	28,969	29,633	32,191	28,554	23,071	20,976	21,906	21,906	24,812	28,627	26,023	28,402	27,237	27,593	30,631	33,138	27,194	24,672	18,782	22,178	22,526	29,654	23,890	30,793	30,309
Consumption.....thous. of lbs..																										
Animal glues, shipments.....thous. of lbs..	3,469	4,565	5,891	4,885	4,598	5,585	4,788	5,543	5,543	304	248	230	320	11,084	7,538	1,580	4,361	2,092	175	304	248	230	4,852	4,918	25,063	6,613
Cottonseed																										
Cottonseed:																										
Receipts at mills.....thous. of short tons..	219	578	803	1,323	1,041	336	30	45	60	99	203	287	2,314	589,911	669,264	801,800	936,743	561,625	165,770	61,760	86,369	138,904	230,809	398,781	519,134	2,662,834
Consumption (crush).....short tons..																										
Stocks at mills, end of month.....thous. of short tons..	589,911	669,264	801,800	936,743	561,625	165,770	61,760	86,369	138,904	230,809	398,781	519,134	2,662,834	620	991	1,083	1,081	695	215	45	77	119	197	330	526	2,758
Cottonseed oil, crude:																										
Production.....thous. of lbs..	181,221	201,621	239,913	283,929	169,458	49,322	19,425	29,253	46,539	77,567	129,626	163,439	2,205,721	127,739	114,248	114,595	110,829	79,280	25,606	7,894	22,328	39,508	61,954	103,372	109,864	2,126,605
Cottonseed oil, refined:																										
Production.....thous. of lbs..	150,998	188,823	215,405	232,179	102,460	26,525	29,754	49,325	55,976	109,328	116,480	160,633	2,169,784	461,776	428,609	350,260	254,571	174,208	200,273	301,609	393,573	463,983	516,753	536,097	520,112	2,465,433
Stocks, end of month.....thous. of lbs..																										
Price, yellow, prime, New York.....dollars. per lb..	.073	.072	.076	.076	.081	.084																				

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930												
		January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary	January
FOODSTUFFS—Continued														
Wheat—Continued														
Prices:														
No. 1, Northern Spring, Minneapolis.....dolls. per bush..	0.76	0.77	0.75	0.82	0.87	0.91	0.92	1.00	1.07	1.11	1.12	1.25	1.27	
No. 2, Red Winter, St. Louis.....dolls. per bush..	.78	.83	.83	.87	.88	.89	.85	1.05	1.14	1.17	1.18	1.23	1.34	
No. 2, Hard Winter, Kansas City.....dolls. per bush..	.69	.71	.69	.74	.78	.81	.80	.89	.99	1.01	1.02	1.13	1.19	
Wheat Flour														
Grindings of wheat:														
United States.....thous. of bush..	42,528	² 41,307	42,428	49,914	49,382	47,654	43,721	40,137	41,329	41,854	43,083	40,506	43,812	
Canada.....thous. of bush..	4,834	5,226	7,789	8,348	7,255	6,930	6,448	5,218	6,258	5,429	5,475	4,702	5,201	
Production:														
United States, actual.....thous. of bbls.	9,233	² 8,973	9,184	10,817	10,674	10,313	9,466	8,687	8,981	9,071	9,347	8,783	9,510	
United States, prorated.....thous. of bbls.	9,937	9,888	10,403	12,089	12,241	11,562	10,507	9,423	10,507	9,749	10,207	9,323	² 10,058	
Canada.....thous. of bbls..	1,086	1,170	1,739	1,869	1,624	1,548	1,436	1,161	1,394	1,215	1,219	1,051	1,168	
Exports:														
United States.....thous. of bbls..		892	1,156	1,330	1,412	1,227	945	940	1,029	934	1,044	925	1,240	
Canada.....thous. of bbls..		392	602	792	814	734	627	659	598	573	451	681	503	
Grain offal, production.....thous. of lbs.	761,935	² 739,243	762,108	899,580	888,576	851,404	774,252	713,579	732,153	742,542	763,376	717,926	772,726	
Capacity operated, flour mills.....per cent.	56	² 54	60	62	67	62	57	54	53	53	55	58	56	
Consumption (computed).....thous. of bbls..	9,622	9,846	10,597	11,059	10,929	9,585	10,012	7,883	9,778	8,615	9,163	8,098	² 9,182	
Stocks, all positions, end of month (computed).....thous. of bbls..	6,370	7,000	7,850	9,200	9,500	9,600	8,850	9,300	8,700	9,000	8,800	8,800	8,500	
Wholesale prices:														
Standard patents,														
Minneapolis.....dolls. per bbl..	4.96	4.89	4.60	4.98	5.08	5.34	5.51	5.83	5.97	6.09	6.23	6.39	6.75	
Winter, straight,														
Kansas City.....dolls. per bbl..	4.09	4.03	4.14	4.23	4.44	4.56	4.64	4.99	5.27	5.40	5.26	5.63	5.84	
Corn														
Exports, including meal.....thous. of bush..	188	132	163	295	394	332	395	776	824	1,030	1,122	916	819	
Visible supply, end of month.....thous. of bush..	17,562	16,993	7,411	4,703	4,976	4,226	4,012	7,378	11,819	21,452	25,129	24,270	16,286	
Receipts, prin. markets.....thous. of bush..	19,320	27,367	17,067	15,176	16,048	20,282	16,660	17,833	16,213	22,114	20,679	29,564	31,344	
Shipments, prin. markets.....thous. of bush..	12,611	10,925	8,396	8,705	9,829	12,792	11,699	15,693	18,687	18,043	14,133	13,785	16,438	
Grindings (starch, glucose).....thous. of bush..	5,990	5,241	5,434	6,253	6,473	6,565	6,013	6,100	6,623	6,615	6,065	6,586	7,622	
Prices:														
No. 3, Yellow, Chicago.....dolls. per bush..	.65	.69	.71	.82	.94	.99	.82	.79	.79	.82	.80	.82	.85	
No. 3, Yellow, Kansas City.....dolls. per bush..	.59	.66	.69	.82	.89	.92	.80	.80	.78	.80	.76	.78	.82	
No. 3, White, Chicago.....dolls. per bush..	.68	.73	.76	.88	.97	.99	.84	.81	.80	.84	.81	.84	.86	
Oats														
Receipts, prin. markets.....thous. of bush..	6,121	6,021	6,075	9,445	15,381	25,277	8,725	7,114	10,690	9,544	8,736	7,336	6,741	
Visible supply, end of month.....thous. of bush..	26,650	30,504	30,641	33,509	31,979	25,867	9,149	11,317	13,102	16,765	18,929	22,527	² 25,520	
Exports, including meal.....thous. of bush..	144	208	202	157	194	292	717	204	266	259	224	389	377	
Price, No. 3, white, Chicago.....dolls. per bush..	.32	.34	.33	.36	.38	.39	.35	.38	.41	.43	.43	.44	.45	
Grindings, Canada.....thous. of bush..	997	1,126	1,085	1,174	1,054	817	826	719	651	706	798	838	661	
Production, oatmeal and rolled oats, Canada.....thous. of lbs..	13,320	14,360	14,605	14,749	14,843	11,032	10,893	9,660	7,951	8,106	9,650	10,263	7,318	
Barley														
Receipts, prin. markets.....thous. of bush..	2,511	3,569	4,207	5,765	12,477	10,822	2,568	2,537	2,835	2,742	3,153	3,080	2,826	
Visible supply, end of month.....thous. of bush..	10,731	11,401	11,854	12,035	11,991	7,429	3,997	4,671	5,436	6,511	7,837	8,545	4,894	
Exports.....thous. of bush..	732	1,047	964	1,295	1,359	1,281	.698	.550	1,457	.778	.569	1,017	.734	
Price, No. 2, Minneapolis.....dolls. per bush..	.44	.47	.48	.52	.53	.52	.47	.49	.55	.56	.55	.57	.58	
Rye														
Receipts, prin. markets.....thous. of bush..	884	1,356	1,640	2,001	6,562	5,200	758	445	1,234	337	598	505	1,250	
Visible supply, end of month.....thous. of bush..	11,911	12,644	13,316	13,860	14,842	12,649	10,969	11,248	11,259	13,427	11,175	9,389	9,184	
Exports, including flour.....thous. of bush..	.38	.44	.43	.49	.25	.23	.18	.3	.14	.47	.64	.36	.28	
Price No. 2, Minneapolis.....dolls. per bush..														
Total Grains														
Total grain exports, incl. flour.....thous. of bush..	6,610	7,578	9,803	14,091	21,041	26,095	18,015	13,829	12,626	9,367	9,093	11,707	-15,783	
Rice														
Southern paddy, receipts at mills.....thous. of bbls..	-1,147	844	1,257	2,063	1,084	508	22	60	183	146	284	961	870	
Shipments:														
Total from mills.....thous. of pockets (100 lbs.)	1,119	1,003	1,208	1,323	766	499	268	346	653	686	793	1,005	1,073	
New Orleans pockets (100 lbs.).....	75,643	75,426	128,781	201,483	128,736	90,755	56,861	65,195	107,430	63,189	80,506	81,050	88,638	
Stocks, end of month.....thous. of pockets (100 lbs.)	1,793	1,678	1,776	1,670	842	488	450	687	950	1,394	1,899	2,360	2,318	
Exports.....pockets (100 lbs.)	376,000	413,674	383,517	150,938	94,030	99,249	124,181	202,224	203,573	152,572	209,915	221,954	323,281	
Imports.....pockets (100 lbs.)	41,891	27,504	29,294	10,684	6,505	8,675	7,501	27,037	25,159	29,897	39,794	30,555	² 47,418	
Fruits and Vegetables														
Apples:														
Cold-storage holdings, end of month.....thous. of bbls..	7,446	² 9,575	10,860	9,043	1,872	114	72	128	453	1,299	2,596	4,259	6,034	
Car-lot shipments.....carloads..	7,806	8,085	17,454	35,782	12,757	2,729	3,253	1,083	1,966	3,607	5,166	6,314	6,095	
Potatoes:														
Car-lot shipments.....carloads..	20,971	15,092	16,267	28,788	21,924	15,979	22,093	24,614	22,588	19,350	21,681	19,593	19,857	
Onions, car-lot shipments.....carloads..	3,454	2,254	2,753	5,593	5,437	2,793	2,556	1,729	3,975	2,874	2,260	2,743	3,277	
Citrus fruits, car-lot shipments.....carloads..	14,197	12,554	11,338	6,301	4,510	4,441	5,765	5,478	2,104	9,653	10,705	10,187	10,091	

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey".</i>	1931											1930															
	January	December	November	October	September	August	July	June	May	April	March	February	January	January	December	November	October	September	August	July	June	May	April	March	February		
FOODSTUFFS—Continued																											
Hay																											
Receipts.....no. of cars..	5,214	4,057	4,863	5,401	4,808	4,717	4,505	3,881	3,755	4,708	4,624	6,071	25,916														
Cattle and Beef																											
Cattle movements, primary markets:																											
Receipts.....thousands..	1,508	1,736	1,696	2,377	2,108	1,605	1,512	1,459	1,517	1,644	1,547	1,326	1,639														
Shipments, total.....thousands..	607	1,015	873	1,223	947	619	501	496	569	639	592	508	623														
Shipments, stocker and feeder.....thousands..	222	332	478	691	443	150	109	120	199	255	207	201	233														
Local slaughter.....thousands..	897	1,015	823	1,183	1,084	959	1,004	953	947	1,016	919	806	995														
Beef products:																											
Production, inspected.....thous. of lbs..	381,531	398,741	342,405	468,983	434,625	403,081	411,226	375,276	401,989	373,810	358,129	327,527	408,525														
Apparent consumption.....thous. of lbs..	384,754	397,583	331,945	463,928	434,287	409,472	415,237	385,956	423,828	393,451	371,113	333,556	415,507														
Exports.....thous. of lbs..	902	1,207	1,491	2,347	1,793	1,661	1,987	1,973	1,610	1,360	1,431	1,133	1,292														
Cold-storage holdings, end of month.....thous. of lbs..	72,401	275,285	73,392	63,862	60,023	59,755	64,591	66,891	71,556	80,620	88,743	95,598	99,020														
Prices:																											
Cattle, corn-fed, Chicago.....dolls. per 100 lbs..	10.00	10.58	10.31	9.97	10.33	9.14	9.28	10.73	11.56	12.56	12.80	12.53	12.47														
Fresh native steers, Chicago.....dolls. per lb..	.195	1.95	1.95	.195	.191	.168	.174	.195	.215	.239	.240	.236	.240														
Western dressed steers, New York.....dolls. per lb..	.205	.205	.205	.205	.203	.173	.177	.218	.220	.220	.215	.223	.235														
Hogs and Pork																											
Hog movements, primary markets:																											
Receipts.....thousands..	4,652	4,002	3,439	3,441	2,799	2,617	2,918	3,215	3,293	3,255	3,294	3,791	4,720														
Shipments, total.....thousands..	1,739	1,542	1,269	1,392	1,090	1,133	1,139	1,082	1,216	1,280	1,451	1,491	1,797														
Shipments, stocker and feeder.....thousands..	45	41	37	39	38	35	30	40	47	57	58	56	38														
Local slaughter.....thousands..	2,907	2,460	2,169	2,048	1,703	1,487	1,782	2,123	2,084	1,980	1,853	2,297	2,905														
Pork production, total:																											
Production, inspected.....thous. of lbs..	962,175	798,311	665,665	575,700	472,467	500,438	603,324	664,172	665,124	603,184	589,968	705,032	874,334														
Apparent consumption.....thous. of lbs..	663,947	606,568	553,479	636,425	551,557	558,041	557,813	573,488	598,022	567,651	531,873	489,976	692,820														
Exports.....thous. of lbs..	86,902	61,134	62,325	53,798	53,892	72,719	75,473	82,054	93,589	77,466	97,898	97,263	105,817														
Cold-storage holdings, end of month—																											
Total.....thous. of lbs..	784,208	7572,626	443,286	393,017	507,159	639,827	769,797	799,543	790,437	816,605	858,063	887,478	779,277														
Fresh and cured.....thous. of lbs..	721,358	7521,192	411,704	356,806	447,427	550,959	651,444	679,221	675,167	711,700	752,996	785,564	687,106														
Lard (included in pork products):																											
Production.....thous. of lbs..	150,538	119,355	101,672	88,059	98,167	121,351	133,563	135,785	123,565	124,129	147,725	177,251															
Exports.....thous. of lbs..	68,882	45,114	42,553	41,396	37,417	49,287	51,690	56,666	62,562	50,045	66,533	65,953	73,291														
Cold-storage holdings, end of month.....thous. of lbs..	62,850	251,434	31,582	36,211	59,732	88,868	118,353	120,322	115,270	104,905	105,067	111,914	92,171														
Prices:																											
Hogs, heavy, Chicago.....dolls. per 100 lbs..	7.34	7.94	8.86	9.86	10.58	9.78	8.94	9.68	10.02	9.98	9.83	10.41	9.61														
Hams, smoked, Chicago.....dolls. per lb..	.207	.213	.222	.221	.227	.229	.230	.233	.228	.229	.243	.252	.239														
Lard, prime contract, New York.....dolls. per lb..	.090	.100	.112	.119	.119	.114	.100	.102	.107	.107	.107	.112	.109														
Sheep and Lambs																											
Sheep movement, primary market:																											
Receipts.....thousands..	2,175	2,307	2,607	3,784	3,580	2,583	2,296	2,230	2,334	2,230	2,151	1,796															
Shipments, total.....thousands..	979	1,081	1,534	2,238	2,016	1,317	940	955	1,092	975	936	735															
Shipments, stocker and feeder.....thousands..	184	282	761	1,024	907	465	206	216	142	134	99	101	126														
Local slaughter.....thousands..	1,201	1,230	1,079	1,597	1,479	1,266	1,362	1,263	1,249	1,278	1,210	1,041	1,111														
Lamb and mutton:																											
Production, inspected.....thous. of lbs..	57,642	56,453	51,236	65,060	59,297	52,268	51,861	48,239	53,375	55,602	56,494	49,564	50,289														
Apparent consumption.....thous. of lbs..	58,195	56,179	50,890	64,948	58,875	52,646	52,074	47,774	53,781	55,488	56,726	48,762	50,814														
Cold-storage holdings, end of month.....thous. of lbs..	4,081	24,677	4,628	4,326	4,320	3,977	4,476	4,820	4,639	5,190	5,174	5,408	4,667														
Prices:																											
Sheep, ewes, Chicago.....dolls. per 100 lbs..	3.44	2.93	3.38	3.84	3.08	3.00	3.06	3.45	4.78	5.13	5.14	5.18	6.26														
Sheep, lambs, Chicago.....dolls. per 100 lbs..	7.98	7.40	7.13	7.03	7.35	7.72	8.13	9.73	9.04	8.94	9.73	10.44	12.68														
Miscellaneous Meats																											
Cold-storage holdings, end of month:																											
thous. of lbs..	93,739	284,169	75,818	72,444	80,653	84,324	90,631	87,980	83,294	83,622	85,868	89,970	89,144														
Total Meats																											

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931		1930											
	January	December	November	October	September	August	July	June	May	April	March	February	January	
FOODSTUFFS—Continued														
Butter														
Production (factory)-----thous. of lbs.	112,843	106,181	98,138	117,372	119,388	133,600	163,534	182,503	177,766	127,882	110,513	97,906	102,982	
Receipts, 5 markets-----thous. of lbs.	45,644	43,892	36,848	38,633	40,863	44,821	62,274	70,529	63,752	50,595	47,179	41,014	43,507	
Cold-storage holdings, ery, end of month-----thous. of lbs.	46,771	263,401	88,012	109,646	131,489	143,089	145,061	106,522	50,378	22,957	30,556	46,530	60,230	
Apparent consumption-----thous. of lbs.	163,689	166,506	154,987	181,569	179,305	193,110	191,178	199,016	210,504	177,990	162,969	141,901	160,417	
Wholesale price, New York-----dolls. per lb.	.29	.32	.36	.40	.40	.39	.35	.33	.35	.39	.37	.36	.37	
Cheese														
Total, all varieties:														
Production (factory)-----thous. of lbs.	27,543	26,598	25,583	28,239	36,062	41,125	45,120	264,326	259,940	244,941	239,965	232,661	233,758	
Receipts, 5 markets-----thous. of lbs.	11,600	10,400	12,226	14,509	14,952	17,436	17,895	15,472	13,026	12,903	12,467	12,525		
Apparent consumption-----thous. of lbs.	41,070	39,500	40,035	41,637	43,695	47,564	29,640	41,486	49,921	44,680	36,957	33,807	40,424	
Cold-storage holdings, end of month-----thous. of lbs.	69,482	279,015	87,171	96,393	103,691	107,219	108,899	90,421	68,127	53,025	55,343	61,891	69,223	
Imports-----thous. of lbs.	4,123	4,163	5,041	6,293	4,333	3,687	3,106	6,097	12,356	7,125	5,247	4,395	5,361	
Exports, United States-----thous. of lbs.	120	176	108	183	121	137	172	159	158	199	171	198	181	
Exports, Canada-----thous. of lbs.	918	4,025	14,677	16,568	12,652	10,188	12,092	5,560	1,884	229	456	280	1,552	
American whole milk:														
Cold-storage holdings, end of month-----thous. of lbs.	54,511	263,326	71,132	78,919	85,076	87,221	88,749	70,186	49,172	39,324	41,922	47,818	53,672	
Wholesale price, New York-----dolls. per lb.	.17	.18	.19	.19	.20	.19	.18	.18	.20	.21	.21	.21	.21	
Eggs														
Receipts, 5 markets-----thous. of cases.	1,026	768	593	717	952	944	1,377	1,728	2,366	2,631	2,063	1,110	917	
Cold-storage holdings, end of month:														
Case-----thous. of cases.	734	21,894	4,154	6,785	9,174	10,375	11,198	10,743	9,178	5,766	2,231	84	139	
Frozen-----thous. of lbs.	75,378	283,184	89,571	98,359	106,631	113,138	116,272	115,134	106,904	76,664	49,751	35,192	44,080	
Milk														
Condensed milk:														
Total stocks, mfrs., end of mo.—														
Case goods-----thous. of lbs.	13,928	17,803	20,657	24,650	27,314	30,875	35,006	35,373	30,124	20,590	17,495	18,671	21,740	
Bulk goods-----thous. of lbs.	18,594	19,520	20,885	21,965	23,727	25,765	30,337	28,855	25,203	20,611	20,577	20,455	23,475	
Unsold stocks, mfrs., end of mo.—														
Case goods-----thous. of lbs.	9,698	14,181	16,678	20,427	22,951	26,464	30,866	31,222	25,467	16,213	13,235	14,077	16,502	
Bulk goods-----thous. of lbs.	6,986	8,297	7,842	7,935	8,119	6,954	10,212	8,176	7,598	5,117	4,773	4,685	6,289	
Exports-----thous. of lbs.	2,403	1,907	1,973	1,718	1,479	3,294	1,515	2,682	2,502	2,710	3,477	3,582	2,623	
Wholesale price, New York-----dollars. per case.	6.03	6.03	6.03	6.03	6.03	6.03	6.13	6.13	6.13	6.13	6.13	6.13	6.13	
Evaporated milk:														
Manufacturers' stocks, end of mo.—														
Total, case goods-----thous. of lbs.	157,152	202,070	211,828	224,486	218,486	244,969	258,836	227,201	199,334	162,221	146,571	153,202	175,974	
Unsold, case goods-----thous. of lbs.	107,009	163,478	174,148	187,262	179,047	197,189	218,761	176,439	166,196	140,371	125,623	129,580	143,769	
Exports-----thous. of lbs.	5,269	4,546	4,366	4,718	3,452	5,223	4,720	5,417	6,308	6,181	5,369	5,121	5,839	
Wholesale price, New York-----dollars. per case.	3.75	3.80	3.80	3.80	3.80	3.74	3.69	3.95	3.95	3.95	3.95	3.95	3.95	
Production, condensed and evaporated milk-----thous. of lbs.	141,981	143,280	132,284	149,136	139,802	163,034	205,641	243,414	235,860	187,224	160,117	132,204	136,669	
Powdered milk:														
Manufacturer's stocks, end of month-----thous. of lbs.	40,597	238,976	36,318	33,281	32,770	34,186	32,493	31,820	28,096	26,675	25,674	26,199	29,833	
Exports-----thous. of lbs.	366	465	507	467	477	426	376	346	496	636	629	454	944	
Net new orders-----thous. of lbs.	9,924	8,739	8,733	9,853	10,151	9,623	10,946	11,913	11,333	10,671	8,832	8,767	8,956	
Fluid milk:														
Receipts—														
Boston (including cream)-----thous. of qts.	18,352	18,313	18,226	19,403	19,634	19,007	20,348	21,149	20,906	19,400	19,369	17,149	19,192	
Greater New York-----thous. of qts.	109,947	110,296	116,140	119,356	116,769	123,165	122,086	124,883	112,955	117,880	104,586	114,235		
Consumption in manufacture of oleomargarine-----thous. of lbs.	7,464	8,158	8,404	9,066	7,799	6,173	5,837	6,074	6,935	7,903	7,103	7,714	9,035	
Sugar														
Raw:														
Imports—														
From Hawaii, Porto Rico-----long tons.		5,590	50,977	82,660	117,776	132,240	199,950	109,920	123,537	188,571	185,704	140,019	77,132	
From foreign countries-----long tons.	122,071	236,500	228,455	277,350	273,952	218,182	195,187	201,442	558,190	271,925	204,271	166,971	192,123	
Meltings, 8 ports-----long tons.	258,585	207,006	337,360	402,333	413,912	360,592	501,569	371,714	469,484	432,111	410,063	328,181	326,416	
Stocks at refineries, end of month-----long tons.	293,938	322,208	321,930	283,778	378,969	442,894	444,415	622,945	744,247	574,224	529,067	570,970	616,247	
Refined:														
Shipments, 2 ports-----long tons.	42,717	33,645	59,916	62,113	72,208	49,066	89,928	69,423	80,822	72,114	68,838	42,906	60,224	
Stocks, 2 ports-----long tons.	34,019	42,555	37,759	46,134	53,998	53,324	48,600	47,827	61,571	63,357	42,405	32,746	32,994	
Exports, including maple-----long tons.	3,572	4,723	6,576	8,553	6,668	7,246	4,661	4,742	7,074	4,830	4,487	4,280	5,637	
Prices:														
Wholesale, 96° centrif., N. Y.-----dollars. per lb.		.034	.033	.034	.033	.031	.032	.033	.032	.032	.035	.036	.037	
Wholesale, granulated, N. Y.-----dollars. per lb.		.046	.046	.047	.044	.043	.044	.046	.045	.048	.048	.049	.051	
Retail granulated, N. Y.-----dollars. per lb.		.053	.053	.053	.053	.054	.054	.054	.055	.057	.055	.059	.059	
Retail average, 51 cities-----rel. to 1913.		107	107	106	107	111	111	111	115	115	116	118	120	
Cuban movement (raw):														
Receipts at Cuban ports-----long tons.	105,726	150,277	213,688	124,848	152,166	160,710	149,332	164,444	401,856	669,252	793,762	659,637	192,153	
Exports-----long tons.	86,518	231,039	413,406	291,311	274,588	314,239	326,074	236,592	446,188	335,529	153,083	179,432	145,189	
Stocks, end of month-----thous. of long tons.	1,423	669	764	958	1,163	1,279	1,418	1,631	1,701	1,755	1,412	815	312	
Candy														
Sales by manufacturers-----thous. of dollars.	21,948	28,727	29,900	31,004	28,027	19,044	16,713	19,774	22,264	25,660	27,312	24,893	24,538	
Coffee														
Imports-----thous. of bags.	1,094	1,098	967	1,159	991	712	801	1,010	915	1,065	1,134	1,229	1,036	
Visible supply:														
World-----thous. of bags.	5,455	5,188	5,014	5,051	5,498	5,529	5,378	5,572	5,449	5,264	5,322	5,119		
United States-----thous. of bags.	866	929	817	828	934	784	861	867	790	851	852	671		
Receipts, total, Brazil-----thous. of bags.	1,697	1,494	1,549	1,437	1,595	1,462	1,391	1,031	1,247	1,152	1,264	1,469	1,455	

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930											
	January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary	January
FOODSTUFFS—Continued													
Coffee—Continued													
Clearances:													
Total, Brazil, for world	1,647	1,590	1,080	1,176	1,469	1,318	1,025	922	1,027	1,152	1,169	1,427	1,470
Total, Brazil, for U. S.	952	881	514	659	852	652	539	441	530	548	590	722	881
Price, Rio No. 7, Brazil grades	.068	.070	.079	.089	.072	.072	.076	.093	.092	.099	.103	.105	.103
Tea													
Imports	7,289	8,029	7,565	9,917	8,717	8,134	7,007	6,555	4,712	5,796	6,355	5,602	6,537
Price, Formosa fine, N. Y.	.225	.225	.225	.223	.224	.290	.292	.300	.300	.300	.300	.300	.300
Cocoa													
Shipments from the Gold and Nigerian Costs, Africa	39,278	21,756	18,888	12,660	7,554	13,441	20,764	14,694	16,124	13,951	25,543	29,551	43,838
Imports	16,418	13,700	6,338	7,410	11,008	17,863	20,443	15,121	10,721	12,164	11,505	15,082	25,176
Spot price, Accra, New York	.0619	.0675	.0688	.0675	.0675	.0775	.0869	.0825	.0850	.0869	.0875	.0925	.0938
TOBACCO													
Consumption (tax-paid withdrawals):													
Large cigars	362,939	349,635	528,128	623,861	523,973	517,200	532,805	519,599	523,775	469,969	454,766	426,522	418,900
Small cigarettes	9,368	8,675	7,952	10,947	10,190	10,577	11,859	11,751	10,301	9,535	9,165	8,465	10,208
Manufactured tobacco and snuff													
thous. of lbs.	31,697	25,815	25,976	33,026	32,166	31,370	30,964	30,939	32,579	31,261	31,458	30,308	33,014
Exports:													
Unmanufactured	50,440	62,148	57,964	78,262	53,841	39,527	27,620	30,351	28,823	43,364	54,887	57,037	46,885
Cigarettes	229,697	338,808	251,507	318,751	305,676	295,744	643,358	566,015	446,231	366,674	497,814	430,886	465,464
TRANSPORTATION													
River and Canal Cargo Traffic													
Panama Canal:													
Total cargo traffic	2,107	2,167	2,263	2,394	2,060	2,145	2,402	2,147	2,262	2,457	2,558	2,378	2,612
In American vessels	958	953	1,009	1,133	1,040	1,022	1,221	1,062	1,116	1,120	1,272	1,058	1,198
In British vessels	540	536	615	546	436	532	573	556	511	685	611	727	589
Sault Ste. Marie canals													
thous. of short tons	312	5,130	9,094	10,347	11,267	12,367	12,650	11,320	410				
New York State canals													
thous. of short tons	390	608	458	457	563	416	402	312					
Cape Cod Canal	223,890	225,021	225,322	230,043	244,640	247,376	219,574	208,467	214,302	184,002	151,515	162,509	186,172
Suez Canal		2,186	2,217	2,204	2,288	2,390	2,111	2,542	2,475	2,634	2,474	2,744	
Welland Canal	68,400	583,907	916,563	980,532	985,829	850,918	756,563	805,262	141,679				
St. Lawrence Canal		563	914	1,006	875	841	111						
Mississippi River Govt. barges													
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va.	75,300	107,507	83,480	102,569	113,749	70,088	84,266	140,176	124,924	101,122	71,087	75,157	75,739
Allegheny River	505	500	926	1,037	928	998	1,106	1,015	1,002	879	839	709	578
Monongahela River	56,740	64,170	230,423	246,832	282,393	387,260	367,727	307,823	310,711	335,262	174,445	61,420	93,825
	1,571	1,547	1,811	2,075	2,087	2,152	2,154	2,152	2,265	2,113	2,364	2,179	2,134
Ocean Traffic													
Clearances, vessels in foreign trade:													
Total	5,414	5,505	6,224	7,074	7,653	8,480	8,067	7,509	7,525	6,703	5,834	5,368	5,693
American	1,843	1,991	2,501	2,651	3,060	3,359	3,371	2,822	3,112	2,966	2,116	1,977	2,023
Foreign	3,571	3,514	3,723	4,423	4,593	5,121	4,696	4,687	4,412	3,738	3,718	3,391	3,670
Shipbuilding													
Completed during month:													
Total	29,413	25,971	53,551	51,667	32,083	75,030	45,069	29,806	45,570	16,930	23,840	14,241	23,779
Steel seagoing	21,045	18,391	39,830	16,895	20,125	33,302	15,974	17,395	26,248	4,166	13,088	12,217	21,493
Building or under contract, end of month:													
Merchant vessels	421	344	359	366	423	489	465	487	488	366	327	341	376
Freight Cars													
Surplus (daily av. last week of month):													
Total	616,750	706,538	580,498	402,637	394,032	431,971	454,815	405,464	441,503	427,925	465,920	440,275	392,552
Box	336,577	380,603	304,100	230,705	202,398	232,896	232,235	246,622	233,664	203,192	203,590	206,531	217,024
Coal	240,292	251,358	213,752	126,935	139,416	141,721	165,499	163,396	148,873	168,930	206,066	180,089	123,469
Shortage (daily av. last week of month):													
Car loadings:													
Total	3,491	2,783	4,127	3,818	3,725	4,670	3,556	3,719	4,599	3,619	4,415	3,506	2,427
Grain and grain products	196	143	190	163	189	304	233	166	188	156	201	175	201
Livestock	124	94	140	129	108	106	80	86	117	96	118	103	136
Coal and coke	817	638	852	733	638	769	557	579	740	571	736	798	2,109
Forest products	156	121	174	159	162	207	160	199	265	230	294	217	231
Ore	26	22	92	154	195	284	245	250	259	51	45	33	24
Merchandise and I. c. l.	997	820	1,133	966	944	1,179	899	967	1,210	1,004	1,251	938	2,128
Miscellaneous	1,174	946	1,546	1,514	1,490	1,821	1,382	1,472	1,820	1,510	1,770	1,241	2,149
Railroad Operations													
Operating Revenues:													
Freight	280,909	311,042	385,684	363,473	354,713	347,293	331,647	354,326	345,813	345,204	327,061	337,993	
Passenger	55,443	48,710	52,368	59,092	67,432	65,805	67,146	60,406	59,586	61,788	61,254	70,452	
Total operating	377,933	308,786	483,455	467,469	466,370	457,025	444,848	463,130	451,203	452,717	427,941	451,190	
Operating expenses	297,606	299,301	326,286	320,131	327,204	331,562	334,638	351,780	348,214	351,279	330,579	336,469	
Net operating income	49,372	62,069	112,251	104,078	95,604	82,750	68,883	69,174	62,272	61,074	59,452	55,474	
Freight carried	29,026	32,29	39,292	36,220	37,421	35,580	34,419	36,956	34,894	35,310	34,341	36,664	

* Revised.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930												
		January	December	November	October	September	August	July	June	May	April	March	February	January
TRANSPORTATION—Continued														
Railway Equipment														
Locomotives (Am. Ry. Assn.):														
Owned, end of month—														
Quantity.....number.....	55,576	2	55,678	55,985	56,157	56,236	56,287	56,342	56,380	56,410	56,456	56,486	56,654	56,753
Tractive power.....mills. of lbs.....	2,525	2	2,528	2,538	2,541	2,541	2,540	2,537	2,535	2,533	2,531	2,528	2,530	2,530
In bad order, end of month—														
Awaiting classified repairs.....number.....	5,522	5,216	5,102	4,936	4,676	4,585	4,562	4	4,515	4,450	4,563	4,595	4,509	4,282
Per cent of total in use.....per cent.....	10.0	9.5	9.2	8.9	8.6	8.2	8.2	8.1	8.0	8.0	8.2	8.2	8.0	7.6
Installed.....number.....	80	92	96	127	147	161	118	165	177	170	149	142	115	160
Retired.....number.....	182	390	268	206	198	216	156	193	226	166	310	218	227	227
New orders.....number.....	2	60	4	7	25	34	2	18	29	43	16	16	163	163
Shipments, manufacturers' (Census)—														
Total.....number.....	16	49	43	50	65	77	56	81	58	97	70	68	49	49
Steam, domestic.....number.....	10	37	37	48	62	68	52	80	56	94	64	60	48	48
Electric, domestic.....number.....	6	7	6	2	3	5	3	-----	-----	-----	2	5	-----	-----
Unfilled orders (railroads), end of mo.—														
From manufacturers.....number.....	64	90	59	102	143	189	242	300	364	239	310	343	334	334
In railroad shops.....number.....	30	30	33	37	38	46	54	64	77	123	132	107	107	107
Unfilled orders, manufacturers' (Census)—														
Total.....number.....	91	104	93	132	174	234	291	343	420	469	536	536	591	591
Steam, domestic.....number.....	78	86	63	96	136	193	243	291	367	417	485	479	527	527
Electric, domestic.....number.....	12	18	25	31	33	36	41	44	44	45	45	47	52	52
Exports, steam.....number.....	2	3	-----	5	2	2	4	3	9	4	10	8	2	2
Freight cars (Am. Ry. Assn.):														
Owned, end of month—														
Quantity.....thous. of cars.....	2,254	2	2,258	2,271	2,272	2,275	2,274	2,274	2,272	2,270	2,270	2,268	2,267	2,265
Capacity.....mills. of lbs.....	210,217	2	210,426	211,788	211,823	211,942	211,831	211,550	211,221	210,890	210,726	210,315	210,135	209,842
In bad order, end of month—														
Quantity.....cars.....	147,650	147,334	155,883	157,727	157,141	153,046	144,987	140,594	137,386	129,865	129,895	122,327	124,260	124,260
Per cent of total in use.....per cent.....	6.7	6.6	7.0	7.1	7.1	6.8	6.5	6.3	6.2	5.9	5.9	5.5	5.6	5.6
New orders.....cars.....		2,691	2,862	3,291	565	823	1,306	794	1,079	1,543	4,464	15,931	6,632	6,632
Shipments—														
Total.....cars.....	845	607	1,182	2,384	4,235	5,940	5,348	5,066	6,785	9,087	6,144	9,600	8,095	8,095
Domestic.....cars.....	735	436	1,139	2,307	4,176	5,934	5,348	5,059	6,785	8,874	6,066	9,366	7,426	7,426
Unfilled orders (railroads)—														
Total.....cars.....	8,799	9,780	3,716	5,423	6,175	10,802	17,230	22,759	28,696	31,846	35,181	30,800	33,457	33,457
From manufacturers.....cars.....	2,681	3,376	1,125	2,445	4,127	7,723	14,247	19,161	25,050	26,518	29,058	25,722	28,057	28,057
In railroad shops.....cars.....	6,118	6,404	2,591	2,978	2,048	3,079	2,983	3,398	3,646	5,328	6,123	5,078	5,400	5,400
Passenger cars:														
New orders.....cars.....		2	10	-----	62	13	32	13	72	70	169	134	58	58
Shipments—														
Total.....cars.....	33	8	67	73	50	35	41	66	72	77	61	78	95	95
Domestic.....cars.....	33	8	67	73	50	35	41	66	69	65	51	78	80	80
Highways														
Concrete pavements, new contracts:														
Total.....thous. of sq. yds.....	10,107	8,808	6,293	9,745	10,080	10,657	17,416	18,156	18,914	18,570	13,700	6,887	6,595	6,595
Road.....thous. of sq. yds.....	9,218	5,081	4,790	6,820	6,360	7,243	12,720	13,860	14,899	14,338	11,294	5,357	5,244	5,244
Federal-aid highways:														
Completed—														
Cost.....thous. of dollars.....	17,416	42,751	40,418	41,088	18,422	18,541	13,844	22,939	9,317	6,031	6,185	9,266	7,680	7,680
Distance.....miles.....	423	1,071	1,138	1,025	544	537	483	938	445	302	227	358	273	273
Under construction, end of month.....miles.....	6,957	7,030	7,785	8,325	8,450	8,339	8,055	7,709	7,674	7,230	6,824	6,843	7,054	7,054
Passenger Travel														
National Parks:														
Visitors.....number.....	48,874	37,246	43,361	2	67,089	183,583	549,287	596,699	293,931	121,194	75,515	67,306	48,342	47,296
Automobiles entered.....number.....	9,211	6,010	7,937	2	15,596	43,939	127,153	143,049	77,153	35,819	14,322	12,841	9,926	19,335
Arrivals from abroad:														
Immigrants.....number.....	4,091	6,439	9,209	13,942	17,792	14,816	13,323	14,944	19,414	22,261	19,759	13,585	14,767	14,767
United States citizens.....number.....	19,844	28,535	22,381	40,702	80,900	69,957	38,822	32,284	25,487	32,115	40,727	34,234	23,985	23,985
Departures abroad:														
Emigrants.....number.....	4,397	5,450	4,951	5,352	5,100	5,245	4,818	4,320	3,720	3,947	2,900	3,180	3,947	3,947
United States citizens.....number.....	24,885	21,140	24,420	32,988	56,526	88,372	55,366	40,103	27,593	26,707	37,930	33,796	31,991	31,991
Passports issued.....number.....	7,445	6,565	7,496	7,834	8,772	10,510	16,084	32,405	43,227	33,148	18,802	9,899	8,485	8,485
Pullman company operations:														
Revenue.....thous. of dollars.....	6,072	5,418	5,305	6,016	6,476	7,128	6,485	7,198	6,171	6,247	6,316	6,331	7,143	7,143
Passengers.....thousands.....	2,203	2,180	2,031	2,278	2,517	2,767	2,541	2,679	2,351	2,420	2,457	2,379	2,760	2,760
Trend of business in hotels:														
Room occupancy.....per ct. of capacity.....	66	60	65	69	64	60	59	62	68	68	67	70	73	73
Average sale per occupied room.....dollars.....	3.80	3.72	3.96	3.90	3.82	3.96	3.86	3.89	3.76	4.05	3.90	4.09	4.04	4.04
Warehouses														
Public merchandise warehouses, space occupied.....per ct. of total.....		70.0	2	69.9	68.8	68.4	68.4	67.8	68.4	70.3	69.7	70.0	71.7	74.6
PUBLIC UTILITIES														
Telephone companies:														
Operating revenues.....thous. of dollars.....	77,820	76,139	79,173	76,925	76,279	76,850	77,815	80,507	79,850	79,200	75,398	77,845	77,845	77,845
Operating income.....thous. of dollars.....	16,070	17,148	19,074	17,756	16,445	15,452	17,432	18,141	18,877	17,984	17,287	18,012	18,012	18,012
Telegraph companies:														
Commercial telegraph tolls.....thous. of dollars.....	10,012	8,647	10,137	10,117	10,121	10,131	10,759	10,957	11,002	10,790	9,844	10,518	10,518	10,518
Operating revenues.....thous. of dollars.....	12,973	11,348	13,157	13,054	12,965	13,090	13,768	14,059	13,964	13,865	12,652	13,454	13,454	13,454
Operating income.....thous. of dollars.....	1,517	1,735	1,829	1,467	1,400	875	1,412	1,445	1,673	1,442	1,442	532	435	435
Electric railways (212 companies):														
Passengers carried.....thous. of persons.....	718,784	658,789	701,279	646,036	646,750	655,477	681,788	736,202	728,820	760,269	705,454	781,927		
ELECTRIC POWER														
Electric power production:														
Total.....millions. of kw. hours.....	7,941	8,106	7,693	8,172	7,965	7,878	7,869	7,752	8,015	8,000	8,175	7,618	8,652	8,652
By water power.....millions. of kw. hours.....	2,344	2,360	2,191	2,269	2,252	2,487</								

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931		1930										
	January		December	November	October	September	August	July	June	May	April	March	February
ELECTRIC POWER—Continued													
Electric power production (Canada):													
Total mills. of kw. hours	1,485	1,542	1,515	21,575	21,443	1,412	1,426	1,435	1,545	1,502	1,515	1,398	1,555
By water power mills. of kw. hours	1,457	1,513	1,488	21,550	21,410	1,391	1,404	1,414	1,524	1,481	1,491	1,371	21,514
Exported mills. of kw. hours	162	149	142	161	154	143	132	136	129	118	127	117	113
Electric power, gross revenue thous. of dollars	191,920	2187,340	182,950	174,940	168,100	167,200	176,920	172,900	176,300	176,200	185,800	198,300	
Rate of manufacturing operations (based on the consumption of electrical energy for power purposes):													
Activity by geographical divisions—													
United States rel. to 1923-25	100.1	99.1	105.4	103.2	110.7	6.9	65.1	5.3	119.0	120.3	120.2	123.5	121.8
New England rel. to 1923-25	90.2	86.3	96.5	93.2	88.1	87.1	87.9	94.2	101.3	105.9	105.0	113.3	120.5
North Central rel. to 1923-25	108.3	99.0	109.2	107.3	110.6	112.0	109.9	116.0	125.8	125.7	128.4	136.8	128.0
Middle Atlantic rel. to 1923-25	97.5	97.5	109.8	99.6	103.1	94.3	102.9	111.8	112.3	117.2	122.2	126.0	125.8
Southern rel. to 1923-25	97.8	116.4	111.2	118.4	120.1	110.2	106.5	119.5	122.3	117.3	121.7	118.3	110.0
Western rel. to 1923-25	109.5	219.9	2121.3	116.1	130.9	125.0	129.0	135.0	130.5	127.6	117.4	127.5	115.2
Activity by industries—													
All industry rel. to 1923-25	100.1	99.1	105.4	103.2	110.7	106.9	105.1	115.3	119.0	120.3	120.2	123.5	121.8
Chemical and allied products rel. to 1923-25	137.1	133.5	150.5	122.4	147.1	135.7	140.6	138.6	146.6	137.2	140.0	139.6	136.7
Food and kindred products rel. to 1923-25	120.2	107.1	125.3	137.2	148.6	141.2	139.2	145.4	138.2	119.4	129.8	129.2	132.3
Rolling mills and steel plants rel. to 1923-25	105.3	110.2	109.7	126.0	110.3	112.0	109.7	115.2	135.1	138.3	136.8	143.0	143.1
Metal working plants rel. to 1923-25	92.9	97.8	93.5	87.0	97.4	95.2	95.1	106.8	116.3	125.5	132.0	130.5	126.7
Metal groups rel. to 1923-25	97.4	102.3	99.4	101.2	101.4	101.3	100.5	110.0	123.2	130.2	133.7	135.0	132.9
Leather and its products rel. to 1923-25	73.4	68.7	69.0	84.9	73.5	87.7	97.3	96.8	66.3	91.2	80.8	86.5	92.3
Lumber and its products rel. to 1923-25	84.3	73.3	95.3	77.1	105.6	97.7	100.0	107.3	102.4	102.8	93.7	94.7	87.5
Paper and pulp rel. to 1923-25	103.7	117.0	101.2	120.0	119.3	115.1	119.9	137.5	132.2	126.7	135.0	138.0	120.8
Rubber and its products rel. to 1923-25	106.5	84.3	95.3	99.0	107.2	110.5	103.8	104.8	135.3	138.5	130.3	133.1	144.4
Shipbuilding rel. to 1923-25	138.8	99.0	132.8	121.5	124.1	122.8	116.8	111.8	113.2	130.1	117.7	125.4	124.4
Stone, clay, and glass rel. to 1923-25	99.2	100.6	119.4	106.3	120.5	118.2	110.8	136.5	121.2	120.9	117.9	116.7	124.2
Textiles rel. to 1923-25	86.4	89.8	94.2	85.4	85.1	72.5	79.7	95.3	96.0	102.3	99.6	103.3	112.4
Automobiles, including repair parts rel. to 1923-25	72.9	211.5	74.9	80.9	88.4	86.6	75.3	102.9	105.8	112.9	108.9	116.6	90.8
EMPLOYMENT AND WAGES													
Employment in factories:													
New York State rel. to 1923	67.5	69.3	72.0	74.3	75.6	73.9	74.6	7.5	79.0	80.3	81.8	81.9	82.3
Maryland rel. to 1924	73.6	76.7	78.8	81.6	83.4	82.0	83.3	86.2	87.4	88.6	87.5	87.2	86.2
Iowa rel. to 1923	113.8	117.2	117.7	114.3	115.1	117.2	118.1	122.5	126.1	124.3	123.0	125.2	122.9
Massachusetts rel. to 1925-27	67.2	70.4	72.5	73.3	72.8	71.5	75.6	78.3	80.4	82.0	83.0	82.9	
Illinois rel. to 1925-27	77.0	78.2	77.7	80.2	82.9	84.9	85.7	91.2	93.4	95.0	96.9	98.0	97.8
Ohio rel. to 1926	79.8	81.9	82.1	85.1	88.2	89.3	92.1	96.5	100.0	100.9	99.7	99.3	98.5
Cleveland rel. to Jan., 1921	87.4	91.6	92.0	96.1	90.4	103.9	107.9	107.4	106.7	107.4	109.1		
Detroit rel. to 1923-25	76.5	40.0	75.8	79.0	74.8	83.0	48.0	99.0	109.2	110.5	108.5	108.0	106.5
New York State number	373,304	383,518	398,424	411,333	418,262	408,895	412,269	428,678	436,926	444,133	452,472	453,284	455,480
Oklahoma number					35,058	35,139	34,849	34,748	34,285	33,479	33,320	32,938	33,081
Total pay roll:													
New York State (weekly) thous. of dollars	10,048	10,513	10,883	11,489	12,061	11,631	11,717	12,369	12,667	13,030	13,481	13,304	13,524
Oklahoma (weekly) thous. of dollars					944	958	971	982	1,013	933	928	916	900
New York State rel. to 1923	66.7	69.7	72.2	76.2	80.0	77.2	77.7	82.0	84.0	86.4	89.4	88.3	89.7
Illinois rel. to 1925-27	61.2	63.9	64.0	69.0	71.4	73.2	74.5	82.2	86.5	89.1	90.1	94.0	91.2
Employment:													
Canada rel. to cal. year 1926	101.7	108.5	112.9	116.2	116.6	118.8	118.9	116.5	111.4	107.8	110.2	111.6	111.2
Ohio construction	49.4	59.8	72.0	82.6	287.7	296.6	298.3	293.3	292.3	281.0	281.0	281.0	280.8
Employment, trade-unions:													
United States per cent of total	73.0	77.0	78.0	79.0	79.0	78.0	78.0	80.0	80.0	79.0	79.0	78.0	80.0
Canada per cent of total		83.0	86.2	89.2	90.6	90.7	90.8	89.4	89.7	91.0	89.2	88.5	89.2
Anthracite mines:													
Employment rel. to 1923-25	88.3	96.5	294.7	296.6	291.9	281.7	290.3	289.5	292.3	84.8	83.3	107.8	105.6
Pay roll rel. to 1923-25	75.8	85.0	283.2	282.3	278.2	268.2	272.6	273.2	285.8	63.9	67.1	103.7	92.1
Federal civilian employees, Washington, D. C., end of month number	71,252	71,189	71,052	70,790	70,598	70,197	69,666	68,510	67,036	65,778	64,954	64,662	64,356
Average weekly earnings, factories:													
Illinois dollars	24.25	25.09	25.31	26.42	26.43	26.45	26.27	27.49	28.14	28.49	28.25	29.24	28.30
New York State dollars	26.92	27.42	27.32	27.94	28.84	28.45	28.40	28.86	29.00	29.35	29.80	29.36	29.70
Wisconsin dollars		20.84	21.33	22.89	22.16	22.21	21.47	23.96	24.79	25.56	25.75	24.84	24.10
Oklahoma dollars					26.92	27.27	27.85	28.25	28.54	24.88	27.85	27.81	27.21
New York rel. to 1923	98.8	100.7	100.3	102.6	105.9	104.4	104.3	105.9	106.5	107.7	109.4	107.8	109.0
Illinois rel. to 1925-1927	85.5	88.4	89.2	93.1	93.1	92.2	92.6	96.9	99.2	100.4	99.6	103.1	99.7
Average weekly earnings (National Industrial Conference Board):													
Grand total (both sexes) dollars	24.23	24.06	24.92	25.22	25.38	25.72	26.48	27.05	27.64	27.59	27.90	27.51	
Total, males dollars	23.36	25.15	26.25	26.87	27.15	27.33	28.56	29.19	29.74	29.37	29.75	29.53	
Skilled male dollars	26.30	26.11	27.25	28.08	28.35	28.55	29.87	30.50	31.09	30.70	31.08	30.87	
Unskilled male dollars	21.58	21.29	22.13	21.93	22.30	22.26	23.13	23.85	24.41	24.14	24.59	24.31	
Total, women dollars	15.47	15.22	15.72	15.27	15.71	15.88	16.13	16.27	16.59	16.84	17.09	17.02	
Average weekly hours:													
Nominal (both sexes) hours	48.3	47.8	48.2	48.3	48.1	48.4	48.6	48.9	48.8	49.0	49.3	49.2	
Actual (both sexes) hours	41.7	41.1	42.3	42.5	42.6	43.3	44.5	45.2	46.1	46.3	46.7	46.4	
Wages, road labor, by districts:													
New England cents per hour	48	51	50	49	50	49	49	49	48	51	52	51	52
Middle Atlantic cents per hour	41	41	40	41	42	42	42	43	41	42	44	44	47
South Atlantic cents per hour	20	22	22	23	23	25	26	26	27	25	25	25	
East South Central cents per hour	21	22	24	24	24	23	25	25	25	25	27	25	
West South Central cents per hour	26	28	26	27	27	26	26	28	28	28	29	29	
East North Central cents per hour	37	37	37	38	38	37	38	38	39	38	38	40	
West North Central cents per hour	37	37	35	38	37	36	36	37	37	38	39	40	
Mountain cents per hour	44	45	47	48	48	46	47	48	48	46	46	46	
Pacific cents per hour	51	51	52	53	53	53	54	54	52	53	53	53	
United States, average cents per hour	36	37	38	39	40	39	40	40	40	40	39	40	
Wage rates, U. S. Steel Corp. cents per hour	50	50	50	50	50	50	50	50	50	50	50	50	
Wages, steel sheet workers per cent of base</td													

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1931	1930											
		January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary
EMPLOYMENT AND WAGES—Contd.													
Applicants per 100 jobs, employment agencies:													
United States.....number.....	224	218	227	193	170	177	198	186	164	162	180	201	201
Eastern States.....number.....	254	239	231	192	181	214	231	202	172	177	217	213	231
Central States.....number.....	261	233	251	240	222	204	221	209	173	177	189	225	231
Southern States.....number.....	293	314	344	277	201	252	253	240	243	217	254	271	250
Western States.....number.....	91	103	123	74	71	79	98	81	93	74	83	91	101
Illinois.....number.....	331	270	280	278	230	234	262	224	196	190	209	246	257
Wisconsin.....number.....	230	191	210	178	188	162	150	155	135	159	177	186	196
Canada.....number.....		133	189	211	159	145	161	156	148	145	157	164	160
Factory Labor Turnover													
Percentage of number on pay roll													
Departures:													
Total.....per cent (annual basis).....	17.6	22.6	27.8	30.0	28.0	29.3	30.8	34.7	35.1	31.9	33.0	28.1	
Voluntary quits.....per cent (annual basis).....	5.9	6.9	9.6	13.7	11.2	11.8	14.8	17.7	17.7	16.3	16.0	13.1	
Lay offs.....per cent (annual basis).....	10.9	14.7	17.0	14.3	15.3	15.4	13.6	13.9	14.1	12.1	13.8	12.2	
Discharges.....per cent (annual basis).....	.8	1.0	1.2	2.0	1.5	2.1	2.4	3.1	3.3	3.5	3.2	2.8	
Accessions.....per cent (annual basis).....	8.2	10.2	17.6	22.2	14.7	17.4	19.7	24.7	24.3	23.0	26.9	23.7	
Industrial disputes:													
Disputes.....number.....	11	26	34	41	32	31	34	30	41	34	33	21	
Workers involved.....number.....	6,861	28,145	215,649	13,409	7,161	5,039	8,499	4,640	5,711	5,847	6,562	5,316	
Man-days lost in month.....number.....	379,119	2215,141	2336,250	202,874	144,530	148,982	150,627	192,201	180,445	289,470	436,788	182,202	
DISTRIBUTION MOVEMENT													
Retail Sales													
Mail-order houses:													
Total sales, 2 houses.....thous. of dolls.....	41,450	72,486	55,713	68,878	54,419	50,682	48,790	54,356	59,350	56,561	47,582	46,691	51,274
Sears, Roebuck & Co.....thous. of dolls.....	24,839	43,814	33,312	38,785	33,086	29,715	30,121	30,367	34,300	32,785	26,950	28,285	32,943
Montgomery Ward & Co.....thous. of dolls.....	16,620	28,672	22,401	30,093	21,333	20,967	18,669	23,989	25,050	23,776	20,632	18,406	18,331
Ten-cent chain stores:													
Total sales (4 chains).....thous. of dolls.....	36,368	85,146	45,725	48,597	42,377	41,995	39,802	40,548	47,075	46,371	42,325	37,523	34,657
Total stores operated													
(4 chains).....number.....	3,020	3,023	3,021	3,011	3,002	2,988	2,967	2,952	2,935	2,922	2,908	2,892	2,880
F. W. Woolworth &													
Co.....thous. of dolls.....	19,240	42,320	24,077	26,422	22,353	22,055	20,737	20,715	25,310	24,369	22,482	20,030	18,408
Stores operated.....number.....	1,886	1,890	1,889	1,886	1,881	1,881	1,871	1,867	1,855	1,853	1,845	1,835	1,829
S. S. Kresge Co.....thous. of dolls.....	9,825	23,982	12,503	12,853	11,265	11,410	10,882	11,400	12,778	12,724	11,260	9,944	9,352
McCrory Stores Corp.....thous. of dolls.....	2,903	6,783	3,617	3,606	3,278	3,406	3,123	3,212	3,588	3,651	3,358	2,907	2,695
Stores operated.....number.....	242	242	242	241	240	240	240	240	241	241	241	243	243
S. H. Kress & Co.....thous. of dolls.....	4,400	12,061	5,528	5,716	5,478	5,125	5,061	5,221	5,399	5,627	5,225	4,642	4,202
Stores operated.....number.....	211	213	213	213	211	211	211	209	207	205	205	205	204
W. T. Grant Co.....thous. of dolls.....	4,110	11,797	6,677	7,084	5,286	5,385	4,818	5,469	6,153	5,731	4,962	3,911	3,784
Stores operated.....number.....	350	348	346	340	318	309	305	303	293	287	283	280	279
F. & W. Grand.....thous. of dolls.....	3,545	1,894	2,026	1,663	1,669	1,669	1,889	1,840	1,936	1,603	1,326	1,296	1,296
Stores operated.....number.....	112	112	111	111	108	105	103	98	96	94	94	94	94
Isaac Silver & Bros.....thous. of dolls.....	1,421	673	693	566	608	598	696	715	751	643	534	457	457
Stores operated.....number.....	45	45	44	45	45	45	45	45	45	45	44	43	43
J. C. Penny Co.....thous. of dolls.....	9,725	23,703	18,937	19,860	15,956	14,397	13,602	15,828	17,170	17,452	14,208	11,197	210,610
Stores operated.....number.....	1,452	1,452	1,452	1,450	1,446	1,440	1,438	1,435	1,430	1,428	1,416	1,396	1,395
G. C. Murphy Co.....thous. of dolls.....	1,221	3,170	1,579	1,621	1,344	1,362	1,319	1,289	1,410	1,291	1,183	989	939
Stores operated.....number.....	166	166	165	163	163	163	163	160	156	155	154	154	154
Restaurant chains:													
Total sales (3 chains).....thous. of dolls.....	4,570	4,902	4,599	4,884	4,642	4,642	4,501	4,585	4,975	4,962	5,039	4,580	25,051
Stores operated.....number.....	384	379	377	380	379	379	379	382	381	377	374	374	374
Childs Co., sales.....thous. of dolls.....	2,083	2,277	2,075	2,250	2,136	2,173	2,050	2,103	2,279	2,330	2,352	2,148	2,369
Stores operated.....number.....	112	111	111	113	113	113	114	115	112	110	110	111	111
J. R. Thompson Co., sales.....thous. of dolls.....	1,192	1,246	1,186	1,287	1,215	1,208	1,199	1,225	1,314	1,279	1,307	1,177	1,300
Stores operated.....number.....	120	120	121	121	120	120	119	121	121	121	121	121	121
Waldorf System (Inc.), sales.....thous. of dolls.....	1,295	1,379	1,338	1,291	1,261	1,252	1,257	1,382	353	1,380	1,255	1,382	1,382
Stores operated.....number.....	152	152	147	145	147	146	147	147	144	144	143	143	142
Installment sales in New England dept., stores, ratio to total sales.....per cent.....					8.8	8.0	13.0	6.6	5.2	6.3	6.6	9.2	16.2
Advertising													
Magazine advertising.....thous. of lines.....	1,585	2,265	2,488	2,490	2,145	1,658	1,986	2,752	3,022	3,141	2,738	2,382	2,014
Magazine advertising, total cost.....thous. of dollars.....	10,820	15,352	17,359	17,759	15,214	12,075	14,316	19,614	20,399	21,861	18,687	16,808	12,411
Newspaper advertising.....thous. of lines.....	75,823	82,467	89,424	98,437	88,648	70,018	72,007	88,702	100,402	101,259	97,868	81,702	88,266
Radio broadcast cost, facilities.....thous. of dollars.....	2,637	2,718	2,577	2,674	2,123	1,960	2,074	2,033	2,300	2,199	2,295	1,873	1,989
Postal Business													
Postal receipts:													
50 selected cities.....thous. of dollars.....	29,172	38,572	28,379	32,279	28,764	25,876	26,761	27,956	31,370	32,644	32,475	29,457	32,199
50 industrial cities.....thous. of dollars.....	3,466	4,418	3,028	3,568	3,160	3,132	3,157	3,062	3,335	3,524	3,562	3,473	3,561
Money orders:													
Domestic issued (50 cities)—													
Quantity.....thousands.....	3,749	4,165	3,525	3,662	3,415	3,285	3,436	3,554	3,813	3,828	4,134	3,597	3,805
Value.....thous. of dollars.....	36,352	39,627	34,525	35,916	33,923	33,363	34,672	35,395	38,266	37,803	39,827	35,617	38,356
Domestic paid (50 cities)—													
Quantity.....thousands.....	10,590	11,716	10,248	11,514	9,758	9,681	10,197	10,619	11,191	11,562	11,791	10,165	11,266
Value.....thous. of dollars.....	78,273	91,923	79,934	90,647	79,174	77,670	81,800	82,691	87,661	90,646	88,103	78,066	86,593
Air mail, weight dispatched.....pounds.....		767,229	637,054	742,687	705,963	695,305	693,627	680,814	702,499	676,255	625,174	556,913	518,398
BANKING AND FINANCE													
Banking													
Bank debits:													
New York City.....mills. of dollars.....	24,557	29,001	22,490	30,781	27,383	25,052	29,600	37,690	37,423	38,631	40,740	31,117	34,732
Outside of New York													
City.....mills. of dollars.....	21,727	23,113	19,700	23,693	21,253	20,966	23,171	24,647	24,416	24,347	25,014	21,534	25,691

MONTHLY BUSINESS STATISTICS—Continued

<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>	1930												
	January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary	January
BANKING AND FINANCE—Continued													
Banking—Continued													
Federal reserve banks:													
Bills discounted—mills. of dolls.	215	251	251	202	186	231	197	260	247	233	241	343	407
Notes in circulation—mills. of dolls.	1,478	1,664	1,451	1,355	1,376	1,368	1,335	1,432	1,466	1,507	1,576	1,637	1,702
Total investments—mills. of dolls.	730	1,100	827	773	801	781	714	761	712	749	840	796	747
Total reserve—mills. of dolls.	3,278	3,082	3,145	3,192	3,128	3,086	3,178	3,151	3,221	3,252	3,209	3,187	3,188
Total deposits—mills. of dolls.	2,484	2,517	2,492	2,519	2,457	2,454	2,469	2,474	2,421	2,434	2,443	2,408	2,369
Reserve ratio—per cent.	82.7	73.7	79.8	82.4	81.6	80.5	83.5	80.7	83.9	82.5	79.8	78.8	78.3
Federal reserve member banks:													
Total loans and dis- counts—mills. of dolls.	15,753	16,263	16,516	16,764	17,013	16,830	16,945	16,960	16,837	16,964	16,913	16,428	16,676
Total investments—mills. of dolls.	6,843	6,693	6,800	6,731	6,454	6,338	6,291	6,120	5,889	5,789	5,719	5,575	5,529
Net demand deposits—mills. of dolls.	13,880	13,999	13,908	13,830	13,812	13,629	13,798	13,740	13,388	13,581	13,329	12,944	12,949
Brokers' loans, end of month—													
To N. Y. Stock Ex. members—													
Total—mills. of dolls.	1,720	1,804	2,162	2,556	3,481	3,599	3,689	3,728	4,748	5,063	4,656	4,163	3,985
Ratio to market value—per cent.	3.30	3.86	4.06	4.65	5.79	5.31	5.49	5.83	6.33	6.72	6.12	5.89	5.77
By New York F. R. member banks—mills. of dolls.	1,734	1,926	2,111	2,512	3,063	3,110	3,228	3,219	4,022	4,274	3,968	3,489	3,345
Deposits, New York State savings banks, end of month—mills. of dolls.	4,888	4,792	4,666	4,658	4,662	4,591	4,572	4,559	4,505	4,507	4,509	4,436	4,416
Interest rates:													
Time loans, 90 days—per cent.	2.13	2.25	2.13	2.50	2.63	2.63	2.75	2.88	3.50	4.13	4.25	4.75	3.88
Call loans, renewal—per cent.	1.50	2.23	2.00	2.19	2.21	2.21	2.20	2.62	3.12	4.00	3.69	4.32	4.64
Prime com. paper (4-6 mo.)—per cent.	2.88	2.88	2.88	3.00	3.00	3.05	3.50	3.75	3.88	4.25	4.75	4.88	
Prime bankers' acceptances—per cent.	1.56	1.88	1.88	1.88	1.88	1.88	2.13	2.50	2.94	3.13	3.81	3.94	
N. Y. Fed. Res. Bank (redis.)—per cent.	2.00	2.00	2.50	2.50	2.50	2.50	2.50	2.50	3.00	3.50	4.00	4.00	
Federal land banks—per cent.	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.58	5.58	5.58	5.72	5.79	
Intermediate credit banks—per cent.	4.00	4.00	4.00	4.00	4.06	4.13	4.17	4.55	4.83	4.98	5.10	5.24	5.34
Public Finance													
Government debt, gross, end month—mills. of dolls.	16,163	16,026	16,185	16,180	16,081	16,188	16,176	16,185	16,399	16,394	16,390	16,460	16,423
Customs receipts—thous. of dolls.	28,808	30,764	36,365	39,319	36,655	32,083	26,200	72,170	51,722	41,071	42,610	35,935	41,278
Total ordinary receipts—thous. of dolls.	125,605	717,092	120,362	147,813	602,811	127,388	138,741	308,495	173,243	169,053	674,876	138,540	151,195
Expenditures chargeable to ordinary receipts—thous. of dolls.	413,796	364,540	244,651	375,244	308,221	224,117	284,310	416,799	230,997	414,147	362,221	236,742	347,351
U. S. money in circulation: Daily average—mills. of dolls.	4,695	4,823	4,528	4,501	4,492	4,476	4,483	4,489	4,497	4,518	4,533	4,556	4,652
Gold and Silver													
Gold:													
Domestic receipts at mint—fine ounces.	94,476	109,907	113,430	152,648	125,871	112,395	115,119	90,764	76,786	89,694	73,745	72,009	75,955
Rand output—fine ounces.	914,000	908,000	884,000	926,561	903,176	921,081	912,652	887,867	916,213	868,606	889,370	818,188	882,801
Monetary stock of U. S.—													
daily average—mills. of dolls.	4,622	4,583	4,553	4,520	4,503	4,496	4,532	4,528	4,505	4,443	4,395	4,319	4,283
Imports—thous. of dolls.	34,426	32,778	40,159	35,635	13,680	19,714	21,889	13,938	23,552	65,835	55,678	60,198	12,908
Exports—thous. of dolls.	54	36	5,008	9,266	11,133	39,332	41,529	26	82	110	290	207	8,948
Silver:													
Production—													
United States—thous. of fine oz.	3,664	2,713	3,738	3,816	3,780	3,835	3,551	3,969	4,293	4,627	4,998	5,161	4,753
Canada—thous. of fine oz.	1,932	2,043	1,412	2,291	3,486	2,685	2,100	1,485	1,585	1,705	1,714	1,225	1,716
Stocks, end of month—													
United States—thous. of fine oz.	654	831	956	649	813	677	459	737	348	356	338	977	535
Canada—thous. of fine oz.		179	216	217	341	410	312	441	844	690	496	1,144	1,244
Imports—thous. of dolls.	2,896	2,660	2,252	3,270	3,461	3,492	3,953	2,707	3,486	3,570	4,831	3,923	4,756
Exports—thous. of dolls.	3,574	3,472	4,102	4,424	3,903	4,544	3,709	3,336	4,978	4,646	5,818	5,331	5,892
Price at New York—dollars per fine oz.	.294	.326	.359	.358	.363	.352	.343	.346	.407	.424	.417	.432	.450
Business Failures													
Firms (United States):													
Total commercial—number.	3,316	2,525	2,031	2,124	1,963	1,913	2,028	2,026	2,179	2,198	2,347	2,262	2,759
Manufacturers—number.	611	537	448	499	434	566	425	507	501	534	621	526	680
Trade establishments—number.	2,541	1,834	1,447	1,474	1,395	1,234	1,481	1,393	1,580	1,500	1,587	1,605	1,913
Agents and brokers—number.	164	154	136	151	134	113	122	126	148	164	139	131	166
Firms (Canada):													
Liabilities (United States):													
Total commercial—thous. of dolls.	94,608	83,683	55,261	56,297	46,947	49,181	39,826	63,131	55,541	49,059	56,846	51,326	61,185
Manufacturers—thous. of dolls.	47,633	19,948	19,438	17,989	16,448	22,735	13,369	26,273	23,133	19,669	19,414	20,724	19,500
Trade establish- ments—thous. of dolls.	43,071	28,853	21,217	22,096	19,311	17,829	21,572	22,825	21,285	23,427	24,293	20,909	29,814
Agents and brokers—thous. of dolls.	3,004	35,382	14,606	16,212	11,188	8,617	4,887	14,033	11,123	5,964	13,139	9,693	11,871
Liabilities (Canada)—thous. of dolls.	4,215	6,994	2,958	2,532	2,664	2,939	2,997	2,707	2,737	2,006	3,549	7,539	2,190
By groups:													
Manufacturers—													
Metals—number.	44	34	34	34	30	33	45	28	43	42	42	36	32
Textiles—number.	124	85	71	97	53	55	51	75	57	61	81	58	106
Lumber—number.	76	77	71	54	65	98	81	85	94	106	111	94	105
Chemicals—number.	10	9	5	7	9	14	11	9	5	9	11	11	14
Printing and engraving—number.	21	15	18	20	16	19	22	21	15	16	17	13	13
Foodstuffs—number.	32	34	27	35	35	29	37	45	29	38	42	38	60
Leather, etc.—number.	17	14	8	15	14	21	10	8	14	4	11	13	18
Liquors and tobacco—number.	6	6	10	14	8	11	1	6	4	3	3	4	3
Stone, clay, and glass—number.	11	12	14	12	7	7	9	7	13	10	11	3	10
All other—number.	270	251	190	211	197	279	160	222	221	246	293	252	319
Traders—													
General stores—number.	220	138	104	108	93	67	83	73	69	108	124	94	136
Foods and tobacco—number.	476	461	393	398	341	329	403	365	395	386	413	376	453
Clothing—number.	633	444	261	250	257	270	268	264	300	270	317	366	437
Household furniture—number.	571	290	245	253	247	204	235	259	286	277	307	286	380
Chemicals and paints—number.	117	114	94	98	78	73	93	73	80	99	88	97	
Books and paper—number.	15	15	11	18	12	11	21	13	18	10	13	10	11
All other—number.	509	372	322	363	347	275	398	326	389	369	314	385	399

² Revised.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931		1930										
	January	December	November	October	September	August	July	June	May	April	March	February	January
BANKING AND FINANCE—Continued													
Life Insurance													
(Association of Life Insurance Presidents)													
Policies and certificates, new (44 companies):													
Ordinary.....thous. of policies.....	231	319	253	261	229	245	270	267	294	310	330	287	254
Industrial.....thous. of policies.....	750	794	741	847	722	805	896	1,163	848	893	974	783	803
Group.....thous. of certificates.....	44	59	28	35	46	39	74	52	46	62	46	35	43
Total policies and certificates.....thous.	1,026	1,172	1,023	1,143	996	1,088	1,241	1,482	1,188	1,265	1,350	1,085	1,100
Amount of new insurance (44 companies):													
Ordinary.....millions. of dollars.....	596	753	593	620	545	622	715	726	776	840	885	731	713
Industrial.....millions. of dollars.....	214	229	208	244	210	234	312	230	241	264	264	213	218
Group.....millions. of dollars.....	78	131	59	52	138	73	130	107	91	114	73	60	64
Total insurance.....millions. of dollars.....	888	1,112	861	915	894	929	1,092	1,144	1,098	1,194	1,222	1,003	995
Premium collections (44 companies):													
Ordinary.....thous. of dollars.....	170,497	191,871	154,473	165,954	147,907	150,754	170,847	166,190	175,397	173,929	182,665	162,709	164,920
Industrial.....thous. of dollars.....	62,659	112,666	58,108	55,851	59,859	58,961	54,602	59,522	58,459	53,948	65,605	55,659	58,711
Group.....thous. of dollars.....	10,108	9,501	7,269	7,944	7,220	6,508	8,480	7,615	8,003	7,598	8,344	8,099	9,669
Annuities.....thous. of dollars.....	10,741	19,615	7,094	6,917	5,018	5,797	7,047	5,359	6,086	5,805	5,789	4,916	14,390
Total.....thous. of dollars.....	254,005	333,743	226,944	236,666	220,002	222,020	240,976	238,686	247,945	241,280	262,403	231,383	247,690
Admitted life insurance assets (40 companies):													
Grand total.....millions. of dollars.....		15,293	15,217	15,120	15,024	14,926	14,837	14,736	14,648	14,543	14,444	14,329	14,238
Mortgage loans—													
Total.....millions. of dollars.....	6,303	6,270	6,244	6,223	6,213	6,200	6,171	6,160	6,140	6,116	6,100	6,082	
Farm.....millions. of dollars.....	1,554	1,561	1,562	1,563	1,571	1,572	1,573	1,575	1,576	1,577	1,588	1,590	
All other.....millions. of dollars.....	4,749	4,709	4,682	4,660	4,642	4,628	4,598	4,585	4,564	4,539	4,512	4,492	
Bonds and stocks (book value):													
Total.....millions. of dollars.....		5,747	5,736	5,719	5,648	5,616	5,582	5,531	5,470	5,420	5,384	5,344	5,310
Government.....millions. of dollars.....	1,104	1,101	1,095	1,089	1,085	1,079	1,073	1,064	1,065	1,061	1,062	1,058	
Railroad.....millions. of dollars.....	2,637	2,640	2,638	2,622	2,621	2,617	2,600	2,594	2,572	2,554	2,554	2,549	
Public utility.....millions. of dollars.....	1,531	1,526	1,521	1,488	1,473	1,450	1,441	1,414	1,398	1,389	1,387	1,348	
All other.....millions. of dollars.....	475	469	465	449	437	436	417	398	385	380	361	355	
Policy loans and premium notes.....millions. of dollars.....		2,169	2,127	2,098	2,062	2,041	2,018	1,992	1,965	1,942	1,922	1,897	1,874
(Life Insurance Sales Research Bureau)													
Sales of ordinary life insurance:													
United States total.....thous. of dollars.....	628,607	795,642	653,131	685,755	603,102	685,864	779,184	822,437	860,068	897,871	941,801	798,709	755,821
Eastern manuf. dis.....thous. of dollars.....	280,066	324,635	279,651	285,594	238,909	275,228	319,321	330,948	350,430	370,797	401,432	345,320	325,695
Western manuf. dis.....thous. of dollars.....	138,869	175,677	146,102	153,704	136,170	153,052	172,695	188,821	191,560	201,268	215,909	177,421	169,279
Western agric. district.....thous. of dollars.....	82,754	117,117	90,178	97,300	89,779	99,276	114,929	121,170	130,005	131,635	131,342	107,335	105,573
Southern district.....thous. of dollars.....	65,329	91,922	72,189	77,196	69,724	80,858	89,284	94,384	99,406	99,928	98,391	86,836	83,228
Far Western district.....thous. of dollars.....	61,589	86,291	65,011	71,961	68,520	77,450	82,955	87,114	88,667	94,243	94,727	81,797	72,046
Canada, total 15 companies.....thous. of dollars.....	41,188	49,874	46,868	46,019	39,643	37,061	47,829	55,355	50,085	52,708	50,327	45,499	46,788
Dividend and Interest Payments													
Grand total.....millions. of dollars.....	1,121	713	579	763	524	424	916	721	570	745	608	2,533	1,127
Interest payments.....millions. of dollars.....	601	429	302	443	296	227	543	392	262	420	280	224	557
Dividend payments:													
Total.....millions. of dollars.....	521	284	277	320	228	197	373	329	308	325	328	2,309	570
Industrial and misc.....millions. of dollars.....	386	221	212	250	184	153	278	235	220	243	255	2,236	425
Steam railroads.....millions. of dollars.....	56	39	39	44	30	37	54	40	36	40	46	2,47	57
Street railways.....millions. of dollars.....	16	14	12	11	7	7	13	7	8	11	8	10	17
New Security Issues													
Foreign loans in the U. S.....thous. of dollars.....	107,000	22,377	2,5,662	103,545	59,650	19,680	73,738	187,855	129,751	148,684	162,199	101,213	74,987
Foreign governments.....thous. of dollars.....			9,500		52,900	2,680	42,100	103,250	79,781	121,675	26,000	40,000	4,000
Total corporation.....thous. of dollars.....	580,706	187,644	141,855	213,795	346,887	189,866	428,762	512,678	927,376	679,703	646,326	496,209	702,179
Purpose of issue—													
New capital.....thous. of dollars.....	399,848	180,872	137,622	151,148	284,570	121,516	402,281	445,363	864,042	628,444	630,889	468,574	629,083
Refunding.....thous. of dollars.....	180,858	6,772	4,233	62,647	62,317	68,350	26,481	67,315	63,334	51,259	15,437	27,635	73,096
Type of security—													
Stocks.....thous. of dollars.....	45,302	73,509	18,438	30,136	61,775	57,673	70,430	154,955	433,640	261,380	123,388	156,143	126,813
Bonds and notes.....thous. of dollars.....	535,404	114,135	123,417	183,659	285,112	132,193	358,332	354,723	493,736	418,323	522,938	340,066	575,366
Class of industry:													
Railroads.....thous. of dollars.....	175,004	14,250	7,600	5,000	76,254	41,516	62,633	178,467	60,435	223,013	118,225	60,483	
Public utilities.....thous. of dollars.....	324,108	116,778	89,738	104,642	172,243	48,071	234,465	172,091	604,486	130,777	228,481	172,445	492,000
Industrial.....thous. of dollars.....	69,173	21,889	10,562	44,605	10,273	84,714	45,920	55,953	154,845	169,229	49,931	141,395	34,595
Oil.....thous. of dollars.....	1,500		4,250	35,750				625	66,000	23,932	63,742	76,000	6,500
Land and buildings.....thous. of dollars.....	8,021	30,002	15,365	8,740	15,615	3,101	22,070	15,383	7,599	64,541	17,075	17,725	28,193
Shipping and misc.....thous. of dollars.....	2,900	4,725	14,340	15,058	72,501	9,363	63,050	24,785	31,080	72,752	51,226	39,119	84,634
States and municipalities:													
Permanent loans.....thous. of dollars.....	47,559	2,97,708	93,982	2,158,380	79,578	98,514	111,657	153,699	142,448	148,936	127,028	78,740	2,92,184
Temporary loans.....thous. of dollars.....	68,996	2,76,531	80,422	81,222	76,501	26,406	153,068	69,742	24,614	83,074	102,040	81,724	96,779
Bond sales (Canada):													
Govt. and provincial.....thous. of dollars.....		45,170	20,000	111,552	20,150	7,150	1,000	7,300	46,993	19,820	4,165	8,500	3,358
Municipal.....thous. of dollars.....		3,236	2,526	12,547	8,485	2,365	12,930	4,056	27,522	8,861	10,821	12,521	7,773
Corporation.....thous. of dollars.....		11,748	2,700	34,166	4,343	35,875	3,475	13,900	12,690	25,400	15,975	35,290	15,000
Tax-exempt securities outstanding, end of month.....millions. of dollars.....		19,646	19,684	20,040	19,836	19,873	19,848	19,772	19,811	19,735	19,665	19,173	19,061
Agricultural Finances													
Loans outstanding, end mo.:													
Federal farm loan banks.....millions. of dollars.....	1,187	1,187	1,188	1,189	1,190	1,191	1,192	1,193	1,194	1,194	1,195	1,196	1,196
Joint-stock land banks.....millions. of dollars.....	550	553	567	560	563	565	567	569	572	572	577	580	582
Federal intermediate credit banks.....millions. of dollars.....		128	130	132	126	123	123	111	92	96	90	81	77
Stocks and Bonds													
Stock prices, average daily closing:													
25 industrials, average.....dollars. per share.....	214.18	212.34	227.60	240.49	282.92	282.81	282.64	284.36	327.04	349.46	328.24	315.25	294.78
25 railroads, average.....dollars. per share.....	90.38	82.00	90.23	97.30	110.16	110.38	113.69	113.84	123.59	131.18	131.55	126.29	
103 stocks, average.....dollars. per share.....	40.69	38.09	42.12	43.44	47.40	55.92	56.98	54.84	64.73	66.46	69.71	66.56	65.46

2 Revised.

MONTHLY BUSINESS STATISTICS—Continued

	1931												1930													
	January	December	November	October	September	August	July	June	May	April	March	February	January	December	November	October	September	August	July	June	May	April	March	February	January	
<i>Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"</i>																										
BANKING AND FINANCE—Continued																										
Stocks and Bonds—Continued																										
Stock prices, average weekly closing:																										
Industrial, rails, and utilities																										
Industrials (404).....rel. to 1926..	112.3	109.4	116.7	127.6	148.8	147.6	149.3	152.8	170.5	181.0	172.4	165.5	156.3													
All industrials (337).....rel. to 1926..	103.4	101.9	108.5	117.8	139.3	138.7	139.8	143.1	160.1	170.8	163.0	155.9	148.8													
All railroads (33).....rel. to 1926..	100.4	93.5	102.1	110.9	122.6	121.2	124.2	124.5	136.0	141.7	143.2	142.5	136.5													
All utilities (34).....rel. to 1926..	163.4	157.9	167.4	187.0	216.4	212.7	215.4	223.5	250.0	263.7	242.1	230.6	208.7													
Automobiles and trucks (13).....rel. to 1926..	106.2	100.3	101.2	108.0	132.5	134.1	132.2	134.0	151.7	162.0	154.9	145.0	135.0													
Automobile tires and rubber goods (7).....rel. to 1926..	50.6	54.9	56.0	52.5	65.5	72.0	76.8	84.0	99.4	111.1	111.1	103.7	95.9													
Airplanes (10).....rel. to 1926..	202.5	177.0	214.9	269.6	391.1	409.9	405.7	418.1	530.3	647.1	536.8	413.8	363.3													
Agricultural implements (4).....rel. to 1926..	161.7	169.7	195.8	211.7	265.3	268.5	285.5	311.1	374.8	393.9	346.5	329.1	296.0													
Chain stores (17).....rel. to 1926..	78.4	78.1	81.7	88.1	95.6	90.1	88.7	89.5	96.5	101.1	99.9	100.2	102.3													
Copper and brass (9).....rel. to 1926..	82.1	79.9	90.8	92.6	114.4	121.3	129.1	134.6	151.0	174.3	192.8	193.3	192.8													
Food, other than meat (20).....rel. to 1926..	127.2	123.0	126.4	133.5	149.8	147.2	149.4	148.7	159.5	159.9	153.4	150.6	146.0													
Machinery and machine equipment (10).....rel. to 1926..	120.4	116.9	120.3	134.4	154.1	152.3	154.5	152.1	169.8	172.9	161.4	154.4	145.6													
Oil producing and refining (16).....rel. to 1926..	89.1	87.8	96.9	106.4	125.4	129.7	132.9	133.1	147.9	155.7	140.6	127.5	128.8													
Railroad equipment (9).....rel. to 1926..	74.1	72.9	76.8	82.0	95.6	93.4	94.3	98.8	109.7	119.8	126.4	127.9	124.1													
Rayon (5).....rel. to 1926..	53.8	58.2	67.9	71.4	65.8	72.0	73.7	80.9	88.0	88.0	84.5	86.1	91.2													
Steel and iron (10).....rel. to 1926..	124.0	124.7	130.5	141.5	161.5	160.4	159.1	161.1	174.1	196.4	191.9	187.8	177.1													
Textiles (30).....rel. to 1926..	52.5	51.0	54.9	58.2	67.2	66.0	67.1	68.5	76.7	83.2	84.7	85.0	78.3													
Theaters, motion pictures, and amusements (7).....rel. to 1926..	69.4	66.7	77.7	87.8	112.4	106.1	111.9	119.4	144.5	151.5	135.5	121.2	96.0													
Tobacco and tobacco products (10).....rel. to 1926..	131.5	125.6	129.2	136.8	152.6	149.2	146.6	145.2	158.9	157.8	159.6	152.3	139.3													
Traction, motor transportation, etc. (9).....rel. to 1926..	63.1	63.3	67.9	72.3	74.6	72.7	74.1	75.3	82.1	85.0	85.7	82.4	78.4													
Stock yield:																										
Total common (90).....per cent..	5.50	5.62	5.43	5.05	4.33	4.42	4.44	4.50	4.02	3.78	3.99	4.14	4.38													
Industrials (50).....per cent..	5.73	5.79	5.69	5.39	4.60	4.69	4.77	4.91	4.42	4.13	4.36	4.53	4.75													
Public utilities (20).....per cent..	4.26	4.37	4.10	3.64	3.64	3.12	3.64	2.92	2.50	2.34	2.55	2.64	2.91													
Railroad (20).....per cent..	6.56	7.05	6.46	5.98	5.45	5.50	5.41	5.43	5.03	4.84	4.78	4.80	5.03													
Preferred high-grade industrial (20).....per cent..	5.66	5.77	5.62	5.52	5.48	5.53	5.56	5.52	5.48	5.46	5.48	5.52	5.53													
Stock sales, N. Y. Stock Exchange.....thous. of shares..	52,543	58,764	51,946	65,497	63,545	39,869	46,753	76,593	78,040	126,910	96,552	68,723	62,808													
Bond sales:																										
Miscellaneous.....thous. of dollars..	247,308	250,707	182,906	264,357	221,327	167,584	183,716	218,500	220,131	264,898	335,934	105,046	201,401													
Liberty-Treasury.....thous. of dollars..	16,809	15,055	6,640	7,773	9,631	4,951	10,112	11,789	7,064	9,731	15,222	8,136	7,975													
Total.....thous. of dollars..	264,117	265,762	189,546	272,130	230,958	172,535	193,823	230,289	227,195	274,629	351,156	203,182	209,375													
Bond prices:																										
Highest-grade rails.....p. ct. of par. 4% bond..	96.59	92.89	94.63	95.85	95.83	94.25	92.83	91.36	90.42	89.81	90.52	88.81	89.52													
Second-grade rails.....p. ct. of par. 4% bond..	86.54	82.78	85.85	87.49	88.32	86.94	85.09	84.91	84.49	84.32	84.13	82.66	82.39													
Public utility.....p. ct. of par. 4% bond..	78.14	75.54	77.32	78.92	79.49	76.82	74.99	74.78	75.36	75.76	75.63	74.10	73.45													
Industrial.....p. ct. of par. 4% bond..	70.98	68.61	70.53	71.63	76.13	76.33	75.43	75.60	76.35	76.54	76.06	74.59	74.49													
Comb. price index.....p. ct. of par. 4% bond..	81.98	78.96	81.10	82.49	84.26	82.93	81.43	81.10	81.20	81.23	81.27	79.58	79.44													
Bond prices, 1st of following month:																										
5 Liberty bonds.....p. ct. of par..	104.23	105.53	106.41	106.06	105.84	105.23	105.44	105.28	104.92	104.16	104.53	103.87	103.08													
50 domestic bonds.....p. ct. of par..	99.57	99.54	98.68	100.08	100.96	100.41	99.81	99.10	99.23	98.87	99.20	98.16	97.90													
40 representative issues.....p. ct. of par..	84.56	81.53	84.05	86.08	88.25	90.99	91.12	90.62	92.01	91.97	93.88	90.88	89.74													
Bond yields:																										
Total, 60 high grade.....per cent..	4.43	4.55	4.46	4.41	4.41	4.43	4.49	4.53	4.54	4.54	4.55	4.65	4.64													
Railroads (15).....per cent..	4.25	4.41	4.32	4.25	4.25	4.29	4.36	4.41	4.45	4.47	4.43	4.53	4.51													
Industrial (15).....per cent..	4.99	5.12	4.97	4.89	4.85	4.87	4.92	4.92	4.92	4.92	4.95	5.02	5.04													
Utilities (15).....per cent..	4.56	4.61	4.57	4.53	4.55	4.59	4.63	4.67	4.68	4.69	4.71	4.79	4.79													
Municipal (15).....per cent..	3.92	4.05	4.00	3.94	3.97	3.97	4.05	4.10	4.11	4.11	4.12	4.24	4.23													
Municipal bond yield (20).....per cent..	4.05	4.12	4.06	3.99	3.97	4.																				

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 27 to 139 of the August, 1930, "Survey"	1931	1930											
		January	Decem- ber	Novem- ber	October	Septem- ber	August	July	June	May	April	March	Febru- ary
U. S. FOREIGN TRADE													
Imports													
Grand total	thous. of dolls.	208,721	203,713	247,322	226,352	218,417	220,494	250,343	284,683	307,824	300,460	281,707	310,968
By grand divisions:													
Europe—	thous. of dolls.	56,661	65,560	77,530	73,423	63,495	62,046	72,147	84,137	93,004	87,726	84,616	88,783
France	thous. of dolls.	7,275	8,227	11,673	10,851	8,806	7,857	7,484	10,302	10,194	9,852	10,442	10,831
Germany	thous. of dolls.	11,619	11,166	17,358	14,050	14,334	12,724	12,817	13,046	17,300	18,663	16,029	17,667
Italy	thous. of dolls.	5,252	6,353	6,461	4,976	4,546	4,518	6,770	10,467	8,698	6,821	6,685	7,770
United Kingdom	thous. of dolls.	11,468	15,289	17,743	17,017	13,840	13,901	15,511	21,353	24,513	21,194	20,014	18,163
North America—	thous. of dolls.	53,257	54,526	62,158	58,584	55,129	57,515	66,181	81,139	72,088	70,636	61,494	68,784
Total	thous. of dolls.	26,137	30,279	34,306	32,508	29,286	30,265	36,503	37,358	36,339	38,431	33,239	37,394
South America—	thous. of dolls.	30,509	26,657	30,388	28,028	26,280	30,248	35,554	39,180	47,501	48,669	46,488	44,035
Argentina	thous. of dolls.	2,519	2,370	2,639	3,396	3,341	3,931	4,109	9,159	12,226	12,175	9,433	6,572
Asia and Oceania—	thous. of dolls.	64,941	53,032	73,909	62,020	68,789	65,281	71,194	74,577	87,260	87,154	83,471	97,712
Japan	thous. of dolls.	27,208	19,620	30,577	23,232	25,249	17,147	15,357	13,874	24,433	23,205	28,110	31,106
Africa, total	thous. of dolls.	3,353	3,938	4,310	4,257	4,696	5,354	5,013	5,611	7,385	6,280	5,721	11,653
By economic classes:													
Crude materials	thous. of dolls.	69,079	59,243	77,487	75,393	72,617	69,585	76,643	86,589	105,559	101,685	98,581	109,026
Foodstuffs, crude and food animals	thous. of dolls.	30,029	27,337	32,849	27,582	26,598	29,310	35,372	34,744	38,597	40,136	39,394	39,375
Manufactured food-stuffs	thous. of dolls.	22,312	21,045	23,145	20,600	17,210	19,669	24,813	41,571	31,178	26,933	20,414	23,933
Semimanufactures	thous. of dolls.	38,129	38,262	45,520	40,986	44,196	44,688	51,725	53,354	61,789	62,692	59,034	68,022
Finished manufactures	thous. of dolls.	49,172	57,826	68,321	61,791	57,797	57,242	61,790	68,424	70,800	69,014	64,284	70,613
Exports													
Grand total, including reexports	thous. of dolls.	250,000	275,193	289,021	327,120	311,889	298,118	266,619	295,097	319,592	331,843	369,624	348,962
By grand division:													
Europe—	thous. of dolls.	141,621	155,227	174,652	158,717	143,262	113,043	122,830	135,508	142,159	174,764	169,282	207,209
Total	thous. of dolls.	19,172	22,094	23,683	20,069	16,152	11,986	11,152	151,110	16,855	21,396	20,877	25,216
Germany	thous. of dolls.	20,326	23,686	31,507	32,912	22,784	14,151	16,456	17,226	18,960	27,129	21,997	31,391
Italy	thous. of dolls.	8,625	7,582	8,924	8,105	5,775	5,522	6,240	7,719	8,915	10,518	11,116	11,390
United Kingdom	thous. of dolls.	53,871	61,094	71,918	57,841	53,928	40,628	47,915	47,002	46,713	58,076	59,442	79,351
North America—	thous. of dolls.	61,921	64,471	76,175	79,533	82,945	82,956	92,174	101,606	98,486	100,359	90,507	88,911
Total	thous. of dolls.	36,326	41,689	49,165	52,070	53,695	55,058	59,715	69,559	63,997	66,665	57,696	54,162
South America—	thous. of dolls.	23,737	23,516	25,817	25,911	25,744	27,612	27,636	29,853	30,608	31,292	28,236	37,481
Argentina	thous. of dolls.	8,801	8,728	10,361	9,776	9,741	10,816	12,067	11,227	12,012	11,637	10,638	13,919
Asia and Oceania—	thous. of dolls.	42,279	39,219	44,204	41,268	33,641	35,913	43,960	44,749	52,780	53,730	51,995	67,357
Total	thous. of dolls.	12,593	12,425	11,249	15,025	8,822	7,489	12,709	11,325	18,325	15,637	15,018	23,997
Africa, total	thous. of dolls.	5,635	6,588	6,272	6,460	7,525	7,095	8,497	7,875	7,820	9,479	8,943	10,357
By economic classes:													
Total domestic exports only	thous. of dolls.	270,810	285,441	322,941	307,945	293,899	261,960	289,827	312,502	326,540	363,148	342,947	404,374
Crude materials	thous. of dolls.	76,735	90,930	104,829	94,268	53,156	36,532	37,484	40,777	52,432	70,429	67,711	103,908
Foodstuffs, crude and food animals	thous. of dolls.	13,462	15,592	15,228	18,183	24,161	16,656	13,346	12,448	9,356	9,325	13,254	17,711
Manufactured food-stuffs	thous. of dolls.	27,033	29,992	32,143	27,825	28,317	24,209	27,311	30,378	27,704	34,373	33,520	39,839
Semimanufactures	thous. of dolls.	33,910	33,125	38,012	37,099	40,760	39,830	47,127	49,967	47,782	49,414	45,294	50,782
Finished manufactures	thous. of dolls.	119,670	115,802	132,729	130,569	147,505	144,732	164,559	179,022	189,266	199,607	183,169	192,134
Agricultural exports (quantities):													
All commodities rel. to 1910-1914		85	109	126	137	124	87	57	55	56	65	82	79
All commodities except cotton rel. to 1910-1914		95	105	116	127	114	130	98	93	90	83	98	105
CANADIAN FOREIGN TRADE													
Total trade:													
Imports	thous. of dolls.	50,414	60,338	76,325	78,358	87,900	77,906	84,551	91,544	101,545	71,402	112,991	80,922
Exports	thous. of dolls.	45,634	68,053	74,592	84,298	82,190	70,613	77,906	80,536	79,464	52,508	91,692	68,150

² Revised.

PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

Agricultural Implements. Classification of Articles of Farm Equipment for Export for Use of Shippers and Exporters in Properly Classifying Shipments Listed on Shipper's Export Declaration. ii+14 pages. (Bureau of Foreign and Domestic Commerce.)

Agriculture. Fifteenth Census of United States, 1930. Agriculture. Government. Number of Farms, Farm Acreage, and Values of Farm Land and Buildings, Farmers' Dwellings, and Farm Implement and Machinery by Minor Civil Divisions. 6 pages. (Bureau of the Census.) Price, 5 cents.

Fifteenth Census of United States, 1930. Agriculture. Vermont. Number of Farms, Farm Acreage, and Values of Farm Land and Buildings, Farmers' Dwellings, and Farm Implement and Machinery by Minor Civil Divisions. 6 pages. (Bureau of the Census.) Price, 5 cents.

Aeronautics. Commerce Bulletin is issued semi-monthly by the Aeronautics Branch of the Department of Commerce and contains short articles on aviation developments and a list of publications on aeronautics.

Commerce Bulletin, December 1, 1930. (Aeronautics.)

Banking. Banking System and Practices in France. vi+27 pages. (Bureau of Foreign and Domestic Commerce. Trade Information Circular No. 104.) Discussion of the practices of the different classes of banks in France, the position of branches of foreign banks, operations of cooperative agricultural credit institutions, and the place of the Bank of France in the financial operations of the country. Price, 10 cents.

Building Standards. Recommended Minimum Requirements for Resistance to Building. Report of Department of Commerce Building Code Committee. vi+56 pages, 4 illustrations. (Bureau of Standards. Building and Housing No. 12.) This publication contains recommended requirements for methods of construction of buildings and types of materials to be used to reduce the fire hazard to the minimum. Price, 10 cents.

Suggestions for Possible Repairs and Improvements in Household Equipment prepared for the President's Emergency Committee for Employment. vi+5 pages. (Bureau of Standards. Division of Building and Housing.)

Bureau of Standards Journal of Research is published monthly and contains the reports formerly issued as Scientific and Technological Papers series which have been discontinued. The contents of the journal are shown in the Research Papers series and discussed separately after publication in the journal. Single copies, 10 cents; annual subscription, \$2.75.

Coal and Coal. Analysis of Wyoming Coals. vi+159 pages, 2 illustrations. (Bureau of Mines. Technical Paper 164.) Description of the coal beds in Wyoming, giving the location of deposits, mining operations in the different fields, and analyses of more samples. Price, 10 cents.

Geographical Survey of United States Bureau of Mines Investigations on Coal and its Products, 1910-1930, by A. C. Fieldner and M. Milton Bernstein. vi+16 pages. (Bureau of Mines. Technical Paper 293.) Price, 10 cents.

Geography of World, with Special Reference to International Trade in Coal, by H. M. Haar. viii+328 pages, 47 illustrations, 3 charts. (Bureau of Foreign and Domestic Commerce. Trade Promotion Series No. 105.) Discussion of the coal reserves of the world, the uses of this fuel, and the coal resources and trade by countries, showing the location of different kinds and the quality of the coal produced in each, and the development and extent of the coal industry in each country. A glossary of terms used in the coal industry is included, and a bibliography on the subject of coal. Price, \$1.

Commerce Reports. Index to Commerce Reports, Nos. 27-35, Vol. 1, Thirty-Third Year, (September, 1930, to July, 1931.) This publication, issued quarterly, indexes all material published in Commerce Reports under the subject, country, and anchor for the period indicated. Single copies,

Earthquakes. Seismological Report, October-December, 1927, by Frank Neumann. ii+57 pages, 1 illustration. (Coast and Geodetic Survey. Serial No. 503.) This publication shows the date, locality, and intensity of earthquakes occurring during the last three months of 1927. Price, 10 cents.

Financial Statistics of States, 1928. vi+121 pages, 9 illustrations. Statistics are given regarding the total and per capita revenues and expenditures of the different States, their indebtedness, the value of state properties, the assessed valuation of property subject to taxation, and the total and per capita levy of taxes. Price, 20 cents.

Fish. Fishery Industries of United States, 1929, by R. H. Fielder. (Bureau of Fisheries. Document No. 1095.) Appendix XIV to Report of Commissioner of Fisheries for fiscal year 1930, pp. 795-1068, 1 illustration, 27 charts. Report on operations of the fish industry in different parts of the United States, showing the catch, the trade in fishery products, and activities in canning and preserving factories. The activities of the Fisheries Bureau are also summarized. Price, 5 cents.

Propagation and Distribution of Food Fishes, Fiscal Year 1930, by Glen C. Leach. (Bureau of Fisheries. Document No. 1098.) Appendix XVI to Report of Commissioner of Fisheries for fiscal year 1930, pp. 1123-1191, 5 illustrations. Report on the activities of fish hatcheries during 1930. Price, 15 cents.

Gas. Natural Gas in 1929, by G. R. Hopkins and H. Backus. (Bureau of Mines. Mineral Resources of United States, 1929, Pt. II, pp. 319-340, 1 illustration, 2 charts.) This pamphlet contains statistics of output of natural gas wells in the United States and the amount of gas consumed in this country. Price, 5 cents.

Gases. Improved Apparatus and Method for Analysis of Gas Mixtures by Combustion and Absorption, by Martin Shepherd. (Bureau of Standards. Research Paper No. 266.) Reprint from Bureau of Standards Journal of Research, vol. 6, January, 1931, pp. 121-167, 13 illustrations, 4 pages of plates. Description of improved apparatus for analysis of gases by combustion and absorption methods. Price, 15 cents.

Limits of Inflammability of Gases and Vapors, by H. F. Coward and G. W. Jones. vi+114 pages, 36 charts. (Bureau of Mines. Bulletin 279.) Investigation into the amount of gases or vapors which can mix with the atmosphere without causing an explosion. A bibliography is included. Price, 20 cents.

Glass and glassware. Making of Mirrors by Deposition of Metal on Glass. ii+17 pages, 2 illustrations. (Bureau of Standards. Circular No. 389.) This publication supersedes Circular No. 32 and describes the processes of the chemical deposition of silver on glass. Methods are also discussed of producing reflecting films by chemical deposits of other metals. Price, 5 cents.

Iron and steel. Classification of Iron, Steel, and Hardware Products for Export for Use of Shippers and Exporters in Properly Classifying Shipments Listed on Shipper's Export Declaration. ii+14 pages. (Bureau of Foreign and Domestic Commerce.)

Labor and Wages. Fifteenth Census of United States, 1930. Arkansas. Unemployment Returns by Classes. 19 pages. (Bureau of the Census. Unemployment Bulletin.) Price, 5 cents.

Fifteenth Census of United States, 1930. Vermont. Unemployment Returns by Classes. 13 pages. (Bureau of the Census. Unemployment Bulletin.) Price, 5 cents.

Light List. Including Fog Signals, Atlantic and Gulf Coasts of United States, 1931, corrected to December 15, 1930. ii+521 pages. (Lighthouse Service.) This publication lists all aids to navigation maintained by the United States on the Atlantic and Gulf coasts of the United States and in Porto Rico and the West Indies. Price, 70 cents.

CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

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JULIUS KLEIN, Assistant Secretary of Commerce

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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. STEWART, 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, birth, 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 attaches, 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 66 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 sponge beds off the coast of Florida.

BUREAU OF LIGHTHOUSES

GROVER R. PITTMAN, 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. TAYLOR, 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, constants, tide tables, current tables, and special publications.

BUREAU OF NAVIGATION

ARTHUR J. TRAUB, Commissioner

Superintendence of commercial marine and merchant seamen. Supervision of registration, 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 maritime inspection laws, including imposition of fees, fines, license 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. ROSENTHAL, 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. TURNER, Chief

Inspection of radio stations on shore; 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.