

UNITED STATES  
DEPARTMENT OF COMMERCE  
WASHINGTON

SURVEY OF  
CURRENT BUSINESS

MAY, 1931  
No. 117



BUREAU OF FOREIGN AND DOMESTIC COMMERCE

IMPORTANT NOTICE

*In addition to figures given from Government sources, there are also included for completeness of service figures from other sources generally accepted by the trader, the authority and responsibility for which are noted in the "Sources of Data" on pages 140-143 of the April, 1930, semi-annual 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 will soon be put into operation:

An Annual Supplement to the Survey of Current Business, the first issue to be published in June, 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 56 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 semi-annual 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.



# SURVEY OF CURRENT BUSINESS



PUBLISHED BY

UNITED STATES DEPARTMENT OF COMMERCE

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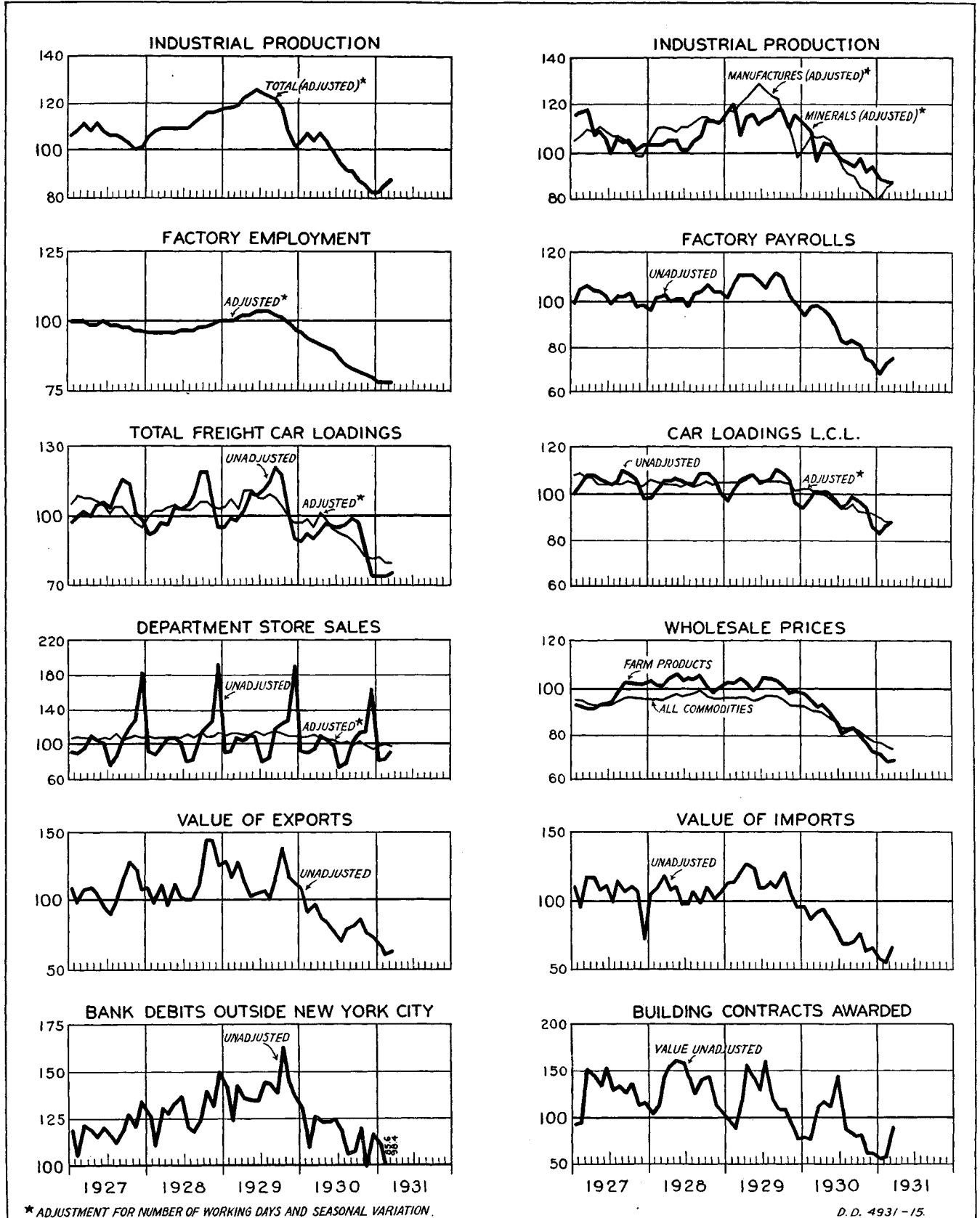
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Subscription price of the SURVEY OF CURRENT BUSINESS is \$1.50 a year; single copies (monthly), 10 cents; annual supplement, 25 cents. Foreign subscriptions, \$2.50; single copies (monthly issues), including postage, 14 cents; annual supplement, 36 cents. 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						1929				1930					1931					
	1924	1925	1926	1927	1928	1929	1930	Feb.	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
	1923-1925 monthly average=100																				
<b>Industrial production:</b>																					
*Total manufacturing.....	94.0	105.0	108.0	106.0	112.0	119.0	96.0	117.0	120.0	108.0	98.0	103.0	107.0	106.0	85.0	84.0	80.0	81.0	86.0	88.0	
*Total minerals.....	96.0	99.0	108.0	107.0	106.0	115.0	99.0	120.0	107.0	110.0	116.0	112.0	109.0	96.0	98.0	92.0	94.0	90.0	90.0	88.0	
Pig iron.....	86.7	101.5	109.0	101.0	105.5	117.9	87.6	107.3	124.3	106.5	94.9	94.6	95.0	108.6	72.5	62.5	55.8	57.4	57.1	68.0	
Steel ingots.....	88.7	106.4	113.1	104.6	120.2	130.9	95.6	117.0	146.6	101.9	84.0	109.8	118.0	124.4	78.7	64.7	58.1	71.8	73.1	87.4	
Automobiles.....	90.8	107.5	108.4	85.7	109.9	135.1	84.6	141.1	177.1	65.8	36.3	82.6	99.9	119.9	46.7	41.1	47.1	52.0	66.5	83.6	
Cement.....	99.8	108.1	110.0	115.3	118.0	114.1	107.9	68.6	80.2	113.1	90.2	68.4	65.7	90.3	115.9	89.3	68.2	53.1	47.6	66.2	
Cotton (consumption).....	89.7	104.4	108.5	120.2	106.7	114.5	87.4	115.9	123.3	105.4	88.2	112.3	96.3	98.9	86.6	80.8	79.2	88.5	84.5	95.6	
Wool (consumption).....	94.6	92.6	89.7	97.0	94.7	103.1	75.6	101.3	101.2	98.5	79.8	92.1	80.9	78.5	86.5	65.9	63.3	71.5	81.1	85.2	
<b>Raw material output:</b>																					
Animal products.....	103.8	96.6	96.0	97.4	99.2	99.2	98.4	80.0	88.3	95.2	93.0	94.7	83.8	97.6	96.7	88.5	97.8	94.7	87.1	92.4	
Crops.....	104.2	104.0	109.0	113.3	117.0	113.6	95.3	81.9	72.5	154.6	127.9	78.7	62.6	53.3	197.9	138.6	98.3	69.1	60.4	59.1	
Forest products.....	97.0	104.0	97.6	92.6	87.9	85.4	68.2	75.4	85.9	81.3	69.6	63.3	66.4	73.5	68.2	62.9	58.0	55.8	55.9	61.8	
Crude petroleum.....	96.9	103.7	104.6	122.3	122.4	136.5	121.7	122.9	134.3	128.3	131.8	133.7	120.9	126.4	118.4	111.0	109.1	107.5	98.8	113.0	
Bituminous coal.....	92.5	99.5	109.7	99.0	95.8	102.3	88.3	110.5	92.0	106.8	108.0	114.3	90.8	82.1	101.3	87.5	91.2	88.5	72.1	77.7	
Copper.....	100.2	106.4	110.2	104.9	114.9	127.1	87.2	128.5	142.1	115.1	113.4	102.9	89.8	92.8	84.8	80.6	73.9	72.9	72.0	73.6	
<b>Power and construction:</b>																					
Electric power.....	98.1	109.5	122.6	133.3	146.0	161.8	159.0	148.2	159.4	164.3	169.7	172.5	151.9	163.0	163.0	153.4	161.7	158.5	142.7	156.7	
Building contracts (37 States).....	92.7	117.6	111.0	106.8	121.4	99.6	64.1	81.9	117.1	76.9	66.3	49.6	57.6	80.6	59.5	49.9	43.8	37.1	42.7	57.2	
<b>Unfilled orders:</b>																					
General index.....	87.0	91.3	84.6	74.0	76.1	80.9	73.5	79.6	85.7	74.0	78.0	80.5	79.5	82.2	58.6	58.7	61.9	61.8	60.2	60.8	
U. S. Steel Corporation.....	83.6	90.6	82.1	71.1	80.7	87.1	83.7	90.6	92.4	86.4	92.5	93.6	93.8	95.7	72.9	76.2	82.6	86.5	83.0	83.7	
<b>Stocks:</b>																					
General index.....	102.2	103.4	115.0	121.4	123.2	136.9	142.9	137.9	134.3	156.5	158.0	150.6	147.9	141.6	157.2	161.8	163.7	156.8	153.8	151.1	
Manfd. commodities (28).....	103.3	103.0	107.3	113.7	117.8	120.4	122.7	127.8	124.7	116.2	119.2	121.6	125.7	127.9	119.0	119.1	120.9	120.8	121.1	120.7	
Cotton.....	91.4	106.2	145.5	153.1	123.6	126.5	173.2	149.1	130.5	198.6	205.8	192.3	177.2	158.4	236.6	265.0	267.0	254.1	235.7	216.0	
Copper (refined).....	113.9	73.1	64.8	85.4	68.4	78.4	276.2	48.8	46.8	112.1	151.3	179.7	205.9	314.5	322.4	326.7	324.4	321.4	321.2	312.9	
<b>Employment:</b>																					
Factories.....	96.2	99.7	101.4	98.8	97.2	100.4	87.8	99.8	101.4	98.9	95.2	93.2	93.3	93.1	84.3	81.0	78.8	76.4	77.3	78.1	
<b>Prices:</b>																					
Farm products, to producers.....	97.1	106.5	98.6	94.9	100.7	100.0	84.8	98.6	101.4	98.6	97.8	97.1	94.9	91.3	76.8	74.6	70.3	68.1	65.2	65.9	
Wholesale, all commodities.....	97.4	102.8	99.3	94.7	97.0	95.8	85.8	96.0	96.8	93.7	93.5	92.8	91.5	90.2	82.0	79.8	77.9	76.5	75.0	74.0	
Retail food.....	97.6	104.9	107.6	103.6	102.9	104.6	98.2	103.2	102.2	106.7	105.6	103.8	102.2	100.3	96.5	94.5	91.7	88.7	84.9	84.5	
Cost of living (including food).....	99.4	102.4	102.4	100.0	98.7	98.4	93.8	98.1	97.4	99.3	98.7	97.4	96.8	95.6	92.6	91.4	90.1				
<b>Distribution (values):</b>																					
*Bank debits, 141 cities.....	96.7	111.9	119.6	132.5	158.2	184.5	130.5	194.3	195.1	189.9	139.8	136.6	144.4	153.4	120.3	97.6	109.0	104.5	104.3	109.7	
*Department stores, sales.....	99.0	103.0	106.0	107.0	108.0	111.0	102.0	111.0	112.0	108.0	108.0	107.0	108.0	107.0	102.0	98.0	94.0	97.0	98.0	97.0	
*Mail-order sales, 2 houses.....	97.2	111.9	120.6	126.2	147.7	188.6	171.5	152.8	167.6	186.0	199.9	154.7	149.6	140.7	167.8	145.4	167.8	127.3	128.6	125.7	
*10-cent chains, sales.....	99.0	113.0	125.0	138.0	150.0	164.0	159.0	157.0	167.0	166.0	165.0	152.0	162.0	164.0	151.0	158.3	153.2	160.8	162.5	158.7	
Postal receipts.....	98.5	107.9	114.5	117.3	117.7	121.1	114.9	112.7	128.2	122.0	153.3	120.9	111.3	121.8	121.1	106.2	145.3	110.3	100.1		
Imports.....	93.1	109.0	114.3	108.0	105.6	113.5	79.0	114.4	118.8	104.8	95.9	96.3	87.2	93.0	76.6	63.0	64.6	56.7	54.2	65.3	
Exports.....	100.8	107.8	105.5	106.8	112.6	115.0	84.4	116.3	129.0	116.5	112.3	108.2	91.9	97.3	86.1	76.1	72.5	65.8	59.1	62.4	
<b>Transportation:</b>																					
Freight, net ton-miles.....	95.9	101.9	109.1	106.0	106.5	109.9	94.3	102.2	107.8	103.8	96.6	98.4	92.0	94.6	105.3	86.5	77.8	81.2	72.6		
<b>Finance:</b>																					
Member bank loans and discounts.....	98.5	107.4	112.9	117.3	127.5	135.9	133.8	130.6	132.4	141.3	140.9	133.1	131.1	135.0	133.8	131.8	129.8	125.8	123.4	123.1	
Interest rate (commercial paper).....	90.0	93.5	100.9	95.4	112.8	135.7	83.3	127.6	136.4	133.4	116.0	113.2	110.2	98.6	69.6	66.8	66.8	66.8	61.0	58.0	
Federal reserve ratio.....	104.1	96.9	96.0	99.1	89.1	93.4	104.3	90.5	92.6	93.0	90.2	101.4	102.1	103.4	106.7	103.4	95.5	107.1	108.9	108.2	
Price, corporation bonds.....	99.9	103.6	108.0	112.5	113.0	106.5	109.3	109.6	108.0	105.0	107.1	106.8	107.0	109.3	110.9	109.1	106.2	110.2	110.4	110.7	
Price, railroad stocks.....	96.1	117.9	133.4	162.7	174.5	194.3	162.3	188.3	184.9	176.2	181.4	180.6	188.6	188.1	139.1	129.0	117.2	129.2	131.6	120.9	
Price, industrial stocks.....	91.9	122.0	132.4	171.4	214.8	292.6	228.2	280.3	283.7	219.4	229.3	235.5	251.9	262.2	191.1	181.8	169.6	171.1	188.0	189.8	
Failures (liabilities).....	106.8	87.2	80.4	102.2	96.2	95.0	131.3	80.3	85.7	122.8	159.1	144.3	121.1	134.1	132.8	130.3	197.4	223.1	140.6	142.4	

\*Seasonal adjustments.

## PRELIMINARY SUMMARY FOR APRIL

Business operations in the country as a whole during the first weeks of April were confused in nature, but in general were marked by a recession in several of the basic industries. The decline was largely seasonal, but it indicated that the momentum of the preceding months had not been of sufficient force to assure a sustained rise. Composite business indicators for the week ended April 18 showed a slight decline after four weeks' rise.

Renewed weakness in the wholesale price level, after some weeks of apparent stability, as well as drops in steel-mill activity and electric-power production, were important elements during the middle week of April. The Fisher index dropped to a new low for the depression at 74.6, compared with 78.5 at the opening of the year and 91.3 for the corresponding week in 1930. Distribution of goods through primary channels continued to run less than at the same time last year, as indicated by the returns on car loadings. The decrease in car loadings during the opening week of April was less than seasonal.

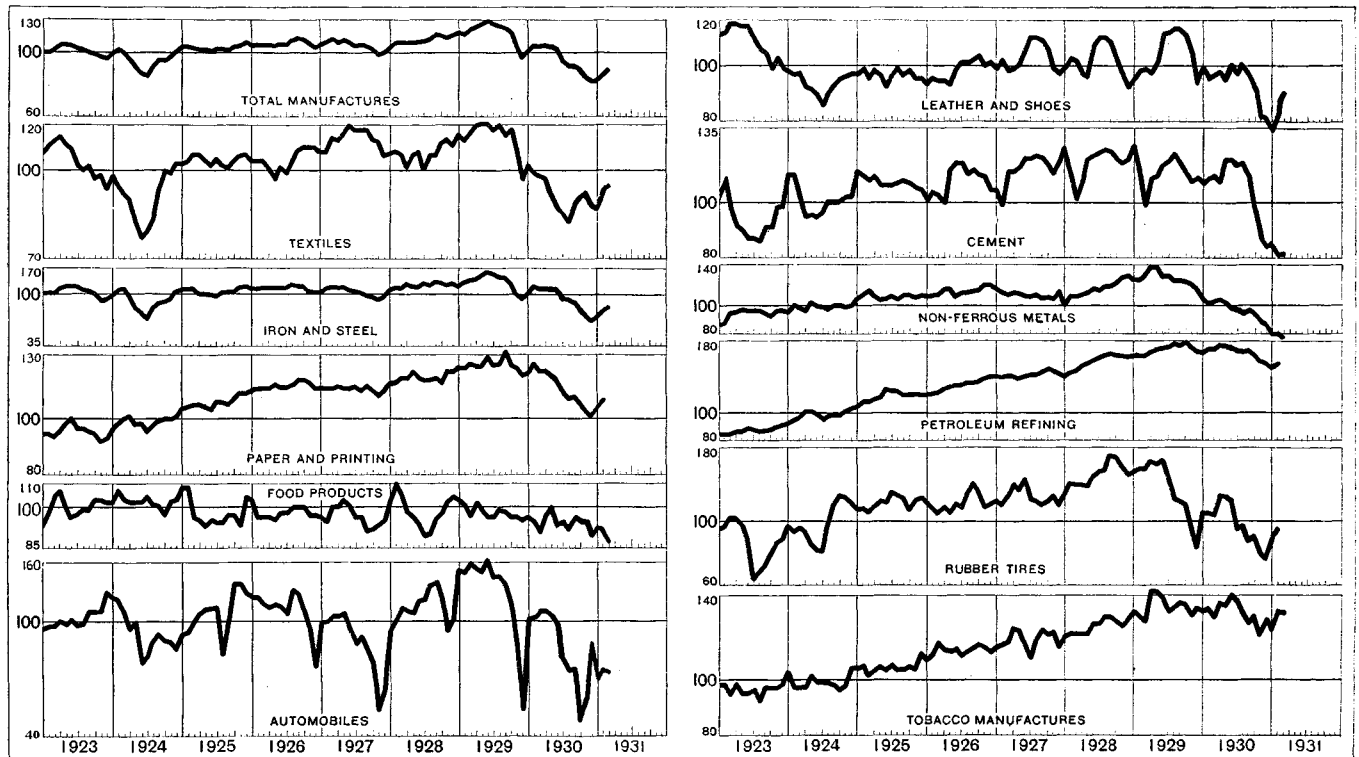
The daily average value of new building contracts

awarded during the opening weeks of April was on approximately the same level as reported for the closing weeks of March, but was still materially under the same period in 1929 and 1930. The production of bituminous coal decreased during the opening weeks of the month and was under the corresponding period last year. Steel-mill activity continued the decline which started during the closing week of March, and was considerably under the April, 1930, activity. Petroleum production recorded an upward turn during the second two weeks of April after remaining at approximately the same level for a 3-week period.

Interest rates on time money at the middle of April were higher than at the close of March, while rates on call money remained about stationary, excepting during the second week of April when a slight temporary rise occurred. Average prices of representative stocks declined from the closing week of March, but at the middle of April were still some 4 per cent above the December low. Stock prices, in general, however, were materially under the average prices quoted on the exchanges during the same period last year.

### MANUFACTURING PRODUCTION BY MAJOR GROUPS

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





## BUSINESS CONDITIONS IN MARCH

General business operations as pictured by available composite indexes did not make any noticeable advance during March. On the other hand, no marked losses were recorded.

The volume of manufacturing, according to the weighted index of the Federal Reserve Board, showed a slightly greater than normal increase during March over February, but was still some 17 per cent under March, 1930. Greater than normal seasonal increases were registered by the iron and steel, textiles, leather and shoes, and the stone, clay, and glass industries. Less than the normal seasonal increases between February and March were registered by food products, automobiles, nonferrous metals, and tobacco manufactures. The greatest increase, after seasonal adjustments are made, was recorded by the iron and steel industry, and food products registered the largest decrease. All manufacturing groups, except tobacco manufactures, were operating on a plane under that of March, 1930.

The number of wage earners employed in factories as a whole was slightly greater than in the preceding month, but the seasonally corrected index of employment was about the same as for February.

Carloadings during the first quarter of 1931 failed to record the estimated level, with March furnishing a considerable share of the decrease. During March, shipments of miscellaneous freight, which includes manufactured goods, and shipments of less than car-load lot merchandise dropped to new low levels for the current depression, allowing for seasonal variation. Loadings of forest products and of livestock, seasonally adjusted, established new low records for the entire postwar period.

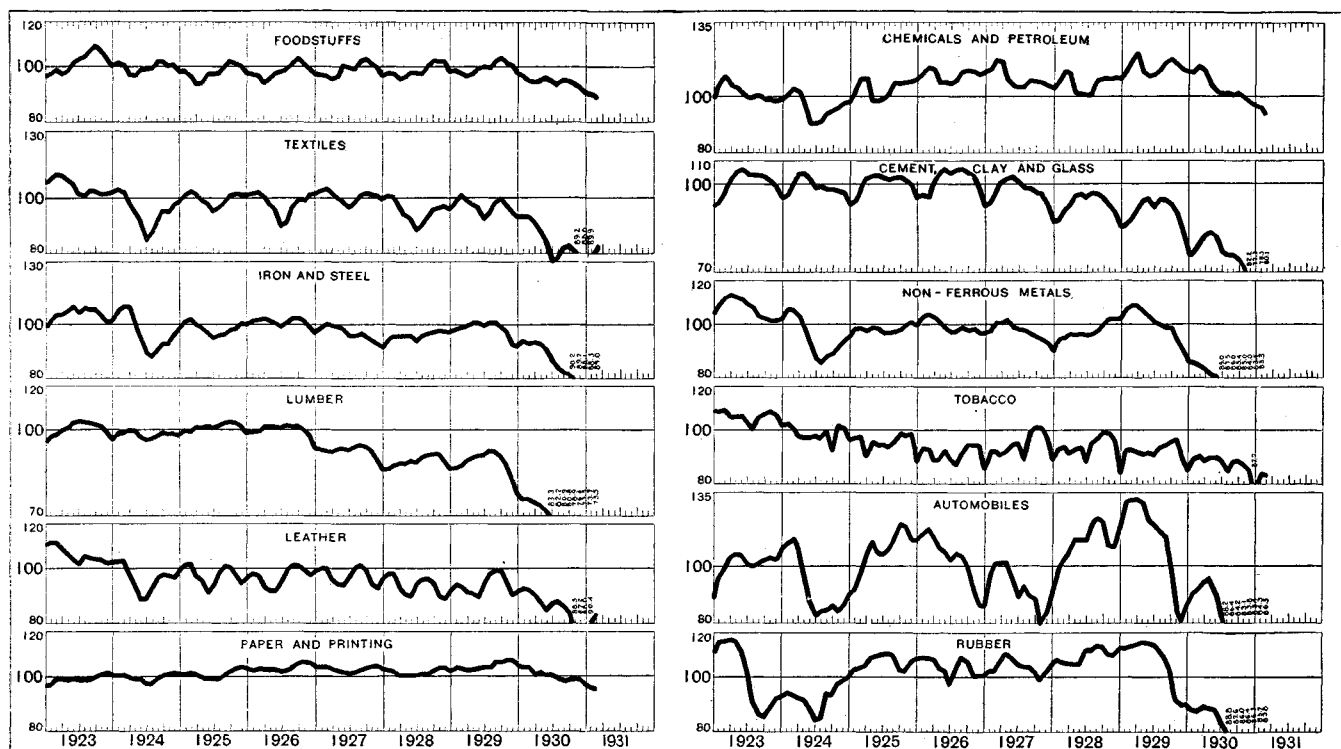
General construction during March was characterized by a strong seasonal gain, the F. W. Dodge Corporation reporting a gain of 57 per cent over February in value of contracts let.

The dollar value of department-store sales during March was 3 per cent smaller than in the same month last year. Allowance should be made for the fact that Easter occurred 15 days earlier this year, so that March included a larger part of the Easter buying than it did a year ago.

Bank debits were irregular during March. Brokers' loans increased during the first three weeks of March, but resumed a downward trend which was continued through the first part of April.

### FACTORY EMPLOYMENT, BY GROUPS

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







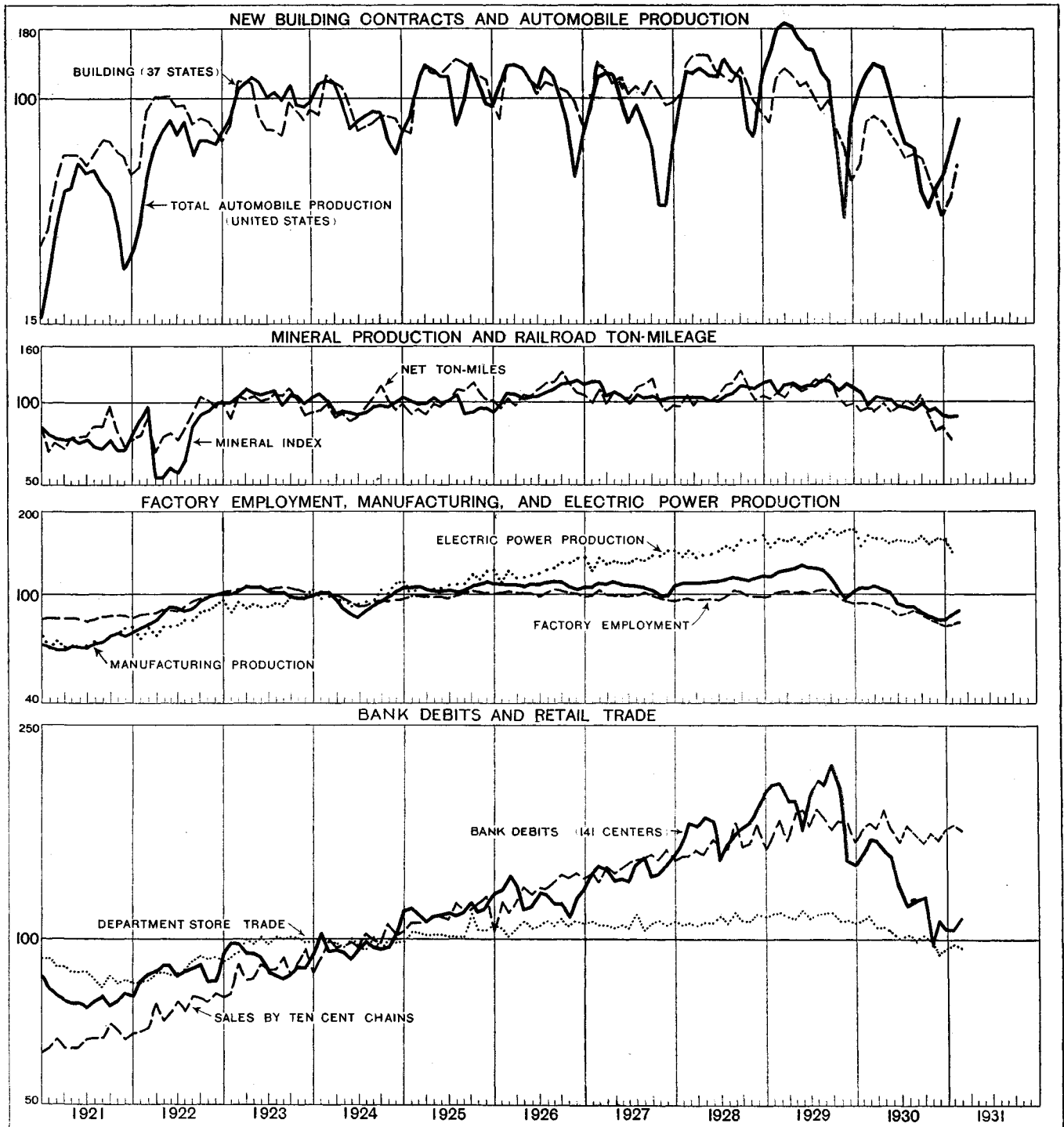
## WHOLESALE PRICES

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							
		February, 1931	March, 1931	March, 1930	January, 1931	February, 1931	March, 1931	February, 1930	March, 1930
<b>FARM PRODUCTS—AVERAGE PRICE TO PRODUCER</b>									
Wheat.....	Bushel.....	0.587	0.583	0.919	44	43	43	75	68
Corn.....	Bushel.....	.586	.575	.745	88	84	82	111	107
Potatoes.....	Bushel.....	.867	.849	1.367	49	47	46	75	74
Cotton.....	Pound.....	.091	.096	.138	57	60	64	98	91
Cottonseed.....	Ton.....	21.87	22.43	28.63	78	80	82	106	105
Cattle, beef.....	Pound.....	.0603	.0603	.0877	99	93	93	134	136
Hogs.....	Pound.....	.0681	.0692	.0957	61	58	59	80	81
Lambs.....	Pound.....	.0659	.0684	.0963	55	57	59	90	83
<b>FARM PRODUCTS—MARKET PRICE</b>									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	.75	.76	1.12	48	48	48	79	71
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	.79	.78	1.18	50	51	50	79	76
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	.69	.70	1.02	46	46	47	76	69
Corn, No. 3, yellow (Chicago).....	Bushel.....	.61	.60	.80	87	81	80	109	107
Oats, No. 3, white (Chicago).....	Bushel.....	.32	.31	.43	78	78	76	107	105
Barley, No. 2 (Minneapolis).....	Bushel.....	.44	.44	.55	69	69	69	89	86
Rye, No. 2 (Minneapolis).....	Bushel.....	.37	.36	.66	41	40	39	85	71
Cotton, middling upland (New York).....	Pound.....	1.110	1.109	1.51	58	63	62	90	86
Wool, 1/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.23	.22	.33	50	50	48	78	72
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	9.106	9.075	12.800	105	96	95	132	134
Hogs, heavy (Chicago).....	Cwt.....	6.725	7.175	9.825	60	55	58	84	80
Sheep, ewes (Chicago).....	Cwt.....	3.688	3.790	5.135	52	56	58	79	78
Sheep, lambs (Chicago).....	Cwt.....	8.313	8.270	9.730	58	61	60	76	71
<b>FOOD</b>									
Flour, standard patents (Minneapolis).....	Barrel.....	4.850	4.665	6.231	59	58	55	76	74
Flour, winter straights (Kansas City).....	Barrel.....	4.063	4.000	5.260	56	56	55	78	73
Sugar, 96° centrifugal (New York).....	Pound.....	.033	.033	.036	78	76	76	86	82
Sugar, granulated, in barrels (New York).....	Pound.....	.045	.043	.049	83	81	79	90	89
Cottonseed oil, prime yellow (New York).....	Pound.....	.073	.076	.084	61	62	64	71	71
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.178	.169	.240	119	108	103	144	146
Beef, fresh, carcass, steers (New York).....	Pound.....	.196	.180	.215	120	115	105	130	126
Pork, smoked hams (Chicago).....	Pound.....	.195	.187	.243	67	64	61	82	79
Butter, creamery, 92 score (New York).....	Pound.....	.28	.29	.37	64	62	64	80	82
Oleomargarine, standard, uncolored (Chicago).....	Pound.....	.155	.145	.235	78	68	64	103	103
<b>TEXTILES</b>									
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound.....	.239	.240	.297	69	67	67	87	83
Cotton-print cloth 64 x 60-38 1/2"-5.35-yards to pound.....	Yard.....	.053	.055	.062	69	70	73	86	82
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.065	.059	.078	67	70	63	85	84
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.100	1.000	1.300	77	77	70	94	91
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....								
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.601	1.543	1.756	80	80	77	90	88
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.746	1.668	1.843	81	81	77	90	85
Silk, Japan, 13-15.....	Pound.....	2.709	2.561	4.531	45	44	41	72	73
Hosiery, women's pure silk, mill.....	Dozen pair.....	6.000	6.000	8.500	52	52	52	78	73
<b>LEATHER</b>									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.073	.090	.142	68	52	64	106	101
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.117	.128	.156	72	67	74	95	90
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.365	.370	.490	87	83	84	112	112
Boots and shoes, men's black calf, blucher (Massachusetts).....	Pair.....	6.750	6.750	6.750	106	106	106	106	106
Boots and shoes, men's dress welt tan calf oxford (St. Louis).....	Pair.....	4.600	4.600	4.850	95	95	95	100	100
<b>FUEL</b>									
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.814	3.779	3.911	89	88	88	92	91
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.223	3.999	4.292	89	88	83	93	90
Coal, anthracite, chestnut (composite price).....	Long ton.....	12.732	12.637	13.033	93	93	92	95	95
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton.....	2.525	2.500	2.600	62	62	61	63	63
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	.850	.594	1.110	45	45	32	63	59
<b>METALS</b>									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	18.510	18.260	20.260	9	90	89	98	98
Pig iron, basic, valley furnace.....	Long ton.....	16.750	16.500	18.500	92	90	89	100	100
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	30.000	30.000	33.000	86	86	86	94	94
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.0972	.085	.1778	71	70	71	129	129
Brass, sheets, mill.....	Pound.....	.171	.174	.233	91	90	91	122	122
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0455	.0453	.0566	57	54	54	74	67
Tin, straits (New York).....	Pound.....	.2631	.2707	.3681	40	40	41	59	56
Zinc, slab, western (St. Louis).....	Pound.....	.0401	.0400	.0493	55	55	54	71	67
<b>BUILDING MATERIAL AND MISCELLANEOUS</b>									
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	28.420	29.660	37.200	68	63	66	83	83
Brick, common red, domestic building (New York).....	Thousand.....	10.000	10.000	11.000	58	61	61	64	67
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.543	1.477	1.617	91	88	84	93	93
Steel beams, mill (Pittsburgh).....	Cwt.....	1.650	1.650	1.800	83	84	84	92	92
Rubber, smoked sheets (New York).....	Pound.....	.076	.077	.153	17	16	16	33	32
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15.500	15.500	107	107	107	107	107
Newsprint, rolls, contract, mill.....	Cwt.....	3.100	3.100	3.100	94	94	94	94	94

# MEASURES OF BUSINESS ACTIVITY

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





## REVIEW OF PRINCIPAL BRANCHES OF BUSINESS

### TEXTILES

Activity in the textiles industry during March, as measured by the consumption of electrical energy for power purposes, was 2 per cent under that recorded during February and 2.3 per cent under March, 1930.

Production of cotton textiles increased during March in respect to February and was in excess of the January production. The March production also was 3.9 per cent over that of March, 1930, but was 8.5 per cent under the production recorded in March, 1929. New orders and shipments at the end of March were all materially above the figures for these items recorded for the corresponding period in 1930, while unfilled orders at the close of the month were slightly under last year. Stocks of cotton textiles at the close of March were under the figure reported at the close of February, and were materially under the stocks on hand at the close of March, 1930, and also slightly under the 1929 figure.

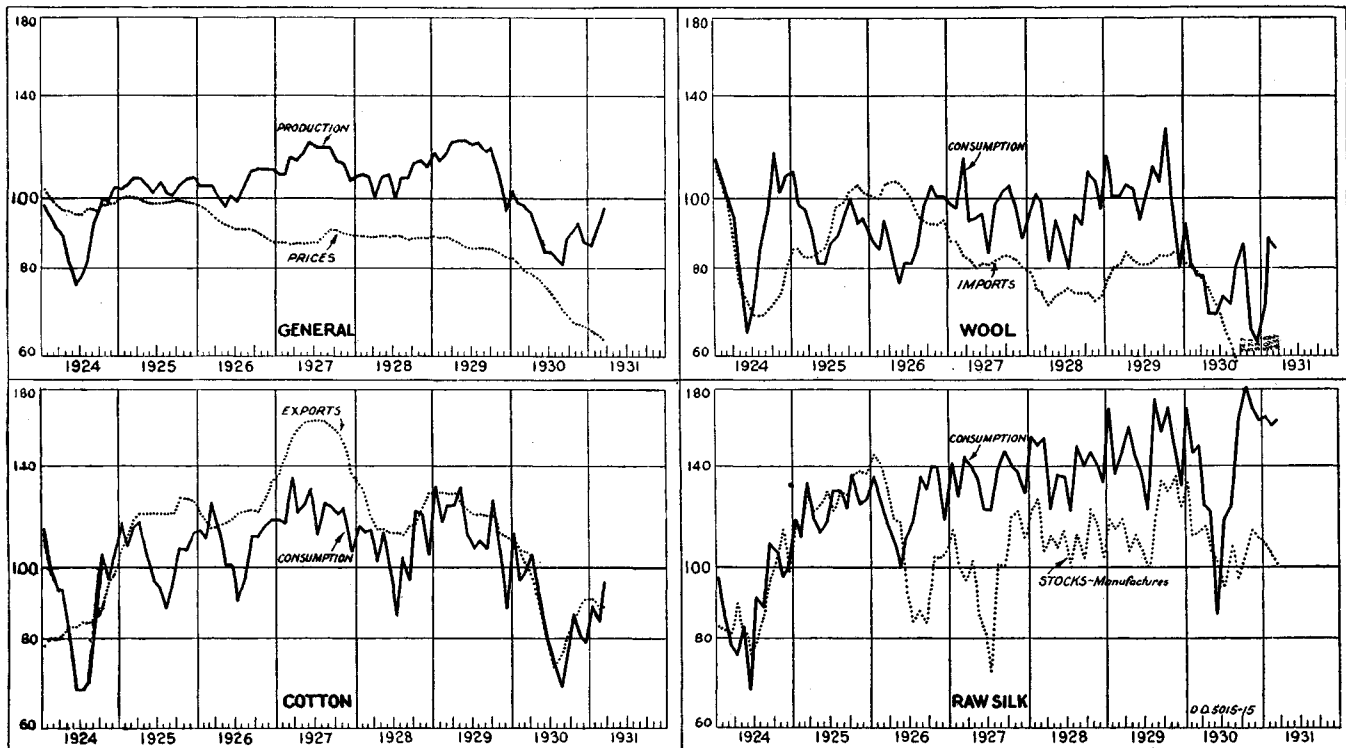
Receipts of raw cotton during March totaled 446,847 bales, a drop of 66,560 bales from the total February receipts. In 1929 and 1930 an increase in receipts was

recorded for the same period. The total March receipts of cotton were 35,332 bales less than receipts reported for March, 1930, and were 295,845 bales under the receipts during March, 1929. Stocks of raw cotton at the end of March were 2,164,158 bales or 36.4 per cent above the stocks on hand at the close of March, 1930, and 3,213,785 bales or 65.6 per cent over those of March, 1929. Consumption of raw cotton by textile mills during March was 3.4 per cent under that of March, 1930, and 22.4 per cent under the figure for 1929. Spindle activity in the cotton industry was about 14.6 per cent over February but was 4.7 per cent under March of the year previous.

The consumption of silk during March increased by 1,141 bales, or 2.1 per cent over February. This consumption of silk was 8.9 per cent under that reported for March, 1930. Stocks of silk in the warehouses at the close of March were 47,407 bales, or 4.4 per cent above the stocks on hand at the close of February.

### THE TEXTILE INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. March, 1931, is latest month plotted. Curves covering imports of wool and exports of cotton are plotted from 12 months' moving monthly average plotted on the end month]



**METALS**

Ice conditions prevented the shipment of iron ore from the upper Great Lakes ports during March. This is a normal seasonal condition. Stocks of iron ore at the close of March were 8 per cent below the stocks at the close of February, but were 26.6 per cent over those at the close of March, 1930. The consumption of iron ore by furnaces totaled 2,835,000 long tons, against 2,368,000 long tons in February and 4,628,000 long tons in March, 1930.

Pig-iron production during March witnessed an increase over February, but it was of considerably smaller proportions than is usual for this period. The total production of 2,032,000 long tons during March was 19 per cent over that of February, but was 37.4 per cent under the March production in 1930.

The output of steel ingots registered an increase of 19.6 per cent over February, but was 29.7 per cent under March, 1930. The ratio of total steel-ingot production to capacity declined to 55 per cent during March, as against 83 per cent for March, 1930. Steel furnaces in blast at the end of March totaled 116, with a capacity of 67,880 long tons per day. At the close of March, 1930, a total of 185 furnaces were in blast, with a total capacity of 106,080 long tons per

day. Unfilled orders of the United States Steel Corporation at the close of March increased by 0.8 per cent over the figure at the close of February, but were 12.6 per cent below the level of orders for March of the previous year.

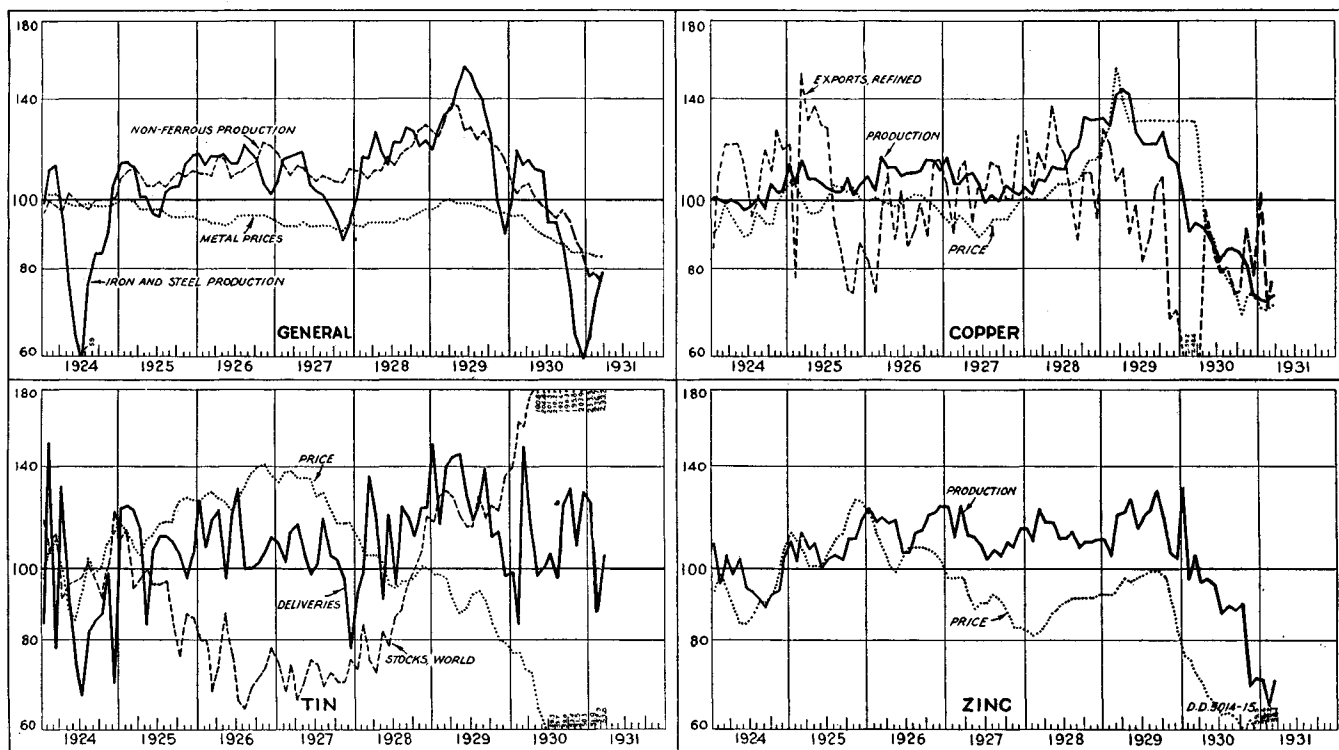
Refined copper production increased by 2.2 per cent from the February output but was 19.7 per cent under that of March, 1930. Domestic shipments of refined copper increased by 14,049 short tons over February and were 1,041 short tons over shipments of the previous year. Stocks of refined copper in North and South America decreased slightly from the previous month but were 38.4 per cent above the stocks at the close of March, 1930. Zinc production was over that of February but was considerably under March last year.

Domestic receipts of gold at the mint decreased during March and were 3 per cent under the February receipts, but were 15.4 per cent over the receipts during March, 1930. The imports of gold increased during March by 58.8 per cent in respect to February, but were 53.9 per cent under March last year.

Silver production in the United States increased by 11.8 per cent in respect to February, but was 28.8 per cent under March, 1930.

**THE METAL INDUSTRIES**

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





**AUTOMOBILES**

Automobile production showed a continuation of the upward trend, the March production being the largest since June, 1930. The output included 230,835 passenger cars, 45,096 trucks, and 410 taxicabs, representing an increase of 56,402 vehicles over February. The current March total compared with 396,388 in March, 1930, and 585,455 in March, 1929. Increased production in March, although due in large part to seasonal causes, reflects a substantial pick-up in the actual demand for cars. An increase also was shown in Canadian automotive output, the March figure being the largest since June last year.

**CONSTRUCTION AND LUMBER**

The volume of contracts awarded for new construction and engineering projects increased in value materially during March, the figure being the largest since June last year. The number of projects and the floor space involved were also materially above those of February. The value of contracts awarded for all types of construction was 57.2 per cent above that of February. The value of contracts awarded for residential buildings increased by 29.6 per cent in

respect to February, and the value of non residential building contracts increased by 48.8 per cent.

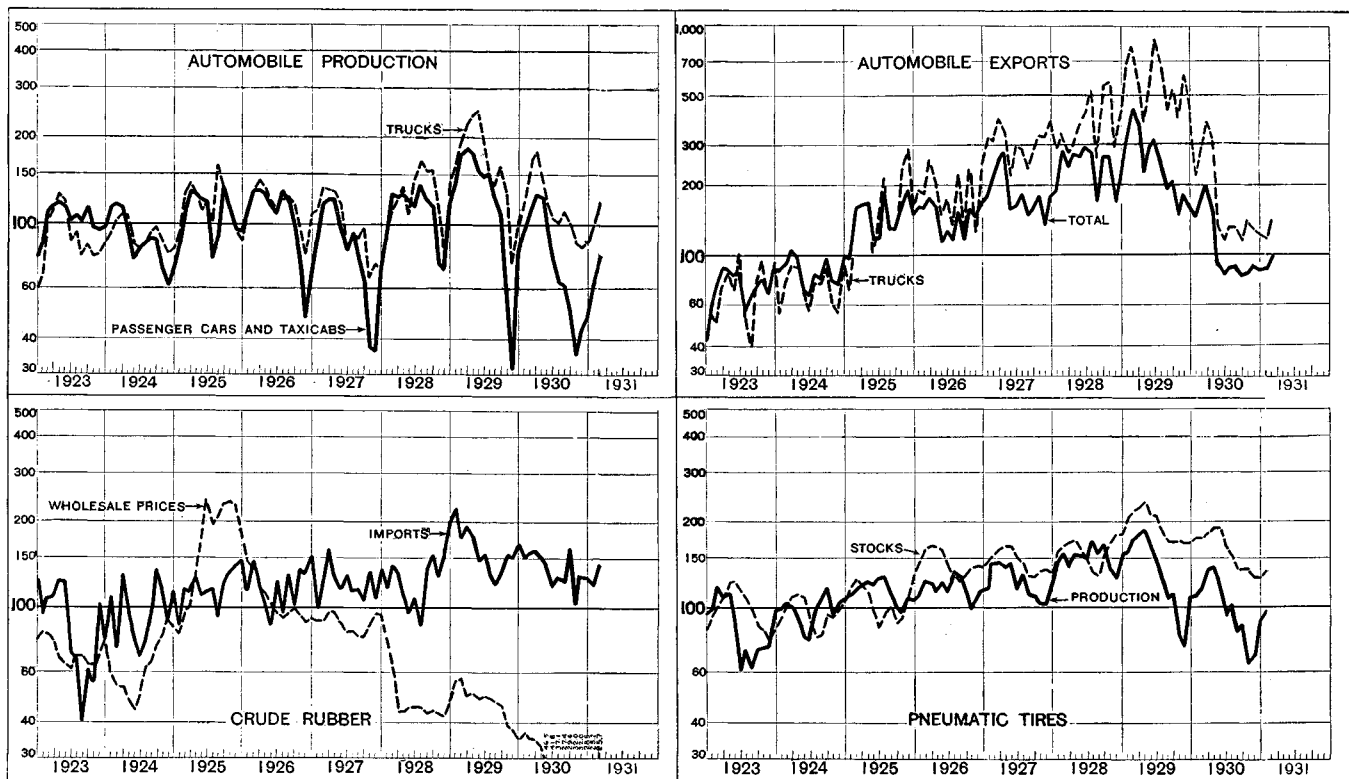
Construction costs decreased slightly during the month and were still about 6 per cent under those for the corresponding period in 1930. Fire losses in the United States and Canada in March were 5.5 per cent larger than in February, and were 2.5 per cent greater than in March, 1930.

**STONE, CLAY, AND GLASS**

Portland cement production showed an increase in volume of 39 per cent from the February output—an increase somewhat less than that recorded during the same period last year. The March production was 26.7 per cent under that of March, 1930. Production and shipments of face brick showed increases from the February level, but both were above March last year. The volume of unfilled orders was slightly under February, but was 40 per cent under that of March, 1930. Stocks of face brick on hand at the close of March declined slightly and were some 13.9 per cent under the stocks reported at the close of March, 1930. Orders for terra cotta declined from both periods, the value declining 45.6 per cent from March, 1930.

**THE AUTOMOBILE AND RUBBER INDUSTRIES**

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



**FUELS**

The production of bituminous coal in the United States registered an increase of 7.9 per cent from the February output, but was 2.4 per cent lower than during March, 1930. Anthracite production decreased seasonally during March, being 12 per cent under the output of February and 16.2 per cent under that of March last year. The drop in anthracite production this year, from February to March, however, was only 646,000 short tons, while in 1930 the decreased production for the same period amounted to 1,577,000 short tons.

Production of beehive coke in the United States decreased by 8.6 per cent during March in respect to February, and the production was about 48.8 per cent under that reported for March, 1930.

**HIDES AND LEATHER**

The production of hides, as shown by the number of cattle and sheep slaughtered under Federal inspection, increased during March. Production of cattle skins was less than in March, 1930, while the number of sheepskins exceeded the year previous. In Canada increases were recorded over February, and production during the current March exceeded that of March last year.

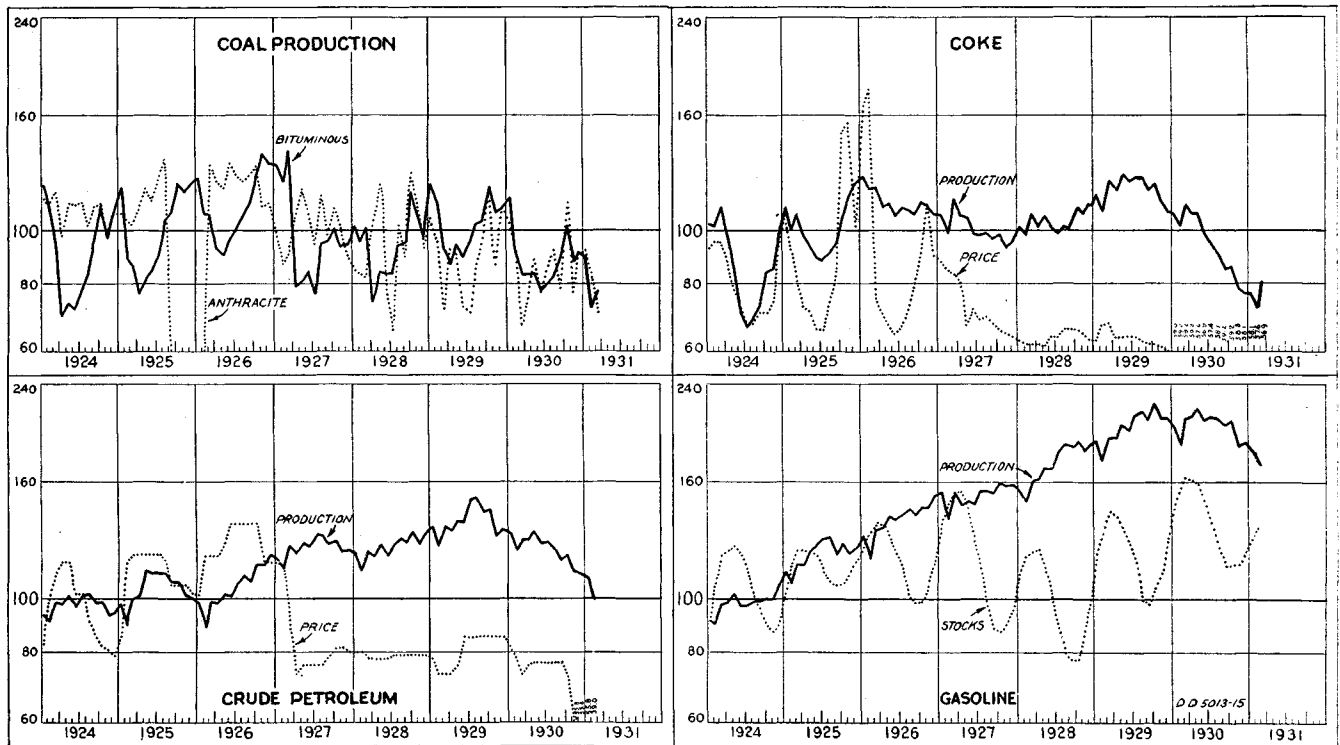
Wholesale prices of hides increased during March as compared with February, but were still 36.6 per cent under those of March, 1930. The price of sole leather was the same as for February, but was 24.5 per cent under the price quoted during March of the year previous. Wholesale prices of men's shoes remained on the same plane as reported for previous months and for March, 1930.

**PAPER AND PRINTING**

Shipments of newsprint paper in the United States during March were greater than in February, but were under those of March last year. Canadian shipments were over those of February but under last year. Production in the United States increased 13.3 per cent from the month of February, but was 2.4 per cent under that of the year previous. Canadian production during March was 13.6 per cent over the February figure, but was 9.9 per cent under the figure for March, 1930. Stocks at the mills in the United States and Canada combined, at the close of March, were slightly under those at the close of February, but were 15 per cent over the stocks at the close of March last year. The price of newsprint paper remained the same as for the past several months.

**THE FUEL INDUSTRIES**

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



## FOODSTUFFS

Receipts, shipments, and local slaughter of cattle and calves increased over the month of February and were of about the same proportions as for March, 1930. The production of Federally inspected beef and veal rose above the February figure. Cold-storage holdings of these products at the end of March decreased by 10.2 per cent from those of the previous month, and were 32 per cent under those of the year previous.

The visible supply of wheat in the United States increased slightly from the preceding month, while the Canadian visible supply decreased slightly. The United States figure was 35.2 per cent above that of March, 1930, and the Canadian figure was 6.5 above last year. The visible supply of corn was greater than in February and was 12.5 per cent over that of March, 1930. Grindings of corn decreased slightly during March in respect to February and were 10.3 per cent under March last year.

Cold-storage holdings of butter showed a loss of 41.2 per cent from those at the close of February and were 41.1 per cent smaller than holdings of the year previous. The amount of cheese held in cold storage also decreased from the February holdings but was only slightly below the amount reported at the close of March, 1930.

The visible supply of coffee at the close of March was greater than at the close of the month previous. Receipts of coffee in Brazil were less than for February but were 23.8 per cent over those during March, 1930. The clearances of coffee from Brazil were slightly less than for February, but were 33.4 per cent above those of March last year.

Car-lot shipments of apples declined by 19.9 per cent from those of February, but were still 10.3 per cent above the figure for March 1930. Onions in car-lot shipments were 4.9 per cent under February, but shipments of citrus fruit increased seasonally by 25.7 per cent in comparison with February. Potato shipments were materially above those of February and exceeded those of March, 1930.

## TRANSPORTATION

The Cape Cod Canal reported a slightly decreased volume of traffic during March as compared with February, but was in excess of the traffic during March,

1930. Traffic on inland canals in northern climates was entirely at a standstill owing to seasonal weather conditions. Freight-car loadings by the railroads, as a whole, were 3.7 per cent greater than during February, but were 16.4 per cent under the total loadings reported for March, 1930. Shipments of locomotives by manufacturers declined to 10 in number as against 70 in March, 1930. Shipments of new freight cars by manufacturers decreased from February and were only 12.4 per cent of the shipments for March, 1930.

## BANKING AND FINANCE

Bank debits outside New York City were 31.7 per cent above those of the previous month but were 32.3 per cent lower than for March, 1930. Total loans and discounts by Federal reserve member banks at the close of March showed a slight decrease from February, and were 8.8 per cent under the figure reported for March, 1930. Total dividends and interest payments made by corporations during March exceeded those of February and exceeded the amount reported for March, 1930, by 20 per cent. Brokers' loans at the end of the month were slightly greater than at the end of the month of February, but were 59 per cent under those at the close of March last year. Interest rates on call-loan renewals showed a slight increase from the February rate, and rates on 60 to 90 day commercial paper also increased during the month.

More business firms failed during March than during the previous month, and the liabilities were also greater than for the month previous. Both items were above last year.

Gold receipts at the United States mint were slightly less than for February but exceeded those reported for March, 1930, by 15.4 per cent. Gold exports were about double those of February, but were materially under such exports for March, 1930. Silver production in the United States during March registered an increase over the preceding February but was substantially under the 1930 production.

Foreign exchange quotations in general showed little change from February, there being a slight advance in rates for the Indian rupee and the Argentine gold peso. Declines in rates were registered for the Brazilian milreis and for the Swiss franc. Exchange rates for other countries were the same as for March, 1930.

GRAY IRON CASTINGS <sup>1</sup>

Month	(Average tons per foundry)									
	1929					1930				
	Production	New business	Unfilled orders	Material received	Material on hand	Production	New business	Unfilled orders	Material received	Material on hand
January.....	288.3	300.1	299.6	276.5	400.1	177.5	164.5	107.7	194.8	319.5
February.....	260.2	264.2	252.3	299.0	369.5	190.5	209.2	165.7	216.1	333.2
March.....	301.8	277.7	253.5	337.4	411.4	199.9	187.2	121.5	214.7	321.4
April.....	308.2	229.4	386.3	329.9	387.2	191.5	170.5	121.0	213.7	296.4
May.....	283.2	216.4	191.5	298.8	377.8	173.7	142.5	101.8	182.0	297.1
June.....	236.2	191.5	161.0	254.8	362.8	149.2	120.8	84.7	157.6	289.1
July.....	262.5	233.4	178.8	272.3	330.2	131.5	110.0	72.1	127.6	323.7
August.....	270.2	245.7	187.5	316.2	356.8	126.9	107.6	103.7	141.2	267.7
September.....	291.0	211.5	151.7	276.0	345.0	135.2	99.5	84.5	149.8	253.8
October.....	259.4	209.6	142.8	283.6	323.7	136.9	97.5	56.3	142.1	292.3
November.....	207.4	150.1	116.4	228.1	312.0	105.9	77.0	53.3	135.2	260.4
December.....	177.8	135.8	106.7	201.0	345.6	103.4	101.0	79.8	112.3	272.5

<sup>1</sup> Compiled by the Gray Iron Institute, "Inc.," Cleveland, Ohio.

SALES OF THE GREAT ATLANTIC & PACIFIC TEA CO. <sup>1</sup>

YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES		YEAR AND MONTH	SALES (Thousands of dollars)			TONNAGE SALES	
	Total	Number of weeks	Weekly average	Total	Weekly average		Total	Number of weeks	Weekly average	Total	Weekly average
<b>1928</b>						<b>1930</b>					
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	391,987	97,997
December.....	74,911	4	18,728	345,595	86,399	April.....	86,138	4	21,534	399,211	99,803
<b>1929</b>						<b>1931</b>					
January.....	91,983	5	18,397	425,590	85,118	January.....	97,559	5	19,512	508,490	101,980
February.....	85,846	4	21,462	396,225	99,056	February.....	82,385	4	20,596	439,545	109,886
March.....	77,712	4	19,428	363,786	90,947	March.....	82,719	4	20,680	405,292	108,823
April.....	77,324	4	19,331	359,129	89,782	April.....					
May.....	97,319	5	19,464	451,680	90,336	May.....					
June.....	76,653	4	19,163	353,289	88,322	June.....					
July.....	93,671	5	18,734	427,431	85,486	July.....					
August.....	75,191	4	18,798	335,628	83,907	August.....					
September.....	75,246	4	18,811	336,309	84,077	September.....					
October.....	105,995	5	21,199	468,258	93,102	October.....					
November.....	83,714	4	20,928	381,106	95,277	November.....					
December.....	87,260	4	21,815	407,339	101,835	December.....					

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

INDEXES OF EMPLOYMENT AND PAY-ROLL TOTALS <sup>1</sup>

[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 <sup>2</sup>		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
<b>1929</b>																						
October.....	106.1	133.9	98.8	106.8	101.9	103.1	103.6	105.8	101.9	105.1	105.7	106.0	100.5	100.0	102.9	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	98.6	96.0	101.9	101.2	104.7	104.1	99.4	98.4	102.9	101.9	106.7	105.2	100.0	99.8	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	98.3	99.8	102.6	104.7	126.2	120.6	97.7	98.9	61.3	63.4
<b>Average.....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>1930</b>																						
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	97.9	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	90.3	90.9	99.8	103.4	104.6	107.8	94.8	97.0	96.5	96.6	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	106.6	105.9	106.7	95.3	95.6	96.0	96.0	89.0	91.7	101.3	99.8	126.3	112.7
August.....	80.2	78.8	89.2	71.1	79.0	71.0	89.3	85.8	98.8	102.5	106.4	106.6	92.1	95.0	93.6	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	68.9	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	83.9	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	83.6	92.0	91.3	115.1	107.7	93.5	91.5	61.6	57.4
<b>Average.....</b>	<b>93.4</b>	<b>95.3</b>	<b>93.4</b>	<b>81.3</b>	<b>83.2</b>	<b>78.0</b>	<b>84.3</b>	<b>79.3</b>	<b>97.9</b>	<b>102.9</b>	<b>103.0</b>	<b>104.3</b>	<b>93.4</b>	<b>93.5</b>	<b>96.0</b>	<b>95.9</b>	<b>95.9</b>	<b>96.2</b>	<b>99.2</b>	<b>98.5</b>	<b>103.9</b>	<b>96.1</b>
<b>1931</b>																						
January.....	90.6	89.3	93.9	73.3	68.3	55.0	64.4	50.4	90.5	96.3	99.2	98.6	86.9	85.6	89.5	87.5	90.0	89.4	95.0	91.0	48.9	46.1
February.....	91.0	100.7	91.5	68.3	65.3	54.6	66.6	54.4	89.2	94.8	97.8	99.7	86.6	87.1	88.2	88.4	87.1	86.8	93.7	48.3	48.6	
March.....	81.2	70.1	88.8	65.2	63.5	52.8	70.0	58.2	88.6	97.9	96.7	102.4	86.4	88.1	87.4	89.1	87.8	87.5	96.8	93.4	53.0	50.3

<sup>1</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics.

<sup>2</sup> Not including car building and repairing, electric railroads; see vehicles group, manufacturing industries, page 14, et seq.



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 semi-annual 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 these explanations. For later weekly and monthly data which have become available since these data were compiled, see recent Weekly Supplements.

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Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>GENERAL INDUSTRIAL INDEXES</b>													
<b>INDUSTRIAL PRODUCTION</b>													
<b>Federal Reserve Board</b>													
Total unadjusted.....rel. to 1923-25..	90	88	82	78	85	90	93	90	91	99	106	108	107
Total adjusted.....rel. to 1923-25..	88	86	82	82	85	87	91	91	95	100	104	107	104
Manufactures, total unadjusted.....rel. to 1923-25..	91	89	81	76	84	88	91	89	90	99	106	111	110
Manufactures, total adjusted.....rel. to 1923-25..	88	86	81	80	84	85	90	91	94	100	105	107	106
Automobiles.....rel. to 1923-25..	67	68	63	85	74	49	62	62	75	90	101	102	98
Cement.....rel. to 1923-25..	81	80	84	83	86	97	111	117	116	119	119	108	111
Food products.....rel. to 1923-25..	87	92	93	89	94	94	96	91	94	93	98	97	90
Iron and steel.....rel. to 1923-25..	79	73	64	59	65	75	86	93	93	110	111	114	113
Leather and shoes.....rel. to 1923-25..	90	87	77	81	80	89	95	95	95	97	98	103	99
Nonferrous metals.....rel. to 1923-25..	77	79	78	85	87	95	97	96	97	96	101	106	104
Paper and printing.....rel. to 1923-25..	109	109	105	101	103	107	109	109	111	116	119	121	120
Petroleum refining.....rel. to 1923-25..	152	149	144	149	151	160	165	164	166	170	173	174	168
Polished plate glass.....rel. to 1923-25..	119	111	90	65	91	101	95	65	105	114	143	131	117
Rubber tires.....rel. to 1923-25..	98	94	88	73	77	88	84	96	93	119	121	123	105
Textiles.....rel. to 1923-25..	97	93	86	87	93	91	88	81	84	84	90	96	98
Tobacco manufactures.....rel. to 1923-25..	131	132	121	128	119	129	125	130	137	141	134	136	128
Minerals, total unadjusted.....rel. to 1923-25..	82	84	86	89	95	104	100	101	100	103	102	93	91
Minerals, total adjusted.....rel. to 1923-25..	88	88	90	94	92	98	94	96	97	100	103	104	96
Anthracite.....rel. to 1923-25..	72	89	93	83	83	105	80	88	82	78	81	73	69
Bituminous coal.....rel. to 1923-25..	76	73	77	85	86	87	85	82	86	89	92	97	81
Copper.....rel. to 1923-25..	70	76	72	76	83	83	89	84	83	86	90	90	88
Crude petroleum.....rel. to 1923-25..	113	110	110	111	114	115	114	117	120	124	127	128	125
Iron-ore shipments.....rel. to 1923-25..					51	74	79	96	95	108	104		
Lead.....rel. to 1923-25..	79	82	83	92	83	94	101	106	103	99	104	111	107
Silver.....rel. to 1923-25..		62	68	71	73	70	73	70	69	75	80	88	89
Zinc.....rel. to 1923-25..	65	65	65	68	70	90	93	94	91	99	94	94	96
<b>INDUSTRIAL PRODUCTION</b>													
<b>Rate of Electrical Energy Consumed</b>													
Activity by geographic sections:													
United States.....rel. to 1923-25..	108.2	110.3	97.6	99.1	105.4	103.2	110.7	106.9	105.1	115.3	119.0	120.3	120.2
New England.....rel. to 1923-25..	105.8	105.5	90.2	86.3	96.3	93.2	88.1	87.1	87.9	94.2	101.3	105.9	105.0
North Central.....rel. to 1923-25..	105.7	109.0	100.2	99.0	100.6	107.3	110.6	112.0	109.9	116.0	125.8	125.7	128.4
Middle Atlantic.....rel. to 1923-25..	102.8	108.0	96.6	97.5	103.5	99.6	103.1	94.3	102.9	111.8	112.3	117.2	122.2
Southern.....rel. to 1923-25..	117.5	130.6	105.8	116.4	113.4	118.4	120.1	110.2	106.5	119.5	122.3	117.3	121.7
Western.....rel. to 1923-25..	115.7	120.0	111.0	99.9	121.3	116.1	130.9	125.0	129.0	135.0	130.5	127.6	117.4
Activity by industries:													
All industry.....rel. to 1923-25..	108.2	110.3	97.6	99.1	104.3	103.2	110.7	106.9	105.1	115.3	119.0	120.3	120.2
Automobiles, including repair parts.....rel. to 1923-25..	94.1	88.9	67.5	71.5	74.9	80.9	88.4	86.6	75.3	102.9	105.8	112.9	108.9
Food and kindred products.....rel. to 1923-25..	116.8	122.0	118.3	107.1	124.4	137.2	148.6	141.2	139.2	145.4	138.2	119.4	129.8
Leather and its products.....rel. to 1923-25..	71.2	76.1	71.6	68.7	63.0	84.9	73.5	87.7	97.3	96.8	66.3	91.2	80.8
Lumber and its products.....rel. to 1923-25..	93.2	84.2	82.6	73.3	86.5	77.1	105.6	97.7	100.0	107.3	102.4	102.8	93.7
Metals group.....rel. to 1923-25..	112.2	114.0	97.4	102.3	99.5	101.2	101.4	100.3	100.5	110.0	123.2	130.2	133.7
Metal working plants.....rel. to 1923-25..	103.5	112.3	95.0	97.8	89.6	87.0	97.4	95.2	95.1	106.8	116.3	125.5	132.0
Rolling mills and steel plants.....rel. to 1923-25..	119.4	116.5	103.4	110.2	106.5	126.0	110.3	112.0	109.7	115.2	135.1	138.5	136.8
Paper and pulp.....rel. to 1923-25..	123.0	127.0	111.8	117.0	112.3	120.0	119.3	115.1	119.9	137.5	132.2	126.7	135.0
Rubber and its products.....rel. to 1923-25..	109.6	112.9	106.5	84.3	95.3	99.0	107.2	110.5	103.8	104.8	135.3	138.5	130.3
Shipbuilding.....rel. to 1923-25..	98.3	114.8	113.9	99.0	105.5	121.5	124.1	122.8	116.8	111.8	113.2	130.1	117.7
Stone, clay and glass.....rel. to 1923-25..	105.1	102.6	75.3	100.6	106.2	106.3	120.5	118.2	110.8	136.5	121.2	129.9	117.9
Textiles.....rel. to 1923-25..	97.3	99.3	86.4	89.8	87.0	85.4	85.1	72.5	79.7	95.3	96.0	102.3	99.6
New orders, total.....rel. to 1923-25..	53.8	46.6	48.3	48.6	48.7	56.6	59.7	63.8	60.0	59.4	65.3	66.4	71.4
Stocks, total.....rel. to 1923-25..	151.1	153.8	156.8	163.7	161.8	157.2	144.6	132.3	125.4	124.9	130.8	134.5	141.6
Unfilled orders, total.....rel. to 1923-25..	60.8	60.2	61.8	61.8	58.7	58.6	63.0	65.3	74.5	75.9	78.1	78.1	82.2



MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22, to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	WHOLESALE PRICES—Continued												
<b>COMMODITY PRICES—Continued</b>													
Iron and steel, metals and metal products.....rel. to 1926..	89.0	88.9	89.3	90.0	90.2	90.4	91.8	92.7	94.3	95.4	96.8	98.8	100.0
Iron, raw:													
Basic (valley furnace).....dolls. per long ton..	16.50	16.75	17.00	17.00	17.00	17.00	17.60	18.00	18.10	18.50	18.50	18.50	18.50
Basic (valley furnace).....rel. to 1926..	89.0	90.3	91.7	91.7	91.7	91.7	94.9	97.0	97.6	99.7	99.7	99.7	99.7
Composite pig iron.....dolls. per long ton..	16.72	16.82	16.94	17.01	17.14	17.30	17.79	17.99	18.22	18.55	18.66	18.75	8.77
Foundry No. 2, northern.....dolls. per long ton..	18.26	18.51	18.76	18.76	18.76	18.89	19.56	19.76	19.86	20.26	20.26	20.26	20.26
Foundry No. 2, northern.....rel. to 1926..	88.6	89.8	91.0	91.0	91.0	91.6	94.9	95.8	96.3	98.3	98.3	98.3	98.3
Lard, prime contract, New York.....dolls. per lb..	.094	.085	.090	.100	.112	.119	.119	.114	.100	.102	.107	.107	.107
Lead, pig, desilverized, New York.....dolls. per lb..	.0453	.0455	.0480	.0510	.0510	.0515	.0550	.0549	.0525	.0541	.0552	.0554	.0566
Lead, pig, desilverized, New York.....rel. to 1926..	53.8	54.0	57.0	60.6	60.6	61.2	65.3	65.2	62.4	64.3	65.6	65.8	67.2
Leather, composite, wholesale price.....rel. to 1926..	88.4	89.0	90.8	91.5	93.3	96.7	98.2	99.9	100.1	102.9	104.2	105.3	107.4
Leather, sole and belting, oak, and scoured backs.....dolls. per lb..	.37	.37	.38	.40	.41	.41	.44	.46	.46	.44	.46	.47	.49
Leather, sole and belting, oak, and scoured backs.....rel. to 1926..	84.4	83.3	86.7	91.3	93.5	93.5	100.4	104.9	104.9	100.4	104.9	107.2	111.8
Leather, upper, composite, chrome, calf black, "B" grade.....dolls. per sq. ft..	.352	.354	.359	.355	.367	.372	.372	.371	.371	.371	.371	.372	.379
Leather, hides (see under hides).													
Leather, shoes (see under shoes).													
Linseed oil, New York.....dolls. per lb..	.095	.092	.088	.092	.094	.099	.105	.131	.140	.140	.140	.143	.140
Lumber:													
Composite, wholesale price.....rel. to 1926..	74.2	73.2	76.0	78.1	80.1	80.2	80.8	81.1	83.3	85.3	89.7	91.8	91.6
Southern yellow pine.....dolls. per M ft. b. m..	29.66	28.42	30.73	32.51	33.44	34.01	33.48	31.72	33.89	33.06	36.53	36.39	37.20
Southern yellow pine.....rel. to 1926..	65.8	63.0	68.1	72.1	74.1	75.4	74.2	70.3	75.1	73.3	81.0	80.7	82.5
Douglas fir, No. 1, common.....dolls. per M ft. b. m..	12.68	12.86	12.82	12.99	13.25	12.98	13.14	13.44	14.47	14.30	15.16	16.26	16.75
Douglas fir, flooring, 1 x 4, "B" and better (V. G. Washington).....dolls. per M ft. b. m..	31.14	31.65	31.33	31.73	33.40	33.77	34.58	35.65	36.57	36.94	38.19	38.87	41.12
Meats:													
Beef, fresh, carcass, good native steers, Chicago.....dolls. per lb..	.169	.178	.195	.195	.195	.195	.191	.168	.174	.195	.215	.239	.240
Beef, fresh, carcass, good native steers, Chicago.....rel. to 1926..	102.8	108.1	118.8	118.8	118.8	118.8	116.1	102.4	105.7	118.8	130.9	145.4	146.2
Beef, fresh, carcass, steers, New York.....dolls. per lb..	.180	.196	.205	.205	.205	.205	.203	.173	.177	.218	.220	.220	.215
Beef, fresh, carcass, steers, New York.....rel. to 1926..	105.4	115.0	120.1	120.1	120.1	120.1	118.6	101.1	103.7	127.4	128.9	128.9	126.0
Cattle, corn-fed, Chicago.....dolls. per 100 lbs..	9.075	9.108	10.00	10.58	10.31	10.31	9.97	10.33	9.14	9.28	10.73	11.66	12.80
Cattle, corn-fed, Chicago.....rel. to 1926..	95.2	95.6	105.0	111.0	108.2	104.6	108.4	95.9	97.4	112.6	121.3	131.8	134.3
Hogs, heavy, Chicago.....dolls. per 100 lbs..	7.18	6.73	7.34	7.94	8.86	9.86	10.58	9.78	8.94	9.68	10.02	9.98	9.83
Hogs, heavy, Chicago.....rel. to 1926..	58.2	54.5	59.5	64.8	71.8	79.9	85.8	79.2	72.5	78.4	81.2	80.9	79.6
Sheep, ewes, Chicago.....dolls. per cwt..	3.79	3.69	3.44	2.93	3.38	3.84	3.08	3.09	3.06	3.45	4.78	5.13	5.14
Sheep, ewes, Chicago.....rel. to 1926..	57.5	55.9	52.1	44.4	51.2	48.1	46.0	46.9	46.5	52.3	72.5	77.7	77.9
Sheep, lambs, Chicago.....dolls. per lb..	8.27	8.31	7.98	7.40	7.13	7.03	7.35	7.72	8.13	9.73	9.04	8.94	9.73
Sheep, lambs, Chicago.....rel. to 1926..	60.4	60.7	58.3	54.0	52.0	51.3	53.6	56.3	59.3	71.0	66.0	65.2	71.0
Pork, hams, smoked, Chicago.....dolls. per lb..	.187	.195	.207	.213	.222	.221	.227	.229	.230	.233	.228	.229	.243
Pork, hams, smoked, Chicago.....rel. to 1926..	60.7	63.5	67.1	69.2	72.1	71.7	73.8	74.4	74.7	75.6	73.9	74.4	78.8
Western dressed steers, New York.....dolls. per lb..	.180	.196	.205	.205	.205	.205	.203	.173	.177	.218	.220	.220	.215
Methanol:													
Refined, New York.....dolls. per gal..	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.43
Milk, condensed, New York.....dolls. per case..	5.65	5.79	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.13	6.13	6.13	6.13
Milk, evaporated.....dolls. per case..	96.5	98.8	3.75	3.80	3.80	3.80	3.80	3.74	3.69	3.95	3.95	3.95	3.95
Nonferrous metals.....rel. to 1926..	67.1	66.1	67.4	69.7	68.4	67.8	71.2	72.7	73.5	78.1	80.6	90.5	98.6
Oats:													
No. 3, white, Chicago.....dolls. per bush..	.31	.32	.32	.34	.33	.36	.38	.39	.35	.38	.41	.43	.43
No. 3, white, Chicago.....rel. to 1926..	75.6	78.0	78.0	82.9	80.5	87.8	92.7	95.1	85.4	92.7	100.0	104.9	104.9
Oils and fats.....rel. to 1927..	71	68	71	73	73	74	78	87	88	89	92	94	92
Oleomargarine, standard, uncolored, Chicago.....dolls. per lb..	.145	.155	.177	.190	.205	.205	.205	.205	.205	.228	.235	.235	.235
Oleomargarine, standard, uncolored, Chicago.....rel. to 1926..	63.5	67.9	77.6	83.3	89.8	89.8	89.8	89.8	89.8	99.7	103.0	103.0	103.0
Paper, newsprint roll, delivered, New York.....dolls. per 100 lbs..	3.10	3.10	3.10	3.10	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Paper, newsprint roll, delivered, New York.....rel. to 1926..	89.9	89.9	89.9	89.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
Petroleum:													
Crude, Kansas-Oklahoma.....dolls. per bbl..	.594	.850	.850	.850	.850	1.098	1.178	1.178	1.178	1.178	1.178	1.163	1.110
Crude, Kansas-Oklahoma.....rel. to 1926..	31.5	45.1	45.1	45.1	45.1	58.3	62.5	62.5	62.5	62.5	62.5	61.7	58.9
Gas and fuel oils, Oklahoma 24-26, refineries.....dolls. per bbl..	.510	.588	.600	.610	.650	.594	.580	.600	.625	.675	.744	.788	.805
Gasoline, New York.....dolls. per gal..	.133	.138	.135	.141	.141	.143	.148	.163	.163	.163	.163	.151	.143
Kerosene, 150° water white.....dolls. per gal..	.051	.053	.054	.054	.053	.054	.053	.050	.052	.055	.060	.063	.064
Lubricating oil, cylinder.....dolls. per gal..	.145	.146	.165	.172	.184	.186	.190	.193	.210	.284	.340	.343	.345
Pig iron, foundry No. 2, Pittsburgh.....dolls. per long ton..	18.26	18.51	18.76	18.76	18.76	18.89	19.56	19.76	19.86	20.26	20.26	20.26	20.26
Pig iron, foundry No. 2, Pittsburgh.....rel. to 1926..	88.6	89.8	91.0	91.0	91.0	91.6	94.9	95.8	96.3	98.3	98.3	98.3	98.3
Potatoes.....dolls. per bush..	.849	.867	.903	.898	.950	1.017	1.099	1.088	1.294	1.486	1.502	1.461	1.367
Potatoes.....rel. to 1926..	46	47	49	48	51	55	59	59	70	80	81	79	74
Rayon, 150 denier "A" grade, New York.....dolls. per lb..	.75	.75	.75	.95	.95	.95	.95	.95	.95	1.15	1.15	1.15	1.15
Rosin, gum "B," New York.....dolls. per bbl..	4.64	4.38	4.45	4.95	5.29	5.54	5.80	5.39	5.90	6.50	6.34	6.78	7.26
Rubber, crude, smoked sheets, New York.....dolls. per lb..	.077	.076	.082	.089	.089	.084	.080	.100	.111	.124	.142	.150	.153

MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
WHOLESALE PRICES—Continued													
<b>COMMODITY PRICES—Continued</b>													
Rubber, crude, smoked sheets, New York.....rel. to 1926	15.9	15.7	16.9	18.4	18.4	17.3	16.5	20.6	22.9	25.6	29.3	30.9	31.5
Rye, No. 2, Minneapolis.....dolls. per bush	.36	.37	.38	.44	.43	.49	.55	.60	.55	.57	.65	.68	.66
Rye, No. 2, Minneapolis.....rel. to 1926	39.1	40.2	41.3	47.8	46.7	53.3	59.8	65.2	59.9	62.0	70.7	73.9	71.7
Sheeps, ewes, Chicago.....dolls. per 100 lbs	3.79	3.69	3.44	2.93	3.38	3.84	3.08	3.09	3.06	3.45	4.78	5.13	5.14
Sheep, ewes, Chicago.....rel. to 1926	57.5	55.9	52.1	44.4	51.2	43.1	46.6	46.9	46.5	52.3	72.5	77.7	77.9
Sheep, lambs, Chicago.....dolls. per 100 lbs	8.27	8.31	7.98	7.40	7.13	7.03	7.35	7.72	8.13	9.73	9.04	8.94	9.73
Sheep, lambs, Chicago.....rel. to 1926	60.4	60.7	58.3	54.0	52.0	51.3	53.6	56.3	59.3	71.0	66.0	65.2	71.0
Shoes, men's black calf blucher, Boston.....dolls. per pair	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75
Shoes, men's black calf blucher, Boston.....rel. to 1926	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
Shoes, men's dress welt, tan calf, oxford, St. Louis.....dolls. per pair	4.60	4.60	4.60	4.72	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85
Shoes, men's dress welt, tan calf, oxford, St. Louis.....rel. to 1926	95.0	95.0	95.0	97.3	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2
Shoes, women's black kid, dressed oxford welt, lace.....dolls. per pair			3.66	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Silk, raw, Japanese, 13-15, New York.....dolls. per lb	2.561	2.709	2.807	2.709	2.463	2.512	2.413	2.955	2.955	3.251	3.940	4.186	4.531
Silk, raw, Japanese, 13-15, New York.....rel. to 1926	41.3	43.7	45.3	43.7	39.8	40.6	39.0	47.7	47.7	52.5	63.6	67.6	73.1
Silk goods, composite.....dolls. per yd	.99	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.08	1.09	1.11	1.14	1.16
Steel beams, mill, Pittsburgh.....dolls. per cwt	1.65	1.65	1.63	1.60	1.60	1.60	1.60	1.65	1.65	1.70	1.80	1.80	1.80
Steel beams, mill, Pittsburgh.....rel. to 1926	84.3	84.3	83.0	81.7	81.7	81.7	81.7	84.3	84.3	86.8	91.9	91.9	91.9
Steel, crude: Composite, finished steel dolls. per 100 lbs	2.23	2.22	2.22	2.19	2.20	2.22	2.24	2.26	2.29	2.33	2.35	2.39	2.43
Iron and steel, composite dolls. per long ton	31.66	31.65	31.70	31.76	31.95	32.31	32.67	33.01	33.25	33.53	33.84	34.48	35.01
Steel billets, Bessemer.....dolls. per long ton	30.00	30.00	30.00	30.60	31.00	31.00	31.00	31.00	31.00	31.00	32.50	33.00	33.00
Steel billets, Bessemer.....rel. to 1926	85.7	85.7	85.7	87.4	88.6	88.6	88.6	88.6	88.6	88.6	92.9	94.3	94.3
Structural steel beams.....dolls. per 100 lbs	1.65	1.65	1.63	1.60	1.60	1.60	1.60	1.65	1.65	1.70	1.80	1.80	1.80
Structural steel beams.....rel. to 1926	84.3	84.3	83.0	81.7	81.7	81.7	81.7	84.3	84.3	86.8	91.9	91.9	91.9
Sulphuric acid.....dolls. per 100 lbs	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75
Sugar: Retail average, 51 cities.....rel. to 1913	106	107	107	107	107	106	107	111	111	111	115	115	116
Retail granulated, New York.....dolls. per lb	.051	.053	.053	.053	.053	.053	.054	.054	.054	.055	.057	.055	.055
Wholesale, 96° centrif., New York.....dolls. per lb	.033	.033	.034	.033	.034	.033	.031	.032	.033	.032	.032	.035	.036
Wholesale, 96° centrif., New York.....rel. to 1926	75.8	76.3	77.9	75.8	78.8	76.3	72.1	73.0	75.3	74.4	74.0	80.4	82.3
Wholesale, granulated, New York.....dolls. per lb	.043	.045	.046	.046	.047	.044	.043	.044	.046	.045	.048	.048	.049
Wholesale, granulated, New York.....rel. to 1926	79.2	81.4	83.4	83.2	85.0	80.8	79.2	80.3	84.1	82.7	86.7	88.0	88.7
Tea, Formosa fine, New York.....dolls. per lb	.225	.225	.225	.225	.225	.223	.224	.290	.292	.300	.300	.300	.300
Textiles, general.....rel. to 1926	69.2	70.4	71.0	72.4	73.3	73.8	75.5	77.7	80.0	82.2	84.6	85.5	86.5
Tin, wholesale, straits, New York.....dolls. per lb	.2707	.2631	.2610	.2527	.2589	.2686	.2964	.3002	.2981	.3030	.3213	.3607	.3681
Turpentine, gum, southern New York.....dolls. per gal	.53	.45	.44	.42	.43	.41	.44	.41	.43	.47	.49	.54	.56
Wheat: No. 1, northern spring, Minneapolis.....dolls. per bush	.76	.75	.76	.77	.75	.82	.87	.91	.92	1.00	1.07	1.11	1.12
No. 1, northern spring, Minneapolis.....rel. to 1926	48.1	47.5	48.1	48.7	47.5	51.9	55.1	57.6	58.2	63.3	67.7	70.3	70.9
No. 2, red winter, St. Louis.....dolls. per bush	.78	.79	.78	.83	.83	.87	.88	.89	.85	1.05	1.14	1.17	1.18
No. 2, red winter, St. Louis.....rel. to 1926	50.3	51.0	50.3	53.5	53.5	56.1	56.8	57.4	54.8	67.7	73.5	75.5	76.1
No. 2, hard winter, Kansas City.....dolls. per bush	.70	.69	.69	.71	.69	.74	.78	.81	.80	.89	.99	1.01	1.02
No. 2, hard winter, Kansas City.....rel. to 1926	47.0	46.3	46.3	47.7	46.3	49.7	52.3	54.4	53.7	59.7	66.4	67.8	68.5
Wheat flour: Standard patents, Minneapolis.....dolls. per bbl	4.67	4.85	4.96	4.89	4.69	4.98	5.08	5.34	5.51	5.83	5.97	6.09	6.23
Standard patents, Minneapolis.....rel. to 1926	55.4	57.6	58.9	58.0	55.7	59.1	60.3	63.4	65.3	69.1	70.8	72.3	74.0
Winter straights, Kansas City.....dolls. per bbl	4.00	4.06	4.09	4.03	4.14	4.23	4.44	4.56	4.64	4.99	5.27	5.40	5.26
Winter straights, Kansas City.....rel. to 1926	55.2	56.0	56.3	55.6	57.1	58.3	61.3	62.8	64.0	68.9	72.7	74.5	72.5
Wool: Raw, territory, fine, scoured.....dolls. per lb	.66	.66	.68	.72	.72	.75	.76	.76	.76	.76	.77	.76	.77
Raw, Ohio and Pennsylvania, fleeces, 1/4 blood, combing grease.....dolls. per lb	.22	.23	.26	.27	.29	.30	.31	.31	.31	.31	.29	.31	.33
Suiting, 13 oz.....dolls. per yd	1.543	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.696	1.756	1.756	1.756	1.756
Suiting, 13 oz.....rel. to 1926	77.0	79.8	79.8	79.8	79.8	79.8	79.8	79.8	84.6	87.6	87.6	87.6	87.6
Women's dress goods, French serge, 39-in.....dolls. per yd			.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.93
Women's dress goods, French serge, 39-in.....rel. to 1926			87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	89.5
Worsted yarns.....dolls. per lb	1.00	1.10	1.10	1.17	1.20	1.20	1.20	1.20	1.20	1.20	1.23	1.25	1.30
Worsted yarns.....rel. to 1926	69.7	76.6	76.6	81.8	83.6	83.6	83.6	83.6	83.6	83.6	83.6	87.1	90.6
Zinc, prime western.....dolls. per lb	.0400	.0401	.0404	.0410	.0427	.0406	.0427	.0436	.0435	.0444	.0464	.0484	.0493
RETAIL PRICES													
Retail food index (Dept. of Labor).....rel. to 1913	126.4	127.0	132.8	137.2	141.4	144.4	145.6	143.7	144.0	147.9	150.1	151.2	150.1
Retail coal index (Dept. of Labor).....rel. to 1913	187.7	187.6	188.1	188.1	188.0	187.9	187.0	184.1	183.6	180.9	181.0	189.0	190.0

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"



MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>FARM PRICES</b>													
<b>COMMODITY PRICES—Continued</b>													
Cotton and cottonseed (2).....rel. to 1909-14	80	76	72	73	80	76	83	94	99	115	119	130	113
Dairy and poultry products (4).....rel. to 1909-14	99	95	108	120	130	126	123	115	111	114	120	124	123
Fruits and vegetables (9).....rel. to 1909-14	109	109	108	108	114	127	148	149	173	193	193	187	169
Grains (6).....rel. to 1909-14	74	75	77	80	80	92	100	101	92	106	105	110	107
Meat animals (5).....rel. to 1909-14	106	106	112	112	118	123	128	119	127	141	142	146	151
Unclassified (5).....rel. to 1909-14	65	67	69	70	73	70	67	70	75	79	78	78	80
All groups (31).....rel. to 1909-14	91	90	94	97	103	106	111	108	111	123	124	127	126
<b>COMMODITY GROUPS</b>													
<b>AUTOMOBILES</b>													
Production index (Fed. Res. Bd.).....rel. to 1923-25	67	68	63	85	74	49	62	62	75	90	101	102	98
Production index (elect. energy consumed).....rel. to 1923-25	94.1	88.9	67.5	71.5	74.9	80.9	88.4	86.6	75.3	102.9	105.8	112.9	108.9
Accessories and parts, shipments:													
Accessories.....rel. to Jan., 1925	65	53	46	55	63	79	76	60	65	71	78	74	67
Original equipment.....rel. to Jan., 1925	117	95	84	64	62	75	79	87	83	119	153	175	167
Replacement parts.....rel. to Jan., 1925	110	99	98	100	127	140	139	132	127	131	137	150	139
Service parts.....rel. to Jan., 1925	115	97	92	75	80	99	105	104	115	128	165	180	175
Electric industrial trucks and tractors:													
Shipments—													
Domestic.....number	84	50	33	42	37	91	77	82	102	67	127	107	113
Exports.....number	9	6	5	9	9	3	6	11	11	32	19	5	14
Exports (assembled):													
From Canada—													
Total.....no. of cars	1,565	3,054	3,645	2,588	2,868	6,641	3,922	3,521	3,670	3,024	3,272	6,308	
Passenger cars.....no. of cars	881	1,798	2,193	1,260	2,003	4,293	2,552	2,471	2,240	2,131	2,304	5,029	
Trucks.....no. of cars	684	1,256	1,452	1,328	865	2,348	1,370	1,050	1,430	893	968	1,279	
From United States—													
Total.....no. of cars	17,523	13,374	12,838	14,198	12,073	11,215	13,437	13,274	11,870	15,437	26,542	35,238	31,090
Passenger cars.....no. of cars	11,526	9,187	8,304	9,096	6,039	7,136	8,125	7,956	7,828	10,101	16,876	23,777	22,129
Trucks.....no. of cars	6,002	4,187	4,534	5,102	6,039	4,079	5,312	5,318	4,042	5,336	9,666	11,461	8,961
Financing:													
Wholesale dealers.....thous. of dolls.	63,024	49,849	40,155	35,601	29,684	35,962	45,397	45,411	55,430	53,802	83,660	85,346	77,548
Retail purchasers.....thous. of dolls.	91,971	66,305	61,877	66,068	60,265	81,415	90,504	102,994	119,014	138,411	115,383	146,881	123,723
New cars.....thous. of dolls.	55,081	36,912	32,991	35,382	31,843	45,710	52,232	63,102	73,545	91,224	68,278	94,038	77,302
Used cars.....thous. of dolls.	34,537	27,772	27,329	28,899	26,962	33,835	35,305	37,218	42,775	43,086	42,906	48,860	42,474
Unclassified.....thous. of dolls.	2,353	1,621	1,557	1,787	1,550	1,869	2,267	2,674	2,668	4,101	4,199	3,983	3,947
Fire-extinguishing equipment:													
Shipments—													
Motor vehicles.....number	75	69	56	113	71	96	86	118	118	106	95	94	96
Hand types.....number	34,240	29,280	27,713	34,295	29,213	36,303	37,482	34,958	43,065	44,911	56,620	57,043	43,579
New passenger-car registrations													
total no. of cars	128,437	123,089	96,054	93,066	150,219	175,286	203,737	254,098	260,861	345,031	357,064	298,904	
Production, actual:													
Canada—													
Total.....no. of cars	12,993	9,871	6,496	5,622	5,407	4,541	7,957	9,792	10,188	15,090	24,672	24,257	20,730
Passenger cars.....no. of cars	10,483	7,529	4,552	4,225	3,527	3,206	5,623	6,946	8,556	12,194	21,251	20,872	17,165
Trucks.....no. of cars	2,510	2,342	1,944	1,397	1,880	1,335	2,334	2,846	1,632	2,896	3,421	3,385	3,565
United States—													
Total.....no. of cars	276,341	219,939	171,851	155,701	135,754	154,401	220,649	224,368	265,533	334,506	420,027	444,024	396,388
Passenger cars.....no. of cars	230,835	179,890	137,805	122,748	102,358	115,476	177,752	185,619	224,690	288,481	364,512	375,685	331,973
Taxicabs.....no. of cars	410	529	512	1,425	609	582	930	386	376	463	440	496	1,421
Trucks.....no. of cars	45,096	39,520	33,534	31,528	32,787	38,343	41,967	38,363	40,467	45,562	55,075	67,853	62,994
Rim production.....thous. of rims	1,425	1,011	681	567	920	864	1,052	1,504	1,449	1,338	2,010	2,340	2,062
Sales (General Motors Corp.):													
Total to consumers, U. S.....no. of cars	101,339	68,976	61,566	57,989	41,757	57,757	75,805	86,426	80,147	97,318	131,817	142,004	123,781
Total to dealers, U. S.....no. of cars	98,943	80,373	76,681	68,252	48,155	22,924	69,901	76,140	70,716	87,595	136,169	132,365	118,081
Total to dealers, including Canadian and overseas.....no. of cars	119,195	96,003	89,349	80,008	57,257	28,253	78,792	85,610	79,976	97,440	147,483	150,661	135,930
<b>CHEMICALS AND ALLIED PRODUCTS</b>													
<b>General operations</b>													
Production index (Fed. Res. Bd.).....rel. to 1923-25		14.9	144	149	151	160	165	164	166	170	173	174	168
Production index (elect. energy consumed).....rel. to 1923-25	139.3	146.6	132.0	133.5	145.0	122.4	147.1	135.7	140.6	138.6	146.6	137.2	140.0
Prices, wholesale.....rel. to 1926	81.9	82.2	83.6	84.8	85.2	86.0	86.6	87.3	87.8	88.9	89.9	91.0	91.2
Stocks, manufactured goods, end of month.....rel. to 1923-25	129.1	132.1	128.8	123.9	124.2	125.2	121.3	117.3	121.2	128.0	133.5	134.4	140.9
Stocks, raw material, end of month.....rel. to 1923-25	96.5	103.2	107.7	124.2	128.5	132.7	120.0	98.1	92.9	94.4	96.5	99.7	104.3
<b>Chemicals</b>													
Acetate of lime:													
Production.....thous. of lbs.	7,579	7,326	8,245	7,542	6,674	5,018	6,038	3,535	3,568	4,847	6,819	8,101	9,079
Shipments.....thous. of lbs.	4,601	3,520	5,195	4,480	2,946	3,207	3,722	2,560	3,109	5,703	5,741	4,856	6,297
Stocks, end of month.....thous. of lbs.	29,722	26,745	22,939	19,888	20,826	23,649	25,838	23,522	22,542	22,089	22,945	21,867	18,622
Exports.....thous. of lbs.								23					
Price, wholesale.....dolls. per cwt.	2.00	2.00	2.00	2.00	2.00	2.42	3.00	3.00	3.11	4.29	4.50	4.60	4.50
Arsenic, crude:													
Production.....short tons	1,957	1,494	2,803	1,483	2,392	2,694	2,077	1,217	1,428	2,168	1,652	1,350	1,692
Stocks, end of month.....short tons	5,478	5,862	6,486	5,767	5,937	5,125	4,026	3,254	3,495	3,654	3,935	4,159	4,514
Arsenic, refined:													
Production.....short tons	1,506	1,409	1,570	1,439	1,508	1,265	1,101	1,002	1,032	1,081	963	1,084	864
Stocks, end of month.....short tons	2,181	2,449	2,419	2,221	2,010	1,813	1,930	1,525	1,897	2,024	2,726	2,889	3,131
Dyes and dyestuffs, exports:													
Vegetable.....thous. of lbs.	172	179	101	178	114	309	204	124	110	194	232	218	119
Coal tar.....thous. of lbs.	2,641	2,538	2,066	2,502	3,136	2,481	866	1,757	1,153	2,612	2,334	3,349	3,347

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## MONTHLY BUSINESS STATISTICS—Continued

	1931			1930										
	March	February	January	December	November	October	September	August	July	June	May	April	March	
COMMODITY GROUPS—Continued														
<b>CHEMICALS AND ALLIED PRODUCTS—Continued</b>														
<b>Chemicals—Continued</b>														
Ethyl alcohol:														
Production.....	thous. of gals.	11,929	8,859	11,869	17,770	20,861	18,455	14,299	12,890	11,617	13,116	13,245	12,221	10,151
Warehouse stocks, end of month.....	thous. of gals.	13,633	11,008	9,442	6,858	8,304	8,898	10,010	9,317	9,498	10,076	9,143	8,074	7,616
Withdrawn for denaturalization.....	thous. of gals.	8,795	6,296	8,081	19,134	20,070	18,637	12,615	11,777	11,352	11,128	11,319	10,585	8,881
Methanol, crude:														
Production.....	gallons.	491,735	474,138	631,396	477,165	430,342	379,626	294,176	242,418	192,519	319,478	426,395	518,039	527,847
Stocks at crude plants, end of month.....	gallons.	427,504	412,155	312,110	247,813	218,703	337,749	519,439	475,331	510,030	490,158	565,299	538,054	505,585
Stocks at refineries and in transit.....	gallons.	105,238	121,522	89,740	93,805	59,197	59,236	168,166	79,380	153,811	219,989	304,004	350,754	464,600
Exports.....	gallons.	30,146	18,295	45,139	90,111	40,814	100,479	82,168	157,037	61,240	126,813	77,028	101,033	50,113
Methanol, refined:														
Price, wholesale, New York.....	dolls. per gal.	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.43
Production.....	gallons.	253,494	223,144	306,373	382,547	431,179	575,711	364,505	374,521	250,085	418,205	405,780	524,295	402,476
Shipments.....	gallons.	199,500	221,279	167,309	372,352	477,029	541,807	440,514	463,215	309,274	383,570	339,930	531,034	426,153
Stocks, end of month.....	gallons.	499,978	445,984	444,119	305,055	294,860	340,710	306,806	382,815	471,509	530,698	496,063	430,213	436,952
Nitrate of soda:														
Imports.....	long tons.	120,164	68,421	45,890	35,512	35,474	27,207	19,362	9,083	28,644	18,737	42,308	69,788	106,521
Production in Chile.....	metric tons.						179,357	181,467	202,466	199,284	205,911	215,389	205,200	244,000
Potash salts:														
Imports.....	long tons.	23,955	19,043	22,750	17,537	13,499	37,425	48,482	48,487	51,970	17,704	13,313	22,339	42,492
Sales in Germany (K <sub>2</sub> O content).....	metric tons.				80,699	54,872	71,660	127,660	98,722	93,859	95,968	77,193	79,748	187,487
Price index numbers:														
Crude drugs.....	rel. to Aug., 1914	130	131	133	137	137	137	139	143	147	154	161	166	167
Essential oils.....	rel. to Aug., 1914	81	80	81	85	87	90	91	97	107	111	113	115	118
Drugs and pharmaceuticals.....														
Chemicals.....	rel. to 1927	90	89	90	93	94	94	94	94	96	97	97	97	98
Oils and fats.....	rel. to 1927	71	68	71	73	73	74	78	87	88	89	92	94	92
Sulphuric acid:														
Exports.....	thous. of lbs.	200,218	376,076	304,745	438,836	308,992	703,787	465,766	176,023	570,683	409,748	507,011	327,918	335,773
Price, wholesale.....	dolls. per 100 lbs.	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75
Superphosphate (acid phosphate):														
Production.....	short tons.	225,906	249,405	325,552	335,980	302,730	335,594	282,710	295,790	308,241	290,615	326,566	334,467	343,068
Stocks, end of mo.....	thous. of short tons.	1,985	2,287	2,292	2,110	1,877	1,703	1,479	1,527	1,309	1,079	882	885	1,636
Shipments.....	short tons.	304,786	130,936	103,024	70,496	77,861	92,769	149,899	64,756	73,134	54,488	149,343	469,184	422,432
Wood at chemical plants:														
Consumption—														
Daily capacity.....	cords.	49,707	46,367	52,314	47,654	43,483	38,549	31,668	27,595	29,503	35,040	45,048	52,252	55,306
Total, all plants.....	cords.	2,551	2,518	2,607	2,647	2,647	2,647	2,663	2,643	2,643	2,649	2,645	2,659	2,659
Plants shut down.....	cords.	448	416	428	472	644	743	1,264	1,344	1,346	914	648	556	511
Stocks at end of month.....	cords.	383,925	411,503	408,185	463,276	494,329	470,732	496,238	487,955	477,761	451,128	435,555	414,380	380,670
<b>Cottonseed</b>														
Cottonseed:														
Consumption (crush).....	short tons.	280,637	401,736	589,911	669,264	801,800	936,743	561,625	165,770	61,760	86,269	138,904	230,809	398,781
Receipts at mills.....	thous. of short tons.	111	158	219	578	803	1,923	1,041	336	30	45	60	99	203
Stocks at mills, end of month.....	thous. of short tons.	207	377	620	991	1,083	1,081	695	215	45	77	119	197	330
Cottonseed cake and meal:														
Exports.....	short tons.	5,750	3,147	11,084	7,538	1,580	4,361	2,092	175	304	248	230	320	4,852
Production.....	short tons.	135,144	190,314	270,965	305,019	360,943	421,283	251,128	76,440	28,527	38,736	62,240	104,291	179,243
Stocks, end of month.....	short tons.	303,945	363,201	343,665	298,139	252,323	202,156	116,396	45,340	55,352	85,277			
Cottonseed oil, crude:														
Production.....	thous. of lbs.	89,794	124,392	181,221	201,621	239,913	283,929	169,458	49,322	19,425	29,253	46,539	77,567	129,626
Stocks, end of month.....	thous. of lbs.	69,878	104,910	127,739	114,248	114,595	110,829	79,280	25,606	7,894	22,328	39,508	61,954	103,372
Cottonseed oil, refined:														
Factory consumption—														
Total (quarterly).....	thous. of lbs.	276,906			331,746			323,521		299,749				287,591
In oleomargarine.....	thous. of lbs.	1,621	1,465	1,875	2,178	2,091	2,505	2,151	2,906	1,587	1,882	2,115	2,483	2,567
Price, yellow, prime, New York.....	dolls. per lb.	.076	.073	.073	.072	.076	.076	.081	.064	.080	.083	.088	.087	.084
Production.....	thous. of lbs.	115,302	130,556	150,998	188,823	215,405	232,179	102,460	26,525	29,754	49,325	55,976	109,328	116,480
Stocks, end of month.....	thous. of lbs.	494,503	494,882	461,776	428,609	350,260	254,571	174,208	200,273	301,609	393,573	463,983	516,753	536,097
<b>Explosives</b>														
Explosives, black powder, permissible and other high explosives:														
New orders.....	thous. of lbs.	36,730	25,448	26,714	24,404	28,847	34,324	33,173	32,687	30,424	33,005	33,340	33,204	30,059
Production.....	thous. of lbs.	25,414	28,751	24,056	24,024	30,248	34,113	35,688	31,168	30,810	33,546	36,147	30,967	30,221
Shipments.....	thous. of lbs.	26,598	27,543	25,201	22,974	30,229	34,198	35,069	32,289	30,649	33,969	33,404	34,071	30,534
Stocks, end of month.....	thous. of lbs.	26,929	20,219	17,372	17,303	16,346	16,812	16,694	16,043	17,392	17,181	17,699	18,566	20,295
<b>Fats and Oils</b>														
Animal fats (quarterly):														
Factory consumption.....	thous. of lbs.	154,951			154,764			147,559			146,450			153,118
Production.....	thous. of lbs.	619,459			515,598			461,647			540,626			578,042
Stocks, end of quarter.....	thous. of lbs.	224,393			191,941			189,561			226,482			211,120
Animal glues:														
Production (quarterly).....	thous. of lbs.	22,845			23,515			21,715			27,939			29,897
Shipments.....	thous. of lbs.				3,469	4,565	5,891	4,885	4,598	5,585	4,788	5,543	6,025	5,165
Stocks, end of quarter.....	thous. of lbs.	53,772			49,951			44,380			43,162			36,756
Coconut or copra oil:														
Factory consumption—														
Crude (quarterly).....	thous. of lbs.	138,255			159,545			150,753			161,077			166,131
Refined—														
Total (quarterly).....	thous. of lbs.	75,479			79,711			76,572			69,377			78,594
In oleomargarine.....	thous. of lbs.	12,086	11,492	14,873	16,491	17,111	18,248	15,818	11,479	11,455	11,763	13,236	15,379	14,164

\* Revised.

\* Quarter ending in month indicated.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
COMMODITY GROUPS—Continued													
<b>CHEMICALS AND ALLIED PRODUCTS—Continued</b>													
<b>Fats and Oils—Continued</b>													
Cocoonut or copra—Continued.													
Imports.....thous. of lbs..	27,550	44,034	24,690	30,952	20,477	43,124	14,846	19,331	8,118	25,590	34,868	21,943	32,771
Production (quarterly)—													
Crude.....thous. of lbs..	\$91,446			\$90,921			\$85,068			\$78,592			\$90,689
Refined.....thous. of lbs..	\$66,268			\$77,612			\$69,313			\$65,232			\$76,801
Stocks, end of quarter—													
Crude.....thous. of lbs..	\$201,732			\$164,206			\$139,433			\$160,193			\$162,968
Refined.....thous. of lbs..	\$16,869			\$22,352			\$18,029			\$18,452			\$17,993
Copra:													
Factory consumption (quarterly)													
.....short tons..	\$71,229			\$71,134			\$67,165			\$61,544			\$71,573
Imports.....short tons..	25,890	33,133	34,056	37,419	33,886	33,725	31,139	16,885	18,663	16,106	21,059	16,649	29,748
Stocks, end of quarter.....short tons..	\$27,167			\$41,077			\$24,502			\$28,698			\$29,577
Edible gelatin:													
Production (quarterly).....thous. of lbs..	\$4,549			\$4,434			\$2,979			\$5,243			\$5,271
Stocks, end of quarter.....thous. of lbs..	\$8,642			\$8,224			\$7,499			\$8,109			\$7,980
Fish oils:													
Factory consumption (quarterly)													
.....thous. of lbs..	\$44,620			\$42,703			\$36,921			\$41,361			\$46,580
Production (quarterly).....thous. of lbs..	\$11,587			\$27,815			\$50,693			\$8,418			\$18,762
Stocks, end of quarter.....thous. of lbs..	215,405			\$197,770			\$207,301			\$174,601			\$133,376
Greases:													
Factory consumption (quarterly)													
.....thous. of lbs..	\$53,346			\$49,476			\$54,826			\$59,586			\$57,203
Production (quarterly).....thous. of lbs..	\$95,948			\$88,510			\$92,031			\$92,621			\$96,089
Stocks, end of quarter.....thous. of lbs..	\$79,012			\$77,211			\$69,739			\$70,404			\$65,779
Lard compounds:													
Production (quarterly).....thous. of lbs..	\$291,386			\$331,412			\$317,883			\$283,299			\$279,694
Stocks, end of quarter.....thous. of lbs..	\$26,081			\$26,672			\$21,164			\$24,011			\$22,949
Vegetable oils:													
Exports.....thous. of lbs..	3,831	2,947	4,775	2,086	2,294	2,591	1,794	1,317	533	2,049	970	3,753	4,618
Factory consumption (quarterly)													
.....mills. of lbs..	\$829			\$1,076			\$561			\$670			\$912
Imports.....thous. of lbs..	68,238	79,809	72,142	72,028	75,352	106,699	73,445	57,072	74,579	86,947	85,173	67,133	84,600
Production (quarterly).....mills. of lbs..	\$675			\$1,004			\$483			\$415			\$799
Stocks, end of quarter—													
Crude.....thous. of lbs..	\$610,812			\$641,002			\$521,010			\$497,030			\$599,509
Refined.....thous. of lbs..	\$531,660			\$466,602			\$208,964			\$428,427			\$575,615
<b>Fertilizer</b>													
Fertilizer:													
Consumption, Southern States.....thous. of short tons..	1,352	640	343	74	61	95	128	38	18	79	216	1,280	1,863
Exports.....short tons..	104,214	97,682	91,497	71,533	84,847	125,441	118,761	115,580	143,620	113,538	143,347	188,044	153,539
<b>Flaxseed</b>													
Flaxseed, imports.....thous. of bush..	1,313	952	352	219	387	148	59	551	360	371	1,454	2,527	3,233
Linseed cake and meal:													
Exports.....thous. of lbs..	39,847	18,238	10,853	33,596	25,986	12,519	8,474	22,593	24,833	29,066	41,409	48,716	52,082
Shipments from Minneapolis.....thous. of lbs..	17,827	11,046	17,227	16,824	17,315	29,726	27,149	13,398	5,066	5,768	7,485	8,604	9,937
Linseed oil:													
Price, New York.....dolls. per lb..	.095	.092	.088	.092	.094	.099	.105	.131	.140	.140	.140	.143	.140
Shipments from Minneapolis.....thous. of lbs..	11,552	9,594	8,553	7,385	10,199	14,792	11,565	6,117	6,436	6,274	9,685	9,141	6,066
Factory consumption (quarterly)													
.....thous. of lbs..	\$74,092			\$69,307			\$80,359			\$104,276			\$95,601
Production (quarterly).....thous. of lbs..	\$118,417			\$131,257			\$108,236			\$130,863			\$145,970
Stocks at factories (quarterly)													
.....thous. of lbs..	\$113,192			\$113,594			\$83,945			\$108,758			\$154,832
Minneapolis and Duluth:													
Receipts.....thous. of bush..	498	426	491	709	1,424	2,636	5,054	3,266	294	314	712	146	172
Shipments.....thous. of bush..	185	286	243	517	1,910	1,618	2,045	1,436	193	267	457	171	133
Stocks, end of month.....thous. of bush..	1,205	1,293	877	1,386	1,411	2,182	1,893	447	319	433	523	624	705
Oil mills (quarterly)—													
Consumption.....thous. of bush..	\$6,571			\$7,391			\$5,887			\$7,270			\$7,966
Stocks, end of quarter.....thous. of bush..	\$2,345			\$4,472			\$3,386			\$3,328			\$2,898
Price, No. 1, Minneapolis.....dolls. per bush..	1.58	1.56	1.57	1.61	1.65	1.80	1.90	2.00	2.32	2.71	2.68	2.92	2.92
Production, crop estimate.....thous. of bush..				23,682	24,168	25,165	24,611	26,013	30,100				
<b>Naval Stores</b>													
Pine oil:													
Production.....gallons..	208,690	220,066	144,440	229,737	229,979	225,688	229,238	224,546	241,193	248,777	234,281	253,049	280,560
Stocks, end of month.....thous. of gals..	1,882	1,839	1,769	1,799	1,708	1,610	1,529	1,513	1,456	1,386	1,277	1,278	1,212
Rosin, gum:													
Net receipts, southern ports.....bbls..	38,977	27,322	41,345	117,489	107,414	127,621	140,090	151,269	178,876	149,880	150,386	86,873	40,401
Price, "B," New York.....dolls. per bbl..	4.64	4.38	4.45	4.95	5.29	5.54	5.80	5.39	5.90	6.50	6.34	6.78	7.26
Stocks at 3 ports, end of month.....bbls..	266,056	300,695	329,626	372,090	323,142	303,669	276,585	267,540	242,948	196,857	143,684	135,958	149,232
Rosin, wood:													
Production.....bbls..	33,544	32,332	24,488	34,332	38,931	34,818	38,293	37,349	39,929	40,049	40,933	43,919	44,964
Stocks, end of month.....bbls..	125,919	130,490	125,630	122,318	119,727	109,785	117,726	114,281	117,318	109,198	99,359	97,168	91,498
Turpentine, gum:													
Net receipts, Southern ports.....bbls..	9,511	5,354	7,228	27,482	28,107	33,500	42,873	46,521	55,822	46,711	48,803	27,999	9,779
Price, Southern, New York.....dolls. per gal..	.53	.45	.44	.42	.43	.41	.44	.41	.43	.47	.49	.54	.56
Stocks at port, end of month.....bbls..	45,232	58,202	63,320	84,911	95,860	88,499	76,774	65,024	58,491	42,344	47,130	35,053	40,078
Turpentine, wood:													
Production.....bbls..	5,740	5,634	4,757	6,200	6,584	5,817	6,573	6,125	6,406	6,774	7,454	8,303	8,129
Stocks, end of month.....bbls..	9,987	\$13,537	14,437	15,799	13,895	11,257	11,163	12,772	13,642	13,762	13,715	15,854	14,126

<sup>2</sup> Revised.

<sup>3</sup> Quarter ending in month indicated.

## MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22, to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
COMMODITY GROUPS—Continued													
<b>CHEMICALS AND ALLIED PRODUCTS—Continued</b>													
<b>Roofing</b>													
Prepared roofing, shipments:													
Grit roll.....thous. of sqs..	333	330	322	242	372	922	872	655	612	653	731	676	581
Shingles—													
Individual and single thickness.....thous. of sqs..	92	60	51	63	86	191	196	176	139	151	164	144	113
Strip, patented, and hexagon.....thous. of sqs..	329	277	249	238	283	572	1,001	692	597	656	730	715	484
Smooth roll.....thous. of sqs..	702	714	773	583	742	1,575	1,438	1,021	803	924	1,088	1,191	1,062
Total, all types.....thous. of sqs..	1,456	1,381	1,395	1,126	1,484	3,259	3,506	2,544	2,151	2,384	2,714	2,727	2,240
<b>FOODSTUFFS</b>													
<b>General operations</b>													
Production index:													
Food products (Fed. Res. Bd.).....rel. to 1923-25..	87	92	93	89	94	94	96	91	94	93	98	97	90
Food and kindred products (elect. energy consumed).....rel. to 1923-25..	116.8	122.0	118.3	107.1	124.4	137.2	148.6	141.2	139.2	145.4	138.2	119.4	129.8
Stocks, manufactured foodstuffs.....rel. to 1923-25..	104.1	105.2	104.2	95.0	92.6	98.6	109.7	120.1	127.4	117.7	105.3	160.5	105.4
Stocks, raw foodstuffs.....rel. to 1923-25..	2.2.0	197.9	194.8	205.1	200.0	196.9	197.6	183.9	162.7	153.4	170.7	174.4	185.1
<b>Candy</b>													
Sales by manufacturers.....thous. of dolls..	22,062	21,444	21,948	28,727	29,500	31,004	28,027	19,044	16,713	19,774	22,264	25,660	27,312
<b>Cocoa</b>													
Imports.....long tons..	20,942	13,696	16,418	13,700	6,338	7,410	11,008	17,863	20,443	15,121	10,721	12,164	11,595
Shipments from Gold and Nigerian Coasts, Africa.....long tons..	48,353	51,550	39,278	21,756	18,888	12,660	7,554	13,441	20,764	14,694	16,124	13,951	25,543
Spot price, Acera, New York.....dolls. per lb..	.0550	.0563	.0619	.0675	.0688	.0675	.0670	.0775	.0869	.0825	.0850	.0869	.0875
<b>Coffee</b>													
Clearances:													
Total, Brazil for United States.....thous. of bags..	849	889	952	881	514	659	852	652	539	441	530	548	590
Total, Brazil for world.....thous. of bags..	1,559	1,590	1,647	1,590	1,080	1,176	1,469	1,318	1,025	922	1,027	1,152	1,169
Imports.....thous. of bags..	1,407	1,289	1,094	1,098	967	1,159	991	712	801	1,010	915	1,065	1,134
Price, Rio No. 7, Brazil grades.....dolls. per lb..	.056	.064	.068	.070	.079	.089	.072	.076	.083	.092	.099	.103	.108
Receipts, total Brazil.....thous. of bags..	1,565	1,648	1,697	1,494	1,549	1,437	1,595	1,462	1,391	1,031	1,247	1,152	1,264
Visible supply:													
United States.....thous. of bags..	1,148	1,161	866	929	817	828	934	784	861	867	790	851	875
World.....thous. of bags..	5,963	5,879	5,455	5,188	5,014	5,051	5,498	5,529	5,378	5,572	5,449	5,264	5,264
<b>Dairy Products</b>													
<b>BUTTER</b>													
Apparent consumption.....thous. of lbs..	160,753	152,985	163,689	166,506	154,987	181,569	179,305	193,110	191,178	199,016	210,504	177,990	162,969
Cold-storage holdings, creamery, end of month.....thous. of lbs..	18,025	30,672	46,792	63,401	88,012	109,646	131,489	143,089	145,061	106,522	50,378	22,957	30,556
Production (factory).....thous. of lbs..	122,953	105,192	112,843	106,181	98,138	117,372	119,388	133,600	163,534	173,719	169,365	122,922	110,253
Receipts, 5 markets.....thous. of lbs..	48,739	43,251	45,644	43,892	36,848	38,935	40,853	44,821	62,274	70,529	63,752	50,595	47,179
Wholesale price, New York.....dolls. per lb..	.29	.28	.29	.32	.36	.40	.40	.39	.35	.33	.35	.39	.37
Wholesale price, New York.....rel. to 1926..	64.4	62.2	64.4	71.1	80.0	88.8	88.8	86.6	77.7	73.3	77.7	86.6	82.2
<b>CHEESE</b>													
Total, all varieties:													
Apparent consumption.....thous. of lbs..	46,332	38,068	41,070	39,500	40,035	41,637	43,695	47,564	29,640	41,486	49,921	44,680	36,957
Cold-storage holdings, end of month.....thous. of lbs..	54,299	61,841	69,471	79,015	87,171	96,393	103,691	107,219	108,899	90,421	68,127	53,025	55,343
Exports, Canada.....thous. of lbs..	491	306	918	4,025	14,677	16,568	12,652	10,188	12,062	5,560	1,884	229	456
Exports, United States.....thous. of lbs..	208	118	129	176	108	183	121	137	172	159	158	199	171
Imports, United States.....thous. of lbs..	4,611	4,062	4,123	4,163	5,041	6,293	4,333	3,687	3,106	6,097	12,356	7,125	5,247
Receipts, 5 markets.....thous. of lbs..	11,717	10,406	11,600	10,400	10,784	12,226	14,509	14,952	17,436	17,895	15,472	13,026	12,903
Production (factory).....thous. of lbs..	34,388	26,379	27,543	26,598	25,583	28,239	36,062	11,125	45,120	64,326	59,940	44,941	39,935
American whole milk:													
Cold-storage holdings, end of month.....thous. of lbs..	41,866	47,968	54,499	63,326	71,132	78,919	85,076	87,221	88,749	70,186	49,172	39,324	41,922
Wholesale price, New York.....dolls. per lb..	.16	.16	.17	.18	.19	.19	.20	.19	.18	.18	.20	.21	.21
<b>Eggs</b>													
Cold-storage holdings, end of month:													
Case.....thous. of cases..	1,869	2,408	735	1,864	4,154	6,785	9,174	10,375	11,198	10,743	9,178	5,766	2,231
Frozen.....thous. of lbs..	78,031	73,889	75,685	83,184	89,571	98,359	106,631	113,138	116,272	115,134	106,904	76,664	49,751
Receipts, 5 markets.....thous. of cases..	2,046	1,264	1,026	768	593	717	952	944	1,377	1,728	2,366	2,631	2,063
<b>MILK</b>													
Condensed milk:													
Exports.....thous. of lbs..	1,873	1,345	2,403	1,907	1,973	1,718	1,479	3,294	1,515	2,682	2,502	2,710	3,477
Total stocks, manufactures, end of month.....thous. of lbs..	16,265	16,171	18,594	19,520	20,885	21,965	23,727	25,765	30,337	28,855	25,203	20,611	20,577
Bulk goods.....thous. of lbs..	13,227	13,051	13,928	17,803	20,657	24,650	27,314	30,875	35,006	35,373	30,124	20,590	17,495
Unsold stocks, end of month.....thous. of lbs..	5,549	5,285	6,986	8,297	7,842	7,935	8,119	6,951	10,212	8,176	7,598	5,117	4,773
Case goods.....thous. of lbs..	9,059	8,864	9,698	14,181	16,678	20,427	22,951	26,464	30,866	31,222	25,467	16,213	13,235
Wholesale price, New York.....dolls. per case..	5.65	5.79	6.03	6.03	6.03	6.03	6.03	6.03	6.03	6.13	6.13	6.13	6.13

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MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
COMMODITY GROUPS—Continued													
<b>FOODSTUFFS—Continued</b>													
<b>Dairy Products—Continued</b>													
Evaporated milk:													
Exports.....thous. of lbs.	5,034	3,775	5,269	4,546	4,366	4,718	3,452	5,223	4,720	5,417	6,308	6,181	5,369
Manufacturers' stocks, end of month													
Total case goods.....thous. of lbs.	150,931	<sup>2</sup> 136,896	157,152	202,070	211,828	224,486	218,486	244,969	258,836	227,201	199,334	162,221	146,571
Unsold case goods.....thous. of lbs.	125,498	<sup>2</sup> 108,672	107,009	163,478	174,148	187,262	179,047	197,189	218,761	176,439	166,196	140,371	125,023
Wholesale price, New York, dolls. per case	3.50	3.50	3.75	3.80	3.80	3.80	3.80	3.80	3.71	3.69	3.95	3.95	3.95
Fluid milk:													
Consumption in mfr. of oleomargarine.....thous. of lbs.	5,927	5,814	7,464	8,158	8,404	9,066	7,799	6,173	5,837	6,074	6,935	7,903	7,103
Receipts—													
Boston, including cream, thous. of qts.	20,312	17,444	18,352	18,313	18,226	19,403	19,634	19,007	20,348	21,149	20,906	19,400	19,369
Greater New York, thous. of qts.			110,428	111,345	111,166	116,140	119,356	116,769	123,165	122,086	124,883	112,955	117,880
Powdered milk:													
Exports.....thous. of lbs.	2,282	1,001	366	465	507	467	477	426	376	346	496	636	629
Manufacturers' stocks, end of month.....thous. of lbs.	40,653	<sup>2</sup> 41,744	41,122	38,976	36,318	33,281	32,770	34,186	32,493	31,820	28,096	26,675	25,674
Net new orders.....thous. of lbs.	10,349	<sup>2</sup> 9,492	10,253	8,945	8,733	9,853	10,151	9,623	10,946	11,913	11,333	10,671	8,832
Production, condensed and evaporated milk.....thous. of lbs.	172,306	144,649	141,981	143,280	132,284	149,136	139,802	163,031	205,641	243,414	235,860	187,224	160,117
<b>Fish</b>													
Canned salmon:													
Exports, Canada.....cases	101,817	38,446	45,998	107,333	108,996	194,623	152,779	29,494	24,942	22,494	34,285	29,183	85,427
Shipments, United States, thous. of cases	334	300	406	333	273	653	1,433	1,030	367	358	247	197	371
Cold-storage holdings, 15th of month.....thous. of lbs.	38,542	56,547	71,910	85,317	91,436	88,616	85,498	78,997	64,847	47,498	33,605	25,186	<sup>2</sup> 35,581
Total catch, principal ports.....thous. of bbls.	30,081	20,635	18,353	17,567	25,967	30,541	40,687	35,875	46,751	32,886	34,091	36,799	33,166
<b>Fruits and Vegetables</b>													
Apples:													
Car-lot shipment.....carloads	5,700	7,115	7,806	8,085	17,454	35,782	12,757	2,729	3,253	1,083	1,966	3,607	5,166
Cold-storage holdings, end of month.....thous. of bbls.	2,913	<sup>2</sup> 5,224	7,439	9,575	10,860	9,043	1,872	114	72	128	453	1,299	2,596
Citrus fruits, car-lot shipments.....carloads	17,572	13,980	14,197	12,554	11,338	6,301	4,510	4,441	5,765	5,478	2,104	9,653	10,705
Onions, car-lot shipments.....carloads	2,540	2,610	3,454	2,254	2,753	5,593	5,437	2,793	2,556	1,729	3,975	2,874	2,260
Potatoes, car-lot shipments.....carloads	23,601	20,024	20,971	15,092	16,267	28,788	21,924	15,979	22,093	24,614	22,588	19,350	21,681
<b>Grains</b>													
Total grain exports, including flour.....thous. of bushels	6,061	5,067	<sup>2</sup> 6,610	7,578	9,803	14,091	21,041	26,095	18,015	13,829	12,626	9,367	9,093
<b>BARLEY</b>													
Exports.....thous. of bushels	745	921	732	1,047	964	1,295	1,359	1,281	698	550	1,457	778	569
Price, No. 2, Minneapolis.....dolls. per bush.	.44	.44	.44	.47	.48	.52	.53	.52	.47	.49	.55	.56	.55
Price, No. 2, Minneapolis.....rel. to 1926	68.7	68.7	68.7	73.4	75.0	81.2	82.8	81.2	73.4	76.5	85.9	87.5	85.9
Receipts, principal markets.....thous. of bushels	2,484	2,246	2,511	3,569	4,207	5,765	12,477	10,822	2,568	2,537	2,835	2,742	3,153
Visible supply, end of month.....thous. of bushels	7,840	9,583	10,731	11,401	11,854	12,035	11,991	7,429	3,997	4,671	5,436	6,511	7,837
<b>CORN</b>													
Exports, including meal.....thous. of bushels	534	443	188	132	163	295	394	332	395	776	824	1,030	1,122
Grindings (starch), thous. of bushels	5,441	5,575	5,990	5,241	5,434	6,253	6,473	6,565	6,103	6,100	6,623	6,615	6,065
Prices:													
No. 3, yellow, Chicago.....dolls. per bush.	.60	.61	.65	.69	.71	.82	.94	.99	.82	.79	.79	.82	.80
No. 3, yellow, Chicago.....rel. to 1926	80.0	81.3	86.6	92.0	94.6	109.3	125.3	132.0	109.3	105.3	105.3	109.3	106.6
No. 3, yellow, Kansas City.....dolls. per bush.	.54	.54	.59	.66	.69	.82	.89	.92	.80	.80	.78	.80	.76
No. 3, white, Chicago.....dolls. per bush.	.60	.63	.68	.73	.76	.88	.97	.99	.84	.81	.80	.84	.81
Receipts.....thous. of bushels	18,567	21,278	19,320	27,367	17,067	15,176	16,048	20,282	16,660	17,833	16,213	22,114	20,679
Shipments.....thous. of bushels	12,281	11,895	12,611	10,925	8,396	8,705	9,829	12,792	11,699	15,693	18,687	18,043	14,133
Visible supply, end of month.....thous. of bushels	21,995	20,110	17,562	16,993	7,411	4,703	4,976	4,226	4,012	7,378	11,819	21,452	25,129
<b>HAY</b>													
Receipts.....number of cars		4,279	5,214	4,057	4,863	5,401	4,808	4,717	4,505	3,881	3,755	4,708	4,624
<b>OATS</b>													
Exports, including meal.....thous. of bushels	174	120	144	208	202	157	194	292	717	204	266	259	224
Grindings, Canada.....thous. of bushels	844	940	997	1,126	1,085	1,174	1,054	817	826	719	651	706	798
Price, No. 3, white, Chicago.....dolls. per bush.	.31	.32	.32	.34	.33	.36	.38	.39	.35	.38	.41	.43	.43
Price, No. 3, white, Chicago.....rel. to 1926	75.6	78.0	78.0	82.9	80.4	87.8	92.6	95.1	85.3	92.6	100.0	104.8	104.8
Production, oatmeal, and rolled oats, Canada.....thous. of lbs.	10,243	11,895	13,320	14,360	14,605	14,749	14,843	11,032	10,893	9,660	7,951	8,106	9,650
Receipts, principal markets.....thous. of bushels	6,843	7,123	6,121	6,021	6,075	9,445	15,381	25,277	8,725	7,114	10,690	9,544	8,736
Visible supply, end of month.....thous. of bushels	19,103	22,947	26,650	30,504	30,641	33,509	31,979	25,867	9,149	11,317	13,102	16,765	18,929
<b>RICE</b>													
Exports.....pockets (100 lbs.)	211,843	259,578	376,000	413,674	383,517	150,938	94,030	99,249	124,181	202,224	203,573	152,572	209,915
Imports.....pockets (100 lbs.)	41,223	37,821	41,891	27,504	29,294	10,684	6,505	8,675	7,501	7,037	15,459	29,897	39,794
Shipments:													
Total from mills.....thous. of pockets (100 lbs.)	864	933	1,119	1,003	1,208	1,323	766	499	268	346	653	686	793
New Orleans.....pockets (100 lbs.)	68,349	74,629	75,643	75,426	126,781	201,483	128,756	90,755	56,861	65,195	107,430	63,189	80,506
Southern paddy, receipts at mills.....thous. of bbls.	599	864	1,147	844	1,257	2,063	1,084	508	22	60	183	146	284
Stocks, end of month.....thous. of pockets (100 lbs.)	1,561	1,790	1,793	1,678	1,776	1,670	842	488	450	687	950	1,394	1,899

<sup>1</sup> Revised.

MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	COMMODITY GROUPS—Continued												
<b>FOODSTUFFS—Continued</b>													
<b>Grains—Continued</b>													
<b>RYE</b>													
Exports, including flour.....thous. of bush..	34	19	3	4	4	49	25	23	18	3	14	47	64
Price, No. 2, Minneapolis.....dolls. per bush..	.36	.37	.38	.44	.43	.49	.55	.60	.55	.57	.65	.68	.66
Price, No. 2, Minneapolis.....rel. to 1926..	39.1	40.2	41.3	47.8	46.7	53.2	59.7	65.2	59.7	61.9	70.6	73.9	71.7
Receipts, principal markets.....thous. of bush..	855	716	884	1,356	1,640	2,001	6,562	5,200	758	445	1,234	337	598
Visible supply, end of month.....thous. of bush..	10,440	11,110	11,911	12,644	13,316	13,860	14,842	12,649	10,969	11,248	11,259	13,427	11,175
<b>WHEAT</b>													
Exports:													
Canada, including wheat flour.....thous. of bush..	15,521	12,165	11,373	24,939	34,782	33,447	31,120	20,461	22,834	21,681	16,046	5,458	14,657
United States—													
Wheat only.....thous. of bush..	1,357	137	1,289	2,173	3,266	6,311	12,716	18,646	11,934	8,066	5,433	3,050	2,414
Including wheat flour.....thous. of bush..	4,574	3,564	5,543	6,187	8,470	12,295	19,069	24,167	16,188	12,295	10,064	7,252	7,113
Stocks, held by mills (quarterly).....thous. of bush..	81,841			137,194			154,112			66,660			96,566
Prices:													
No. 1, northern spring, Minneapolis.....dolls. per bush..	.76	.75	.76	.77	.75	.82	.87	.91	.92	1.00	1.07	1.11	1.12
No. 1, northern spring, Minneapolis.....rel. to 1926..	48.1	47.4	48.1	48.7	47.4	51.8	55.0	57.5	58.2	63.2	67.7	70.2	70.8
No. 2, red winter, St. Louis.....dolls. per bush..	.78	.79	.78	.83	.83	.87	.88	.89	.85	1.05	1.14	1.17	1.18
No. 2, red winter, St. Louis.....rel. to 1926..	50.3	50.9	50.3	53.5	53.5	56.1	56.7	57.4	54.8	67.7	73.5	75.4	76.1
No. 2, hard winter, Kansas City.....dolls. per bush..	.70	.69	.69	.71	.69	.74	.78	.81	.80	.89	.99	1.01	1.02
No. 2, hard winter, Kansas City.....rel. to 1926..	46.9	46.3	46.3	47.6	46.3	49.6	52.3	54.3	53.6	59.7	66.4	67.7	68.4
Receipts.....thous. of bush..	30,833	30,672	29,496	21,549	24,597	28,943	62,569	85,476	98,960	18,705	16,535	13,441	16,683
Shipments.....thous. of bush..	15,570	14,817	13,706	15,053	20,955	25,238	44,746	48,053	42,047	20,575	24,091	13,291	12,160
Visible supply, end of month:													
Canada.....thous. of bush..	180,253	183,704	193,858	205,854	197,998	178,827	148,288	90,617	106,554	132,187	147,801	177,424	192,754
United States.....thous. of bush..	207,138	201,862	197,219	195,716	202,475	205,437	213,804	194,800	161,666	109,985	119,682	136,358	153,290
<b>WHEAT FLOUR</b>													
Consumption (computed).....thous. of bbls..	8,654	8,738	9,622	9,846	10,597	11,059	10,929	9,585	10,012	7,883	9,778	8,615	9,163
Exports:													
Canada.....thous. of bbls..	561	415	392	602	792	814	734	627	659	598	573	451	681
United States.....thous. of bbls..	715	762	945	892	1,156	1,330	1,412	1,227	945	940	1,029	934	1,044
Grindings of wheat:													
Canada.....thous. of bush..	5,169	4,607	4,834	5,226	7,789	8,348	7,255	6,930	6,448	5,218	6,258	5,429	5,475
United States.....thous. of bush..	40,133	37,939	42,528	41,307	42,428	49,914	49,382	47,654	43,721	40,137	41,329	41,854	43,083
Prices, wholesale:													
Standard patents, Minneapolis.....dolls. per bbl..	4.67	4.85	4.96	4.89	4.69	4.98	5.08	5.34	5.51	5.83	5.97	6.09	6.23
Standard patents, Minneapolis.....rel. to 1926..	55.4	57.6	58.9	58.0	55.7	59.1	60.3	63.4	65.3	69.1	70.8	72.3	74.0
Winter, straights, Kansas City.....dolls. per bbl..	4.00	4.06	4.09	4.03	4.14	4.23	4.44	4.56	4.64	4.99	5.27	5.40	5.26
Winter, straights, Kansas City.....rel. to 1926..	55.2	56.0	56.3	55.6	57.1	58.3	61.3	62.8	64.0	68.9	72.7	74.5	72.5
Production:													
Canada.....thous. of bbls..	1,168	1,035	1,086	1,170	1,739	1,869	1,624	1,548	1,436	1,161	1,394	1,215	1,219
United States—													
Actual (Census).....thous. of bbls..	8,722	8,242	9,233	8,973	9,184	10,817	10,674	10,313	9,466	8,687	8,981	9,071	9,347
Prorated (Russells).....thous. of bbls..	9,275	8,750	9,937	9,888	10,403	12,089	12,241	11,562	10,507	9,423	10,507	9,749	10,207
Capacity.....per cent.	52	56	55	54	60	62	67	62	57	54	53	53	55
Grain offal.....thous. of bbls..	713,383	678,795	761,935	739,243	762,108	899,580	888,576	851,404	774,252	713,579	732,153	742,542	763,376
Stocks:													
All positions (computed) end of month.....thous. of bbls..	5,526	5,620	6,370	7,000	7,850	9,200	9,500	9,600	8,850	9,300	8,700	9,000	8,800
Held by mills (quarterly).....thous. of bbls..	3,712			4,016			3,940			3,535			4,239
<b>Meats</b>													
<b>CATTLE AND BEEF</b>													
Beef products:													
Apparent consumption.....thous. of lbs..	380,033	335,603	384,754	397,741	331,945	463,928	434,287	409,475	415,278	386,049	423,831	393,450	371,112
Cold-storage holdings, end of month.....thous. of lbs..	60,906	67,622	72,398	75,285	73,392	63,862	60,023	59,755	64,591	66,891	71,556	80,620	88,743
Exports.....thous. of lbs..	1,444	961	902	1,207	1,491	2,347	1,793	1,661	1,987	1,973	1,610	1,360	1,431
Production, inspected.....thous. of lbs..	374,151	330,321	381,531	398,741	342,405	468,983	434,625	403,081	411,227	375,276	401,989	373,810	353,129
Cattle movements primary markets:													
Local slaughter.....thousands.....	960	812	897	1,015	823	1,183	1,084	959	1,004	953	947	1,016	919
Receipts.....thousands.....	1,535	1,303	1,608	1,736	1,696	2,377	2,108	1,605	1,512	1,459	1,517	1,644	1,547
Shipments, stocker and feeder.....thousands.....	146	147	222	332	478	691	443	150	109	129	199	255	207
Shipments, total.....thousands.....	546	486	607	1,015	873	1,223	947	619	501	496	569	639	592
Prices:													
Beef, fresh, carcass, good native steers, Chicago.....dolls. per lb..	.169	.178	.195	.195	.195	.195	.191	.168	.174	.195	.215	.239	.240
Beef, fresh, carcass, good native steers, Chicago.....rel. to 1926..	102.8	108.1	118.8	118.8	118.8	118.8	116.1	102.4	105.7	118.8	130.9	145.4	146.2
Beef, fresh, carcass, steers, New York.....dolls. per lb..	.180	.196	.205	.205	.205	.205	.203	.173	.177	.218	.220	.220	.215
Beef, fresh, carcass, steers, New York.....rel. to 1926..	105.4	115.0	120.1	120.1	120.1	120.1	118.6	101.1	103.7	127.4	128.9	128.9	126.0
Cattle, corn fed, Chicago.....dolls. per 100 lbs..	9.08	9.11	10.00	10.58	10.31	9.97	10.33	9.14	9.28	10.73	11.56	12.56	12.80
Cattle, corn fed, Chicago.....rel. to 1926..	95.2	95.6	105.0	111.0	108.2	104.6	108.4	95.9	97.4	112.6	121.3	131.8	134.3

\* Revised.

\* Quarter ending in the month indicated.

MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>COMMODITY GROUPS—Continued</b>													
<b>FOODSTUFFS—Continued</b>													
<b>Meats—Continued</b>													
<b>HOGS AND PORK</b>													
Hog movements, primary markets:													
Local slaughter.....thousands..	1,962	2,293	2,907	2,460	2,169	2,048	1,703	1,487	1,782	2,123	2,084	1,980	1,853
Receipts.....thousands..	3,207	3,704	4,652	4,002	3,439	3,441	2,799	2,617	2,918	3,215	3,293	3,255	3,294
Shipments, stocker and feeder.....thousands..	31	37	45	41	37	39	38	35	30	40	47	57	58
Shipments, total.....thousands..	1,234	1,417	1,739	1,542	1,269	1,392	1,000	1,133	1,139	1,082	1,216	1,280	1,451
Lard (included in pork products):													
Cold-storage holdings, end of month.....thous. of lbs..	78,456	74,977	62,624	51,434	31,582	36,211	59,732	88,868	118,353	120,322	115,270	104,905	105,067
Exports.....thous. of lbs..	58,395	68,760	68,882	45,114	42,552	41,396	37,417	49,287	51,670	56,666	62,562	50,045	66,533
Production.....thous. of lbs..		147,632	186,062	150,538	119,355	101,672	88,059	98,167	121,351	133,563	135,785	123,565	124,129
Pork production:													
Apparent consumption.....thous. of lbs..	563,856	508,890	663,947	608,323	553,479	636,426	551,557	558,041	557,811	573,489	598,020	567,651	531,874
Cold-storage holdings, end of month—													
Total.....thous. of lbs..	921,998	828,385	788,888	572,626	443,286	393,017	507,159	639,827	769,797	799,543	790,437	816,605	858,063
Fresh and cured.....thous. of lbs..	843,542	853,408	726,264	521,192	411,704	356,806	447,427	550,959	651,444	679,221	675,167	711,700	752,996
Exports.....thous. of lbs..													
Total.....thous. of lbs..	73,610	83,470	86,902	61,134	62,325	53,798	53,892	72,719	75,473	82,054	93,589	77,466	97,898
Other products than lard.....thous. of lbs..	15,215	14,710	18,020	16,020	19,773	12,402	16,475	23,431	23,803	25,388	31,028	27,421	31,365
Production, inspected.....thous. of lbs..	630,661	731,633	962,175	798,311	665,665	575,700	472,467	500,438	603,323	664,172	665,124	603,184	589,968
Prices:													
Hams, smoked, Chicago.....dolls. per lb..	.187	.195	.207	.213	.222	.221	.227	.229	.230	.233	.228	.229	.243
Hams, smoked, Chicago.....rel. to 1926..	60.7	63.5	67.1	69.2	72.1	71.7	73.8	74.4	74.7	75.6	73.9	74.4	78.8
Hogs, heavy, Chicago.....dolls. per 100 lbs..	7.18	6.73	7.34	7.94	8.86	9.86	10.58	9.78	8.94	9.68	10.02	9.98	9.83
Hogs, heavy, Chicago.....rel. to 1926..	58.2	54.5	59.5	64.3	71.8	79.9	85.8	79.2	72.5	78.4	81.2	80.9	79.6
Lard, prime contract, New York.....dolls. per lb..	.094	.085	.090	.100	.112	.119	.119	.114	.100	.102	.107	.107	.107
<b>SHEEP AND LAMBS</b>													
Lamb and mutton:													
Apparent consumption.....thous. of lbs..	54,976	50,967	58,195	56,348	50,890	64,946	58,873	52,646	52,074	47,764	53,781	55,488	56,726
Cold-storage holdings, end of month.....thous. of lbs..	3,038	3,573	4,081	4,677	4,628	4,326	4,320	3,977	4,476	4,820	4,639	5,190	5,174
Production, inspected.....thous. of lbs..	54,486	50,511	57,642	56,453	51,236	65,060	59,297	52,268	51,861	48,239	53,375	55,602	56,494
Prices:													
Sheep, ewes, Chicago.....dolls. per 100 lbs..	3.79	3.69	3.44	2.93	3.38	3.84	3.08	3.09	3.06	3.45	4.78	5.13	5.14
Sheep, ewes, Chicago.....rel. to 1926..	57.5	55.9	52.1	44.4	51.2	43.1	46.6	46.9	46.5	52.3	72.5	77.7	77.9
Sheep, lambs, Chicago.....dolls. per 100 lbs..	8.27	8.31	7.98	7.40	7.13	7.03	7.35	7.72	8.13	9.73	9.04	8.94	9.73
Sheep, lambs, Chicago.....rel. to 1926..	60.4	60.7	58.3	54.0	52.0	51.3	53.6	56.3	59.3	71.0	66.0	65.2	71.0
Sheep movement primary market:													
Local slaughter.....thousands..	1,157	1,056	1,201	1,230	1,079	1,597	1,479	1,266	1,362	1,263	1,249	1,278	1,210
Receipts.....thousands..	2,119	1,964	2,175	2,307	2,607	3,784	3,580	2,583	2,296	2,230	2,334	2,230	2,151
Shipments, stocker and feeder.....thousands..	103	105	184	282	761	1,024	907	465	206	216	142	134	99
Shipments, total.....thousands..	948	908	979	1,081	1,534	2,238	2,016	1,317	940	955	1,092	975	936
Miscellaneous meats:													
Cold-storage holdings, end of month.....thous. of lbs..	85,346	92,744	93,747	84,169	75,818	72,444	80,653	84,324	90,631	87,980	83,294	83,622	85,868
Total meats:													
Apparent consumption.....mills. of lbs..	999	895	1,107	1,062	936	1,165	1,045	1,020	1,025	1,007	1,076	1,017	960
Cold-storage holdings, end of month.....mills. of lbs..	1,071	1,092	959	737	597	534	652	788	929	959	950	986	1,038
Production.....mills. of lbs..	1,059	1,112	1,401	1,254	1,059	1,110	966	956	1,066	1,088	1,120	1,033	1,005
<b>POULTRY</b>													
Cold-storage holdings, end of month.....thous. of lbs..	69,957	95,188	101,307	104,913	82,925	59,269	46,938	42,589	46,967	54,253	61,167	77,420	105,708
Receipts at 5 markets.....thous. of lbs..	20,600	26,008	34,472	73,314	67,361	33,128	24,900	20,527	19,858	23,867	21,942	17,847	16,954
Prices:													
Retail food (Dept. of Labor).....rel. to 1913..	126	127	133	137	141	144	146	144	144	148	150	151	150
Wholesale food (Dept. of Labor).....	76.7	77.1	80.1	81.8	85.7	88.6	89.2	87.1	86.3	90.5	92.0	94.6	93.9
<b>SUGAR</b>													
Cuban movement (raw):													
Exports.....long tons..	125,350	168,450	86,518	231,039	413,406	291,311	274,588	314,239	326,074	236,592	446,188	335,529	153,083
Receipts at Cuban ports.....long tons..	519,178	429,576	105,726	150,277	213,688	124,848	152,166	160,710	149,333	164,444	401,856	669,252	793,762
Stocks, end of month.....thous. of long tons..	844	461	80	669	764	958	1,163	1,279	1,418	1,631	1,701	1,755	1,412
Prices:													
Retail coverage, 51 cities.....rel. to 1913..	106	107	107	107	107	106	107	111	111	111	115	115	116
Retail granulated, New York.....dolls. per lb..	.051	.053	.053	.053	.053	.053	.054	.054	.054	.055	.057	.055	.055
Wholesale, 96° centrif., New York.....dolls. per lb..	.033	.033	.034	.033	.034	.033	.031	.032	.033	.032	.032	.035	.036
Wholesale, 96° centrif., New York.....rel. to 1926..	75.8	76.3	77.9	75.8	78.8	76.3	72.1	73.0	75.3	74.4	74.0	80.4	82.3
Wholesale, granulated, New York.....dolls. per lb..	.043	.045	.046	.046	.047	.044	.043	.044	.046	.045	.048	.048	.049
Wholesale, granulated, New York.....rel. to 1926..	79.2	81.4	83.2	83.2	85.0	80.8	79.2	80.3	84.1	82.7	86.7	88.0	88.7

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MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<i>Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"</i>													
COMMODITY GROUPS—Continued													
<b>FOODSTUFFS—Continued</b>													
<b>Sugar—Continued</b>													
Raw:													
Imports—													
From Hawaii and Porto Rico..... long tons.....	150,951	151,980	81,700	5,590	50,977	82,660	117,776	132,240	199,950	109,929	123,537	188,571	185,704
From foreign countries..... long tons.....	364,493	212,453	122,071	306,500	293,455	277,350	273,952	181,182	195,187	201,442	558,190	271,925	204,271
Meltings, 8 ports..... long tons.....	340,950	303,487	258,585	207,006	337,360	402,333	413,912	360,592	501,569	371,714	469,484	432,111	410,063
Stocks at refineries, end of month..... long tons.....	420,650	329,324	293,938	322,208	321,930	283,778	378,969	442,894	444,415	622,945	744,247	574,224	529,067
Refined:													
Exports, including maple..... long tons.....	4,612	3,085	3,572	4,723	6,576	8,553	6,668	7,246	4,661	4,742	7,074	4,830	4,487
Shipments, 2 ports..... long tons.....	49,077	54,570	42,717	33,645	59,916	62,113	72,208	49,066	89,928	69,423	80,822	72,114	68,838
Stocks, 2 ports..... long tons.....	54,665	29,070	34,019	42,555	37,759	46,134	53,998	533,324	48,600	47,827	61,571	63,357	42,405
<b>Tea</b>													
Imports..... thous. of lbs.....	7,995	5,223	7,289	8,029	7,565	9,917	8,717	8,134	7,007	6,555	4,712	5,796	6,355
Price, Formosa, fine, New York, dolls. per lb.....	.225	.225	.225	.225	.225	.223	.224	.290	.292	.300	.300	.300	.300
<b>FOREST PRODUCTS</b>													
<b>Lumber—General Operations</b>													
Exports..... M ft. b. m.....	73,283	<sup>2</sup> 67,792	<sup>2</sup> 114,557	128,424	110,855	122,690	139,138	136,628	163,025	189,075	158,853	171,344	152,156
New orders..... rel. to 1923-1925.....	39.4	35.7	36.7	33.8	36.8	39.4	53.7	43.5	52.7	49.0	52.7	49.0	51.5
Prices, wholesale composite..... rel. to 1926.....	74.2	73.2	76.0	78.1	80.1	80.2	80.8	81.1	83.3	85.3	89.7	91.8	91.6
Production index (elect. energy consumed)..... rel. to 1923-1925.....	93.2	84.2	82.6	73.3	86.5	77.1	105.6	97.7	100.0	107.3	102.4	102.8	93.7
Stocks, end of month..... rel. to 1923-1925.....	108.8	<sup>2</sup> 111.2	<sup>2</sup> 113.2	117.3	113.7	110.0	108.3	107.4	107.3	103.1	108.4	111.0	114.2
Unfilled orders, end of month..... rel. to 1923-1925.....	48.8	<sup>2</sup> 47.7	<sup>2</sup> 46.8	47.0	<sup>2</sup> 42.6	<sup>2</sup> 46.3	<sup>2</sup> 59.0	<sup>2</sup> 54.9	80.9	78.6	79.8	73.5	78.1
<b>Lumber—Distribution</b>													
Retail yards, 9th Fed. Res. Dist.:													
Sales..... M ft. b. m.....	6,657	3,494	3,563	4,145	9,028	13,596	12,516	12,393	12,110	13,943	10,876	10,309	6,657
Stocks, end of month..... M ft. b. m.....	93,434	80,251	76,552	70,531	71,025	73,743	79,471	84,567	88,919	89,639	92,391	93,483	93,434
Retail yards, 10th Fed. Res. Dist.:													
Sales..... M ft. b. m.....	3,389	2,641	2,878	2,530	3,940	5,114	4,580	4,262	4,407	3,803	4,750	5,611	5,189
Stocks, end of month..... M ft. b. m.....	39,657	38,628	37,839	37,739	38,108	38,674	40,116	41,543	42,700	43,211	44,241	43,668	44,741
<b>Lumber—Flooring</b>													
Maple flooring:													
New orders..... M ft. b. m.....	3,131	3,455	3,584	1,905	2,798	2,530	2,983	3,541	3,531	3,481	4,130	3,815	3,266
Production..... M ft. b. m.....	3,760	3,179	3,452	3,045	2,759	2,643	3,301	3,616	3,396	3,321	4,469	5,126	4,659
Shipments..... M ft. b. m.....	3,017	2,676	2,351	1,811	2,554	2,886	3,331	4,416	4,625	3,956	4,669	4,096	4,176
Stocks, end of month..... M ft. b. m.....	26,193	25,835	25,578	24,271	23,353	22,985	23,915	24,476	25,469	26,821	27,428	28,048	26,734
Unfilled orders, end of month..... M ft. b. m.....	5,180	5,248	4,664	3,491	3,204	3,188	2,953	3,528	3,975	4,863	4,738	4,689	4,346
<b>Lumber—Hardwood</b>													
All hardwoods:													
New orders..... mill. ft. b. m.....	188	169	125	133	154	176	139	128	143	195	199	203	203
Production..... mill. ft. b. m.....	158	143	134	143	158	161	165	172	214	240	255	270	270
Shipments..... mill. ft. b. m.....	165	158	125	148	169	180	154	150	165	203	218	221	221
Stocks, end of month—													
Total..... mill. ft. b. m.....	3,249	3,308	3,319	3,273	3,270	3,261	3,308	3,323	3,294	3,217	3,182	3,141	3,141
Unsold..... mill. ft. b. m.....	2,769	2,851	2,863	2,821	2,805	2,787	2,808	2,795	2,737	2,614	2,555	2,500	2,500
Unfilled orders, end of month..... mill. ft. b. m.....	481	456	456	452	466	475	500	526	557	603	627	641	641
Gum:													
Stocks, end of month—													
Total..... mill. ft. b. m.....	713	726	611	610	608	601	610	609	598	587	573	552	552
Unsold..... mill. ft. b. m.....	601	607	511	509	504	494	497	488	470	456	442	422	422
Unfilled orders, end of month..... mill. ft. b. m.....	121	118	100	102	104	107	113	120	128	131	130	130	130
Northern hardwoods:													
Production..... M ft. b. m.....	17,252	14,178	8,147	4,382	4,772	4,371	9,225	14,363	16,321	19,560	23,851	25,788	25,788
Shipments..... M ft. b. m.....	12,330	10,854	8,021	9,374	11,285	11,862	11,167	12,649	13,345	18,479	18,201	18,513	18,513
Oak:													
Stocks, end of month—													
Total..... mill. ft. b. m.....	990	1,017	1,029	1,022	1,021	1,016	1,036	1,044	1,049	1,038	1,051	1,055	1,055
Unsold..... mill. ft. b. m.....	861	918	935	928	924	918	927	929	917	885	870	865	865
Unfilled orders, end of month..... mill. ft. b. m.....	129	99	95	95	97	98	109	115	132	153	181	189	189
Walnut logs:													
Made into lumber and veneer..... M ft. log measure.....	829	895	1,146	1,340	1,421	1,109	1,029	943	1,268	1,588	2,011	2,138	2,138
Purchases..... M ft. log measure.....	874	1,179	1,204	1,460	1,294	1,171	886	598	712	1,008	1,820	1,788	1,788
Stocks, end of month..... M ft. log measure.....	1,172	1,136	777	791	670	805	745	885	1,198	1,649	2,093	2,364	2,364
Walnut lumber:													
New orders..... M ft. b. m.....	1,471	1,152	1,203	1,343	1,809	1,735	1,698	1,031	1,989	1,476	1,638	1,732	1,732
Production..... M ft. b. m.....	804	642	1,184	1,444	1,386	1,121	1,174	1,312	1,850	1,786	2,654	2,599	2,599
Shipments..... M ft. b. m.....	1,363	1,064	1,187	1,470	1,907	1,861	1,511	1,123	1,696	1,717	2,069	1,860	1,860
Stocks, end of month..... M ft. b. m.....	17,236	18,295	17,670	18,731	18,796	19,334	20,090	20,454	20,281	19,634	19,503	18,905	18,905
Unfilled orders, end of month..... M ft. b. m.....	3,314	3,211	3,118	3,393	3,646	4,085	4,025	4,016	3,970	3,389	3,408	3,886	3,886
<b>Lumber—Softwood</b>													
California redwood:													
New orders (computed)..... M ft. b. m.....	24,485	20,695	25,928	17,857	21,485	30,603	27,155	25,293	30,574	26,092	30,052	26,401	29,768
Production (computed)..... M ft. b. m.....	21,795	23,836	26,998	23,048	25,900	35,063	28,337	28,835	28,335	31,095	29,650	30,146	34,959
Shipments (computed)..... M ft. b. m.....	24,852	23,555	21,410	20,307	20,549	31,808	27,505	25,044	31,305	28,384	29,566	38,576	31,097
Unfilled orders, end of month (computed)..... M ft. b. m.....	22,726	23,613	28,725	22,766	25,514	24,277	26,150	26,573	26,254	25,815	30,880	31,080	32,403

<sup>2</sup> Revised.

MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<i>Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"</i>													
COMMODITY GROUPS—Continued													
<b>FOREST PRODUCTS—Continued</b>													
<b>Lumber—Softwood—Continued</b>													
Douglas fir:													
Exports:													
Lumber..... M ft. b. m.	15,211	14,951	38,251	53,718	42,364	43,801	48,097	42,129	61,813	85,004	60,420	70,343	45,184
Timber..... M ft. b. m.	19,064	14,978	16,081	12,859	9,151	12,511	16,114	25,850	22,369	41,849	46,979	41,942	37,143
New orders..... M ft. b. m.	217,109	180,355	191,593	189,355	186,222	203,232	217,557	222,929	213,080	239,939	291,419	292,314	290,076
Price, wholesale— No. 1 common, dolls. per M ft. b. m.	12.68	12.86	12.82	12.99	13.25	12.98	13.14	13.44	14.47	14.30	15.16	16.26	16.75
Flooring, 1x4 "B" and better, V. G..... dolls. per M ft. b. m.	31.14	31.65	31.33	31.73	33.40	33.77	34.58	35.65	36.57	36.94	38.19	38.87	41.12
Production..... M ft. b. m.	186,222	179,059	160,258	167,420	191,593	208,156	199,651	206,813	190,250	253,309	307,982	329,021	329,021
Shipments..... M ft. b. m.	195,622	186,069	178,164	174,583	179,954	199,651	200,546	218,452	231,434	275,751	294,552	286,495	297,238
Unfilled orders, end of month, M ft. b. m.	196,517	181,745	182,640	188,012	176,373	137,876	176,373	131,742	172,344	199,203	201,889	265,903	216,602
North Carolina pine:													
Production (computed)..... M ft. b. m.		24,318	24,129	28,350	28,140	29,386	27,832	27,349	26,803	35,917	38,346	41,979	43,526
Shipments (computed)..... M ft. b. m.		32,417	32,844	30,317	34,300	35,049	35,392	33,481	30,730	38,164	36,666	39,627	39,683
Northern hemlock:													
Production..... M ft. b. m.		6,085	6,526	5,812	4,046	4,374	6,876	8,223	13,245	9,555	10,595	10,700	11,213
Shipments..... M ft. b. m.		5,508	6,094	4,955	6,596	7,436	6,751	7,007	8,033	8,455	9,539	8,616	8,919
Northern pine:													
Lath—													
Production..... thousands.....			None.	None.	33	1,273	3,229	3,968	5,214	4,558	4,770	3,215	571
Shipments..... thousands.....			4,174	1,450	3,162	3,671	6,047	4,833	4,473	4,001	3,815	4,861	3,524
Lumber—													
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
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
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
Western pine:													
New orders..... mill. ft. b. m.		198	87	111	97	177	149	131	174	138	172	147	137
Production..... mill. ft. b. m.		129	63	85	98	139	152	183	179	198	225	217	172
Shipments..... mill. ft. b. m.		214	107	108	114	164	152	159	150	153	162	165	160
Stocks end of month..... mill. ft. b. m.		1,174	1,218	1,262	1,284	1,300	1,330	1,336	1,313	1,283	1,242	1,182	1,134
<b>Lumber—Southern Yellow Pine</b>													
New orders..... M ft. b. m.	174,020	170,709	190,985	146,465	177,327	213,028	206,024	189,350	196,791	183,820	229,906	243,247	230,459
Production..... M ft. b. m.	164,929	153,831	165,065	157,143	184,712	210,972	207,107	202,016	223,647	218,268	258,049	278,332	274,542
Shipments..... M ft. b. m.	175,742	163,926	182,679	145,110	176,110	217,855	209,545	199,360	205,419	194,561	244,818	254,699	258,612
Unfilled orders..... M ft. b. m.	113,043	106,932	116,193	99,036	105,021	108,864	112,266	124,362	127,806	151,200	160,062	180,012	192,843
Exports:													
Lumber..... M ft. b. m.	22,478	21,309	33,509	35,873	28,113	31,957	44,007	43,312	34,276	47,429	45,109	44,788	49,870
Timber..... M ft. b. m.	6,261	4,935	8,163	9,029	11,896	10,590	11,509	9,153	10,500	14,970	11,375	12,412	17,445
Price, flooring..... dolls. per M ft. b. m.	29.66	28.42	30.73	32.51	33.44	34.01	33.48	31.72	33.89	33.06	36.53	36.39	37.20
Price, index..... rel. to 1926.....	65.8	63.0	68.1	72.1	74.1	75.4	74.2	70.3	75.1	73.3	81.0	80.7	82.5
<b>Lumber—Veneer</b>													
Rotary-cut veneer:													
Receipts..... no. of carloads.....	105	118	101	111	106	101	147	100	118	115	93	181	203
Purchases..... no. of carloads.....	82	118	138	112	97	101	139	106	116	133	73	122	120
<b>Lumber—Manufactures</b>													
Household furniture and case goods:													
Grand Rapids district—													
Cancellations..... per cent new orders.....	12.0	6.0	7.0	16.0	7.0	9.0	5.0	6.0	7.0	23.0	13.0	22.0	13.0
New orders..... no. days' production.....	14	13	16	15	22	21	29	18	18	10	23	13	15
Outstanding accounts, end of month..... no. days' sales.....	34	35	42	43	48	51	52	40	37	36	37	39	42
Plant operations..... per cent full time.....	64.0	63.0	68.0	71.0	81.0	85.0	89.0	79.0	67.0	70.0	61.0	69.0	70.0
Shipments..... no. days' production.....	13	13	14	17	18	26	27	18	13	12	12	16	16
Unfilled orders, end of month..... no. days' production.....	15	17	18	17	22	20	26	24	27	24	26	18	24
Southeastern district—													
Shipments..... dolls., av. per firm.....				24,765	34,207	53,091	63,343	56,456	45,686	32,956	41,015	47,092	54,233
Unfilled orders, end of month..... dolls., av. per firm.....				14,073	15,411	17,335	25,830	33,432	35,903	33,951	22,028	22,976	30,837
Steel furniture. (See under steel manufactured products.)													
Wholesale prices:													
Beds..... rel. to 1926.....	90.7	90.7	90.7	90.7	91.7	91.7	91.7	91.7	91.7	91.7	92.3	92.3	92.3
Dining room chairs, sets of six, rel. to 1926.....	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
Kitchen cabinets..... rel. to 1926.....	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
Living-room davenport..... rel. to 1926.....	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
<b>LEATHER PRODUCTS</b>													
<b>General Operations</b>													
Prices, wholesale, composite..... rel. to 1926.....	88.4	80.0	90.8	91.5	93.3	96.7	98.2	99.9	100.1	102.9	104.2	105.3	107.4
Production index (Fed. Res. Bd.)..... rel. to 1923-25.....	90	87	77	81	80	89	95	95	95	97	98	103	99
Production index (elect. energy consumed)..... rel. to 1923-25.....	71.2	76.1	71.6	68.7	63.0	84.0	73.5	87.7	97.3	96.8	66.3	91.2	80.8
Stocks, end of month..... rel. to 1923-25.....	80.1	79.3	82.9	84.2	82.5	81.8	79.5	78.6	79.1	80.3	78.6	76.1	75.8
<b>Hides</b>													
Imports—													
Calfskins..... thous. of lbs.....	1,818	1,107	1,670	1,722	2,202	3,264	2,835	1,403	1,295	3,505	5,720	2,815	2,408
Cattle hides..... thous. of lbs.....	6,867	4,149	5,186	6,781	6,187	6,888	12,743	11,389	11,504	13,992	26,839	31,007	21,169
Goatskins..... thous. of lbs.....	6,292	3,991	5,863	6,154	5,761	7,268	6,807	8,075	7,455	10,016	12,271	7,827	9,670
Sheepskins..... thous. of lbs.....	3,280	2,890	4,040	3,313	1,965	2,821	3,289	4,460	6,219	7,626	6,284	6,186	2,971
Total, hides and skins..... thous. of lbs.....	19,468	13,417	20,211	20,471	18,207	21,512	27,598	26,681	27,960	37,407	54,900	50,966	40,097



MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
COMMODITY GROUPS—Continued													
<b>LEATHER PRODUCTS—Continued</b>													
<b>Hides—Continued</b>													
Inspected slaughter of livestock:													
Canada—													
Cattle and calves.....thous. of animals..	85	53	69	75	78	97	84	75	81	81	108	100	74
Sheep.....thous. of animals..	32	32	37	53	98	185	114	79	56	36	23	27	24
Swine.....thous. of animals..	154	161	166	170	168	160	140	124	127	159	174	162	168
United States—													
Cattle.....thous. of animals..	635	559	651	692	605	836	760	700	710	654	690	635	615
Calves.....thous. of animals..	416	353	379	398	324	438	374	363	375	356	421	455	388
Sheep.....thous. of animals..	1,324	1,223	1,426	1,426	1,305	1,727	1,591	1,413	1,411	1,295	1,370	1,387	1,358
Swine.....thous. of animals..	3,523	4,142	5,362	4,647	4,024	3,492	2,773	2,724	3,187	3,689	3,823	3,480	3,392
Prices:													
Calfskins, No. 1, country (Chicago).....dolls. per lb..	.128	.117	.125	.144	.156	.172	.165	.161	.165	.175	.169	.159	.156
Calfskins, No. 1, country (Chicago).....rel. to 1926..	73.5	67.4	71.8	83.0	89.7	99.2	95.2	93.0	95.2	100.9	97.3	91.4	89.7
Packers, heavy, native steers (Chicago).....dolls. per lb..	.090	.073	.095	.107	.118	.133	.146	.136	.141	.152	.143	.140	.142
Packers, heavy, native steers (Chicago).....rel. to 1926..	64.1	52.1	67.7	75.9	84.2	94.8	103.8	96.7	100.1	108.3	102.0	99.8	101.1
Stocks, end of month:													
Calf and kip skins.....thous. of lbs..	23,132	24,104	26,707	27,553	28,221	26,972	25,536	27,166	27,725	30,034	30,006	25,538	25,478
Cattle hides.....thous. of lbs..	223,182	225,315	235,649	237,392	227,647	227,099	218,446	212,980	217,302	224,209	223,025	218,530	218,308
Sheep and lamb skins.....thous. of lbs..	34,168	33,172	33,296	34,489	34,368	34,546	35,490	36,079	34,087	32,423	28,492	26,218	24,372
Total hides and skins.....thous. of lbs..	280,482	282,591	295,652	299,434	290,236	288,617	279,472	276,225	279,114	286,666	281,523	270,286	268,158
<b>Leather—Raw</b>													
Sole and belting:													
Exports.....thous. of sq. ft..	949	713	726	1,128	825	691	673	374	640	849	669	450	579
Price, oak, scoured backs (Boston).....dolls. per lb..	.370	.365	.380	.400	.410	.410	.440	.460	.460	.440	.460	.470	.490
Price, oak, scoured backs (Boston).....rel. to 1926..	84.4	83.3	86.7	91.3	93.5	93.5	100.4	104.9	104.9	100.4	104.9	107.2	111.8
Production—													
Sole only.....thous. of backs, bends, sides..	984	951	1,087	1,226	1,071	1,333	1,330	1,316	1,365	1,310	1,340	1,332	1,293
Sole and belting.....thous. of lbs..	18,219	17,386	19,559	21,993	18,777	23,418	23,137	23,223	23,894	23,542	24,355	24,854	24,551
Stocks, end of month—													
Finished.....thous. of lbs..	88,044	90,321	91,827	90,878	86,331	84,036	81,569	80,018	76,863	74,799	72,724	69,805	69,876
In process of tanning.....thous. of lbs..	71,122	72,488	73,261	74,135	77,485	78,815	80,895	84,367	85,953	77,946	85,495	85,760	84,300
Upper leather:													
Exports.....thous. of sq. ft..	9,347	7,700	9,133	8,118	7,451	9,838	8,813	8,367	7,287	8,765	11,481	8,684	10,375
Price, composite, chrome, calf, black "B" grade.....dolls. per sq. ft..	.352	.354	.359	.355	.367	.372	.372	.371	.371	.371	.371	.372	.379
Production.....thous. of sq. ft..	61,515	54,706	52,225	59,459	53,658	65,339	63,304	61,477	62,016	60,544	60,699	63,027	68,997
Stocks—													
Finished.....thous. of sq. ft..	261,057	264,392	282,079	289,092	279,023	270,902	255,787	254,020	259,561	262,621	255,738	256,155	256,867
In process of tanning.....thous. of sq. ft..	127,867	128,967	129,513	134,633	133,357	137,513	141,495	143,063	150,287	141,506	141,190	138,975	139,865
<b>Leather—Manufactures</b>													
Gloves cut.....dozen pairs..													
175,988	158,485	162,388	157,079	236,263	236,911	219,548	241,146	209,873	237,377	240,495	251,140	264,372	
Shoes:													
Exports.....thous. of pairs..	185	130	130	208	270	269	256	263	256	257	302	175	293
Prices, wholesale—													
Men's black calf blucher (Boston).....dolls. per pair..													
6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75
105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
Men's dress welt tanned calf, oxford, (St. Louis).....dolls. per pair..													
4.60	4.60	4.60	4.72	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85
Men's dress welt, tanned calf, oxford, (St. Louis).....rel. to 1926..													
95.1	95.0	95.0	97.3	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2
Women's black kid, dress welt, lace, oxford.....dolls. per pair..													
			3.66	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
29,155	23,971	19,889	17,537	18,541	27,731	29,334	28,429	24,121	23,904	24,512	29,001	28,626	
<b>IRON AND STEEL</b>													
<b>General Operations</b>													
New orders.....rel. to 1923-25..	743	59.9	66.9	70.9	58.0	67.8	70.7	74.4	86.1	84.0	95.9	103.8	113.0
Prices, wholesale, metals and metal products.....rel. to 1926..	89.0	88.9	89.3	90.0	90.2	90.4	91.8	92.7	94.3	95.4	96.8	98.8	100.6
Production index (Fed. Res. Bd.).....rel. to 1923-25..	79	73	64	59	65	75	86	93	93	110	111	114	113
Production index (elect. energy consumed).....rel. to 1923-25..	119.4	116.5	103.4	110.2	106.5	126.0	110.3	112.0	109.7	115.2	135.1	138.3	136.8
Stocks, manufactured goods, end of month.....rel. to 1923-25..	142.7	141.1	141.7	146.4	146.1	147.1	145.3	143.3	152.8	148.1	154.0	152.3	146.9
Stocks, raw materials, end of month.....rel. to 1923-25..	139.6	131.9	130.9	129.6	139.8	134.1	137.0	137.2	119.0	111.7	97.1	91.5	82.9
Unfilled orders, end of month.....rel. to 1923-25..	69.6	68.6	71.6	76.3	69.4	67.4	67.9	70.5	78.3	77.5	79.5	87.2	92.5
<b>Ore</b>													
Iron ore:													
Consumption.....thous. of long tons..	2,835	2,368	2,350	2,339	2,640	3,050	3,282	3,673	3,838	4,283	4,715	4,576	4,628
Imports.....thous. of long tons..	169	95	150	176	74	186	215	178	251	292	291	313	301
Receipts—													
Lake Erie ports and furnaces.....thous. of long tons..													
None.	None.	None.	None.	1,634	4,011	4,721	5,586	6,346	5,755	3,987	10	None.	None.
Other ports.....thous. of long tons..													
None.	None.	None.	None.	993	1,675	1,891	2,492	2,515	2,697	2,100	None.	None.	None.
Shipments from mines.....thous. of long tons..													
None.	None.	None.	None.	1,988	5,531	6,488	8,252	8,587	8,650	6,979	108	None.	None.
Stocks end of month—													
At furnaces.....thous. of long tons..													
25,751	28,247	30,430	32,618	34,761	34,750	32,323	29,397	25,493	21,087	17,072	15,950	19,785	
On Lake Erie docks.....thous. of long tons..													
5,765	6,011	6,190	6,331	6,466	6,342	6,043	5,541	5,022	4,613	4,253	4,335	5,092	
31,516	34,258	36,620	38,949	41,227	41,092	38,366	34,938	30,515	25,700	21,325	20,285	24,877	
Manganese ore:													
Imports.....thous. of long tons..	2	10	17	29	10	18	22	8	16	31	30	26	30

2 Revised.







MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	COMMODITY GROUPS—Continued												
<b>NONFERROUS METALS—Continued</b>													
<b>Raw Materials—Continued</b>													
Zinc:													
Ore, Joplin district—													
Shipments.....short tons.....	17,163	25,389	25,987	31,056	39,478	33,474	32,122	37,994	24,974	41,819	52,454	27,214	51,611
Stocks, mines, end of month.....short tons.....	63,001	58,534	56,013	47,000	40,441	45,689	41,663	38,565	28,729	19,553	20,602	28,486	21,950
Price, slab, prime western (St. Louis).....dolls. per lb.....	.0400	.0401	.0404	.0410	.0427	.0406	.0427	.0436	.0435	.0444	.0464	.0484	.0493
Price, slab, prime western (St. Louis).....rel. to 1926.....	54.5	54.6	55.0	55.9	58.2	55.3	58.2	59.4	59.3	60.5	63.2	65.9	67.2
Production.....short tons.....	32,328	29,562	32,522	32,733	32,097	40,922	40,470	41,012	40,023	43,458	44,556	44,335	48,119
Retorts in operation end of month.....number.....	34,221	35,518	35,635	33,640	37,492	41,004	44,974	50,404	46,030	52,428	52,072	50,038	51,300
Stocks, end of month.....short tons.....	141,493	144,389	145,076	143,618	145,139	143,327	134,835	126,835	117,724	113,090	106,080	100,205	96,367
<b>Manufactured Products</b>													
Electrical equipment:													
Delinquent accounts, electrical trade. (See under Distribution movement.)													
Electric furnaces, new orders.....kilowatts.....	2,046	2,358	4,599	1,489	2,202	3,317	2,866	5,012	5,809	3,665	16,062	12,458	2,620
Electric goods, new orders (quarterly).....thous. of dolls.....	181,265			208,936			228,733			292,902			314,329
Electrical porcelain, shipments—													
Glazed nail knobs.....thous. of pieces.....	1,458	2,523	2,253	2,007	1,834	2,044	2,453	2,218	2,243	2,464	3,292	2,930	3,146
Special.....dollars.....	78,716	86,471	86,976	91,564	93,677	131,815	99,576	111,029	133,654	116,935	111,941	127,295	136,901
Standard.....dollars.....	52,599	64,823	87,794	51,016	47,994	73,659	65,581	69,656	68,483	72,825	80,368	69,308	69,511
Tubes.....thous. of pieces.....	783	1,125	875	522	801	1,156	334	1,146	782	1,140	1,266	928	1,093
Unglazed nail knobs.....thous. of pieces.....	1,224	1,386	1,752	1,159	1,164	1,615	1,222	1,605	1,120	1,524	2,211	1,400	1,232
Industrial reflectors, sales.....units.....	69,484	68,285	65,501	76,659	115,736	113,316	125,786	127,608	135,687	134,783	109,977	107,040	108,210
Laminated phenolic products, shipments													
Manufactured mica—													
Shipments.....thous. of dolls.....	142	137	133	101	132	150	141	122	156	162	195	241	199
Unfilled orders, end of month.....thous. of dolls.....	110	141	105	104	90	104	107	109	88	137	166	178	196
Motors (direct current)—													
Billings (shipments).....dollars.....	445,833	418,228	393,558	500,165	433,530	621,114	596,670	708,095	644,252	673,415	776,081	875,083	833,183
New orders.....dollars.....	396,958	450,204	680,251	617,454	457,518	474,611	820,444	719,846	677,348	935,040	633,088	931,822	842,556
Nonmetallic conduits, shipments.....thous. of feet.....	3,508	3,667	3,997	2,417	3,713	4,067	4,235	3,397	3,564	4,021	4,021	7,660	8,505
Outlet boxes and covers, shipments													
Power cables, shipments.....thous. of feet.....	1,630	1,326	1,139	1,678	1,824	1,957	2,108	2,260	1,980	2,033	1,936	2,368	2,720
Power switching equipment, new orders—													
Indoor.....dollars.....	75,303	64,736	76,052	77,248	69,202	84,160	118,431	121,930	136,559	172,186	128,303	191,277	155,095
Outdoor.....dollars.....	269,425	201,344	228,862	178,160	219,232	342,771	298,354	319,668	451,051	366,584	448,802	476,943	465,117
Vulcanized fiber—													
Consumption.....thous. of lbs.....	1,975	1,652	1,369	1,421	1,513	1,824	1,945	1,828	2,121	1,967	2,144	2,759	2,405
Shipments, total.....thous. of dolls.....	484	426	385	318	359	465	447	430	450	541	517	622	614
Welding sets, new orders—													
Multiple operation.....units.....	11	4	23	13	14	34	9	8	10	7	1	9	5
Single operation.....units.....	177	136	155	152	153	200	194	221	207	228	274	261	251
Miscellaneous products:													
Brass sheets.....rel. to 1926.....	91.4	89.7	90.7	93.6	92.7	88.9	92.5	94.0	95.9	100.9	103.9	114.5	122.2
Copper-wire cloth—													
New orders.....thous. of sq. ft.....	357	309	401	337	269	363	299	336	378	360	378	453	342
Make and hold orders, end of month.....thous. of sq. ft.....	557	530	574	539	530	606	533	516	525	565	540	555	564
Production.....thous. of sq. ft.....	389	297	332	344	310	385	484	387	373	370	401	418	421
Shipments.....thous. of sq. ft.....	308	304	311	309	303	356	317	353	347	395	359	395	395
Stocks, end of month.....thous. of sq. ft.....	1,079	1,083	1,097	1,145	1,176	1,160	1,173	1,117	1,118	1,107	1,145	1,130	1,108
Unfilled orders, end of month.....thous. of sq. ft.....	186	211	217	165	166	199	241	264	279	232	252	220	243
Enameled sheet-metal ware, shipments.....dozen pieces.....													
Pails and tubs, galvanized—													
Production.....dozen pieces.....	146,438	132,781	103,677	87,140	60,798	130,906	103,177	103,050	91,879	89,982	113,645	131,015	135,178
Shipments.....dozen pieces.....	144,637	120,723	133,977	68,898	68,330	115,185	116,875	103,354	104,066	82,956	107,496	120,552	135,602
Other galvanized ware—													
Production.....dozen pieces.....	31,542	34,347	23,716	21,657	16,061	40,084	38,218	46,730	42,056	40,646	44,405	44,058	37,963
Shipments.....dozen pieces.....	29,579	28,142	25,958	15,915	21,296	41,126	46,310	43,827	33,874	33,140	43,483	44,276	38,160
<b>PAPER AND PRINTING</b>													
<b>General Operations</b>													
New orders.....rel. to 1923-25.....	103.7	96.7	97.2	85.8	93.2	106.0	100.5	102.2	104.5	107.3	103.0	117.2	110.8
Production index (Fed. Res. Bd.).....rel. to 1923-25.....		109	105	101	103	107	109	109	111	116	119	121	120
Production index (elect. energy consumed) (paper and pulp).....rel. to 1923-25.....	123.0	127.0	111.8	117.0	112.3	120.0	119.3	115.1	119.9	137.5	132.2	126.7	135.0
Stocks, end of month.....rel. to 1923-25.....	123.4	128.6	125.9	122.6	121.7	127.4	118.1	117.4	112.0	112.9	106.8	93.9	91.8
<b>Wood Pulp</b>													
Ground wood:													
Consumption and shipments.....short tons.....		97,005	108,286	109,740	110,502	121,335	109,860	116,886	122,709	124,903	136,293	132,728	135,389
Imports.....short tons.....	14,652	15,656	14,394	27,024	21,776	31,305	29,502	21,261	17,186	18,534	17,432	20,634	27,329
Production.....short tons.....		97,286	107,622	110,578	102,957	96,465	92,872	97,895	104,997	140,603	162,911	158,700	163,392
Stocks, end of month.....short tons.....		73,506	73,225	75,498	74,660	82,205	107,075	124,083	143,054	160,766	147,710	123,002	99,218
Soda:													
Consumption and shipments.....short tons.....		27,884	28,512	27,128	28,346	28,954	28,638	28,868	28,984	30,004	35,676	34,976	34,872
Production.....short tons.....		29,422	29,102	28,560	28,966	30,684	30,052	29,962	30,326	32,366	38,532	37,814	38,158
Stocks, end of month.....short tons.....		4,624	4,366	5,118	4,936	5,642	5,248	5,166	5,420	5,426	5,652	5,838	6,006

1 Quarter ended in month indicated.





## MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<i>Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"</i>													
COMMODITY GROUPS—Continued													
<b>PAPER AND PRINTING—Continued</b>													
<b>Paper Products</b>													
Paper-board shipping boxes:													
Operating time—													
Corrugated.....per cent of normal..	79	78	63	60	70	80	76	72	73	74	76	78	80
Solid fiber.....per cent of normal..	62	61	54	58	57	65	65	63	68	69	68	65	69
Total.....per cent of normal..	75	74	61	60	67	76	73	70	72	73	74	75	77
Production—													
Corrugated.....thous. of sq. ft..	391,403	382,305	305,274	283,933	347,876	425,900	415,623	388,030	374,709	393,130	390,884	395,832	401,160
Solid fiber.....thous. of sq. ft..	93,895	91,966	77,921	75,507	80,360	92,488	90,955	85,324	86,439	97,474	93,081	91,650	85,315
Total.....thous. of sq. ft..	484,938	474,271	383,195	359,440	428,236	518,388	506,578	473,354	461,148	490,604	483,965	487,482	486,475
Rope paper sacks, shipments...rel. to 1921-22..	65	77	84	66	79	87	88	78	85	87	80	90	92
<b>Printing</b>													
Blank forms, new orders.....thous. of sets..	52,887	48,751	50,587	69,004	47,878	78,707	60,812	55,779	59,152	64,544	68,630	54,901	72,340
Book publication:													
American manufacture.....no. of editions..				618	785	712	643	657	418	440	621	646	790
Imported.....no. of editions..				247	141	95	150	155	74	71	147	241	338
Printing activity.....rel. to 1923..		96	95	95	91	92	93	85	89	96	104	107	108
Sales books:													
New orders.....thous. of books..	11,204	10,054	10,735	9,455	11,053	12,217	11,652	11,026	10,903	12,688	11,730	11,664	12,347
Shipments.....thous. of books..	10,669	10,652	10,454	10,893	10,723	13,428	12,363	11,918	10,572	12,540	10,967	12,237	12,176
<b>RUBBER</b>													
<b>General Operations</b>													
Production index (Fed. Res. Bd.).....rel. to 1923-25..		94	88	73	77	88	84	96	93	119	121	123	105
Production index (elect. energy consumed).....rel. to 1923-25..	109.6	112.9	99.0	84.3	86.1	99.0	107.2	110.5	103.8	104.8	135.3	138.5	130.3
Stocks, end of month.....rel. to 1923-25..	123.4	113.1	107.4	110.6	115.5	117.9	115.8	125.6	136.6	156.0	158.2	155.7	190.6
<b>Crude Rubber</b>													
Consumption, quarterly:													
Total.....long tons..				<sup>3</sup> 66,258			<sup>3</sup> 78,441			<sup>3</sup> 103,250			<sup>3</sup> 93,481
For tires.....long tons..				<sup>3</sup> 52,284			<sup>3</sup> 64,353			<sup>3</sup> 87,072			<sup>3</sup> 77,280
Imports (including latex).....long tons..	40,788	34,374	36,598	37,370	29,733	45,375	35,783	36,657	35,424	40,382	42,994	45,648	45,254
Price, wholesale, smoked sheets, New York.....dolls. per lb..	.077	.076	.082	.089	.089	.084	.080	.100	.111	.124	.142	.150	.153
Price, wholesale, smoked sheets, New York.....rel. to 1926..	15.9	15.7	16.9	18.4	18.4	17.3	16.5	20.6	22.9	25.6	29.3	30.9	31.5
Stocks, domestic, end of quarter:													
Afloat.....long tons..				<sup>3</sup> 44,286			<sup>3</sup> 45,073			<sup>3</sup> 43,203			<sup>3</sup> 53,928
Dealers.....long tons..				<sup>3</sup> 58,804			<sup>3</sup> 59,205			<sup>3</sup> 51,387			<sup>3</sup> 55,187
Manufacturers.....long tons..				<sup>3</sup> 129,575			<sup>3</sup> 91,968			<sup>3</sup> 87,381			<sup>3</sup> 82,223
Total.....long tons..				<sup>3</sup> 188,379			<sup>3</sup> 151,173			<sup>3</sup> 138,767			<sup>3</sup> 137,410
World shipments, plantation.....long tons..	71,218	65,719	65,714	65,661	63,065	71,934	74,941	73,509	60,596	53,944	72,485	63,127	70,347
World stocks, end of month:													
Afloat.....long tons..	88,959	84,469	82,687	81,479	80,236	84,435	97,701	82,805	84,129	75,480	85,835	85,875	96,297
Europe.....long tons..	137,452	130,247	127,553	121,131	119,010	118,873	120,389	112,798	111,751	109,908	105,035	100,729	93,232
Producing countries.....long tons..	45,782	43,958	43,154	36,118	37,564	36,046	37,714	42,910	40,362	39,300	41,923	43,176	41,725
United States.....long tons..	215,523	210,611	207,085	201,000	193,091	188,310	171,285	162,283	158,445	155,000	146,179	148,272	141,843
World total.....long tons..	487,716	469,285	460,479	439,728	429,901	427,664	427,089	400,796	394,687	379,688	378,972	378,052	373,097
Reclaimed rubber:													
Production, quarterly.....long tons..				<sup>3</sup> 30,477			<sup>3</sup> 31,277			<sup>3</sup> 45,269			<sup>3</sup> 42,437
Stocks, end of quarter.....long tons..				<sup>3</sup> 18,534			<sup>3</sup> 17,989			<sup>3</sup> 19,926			<sup>3</sup> 19,519
Scrap rubber:													
Consumption by reclaimers, quarterly.....long tons..				<sup>3</sup> 36,378			<sup>3</sup> 39,071			<sup>3</sup> 57,251			<sup>3</sup> 51,919
Stocks at reclaimers, end of quarter.....long tons..				<sup>3</sup> 59,464			<sup>3</sup> 66,363			<sup>3</sup> 66,511			<sup>3</sup> 64,968
<b>Tires and Tubes</b>													
Pneumatic casings:													
Production.....thousands..	3,730	3,188	2,940	2,251	2,123	2,866	2,692	3,332	3,193	4,098	4,574	4,518	3,891
Shipments—													
Domestic.....thousands..	3,143	2,580	2,855	2,550	2,119	2,613	3,360	3,976	4,229	4,050	3,960	3,886	3,587
Exports.....thousands..	155	142	140	139	148	186	165	164	129	185	213	186	186
Stocks, end of month.....thousands..	8,012	7,629	7,166	7,203	7,676	7,842	7,849	8,678	9,449	10,622	10,745	10,461	10,010
Solid and cushion tires:													
Production.....thousands..	11	11	13	13	13	18	14	16	13	17	17	17	19
Shipments—													
Domestic.....thousands..	15	12	12	12	13	19	22	22	19	18	23	23	22
Exports.....thousands..	1	1	1	1	1	1	1	1	1	2	1	2	2
Stocks, end of month.....thousands..	69	73	75	76	76	78	82	90	101	107	108	117	123
Inner tubes:													
Production.....thousands..	3,560	3,133	2,898	2,448	2,144	3,161	3,053	3,837	3,151	3,960	4,428	4,408	3,953
Shipments—													
Domestic.....thousands..	2,922	2,619	3,147	2,634	2,147	2,659	3,525	4,492	4,594	4,082	3,940	3,769	3,682
Exports.....thousands..	109	101	102	96	84	119	108	118	90	131	119	109	99
Stocks, end of month.....thousands..	8,380	7,937	7,552	7,999	8,250	8,414	8,052	8,589	9,326	10,889	11,082	11,028	10,543
Raw material consumed:													
Crude rubber.....thous. of lbs..	41,851	36,651	36,319	25,537	26,253	36,097	33,382	40,736	39,365	45,706	52,130	51,152	43,911
Fabrics.....thous. of lbs..	14,041	12,002	12,738	8,358	8,418	11,780	10,917	13,223	13,399	15,034	17,437	17,264	14,656
<b>Miscellaneous Rubber Products</b>													
Calendered rubber clothing:													
Net orders.....no. coats and sundries..	19,380	16,361	21,884	12,881	15,493	25,082	39,364	26,348	28,767	21,249	110,520	89,862	97,612
Production.....no. coats and sundries..	19,220	18,276	13,059	20,791	22,623	41,291	37,097	44,952	38,582	55,411	75,719	86,471	78,858

<sup>2</sup> Revised.<sup>3</sup> Quarter ended in month indicated.



## MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>COMMODITY GROUPS—Continued</b>													
<b>STONE, CLAY, AND GLASS—Contd.</b>													
<b>Portland Cement</b>													
Per cent of capacity.....	36.9	29.4	29.5	38.2	51.7	65.4	75.7	81.0	77.8	81.4	78.9	64.0	51.5
Price, wholesale, composite.....dolls. per bbl.	1,477	1,543	1,586	1,580	1,588	1,600	1,600	1,600	1,600	1,600	1,617	1,617	1,617
Price, wholesale, composite.....rel. to 1926..	84.1	87.9	90.5	90.6	91.1	91.7	91.7	91.7	91.7	91.7	92.7	92.7	92.7
Production.....thous. of bbls.	8,245	5,920	6,595	8,480	11,098	14,410	16,124	17,821	17,078	17,239	17,249	13,521	11,225
Shipments.....thous. of bbls.	7,192	5,074	4,692	5,688	8,784	15,599	18,083	20,299	20,153	18,781	17,224	13,340	8,826
Stocks, end of month.....thous. of bbls.	29,676	28,572	27,759	25,883	23,056	20,697	21,889	23,824	26,289	29,364	30,891	30,867	30,648
Stocks, clinker, end of month.....thous. of bbls.	13,318	11,962	10,384	8,809	7,758	7,266	7,783	9,275	11,684	13,452	14,668	15,164	13,503
<b>Terra Cotta</b>													
Terra cotta, new orders:													
Quantity.....net tons..	3,138	3,226	3,231	3,799	3,373	5,930	5,718	5,594	7,829	8,236	6,990	7,502	5,656
Value.....thous. of dolls.	815	335	324	350	329	556	465	520	741	734	719	743	579
<b>Tile</b>													
Floor and wall tile:													
Production.....thous. of sq. ft.	3,135	2,655	2,866	3,342	3,134	4,135	3,954	3,812	3,690	3,869	3,838	3,588	3,752
Shipments—													
Quantity.....thous. of sq. ft.	2,553	3,656	2,541	2,937	3,791	4,572	4,484	4,859	4,385	4,280	4,420	3,964	3,868
Value.....thous. of dolls.				975	1,110	1,581	1,518	1,663	1,576	1,539	1,620	1,503	1,444
Stocks, end of month.....thous. of sq. ft.	14,477	13,895	15,895	14,570	14,166	14,823	15,259	15,786	16,834	16,778	17,189	17,771	18,147
<b>Vitreous China</b>													
Plumbing fixtures:													
New orders.....pieces..	64,260	150,451	250,183	131,807	113,710	141,036	140,882	142,254	142,024	128,991	130,784	133,179	170,325
Shipments.....pieces..	133,802	184,563	172,334	108,065	121,259	158,839	155,330	166,156	156,650	157,773	194,948	209,366	211,637
Stocks, end of month.....pieces..	583,099	552,403	594,886	623,125	582,675	593,492	586,915	615,931	654,535	648,805	626,429	635,501	646,235
Unfilled orders, end of month.....pieces..	233,503	303,046	337,158	259,309	235,567	243,116	260,919	275,367	299,269	313,895	342,677	397,841	474,028
<b>TEXTILES</b>													
<b>General Operations</b>													
New orders.....rel. to 1923-25..	73.9	69.7	66.9	60.8	73.6	90.6	74.4	61.7	56.1	67.0	74.9	75.3	77.6
Prices, wholesale.....rel. to 1926..	69.2	70.4	67.0	72.4	73.3	73.8	75.5	77.7	80.0	82.2	84.6	85.5	86.5
Production index (Fed. Res. Bd.).....rel. to 1923-25..	97	93	86	87	93	91	88	81	84	84	90	96	98
Production index (elect. energy consumed).....rel. to 1923-25..	97.3	99.3	86.4	89.8	87.0	85.4	85.1	72.5	79.7	95.3	96.0	102.3	99.6
Stocks, manufactured goods, end of month.....rel. to 1923-25..	94.1	92.4	100.0	109.2	97.3	96.8	96.5	106.4	117.3	123.9	121.6	139.0	120.0
Stocks, raw materials, end of month.....rel. to 1923-25..	196.3	212.2	229.9	241.8	237.6	214.7	155.4	116.9	104.2	111.2	122.3	138.0	153.0
Unfilled orders, end of month.....rel. to 1923-25..	41.1	39.9	38.9	34.3	37.3	36.2	34.5	33.7	35.9	41.0	43.6	43.8	52.4
<b>Burlaps and Fibers</b>													
Imports:													
Burlaps.....thous. of lbs.	34,945	42,176	35,062	44,591	36,656	37,940	39,578	39,038	57,553	43,235	47,699	54,863	52,854
Fibers.....long tons..	19,574	21,326	19,162	20,429	14,681	17,958	13,803	13,941	16,857	24,163	19,322	23,126	33,312
<b>Clothing</b>													
Hosiery:													
Price, pure silk, wholesale.....rel. to 1926..	51.9	51.9	51.9	58.3	58.3	60.5	62.6	64.8	69.1	69.1	73.4	73.4	73.4
New orders.....thous. of doz. pairs..	2,774	2,600	2,526	2,408	3,198	3,889	3,292	2,633	2,229	2,941	2,993	2,920	2,747
Net shipments.....thous. of doz. pairs..	2,728	2,497	2,209	2,743	3,292	3,733	3,406	2,766	2,356	2,822	2,838	2,865	2,856
Production.....thous. of doz. pairs..	2,465	2,405	2,400	2,589	3,005	3,440	2,789	2,408	2,300	2,823	2,840	2,935	3,046
Stocks, end of month.....thous. of doz. pairs..	6,433	6,713	7,074	7,058	7,120	7,627	7,864	8,647	9,015	10,418	9,205	8,724	8,993
Unfilled orders, end of month.....thous. of doz. pairs..	2,051	2,027	2,041	1,823	2,403	2,618	1,876	2,096	2,322	2,781	2,683	2,470	2,642
Knit underwear:													
Net shipments.....thous. of doz. garments..	1,107	909	975	816	1,129	1,365	1,261	1,024	902	875	1,003	998	1,044
New orders.....thous. of doz. garments..	1,326	99.4	967	878	1,164	1,475	1,049	909	781	911	1,070	896	1,036
Production.....thous. of doz. garments..	1,146	945	840	821	1,978	1,132	913	828	869	1,023	1,025	1,148	1,192
Stocks, end of month.....thous. of doz. garments..	1,366	1,265	1,329	1,299	1,197	1,421	1,497	1,759	1,880	1,846	1,759	1,731	1,590
Unfilled orders, end of month.....thous. of doz. garments..	1,549	1,342	1,258	1,284	1,266	1,250	1,140	1,398	1,524	1,634	1,607	1,549	1,658
Men's and boys' garments cut:													
Overcoats.....thous. of garments..			160	159	444	555	564	437	441	329	203	216	352
Separate trousers.....thous. of garments..			1,580	1,232	1,183	2,103	2,071	1,891	1,926	1,976	2,218	2,247	2,363
Suits.....thous. of garments..			1,714	1,222	1,100	1,654	1,662	1,878	1,811	1,792	1,923	1,981	2,294
Overalls:													
Cut.....thous. of doz. garments..		234	222	161	207	279	326	288	244	231	260	285	326
Net shipments.....thous. of doz. garments..		223	218	137	191	249	289	250	223	218	248	273	297
Unfilled orders, end of month.....thous. of doz. garments..		41	36	42	36	51	69	74	60	67	89	112	116
<b>Cotton</b>													
Consumption by textile mills.....bales..	490,586	433,510	454,188	406,207	414,887	444,494	394,321	352,335	379,022	405,236	473,284	531,911	507,646
Consumption by textile mills.....rel. to 1923-25..	95.6	84.5	88.5	79.2	80.8	86.6	76.8	68.7	73.8	79.0	92.3	103.7	98.9
Exports, unmanufactured (exclusive of linters).....thous. of bales..	605	433	625	766	908	1,004	903	366	176	185	209	350	478
Ginnings.....thous. of bales..	13,754		13,593	13,258	12,837	10,866	6,304	1,879	78				14,548
Imports, unmanufactured.....bales..	10,266	11,165	11,299	4,461	3,409	1,747	3,394	5,901	4,162	9,560	53,328	67,397	28,279
Machinery activity of spindles:													
Activity spindles.....thousands..	26,490	25,763	25,611	25,526	25,858	26,154	26,087	25,874	26,458	27,659	28,358	28,851	28,862
Activity per spindle.....hours..	211	184	191	176	173	184	167	151	156	170	197	220	214
Total activity.....mill. of hours..	7,001	6,110	6,360	5,916	5,832	6,239	5,663	5,134	5,301	5,789	6,125	7,497	7,344
Per cent of capacity.....	91.2	87.2	80.8	76.1	80.1	77.1	73.4	65.2	67.2	76.2	83.4	96.1	92.6

<sup>1</sup> Revised.

MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<i>Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"</i>													
COMMODITY GROUPS—Continued													
<b>TEXTILES—Continued</b>													
<b>Cotton—Continued</b>													
Prices:													
To producer.....dolls. per lb..	.096	.091	.086	.087	.096	.092	.099	.114	.119	.140	.145	.147	.138
In New York middling.....dolls. per lb..	.109	.110	.102	.101	.110	.107	.109	.121	.132	.145	.164	.163	.151
Receipts into sight.....thous. of bales..	.447	.513	.729	1,627	2,749	3,670	2,410	865	64	163	358	463	482
Stocks, domestic, end of month:													
Mills.....thous. of bales..	1,478	1,548	1,613	1,659	1,567	1,353	968	1,012	1,183	1,357	1,528	1,662	1,758
Warehouses.....thous. of bales..	6,643	7,314	7,939	8,378	8,398	7,542	5,248	3,465	2,877	3,105	3,379	3,637	4,198
Total, mills and warehouses.....thous. of bales..	8,120	8,862	9,553	10,037	9,965	8,895	6,215	4,476	4,060	4,462	4,907	5,299	5,956
Total, mills and warehouses.....rel. to 1923-25..	216.0	235.7	254.1	267.0	265.0	236.6	165.3	119.1	108.0	118.7	129.5	141.1	158.4
Stocks, world visible, end of month:													
American.....thous. of bales..	6,826	7,381	7,576	7,841	7,676	6,617	4,892	3,159	2,917	3,352	3,688	3,975	4,612
Total.....thous. of bales..	9,332	9,958	9,897	9,897	9,437	8,413	6,707	5,190	5,230	5,951	6,335	6,659	7,339
<b>Cotton Finishing</b>													
Printed only (mills and outside):													
Production.....thous. of yds.....	76,847	68,380	70,301	62,005	69,764	55,367	42,185	38,799	47,608	58,588	72,721	72,634	
Stocks, end of month.....thous. of yds.....	64,546	65,704	68,420	68,817	65,876	64,788	70,395	82,297	82,856	85,381	84,808	77,763	
White, dyed, and printed (outside mills):													
Billings, finished goods.....thous. of yds.....	61,803	50,166	43,642	47,566	40,249	53,003	40,631	37,907	41,473	50,933	59,384	65,364	66,246
New orders, gray yardage.....thous. of yds.....	57,872	49,679	46,370	39,749	38,541	47,133	41,618	35,576	37,349	39,249	48,099	56,641	60,526
Per cent of capacity.....	58	56	47	40	44	48	46	36	34	41	47	56	59
Shipments, finished goods.....cases.....	35,334	30,593	29,031	23,888	23,743	29,260	26,691	28,843	28,559	32,986	39,307	34,308	39,459
Stocks, finished goods, end of month.....cases.....	17,641	17,071	20,134	23,593	21,803	22,392	22,079	27,198	31,901	34,477	34,571	40,741	32,528
Unfilled orders, end of month.....days.....	2.7	2.6	2.6	2.6	2.5	2.1	2.6	2.1	1.9	2.0	2.6	2.9	4.2
<b>Cotton Goods</b>													
Cotton cloth:													
Imports.....thous. of sq. yds.....	2,530	2,148	2,641	1,658	1,763	1,976	1,920	1,664	2,434	3,019	4,299	5,076	3,781
Exports.....thous. of sq. yds.....	33,392	25,188	31,488	29,388	29,273	34,804	32,626	34,285	35,397	35,868	38,523	36,821	36,171
Cotton textiles:													
New orders.....thous. of yds.....	295,334	326,691	239,106	182,656	183,067	335,801	291,980	235,272	180,147	129,947	184,473	223,225	292,249
Production.....thous. of yds.....	271,638	212,168	202,149	234,052	206,633	228,866	182,385	218,815	165,850	198,639	275,801	257,243	261,403
Shipments.....thous. of yds.....	317,185	248,354	210,597	226,951	200,661	270,383	232,975	231,348	176,689	182,652	270,056	253,360	265,675
Stocks, end of month.....thous. of yds.....	273,781	319,328	355,514	363,962	356,861	350,889	392,406	442,996	455,529	460,368	450,481	444,736	440,853
Unfilled orders, end of month.....thous. of yds.....	373,951	395,802	317,465	288,956	333,251	350,845	265,427	226,422	222,498	219,040	271,745	357,328	387,463
Elastic webbing, shipments.....thous. of yds.....	1,363	1,180	1,041	921	1,000	1,356	1,200	1,127	1,088	1,169	1,300	1,347	1,496
Fabric for tire manufacture, consumption.....thous. of lbs.....	14,041	12,002	12,738	8,358	8,418	11,780	10,917	13,223	13,399	15,034	17,437	17,264	14,656
Mill dividends:													
Fall River (quarterly).....thous. of dolls.....	301			279			110			330			348
New Bedford (quarterly).....thous. of dolls.....										254			254
Prices:													
Print cloth 64x60.....dolls. per yd.....	.055	.053	.052	.053	.057	.055	.053	.050	.054	.056	.061	.061	.062
Print cloth 64x60.....rel. to 1926.....	73.3	70.4	68.8	70.4	75.5	72.9	70.4	66.6	71.8	74.7	80.2	80.2	81.8
Sheeting, brown.....dolls. per yd.....	.059	.065	.062	.065	.066	.066	.070	.070	.070	.075	.078	.078	.078
Sheeting, brown.....rel. to 1926.....	63.3	69.8	67.0	69.9	70.9	70.9	75.1	75.1	75.1	80.3	83.9	82.2	83.6
Cotton goods (Fairchild).....rel. to 1911-13.....	121	119	120	122	124	124	124	126	130	134	137	138	140
<b>Cotton Yarn</b>													
Carded sales yarn:													
Production.....thous. of lbs.....	11,536	10,968	12,665	9,582	11,787	15,494	11,148	10,031	11,049	10,968	11,678	15,485	13,707
Stocks end of month.....thous. of lbs.....	12,537	13,420	13,795	13,531	12,548	12,548	12,819	13,633	13,742	13,559	13,439	13,116	12,487
Unfilled orders, end of month.....thous. of lbs.....	40,979	42,407	39,963	38,920	38,926	37,854	33,194	9,103	26,469	27,632	30,186	34,457	39,072
Prices:													
22/1 cones, Boston.....dolls. per lb.....	.240	.239	.248	.247	.254	.235	.242	.252	.262	.273	.290	.302	.297
22/1 cones, Boston.....rel. to 1926.....	66.8	66.7	69.1	68.8	71.0	65.5	67.4	70.3	73.1	76.2	80.9	84.1	82.9
40/1s southern spinning.....dolls. per lb.....	.382	.390	.390	.390	.405	.413	.420	.435	.447	.461	.473	.480	.477
<b>Fur</b>													
Sales by dealers.....thous. of dolls.....	6,693	6,049	4,496	3,048	4,520	5,787	7,301	5,425	4,348	5,455	7,692	8,362	8,327
<b>Pyroxylin-Coated Textiles</b>													
Pyroxylin spread.....thous. of lbs.....	4,061	3,044	2,565	2,208	2,268	2,699	2,963	2,705	2,840	3,932	3,693	4,033	3,474
Shipments billed.....thous. of linear yds.....	3,394	2,724	2,333	1,945	1,893	2,480	2,460	2,109	2,212	2,820	3,227	3,445	3,111
Unfilled orders, end of month.....thous. of linear yds.....	3,358	3,058	2,735	1,169	1,413	1,441	1,508	1,179	1,779	2,323	2,370	2,421	2,332
<b>Rayon</b>													
Imports.....thous. of lbs.....	439	274	154		216	101	153	171	133	383	487	901	928
Price, 150 denier, "A" grade, New York.....dolls. per lb.....	.75	.75	.75	.95	.95	.95	.95	.95	.95	1.15	1.15	1.15	1.15
<b>Silk</b>													
Deliveries (consumption).....bales.....	55,383	54,242	55,910	55,424	57,333	61,937	55,649	41,734	39,948	29,396	40,823	41,584	50,863
Imports, raw.....thous. of lbs.....	7,725	7,318	7,405	9,877	7,000	8,940	7,887	8,244	5,712	4,622	3,622	6,047	6,103
Prices:													
Raw, Japanese 13-15, New York.....dolls. per lb.....	2.561	2.709	2.807	2.709	2.463	2.512	2.413	2.955	2.955	3.251	3.940	4.186	4.531
Raw, Japanese 13-15, New York.....rel. to 1926.....	41.3	43.7	45.3	43.7	39.8	40.6	39.0	47.7	47.7	52.5	63.6	67.6	73.1
Silk goods, composite.....dolls. per yd.....	.99	1.00	1.02	1.02	1.02	1.02	1.04	1.06	1.08	1.09	1.11	1.14	1.16
Silk machinery activity:													
Broad looms.....per cent of normal.....	93.8	96.5	94.0	94.0	96.5	88.2	80.0	73.1	79.2	79.0	87.9	101.3	111.1
Narrow looms.....per cent of normal.....	44.2	51.7	39.2	35.8	60.8	38.2	44.7	36.9	31.0	63.6	55.0	59.6	60.4
Spinning spindles.....per cent of normal.....	58.6	58.9	55.2	65.8	75.1	70.2	57.7	49.1	52.1	58.0	59.1	68.8	69.2
Stocks, end of month:													
At warehouses.....bales.....	47,407	45,399	51,814	58,430	49,238	51,278	47,621	44,978	35,565	28,450	35,477	53,704	57,773
At manufacturing plants.....bales.....	22,231	23,124	23,588	24,242	24,920	22,954	21,243	20,511	18,046	19,843	20,300	22,120	21,522

3 Quarter ended in month indicated.

## MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	COMMODITY GROUPS—Continued												
<b>TEXTILES—Continued</b>													
<b>Wool</b>													
Consumption at textile mills, grease equivalent..... thous. of lbs.	40,373	38,420	33,856	30,007	31,237	40,975	38,083	33,761	34,632	32,772	32,641	36,794	37,195
Consumption at textile mills..... rel. to 1923-25.....	85.2	81.1	71.5	63.3	65.9	86.5	80.4	71.3	73.2	69.2	68.9	77.7	78.5
Imports:													
In condition, imported..... thous. of lbs.	15,348	11,687	13,767	10,920	8,546	8,994	8,817	10,145	8,900	8,896	15,484	17,816	20,049
Machinery activity, hourly:													
Combs..... p. ct. of hours active.....	76	75	67	67	65	74	81	75	71	72	68	60	64
Looms—													
Carpet and rugs..... p. ct. of hours active.....	44	39	29	29	38	38	36	34	31	36	44	49	49
Narrow..... p. ct. of hours active.....	34	30	28	26	37	44	41	43	42	48	39	41	39
Wide..... p. ct. of hours active.....	59	59	49	46	47	47	46	44	48	53	51	45	46
Set of cards..... p. ct. of hours active.....	66	60	47	43	50	54	53	48	51	60	60	61	61
Spinning spindles—													
Woolen..... p. ct. of hours active.....	57	66	48	45	52	53	55	48	52	62	60	58	58
Worsted..... p. ct. of hours active.....	57	51	52	52	52	62	60	55	53	56	52	43	50
Prices:													
Raw, territory, fine, scoured..... dolls. per lb.	66	66	68	72	72	75	76	76	76	76	77	76	77
Raw, Ohio and Penn. fleeces, $\frac{3}{4}$ blood, combing, grease..... dolls. per lb.	22	23	26	27	29	30	31	31	31	31	29	31	33
Suiting, 13-oz..... dolls. per lb.	1,543	1,601	1,601	1,601	1,601	1,601	1,601	1,601	1,606	1,756	1,756	1,756	1,756
Suiting, 13-oz..... rel. to 1926.....	77.0	79.8	79.8	79.8	79.8	79.8	79.8	79.8	84.6	87.6	87.6	87.6	87.6
Women's dress goods,													
French serge, 39-in..... dolls. per yd.	-----	-----	-----	.90	.90	.90	.90	.90	.90	.90	.90	.90	.93
Women's dress goods, French serge, 39-in..... rel. to 1926.....	-----	-----	-----	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	89.5
Worsted yarns..... dolls. per lb.	1.00	1.10	1.10	1.17	1.20	1.20	1.20	1.20	1.20	1.20	1.23	1.25	1.30
Worsted yarns..... rel. to 1926.....	69.7	76.6	76.6	81.8	83.6	83.6	83.6	83.6	83.6	83.6	85.3	87.1	90.6
Receipts at Boston:													
Domestic..... thous. of lbs.	8,215	66,741	3,363	7,574	4,576	10,494	4,034	47,826	72,313	54,729	18,937	8,501	5,628
Foreign..... thous. of lbs.	5,064	6,528	7,432	4,000	1,664	2,245	2,980	3,846	4,602	2,936	9,712	8,662	9,358
Total..... thous. of lbs.	13,279	13,269	10,795	11,574	6,240	12,739	7,074	51,672	75,915	57,665	28,649	17,163	14,986
<b>TOBACCO</b>													
Unmanufactured:													
Exports, leaf..... thous. of lbs.	39,908	46,879	50,440	62,148	57,964	78,262	53,841	39,527	27,620	30,351	28,823	43,364	54,887
Stocks—													
Chewing, smoking, snuff, and export types, quarterly..... mills. of lbs.	-----	-----	-----	<sup>3</sup> 1,492	-----	-----	<sup>3</sup> 1,266	-----	-----	<sup>3</sup> 1,296	-----	-----	<sup>3</sup> 1,509
Cigar types, quarterly..... thous. of lbs.	-----	-----	-----	<sup>3</sup> 277,850	-----	-----	<sup>3</sup> 303,104	-----	-----	<sup>3</sup> 337,071	-----	-----	<sup>3</sup> 358,224
Total, including imported types, quar- terly..... mills. of lbs.	-----	-----	-----	<sup>3</sup> 1,853	-----	-----	<sup>3</sup> 1,649	-----	-----	<sup>3</sup> 1,726	-----	-----	<sup>3</sup> 1,965
Manufactured products:													
Consumption (tax-paid withdrawals)—													
Large cigars..... thousands.	440,472	362,839	362,939	349,635	528,128	623,861	523,973	517,200	532,805	519,599	523,775	469,969	454,766
Small cigarettes..... millions.	9,102	8,836	9,368	8,675	7,952	10,947	10,190	10,577	11,859	11,751	10,301	9,535	9,165
Manufactured tobacco and snuff..... thous. of lbs.	31,049	29,562	31,697	25,815	25,976	33,026	32,166	31,370	30,964	30,939	32,579	31,261	31,458
Manufacturing index, adjusted..... rel. to 1923-25.....	131	132	121	128	119	129	125	130	137	141	134	136	128
Exports, cigarettes..... thousands.	324,808	256,706	229,697	338,808	251,507	318,751	305,676	295,744	643,358	566,015	446,231	366,674	497,814
<b>MISCELLANEOUS PRODUCTION</b>													
<b>Buttons</b>													
Fresh-water pearl button:													
Production, ratio to capacity..... per cent.	47.5	44.6	35.5	40.6	42.0	38.8	36.2	25.7	23.1	41.1	42.4	4.71	48.2
Stocks, end of month..... thous. of gross	9,518	<sup>2</sup> 9,807	<sup>2</sup> 10,154	8,842	8,756	8,808	9,061	9,258	9,857	10,056	9,790	9,878	9,838
Imports:													
Buttons—													
Product of Philippines..... thous. of gross	94	59	59	82	65	72	78	69	63	107	44	59	63
All other..... thous. of gross	2	3	4	9	9	5	3	14	12	18	16	6	5
Shells—													
Mother-of-pearl..... thous. of lbs.	289	273	475	896	402	354	802	844	476	271	570	171	531
All other..... thous. of lbs.	95	369	22	15	458	586	164	56	72	377	925	104	69
Tagua nuts..... thous. of lbs.	592	1,329	270	858	331	1,204	1,286	708	1,213	1,242	1,317	1,607	1,886
<b>FUELS</b>													
<b>Coal</b>													
Anthracite:													
Exports..... thous. of long tons.	79	259	207	178	182	253	198	205	129	144	186	123	149
Prices:													
Retail, composite..... dolls. per short ton.	14.85	14.85	14.88	14.89	14.90	14.87	14.80	14.57	14.53	14.32	14.33	14.99	15.00
Wholesale, composite													
Wholesale, composite..... dolls. per long ton.	12.637	12.732	12.732	12.751	12.751	12.762	12.707	12.578	12.366	12.251	12.441	12.887	13.033
Wholesale, composite..... rel. to 1926.....	91.8	92.5	92.5	92.6	92.6	92.7	92.3	91.4	89.8	89.0	90.4	93.6	94.7
Production..... thous. of short tons.	4,745	5,391	6,507	6,086	5,207	7,576	5,293	6,190	5,658	5,183	5,947	4,916	<sup>2</sup> 4,471
Stocks, end of month, in yards of dealers..... no. of days' supply.....	21	-----	31	43	-----	47	61	-----	60	57	-----	36	31
Bituminous:													
Consumption—													
By coke plants—													
Canada..... thous. of short tons.	247	235	236	246	249	249	233	244	243	268	290	295	309
United States													
By electric power plants..... thous. of short tons.	4,902	4,408	4,686	4,737	4,820	5,270	5,214	5,559	5,824	6,155	6,572	6,645	6,841
By railroads..... thous. of short tons.	3,407	<sup>2</sup> 3,281	<sup>2</sup> 3,688	3,837	3,670	3,944	3,724	3,658	3,452	3,201	3,296	3,255	3,442
By vessels clearing ports..... thous. of long tons.	136	141	187	201	204	230	269	261	284	276	278	292	278
Exports..... thous. of long tons.	665	645	700	803	1,287	1,317	1,462	1,433	1,586	1,394	1,488	858	726

<sup>2</sup> Revised.<sup>3</sup> Quarter ended in month indicated.

MONTHLY BUSINESS STATISTICS—Continued

Table with columns for years (1931, 1930) and months (March, February, January, December, November, October, September, August, July, June, May, April, March). Rows include categories like Fuels, Coal, Petroleum, and Gasoline, with various sub-items and units.

1 Revised.



## MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<i>Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"</i>													
COMMODITY GROUPS—Continued													
<b>FUELS—Continued</b>													
<b>Petroleum—Continued</b>													
Lubricating oil:													
Consumption.....thous. of bbls..	1,950	1,583	1,715	1,458	1,573	1,569	1,944	1,940	1,887	1,772	2,394	2,116	2,122
Price cylinder oil.....dolls. per gal..	.145	.146	.165	.172	.184	.186	.190	.193	.210	.284	.340	.343	.345
Production.....thous. of bbls..	2,293	2,036	2,441	2,509	2,409	2,546	2,723	2,971	3,018	2,920	3,185	3,193	3,120
Stocks at refineries, end of month.....thous. of bbls..	10,710	10,911	11,013	10,971	10,536	10,502	10,257	10,161	9,953	9,742	9,578	9,649	9,561
Wax:													
Production.....thous. of lbs..	37,520	38,640	42,560	36,120	35,840	38,080	43,960	39,760	45,640	43,680	45,920	54,040	61,320
Stocks, end of month.....thous. of lbs..	208,620	229,414	233,044	232,592	237,027	240,060	248,940	254,990	254,999	249,748	248,524	241,853	230,734
<b>DISTRIBUTION MOVEMENT</b>													
<b>Advertising</b>													
Magazine advertising.....thous. of lines..	2,263	2,192	1,585	2,265	2,488	2,490	2,145	1,658	1,986	2,752	3,022	3,173	2,775
Magazine advertising, total cost.....thous. of dolls..	16,002	15,307	10,820	15,352	17,359	17,759	15,214	12,075	14,316	19,614	20,399	21,861	18,687
National advertising in newspapers:													
Building materials.....thous. of lines..				75	129	229	216	99	117	342	660	615	373
Electrical appliances, supplies.....thous. of lines..				794	751	562	685	459	739	1,247	1,548	2,016	1,329
Financial.....thous. of lines..				5,114	4,472	5,579	5,112	3,755	6,446	6,162	6,387	7,617	6,427
Foods and beverages.....thous. of lines..				3,579	6,156	7,726	6,618	5,898	6,428	7,781	9,503	9,220	7,915
Heating and plumbing equipment.....thous. of lines..				279	396	676	979	484	401	479	608	629	377
Medical.....thous. of lines..				2,025	4,415	4,266	2,382	1,760	1,853	2,194	2,926	3,635	5,741
Passenger cars.....thous. of lines..				1,208	3,058	3,398	3,154	2,736	4,082	3,781	5,169	5,817	6,841
Radio.....thous. of lines..				2,186	2,788	3,604	3,584	1,049	927	649	958	856	1,399
Tires, trucks, and accessories.....thous. of lines..				2,490	3,859	3,913	4,063	5,431	5,634	5,927	7,697	6,066	6,105
Tobacco.....thous. of lines..				938	3,787	5,880	5,633	1,760	3,742	5,413	4,919	3,606	4,497
Toilet articles.....thous. of lines..				985	2,140	2,590	1,841	2,055	2,985	3,123	3,404	3,674	4,323
Transportation.....thous. of lines..				1,890	1,991	1,768	1,689	2,323	3,130	4,101	3,728	2,719	2,396
All other.....thous. of lines..				4,229	4,678	5,180	4,623	3,318	3,427	5,812	6,987	6,397	6,310
Total.....thous. of lines..				25,795	38,622	45,370	40,579	31,126	39,911	47,010	54,491	52,867	54,632
Newspaper advertising.....thous. of lines..	90,244	72,282	75,823	82,467	89,424	98,437	88,648	70,018	72,007	88,702	100,402	101,259	97,615
Radio broadcasting, facilities, cost.....thous. of dolls..	3,141	2,591	2,637	2,718	2,577	2,674	2,123	1,960	2,074	2,033	2,300	2,199	2,295
<b>Agricultural Products (Marketing)</b>													
Agricultural, total.....rel. to 1923-25..	62.2	62.8	71.5	98.3	134.0	188.6	158.8	113.1	88.9	51.9	56.1	55.1	57.4
Animal products:													
Dairy products.....rel. to 1923-25..	102.9	91.3	96.4	92.7	77.8	82.2	86.3	94.6	131.5	148.9	134.6	106.8	99.6
Fish.....rel. to 1923-25..	169.4	116.2	103.4	98.9	146.2	172.0	229.1	202.0	263.3	185.2	192.0	207.2	186.8
Livestock.....rel. to 1923-25..	79.6	79.8	96.2	93.9	88.0	108.0	93.9	76.5	76.6	79.2	81.2	83.0	81.0
Poultry and eggs.....rel. to 1923-25..	121.8	94.0	95.0	137.8	121.6	79.2	78.2	71.6	90.6	112.0	138.2	144.4	117.4
Wool.....rel. to 1923-25..	61.9	50.8	25.3	57.1	34.5	79.1	30.9	360.5	545.1	412.5	142.7	64.1	42.4
Total.....rel. to 1923-25..	14.0	85.5	94.7	97.8	88.5	96.7	91.2	91.4	111.8	116.7	109.8	100.5	97.6
Crops:													
Cotton.....rel. to 1923-25..	38.6	40.6	64.0	144.9	240.6	327.5	219.3	77.7	5.8	14.0	29.0	39.0	42.4
Fruits.....rel. to 1923-25..	75.1	68.1	70.2	67.1	109.0	249.0	164.3	133.1	124.4	57.8	71.9	56.0	53.0
Grains.....rel. to 1923-25..	80.0	84.6	81.0	79.8	72.3	82.6	139.0	180.5	177.5	58.5	56.1	58.4	61.8
Vegetables.....rel. to 1923-25..	104.3	91.1	98.0	79.4	89.6	168.4	138.8	81.9	113.4	151.0	136.5	95.1	102.8
Miscellaneous.....rel. to 1923-25..		4.4	4.3	5.3	10.7	20.1	41.6	24.8	2.6	2.7	6.1	8.6	11.3
Total.....rel. to 1923-25..	64.4	64.9	74.3	98.3	138.6	197.9	165.6	115.3	86.6	45.3	50.7	50.3	53.3
<b>Collections</b>													
Delinquent accounts, electrical trade:													
Amount.....dollars..	138,592	132,609	112,250	150,349	96,912	122,150	93,898	127,006	141,162	157,821	215,001	203,572	233,048
Delinquent firms.....number..	1,228	1,141	1,089	1,065	868	1,101	939	1,155	1,106	1,066	1,449	1,493	1,526
<b>Cost of Living</b>													
All groups.....rel. to 1923-25..	89.1	89.6	91.1	92.6	93.9	94.8	95.4	94.7	95.2	96.5	97.2	97.9	97.8
Clothing.....rel. to 1923-25..	83.2	84.4	84.6	86.6	87.7	88.8	90.5	89.3	91.0	92.5	92.8	95.0	96.1
Food.....rel. to 1923-25..	86.5	86.9	90.9	93.9	96.8	98.8	99.7	98.4	98.6	101.2	102.7	103.5	102.7
Fuel and light.....rel. to 1923-25..	92.5	92.7	92.9	92.9	92.9	92.7	92.1	91.4	91.1	91.5	92.0	94.1	94.6
Housing.....rel. to 1923-25..	84.6	85.3	85.9	86.7	87.5	88.0	88.7	88.5	89.1	89.9	90.6	90.8	91.1
Sundries.....rel. to 1923-25..	96.8	96.9	97.2	97.4	97.6	97.8	97.6	97.6	97.8	98.1	98.2	98.1	98.1
<b>Forest Products (Marketing)</b>													
Distilled wood.....rel. to 1923-25..	69.2	61.3	67.0	67.0	67.0	60.0	50.2	44.7	42.2	56.4	71.8	83.4	91.2
Gum.....rel. to 1923-25..	39.7	25.5	37.1	117.7	112.9	143.1	158.2	171.2	203.9	170.7	174.7	100.6	41.1
Lumber.....rel. to 1923-25..	56.1	51.6	50.5	50.7	57.4	63.4	57.7	62.8	61.8	64.1	72.1	71.6	68.6
Pulpwood.....rel. to 1923-25..	121.9	104.2	110.9	115.6	105.4	90.3	63.9	76.1	72.4	105.9	137.7	135.9	126.6
Total.....rel. to 1923-25..	61.8	55.9	55.8	58.0	62.9	68.2	60.2	66.0	65.4	70.0	80.1	79.1	73.5
<b>Postal Business</b>													
Air mail, weight dispatched.....pounds..			687,560	767,229	637,054	742,687	705,963	695,305	693,627	680,814	702,499	676,255	625,174
Money orders:													
Domestic, issued (50 cities)—													
Quantity.....thousands..	3,567	3,749	4,165	3,525	3,662	3,415	3,285	3,436	3,554	3,813	3,828	4,134	
Value.....thous. of dolls..	33,240	36,352	39,627	34,525	35,916	33,923	33,363	34,672	35,395	38,266	37,803	39,827	
Domestic, paid (50 cities)—													
Quantity.....thousands..	9,701	10,590	11,716	10,248	11,514	9,758	9,681	10,197	10,619	11,191	11,562	11,791	
Value.....thous. of dolls..	70,935	78,273	91,923	79,934	90,647	79,174	77,670	81,800	82,691	87,661	90,646	88,103	
Foreign, issued.....thous. of dolls..	4,032	4,893	5,178	4,996	4,996	4,781	5,225	5,428	5,413	5,040	4,859	5,511	
Postal receipts:													
Total index.....rel. to 1923-25..	100.1	110.3	145.3	106.2	121.1	107.9	98.1	101.2	104.9	117.3	122.3	121.8	
50 selected cities.....thous. of dolls..	26,405	29,172	38,572	28,379	32,279	28,764	25,876	26,701	27,956	31,370	32,644	32,475	
50 industrial cities.....thous. of dolls..	3,215	3,466	4,418	3,028	3,568	3,160	3,132	3,137	3,062	3,335	3,524	3,562	

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MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	COMMODITY GROUPS—Continued												
<b>DISTRIBUTION MOVEMENT—Con.</b>													
<b>Retail Outlets</b>													
Department store sales, value of:													
United States, unadjusted, rel. to 1923-25.....	92	81	79	165	113	112	103	77	71	98	105	110	93
United States, adjusted, rel. to 1923-25.....	97	98	97	94	98	102	99	102	100	103	105	105	110
Atlanta..... rel. to 1923-25.....				152	97	115	90	77	67	83	101	104	93
Boston..... rel. to 1923-25.....				163	110	115	88	74	71	98	108	107	88
Chicago..... rel. to 1923-25.....				167	106	113	108	84	72	98	112	119	96
Cleveland..... rel. to 1923-25.....				148	89	103	89	76	68	87	102	109	86
Dallas..... rel. to 1923-25.....				159	108	118	107	78	69	89	106	106	99
Kansas City..... rel. to 1923-25.....				147	99	110	103	79	68	82	94	97	89
Minneapolis..... rel. to 1923-25.....				129	78	86	100	73	61	80	90	99	87
New York..... rel. to 1923-25.....				191	125	136	112	77	77	109	119	120	103
Philadelphia..... rel. to 1923-25.....				152	101	114	79	63	58	84	91	95	83
Richmond..... rel. to 1923-25.....				194	117	134	92	77	73	100	112	113	93
St. Louis..... rel. to 1923-25.....				142	94	104	108	73	66	84	96	109	93
San Francisco..... rel. to 1923-25.....				182	108	118	108	108	91	97	114	114	112
Department store stocks, end of month:													
United States, adjusted, rel. to 1923-25.....		86	88	91	92	92	91	91	94	96	96	97	97
United States, unadjusted, rel. to 1923-25.....		81	78	85	104	101	95	87	87	93	98	101	100
Atlanta..... rel. to 1923-25.....				95	92	88	85	83	85	91	95	94	94
Boston..... rel. to 1923-25.....				98	94	87	78	81	88	94	94	95	95
Chicago..... rel. to 1923-25.....				114	113	107	99	99	104	111	114	113	113
Cleveland..... rel. to 1923-25.....				95	93	88	80	80	88	92	92	92	92
Dallas..... rel. to 1923-25.....				87	86	78	70	66	72	79	82	82	82
Kansas City..... rel. to 1923-25.....				120	119	113	107	100	104	110	115	116	116
Minneapolis..... rel. to 1923-25.....				73	73	69	66	62	65	69	72	73	73
New York..... rel. to 1923-25.....				120	116	107	97	97	104	109	112	107	107
Philadelphia..... rel. to 1923-25.....			79	73	91	86	79	70	71	78	80	85	85
Richmond..... rel. to 1923-25.....				103	100	93	82	83	90	95	99	100	100
St. Louis..... rel. to 1923-25.....				95	95	89	86	82	86	91	90	88	88
San Francisco..... rel. to 1923-25.....				107	107	100	96	96	99	105	110	109	109
Mail-order houses:													
Total sales, 2 houses..... thous. of dolls.....	43,008	39,422	41,459	72,486	55,713	68,873	54,419	50,682	48,790	54,356	59,350	56,561	47,582
Total sales, 2 houses..... rel. to 1923-25.....	132	121	127	222	170	211	166	155	149	166	182	173	146
Sears, Roebuck & Co. .... thous. of dolls.....	25,407	24,177	24,839	43,814	33,312	38,785	33,086	29,715	30,121	30,367	34,300	32,785	26,950
Montgomery Ward & Co. .... thous. of dolls.....	17,601	15,245	16,620	28,672	22,401	30,093	21,333	20,967	18,669	23,989	25,050	23,776	20,632
Restaurant chains:													
Childs Co.—													
Sales..... thous. of dolls.....	2,064	1,889	2,083	2,277	2,075	2,259	2,136	2,173	2,050	2,103	2,279	2,330	2,352
Stores operated..... number.....	111	111	112	112	111	111	113	113	113	114	115	112	110
J. R. Thompson Co.—													
Sales..... thous. of dolls.....	1,208	1,082	1,192	1,246	1,186	1,287	1,215	1,208	1,199	1,225	1,314	1,279	1,307
Stores operated..... number.....	117	120	120	120	121	121	120	120	119	121	121	121	121
Waldorf System (Inc.)—													
Sales..... thous. of dolls.....	1,351	1,210	1,295	1,379	1,338	1,333	1,291	1,261	1,252	1,257	1,382	1,353	1,380
Stores operated..... number.....	160	160	152	152	147	145	147	146	147	147	145	144	143
Total sales, 3 chains—													
Total..... thous. of dolls.....	4,623	4,181	4,570	4,902	4,599	4,884	4,642	4,642	4,501	4,585	4,975	4,962	5,039
Stores operated..... number.....	391	384	384	384	379	377	380	379	379	382	381	377	374
Ten-cent chain store, sales:													
F. W. Woolworth & Co.—													
Sales..... thous. of dolls.....	21,724	19,386	19,240	42,320	24,077	26,422	22,353	22,055	20,737	20,715	25,310	24,309	22,482
Stores operated..... number.....	1,894	1,888	1,886	1,890	1,890	1,889	1,886	1,881	1,871	1,867	1,855	1,853	1,845
F. & W. Grand—													
Sales..... thous. of dolls.....	1,664	1,431	1,371	3,545	1,894	2,026	1,663	1,669	1,669	1,869	1,840	1,936	1,603
Stores operated..... number.....	116	114	112	112	112	111	111	108	105	103	98	96	94
G. C. Murphy Co.—													
Sales..... thous. of dolls.....	1,329	1,204	1,221	3,170	1,579	1,621	1,344	1,362	1,319	1,289	1,410	1,291	1,183
Stores operated..... number.....	166	166	166	166	165	163	162	163	163	160	156	155	153
Isaac Silver & Bros.—													
Sales..... thous. of dolls.....	596	513	476	1,421	673	693	566	608	598	696	715	751	643
Stores operated..... number.....	45	45	45	45	45	44	45	45	45	45	45	45	45
J. C. Penny Co.—													
Sales..... thous. of dolls.....	12,443	9,540	9,725	23,703	18,937	19,860	15,956	14,397	13,602	15,828	17,170	17,452	14,213
Stores operated..... number.....	1,454	1,453	1,452	1,452	1,552	1,450	1,446	1,440	1,438	1,435	1,430	1,428	1,396
McCrory Stores Corp.—													
Sales..... thous. of dolls.....	3,381	2,946	2,903	6,783	3,617	3,606	3,278	3,406	3,123	3,212	3,588	3,651	3,358
Stores operated..... number.....	242	242	242	242	242	241	240	240	240	240	241	240	240
Metropolitan—													
Sales..... thous. of dolls.....								1,226	1,258	1,337	1,474	1,348	1,133
Stores operated..... number.....								148	148	148	147	147	148
S. H. Kress & Co.—													
Sales..... thous. of dolls.....	5,259	4,487	4,400	12,061	5,528	5,716	5,478	5,125	5,061	5,221	5,399	5,627	5,225
Stores operated..... number.....	213	211	211	213	213	213	211	211	211	209	207	205	205
S. S. Kresge Co.—													
Sales..... thous. of dolls.....	11,035	9,770	9,825	23,982	12,503	12,853	11,265	11,410	10,882	11,400	12,778	12,724	11,260
Stores operated..... number.....	681	681	681	678	676	668	665	656	645	636	632	624	617
W. T. Grant Co.—													
Sales..... thous. of dolls.....	5,334	4,347	4,110	11,797	6,677	7,084	5,286	5,335	4,818	5,469	6,153	5,731	4,962
Stores operated..... number.....	354	350	350	348	346	340	318	309	305	303	293	287	283
Total sales, 4 chains—													
Sales..... thous. of dolls.....	41,399	36,589	36,368	85,146	45,725	48,597	42,374	41,996	39,803	40,548	47,075	46,371	42,325
Stores operated..... number.....	3,020	3,020	3,020	3,023	3,021	3,011	3,002	2,988	2,967	2,952	2,935	2,922	2,908
Miscellaneous chain group:													
Five and Ten—													
Actual..... rel. to 1923-25.....	144	127	124	298	159	168	147	146	138	141	162	159	144
Adjusted for seasonal, rel. to 1923-25.....	158.7	162.5	160.8	153.2	158.3	151.0	156.0	163.0	152.0	160.0	174.0	161.0	164.0
<b>WAREHOUSES</b>													
Public merchandise warehouses,													
space occupied..... p. ct. of total.....	66.9	67.9	68.9	70.4	69.9	68.8	68.4	68.4	67.8	68.4	70.3	69.7	70.0

<sup>2</sup> Revised.







MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>COMMODITY GROUPS—Continued</b>													
<b>CONSTRUCTION—Continued</b>													
<b>Construction Contracts Awarded—Con.</b>													
<b>Industrial buildings:</b>													
Projects.....number.....	221	236	266	318	385	347	417	401	383	433	501	471	
Floor space.....thous. of sq. ft.....	1,499	1,620	2,090	2,056	2,610	5,434	3,611	5,073	3,721	7,516	4,597	5,966	
Valuation.....thous. of dolls.....	7,309	10,067	12,946	12,967	13,785	24,043	18,175	28,882	22,693	37,352	22,103	29,834	
<b>Public buildings:</b>													
Projects.....number.....	83	86	107	114	137	137	137	156	155	112	138	124	
Floor space.....thous. of sq. ft.....	2,019	952	1,710	645	1,176	1,300	2,031	2,650	1,115	1,598	1,779	1,763	
Valuation.....thous. of dolls.....	10,705	5,364	19,545	5,240	14,553	11,661	12,547	13,947	8,554	10,033	11,399	18,189	
<b>Public works and utilities:</b>													
Projects.....number.....	1,681	1,080	978	1,009	1,292	2,017	2,146	2,076	2,316	2,594	2,406	2,151	1,518
Floor space.....thous. of sq. ft.....	522	246	393	697	468	339	1,484	1,297	946	1,907	1,099	1,999	516
Valuation.....thous. of dolls.....	151,722	78,643	95,211	78,621	76,378	112,966	109,092	126,722	121,151	322,842	152,128	165,688	149,848
<b>Religious and memorial buildings:</b>													
Projects.....number.....	94	90	102	111	162	189	206	220	236	208	204	185	
Floor space.....thous. of sq. ft.....	392	241	446	496	667	860	852	873	1,315	1,131	1,439	1,346	
Valuation.....thous. of dolls.....	3,926	1,685	5,177	4,564	5,386	6,576	6,879	8,030	11,809	10,374	8,866	10,096	
<b>Residential buildings, all types:</b>													
Projects.....number.....	6,486	4,520	4,056	4,340	5,368	6,822	6,097	5,979	6,297	7,012	7,982	8,566	7,208
Floor space.....thous. of sq. ft.....	22,090	16,559	12,235	14,705	18,844	22,337	19,688	16,843	18,231	20,782	23,462	25,402	20,713
Valuation.....thous. of dolls.....	100,913	77,918	54,376	70,911	80,782	104,670	98,535	82,670	84,333	96,816	116,569	123,142	101,492
<b>Social and recreational buildings:</b>													
Projects.....number.....	149	129	127	169	227	222	220	269	242	280	279	215	
Floor space.....thous. of sq. ft.....	619	1,226	1,108	771	1,047	804	1,462	1,059	1,253	1,416	2,117	1,433	
Valuation.....thous. of dolls.....	4,999	8,557	5,849	7,670	9,583	6,040	9,478	8,173	10,187	10,419	17,409	10,505	
<b>Contracts awarded:</b>													
Canada.....thous. of dolls.....	27,312	25,930	20,299	24,542	30,311	33,332	32,407	49,407	37,374	54,728	46,862	48,779	24,263
<b>Employment</b>													
Ohio, construction.....rel. to 1926.....	51.9	49.4	59.8	72.0	82.6	87.7	96.6	100.3	93.3	93.5	92.3	81.0	
<b>Fire Losses</b>													
United States.....thous. of dolls.....	44,074	41,776	44,090	42,670	35,683	36,839	35,230	36,044	34,548	31,818	38,415	43,551	42,964
Canada.....thous. of dolls.....	3,488	4,689	4,053	4,689	3,175	2,796	2,507	5,877	2,560	3,266	3,941	2,331	3,783
<b>Highways</b>													
<b>Concrete pavements, new contracts:</b>													
Total.....thous. of sq. yds.....	19,467	9,403	10,107	8,808	6,293	9,745	10,080	10,657	17,416	18,156	18,914	18,570	13,700
Road.....thous. of sq. yds.....	17,573	8,321	9,218	5,081	4,790	6,820	6,360	7,243	12,720	13,860	14,899	14,338	11,294
<b>Federal-aid highways:</b>													
<b>Completed—</b>													
Cost.....thous. of dolls.....	5,826	9,654	17,416	42,751	40,418	41,088	18,422	18,541	13,544	22,939	9,317	6,031	6,185
Distance.....miles.....	188	205	423	1,071	1,138	1,025	544	537	483	938	445	302	227
Under construction, end of month.....miles.....	8,277	7,489	6,957	7,030	7,785	8,325	8,459	8,339	8,055	7,709	7,674	7,230	6,824
<b>Real Estate</b>													
Market activity.....rel. to 1926.....	61.7	66.7	66.0	68.9	64.6	74.0	66.8	69.6	69.8	66.7	73.5	73.0	70.3
<b>PUBLIC UTILITIES</b>													
<b>Gas and Electric Power</b>													
<b>Electric power companies, gross revenue</b>													
.....thous. of dolls.....	176,300	182,280	197,160	191,920	187,340	182,950	174,940	168,100	167,200	176,920	172,900	176,300	176,200
<b>Electric power production:</b>													
<b>United States—</b>													
Total.....mills. of kw. hrs.....	7,860	27,158	27,947	28,108	7,693	8,172	7,965	7,878	7,869	7,752	8,015	8,000	8,175
By fuels.....mills. of kw. hrs.....	5,240	24,997	25,597	5,746	5,502	5,903	5,513	5,391	5,010	4,715	4,821	4,716	4,909
By water power.....mills. of kw. hrs.....	2,620	2,161	2,350	2,362	2,191	2,269	2,252	2,487	2,859	3,037	3,194	3,284	3,266
In street railways, manufacturing plants, etc.....mills. of kw. hrs.....	452	410	460	502	465	486	479	526	541	541	518	489	501
In central stations.....mills. of kw. hrs.....	7,408	26,748	27,487	27,606	7,228	7,686	7,286	7,352	7,328	7,211	7,497	7,511	7,674
<b>Canada—</b>													
Total.....mills. of kw. hrs.....	1,414	1,336	1,485	1,542	1,515	1,575	1,443	1,412	1,426	1,435	1,545	1,502	1,515
By water power.....mills. of kw. hrs.....	1,392	21,311	21,456	1,513	1,488	1,550	1,419	1,391	1,404	1,414	1,524	1,481	1,491
Exported.....mills. of kw. hrs.....	128	145	162	149	142	161	154	143	136	129	118	127	
<b>Rate of manufacturing operations (based on consumption of electric energy for power purposes). (See under General production.)</b>													
<b>Telephone</b>													
<b>Telephone companies:</b>													
Operating revenues.....thous. of dolls.....	73,277	76,824	77,820	76,139	79,173	76,925	76,279	76,850	77,815	80,507	79,850	79,200	
Operating income.....thous. of dolls.....	16,864	17,892	16,070	17,148	19,074	17,756	16,445	15,452	17,432	18,141	18,877	17,984	
<b>Telegraph</b>													
Commercial telegraph tolls.....thous. of dolls.....	8,326	8,943	10,012	8,647	10,137	10,117	10,121	10,131	10,759	10,957	11,002	10,790	
Operating revenues.....thous. of dolls.....	10,806	11,528	12,973	11,348	13,157	13,054	12,965	13,090	13,768	14,059	13,964	13,865	
Operating income.....thous. of dolls.....	724	609	1,517	785	1,829	1,467	1,400	875	1,412	1,445	1,673	1,442	
<b>Transportation</b>													
<b>Express earnings:</b>													
Operating income.....thous. of dolls.....			100	119	118	115	124	93	83	153	74	102	
Operating revenue.....thous. of dolls.....			10,509	10,156	10,940	10,810	10,416	10,891	11,153	11,734	11,471	11,341	
<b>Electric railways (212 companies):</b>													
Average fare.....cents.....							8.352	8.340	8.328	8.320	8.308	8.308	
Passengers carried.....thous. of persons.....	629,336	692,709	718,784	658,789	701,279	646,036	646,750	655,477	681,788	736,202	728,820	760,269	

1 Revised.



## MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
	COMMODITY GROUPS—Continued												
<b>PUBLIC UTILITIES—Continued</b>													
<b>Transportation—Continued</b>													
<b>Inland waterways:</b>													
Allegheny River.....short tons	52,700	49,620	56,740	64,170	230,423	246,832	282,393	387,260	367,727	307,823	310,711	335,262	174,445
Cape Cod Canal.....short tons	163,186	165,789	233,890	225,021	225,322	230,043	244,640	247,376	219,574	208,467	214,302	184,002	151,515
Mississippi River Government barges.....short tons			75,300	107,507	83,480	102,569	113,749	70,088	84,266	140,176	124,924	101,122	71,087
Monongahela River.....thous. of short tons	1,535	1,359	1,571	1,547	1,811	2,075	2,087	2,152	2,154	2,152	2,265	2,113	2,364
New York State canals.....thous. of short tons					390	608	458	457	563	416	402	312	
Ohio River, Pittsburgh to Wheeling.....thous. of short tons	546	428	505	500	926	1,037	928	998	1,106	1,015	1,002	879	839
Panama Canal—													
Total cargo traffic.....thous. of long tons	1,916	1,930	2,107	2,167	2,263	2,394	2,060	2,145	2,402	2,147	2,262	2,457	2,558
In American vessels.....thous. of long tons	910	864	958	953	1,009	1,133	1,040	1,022	1,221	1,062	1,116	1,120	1,272
In British vessels.....thous. of long tons	429	448	540	536	615	546	436	532	578	556	511	685	611
St. Lawrence Canal.....thous. of short tons	319			38	563	877	914	1,007	930	998	841	111	
Sault Ste. Marie Canal.....thous. of long tons	922			2,311	5,130	9,094	10,347	11,267	12,367	12,650	11,320	410	
Suez Canal.....thous. of met. tons		2,474	2,744	2,246	2,186	2,217	2,204	2,288	2,390	2,111	2,542	2,475	2,634
Welland Canal.....short tons	370,003			68,400	583,907	916,563	979,532	985,829	850,918	758,820	805,262	141,679	
<b>Ocean traffic:</b>													
Clearances, vessels in foreign trade—													
Total.....thous. of net tons	5,044	4,972	5,414	5,505	6,224	7,074	7,653	8,480	8,067	7,509	7,525	6,703	5,834
American.....thous. of net tons	1,773	1,695	1,843	1,991	2,501	2,651	3,060	3,359	3,371	2,822	3,112	2,966	2,116
Foreign.....thous. of net tons	3,271	3,277	3,571	3,514	3,723	4,423	4,593	5,121	4,696	4,687	4,412	3,738	3,718
<b>Passenger travel:</b>													
Arrivals from abroad—													
Immigrants.....number	3,577	3,147	4,091	6,439	9,209	13,942	17,792	14,816	13,323	14,944	19,414	22,261	19,759
United States citizens.....number	34,861	27,508	19,844	28,535	22,381	40,702	80,900	69,957	38,822	32,284	25,487	32,115	40,727
Departures abroad—													
Emigrants.....number	4,693	4,720	4,397	5,450	4,951	5,352	5,100	5,245	4,818	4,320	3,720	3,947	2,900
United States citizens.....number	32,278	33,172	24,885	21,140	24,420	32,988	50,526	38,372	55,366	40,103	27,593	26,707	37,930
<b>National parks:</b>													
Visitors.....number			48,874	37,246	43,361	67,089	183,583	549,287	596,699	293,931	121,194	75,515	67,306
Automobiles entered.....number			9,211	6,010	7,937	15,596	43,939	127,153	143,049	77,153	35,819	14,322	12,841
Passports issued.....number	14,328	7,255	7,445	6,565	7,496	7,834	8,772	10,510	16,084	32,405	43,227	33,148	18,802
<b>Pullman Company operations:</b>													
Revenue.....thous. of dolls.	5,402	5,346	6,072	5,418	5,305	6,016	6,476	7,128	6,485	7,198	6,171	6,247	6,316
Passengers carried.....thousands	1,966	1,919	2,203	2,180	2,031	2,278	2,517	2,767	2,541	2,679	2,351	2,420	2,457
<b>Trend of business in hotels:</b>													
Average sale per occupied room.....dollars		3.84	3.80	3.72	3.96	3.90	3.82	3.96	3.86	3.89	3.76	4.05	3.90
Room occupancy.....p. ct. of capacity		64	66	60	65	69	64	60	59	62	68	68	67
<b>Shipbuilding:</b>													
Rate of activity (elec. energy consumed).....rel. to 1923-25													
	98.3	114.8	113.9	99.0	105.5	121.5	124.1	122.8	116.8	111.8	113.2	130.1	117.7
Building or under contract, end of month—													
Merchant vessels.....thous. of gross tons	409	412	421	344	359	366	423	489	465	487	488	366	327
Completed during month—													
Total.....gross tons	17,443	25,622	29,413	25,971	53,551	51,667	32,083	75,030	45,069	29,806	45,570	16,930	23,840
Steel, seagoing.....gross tons	13,976	9,703	21,045	18,391	39,830	16,895	20,125	33,302	15,974	17,395	26,248	4,166	13,088
<b>Steam railways:</b>													
<b>Equipment—</b>													
<b>Freight cars—</b>													
In bad order, end of month—													
Quantity.....cars	162,117	153,606	147,650	147,334	155,883	157,727	157,141	153,046	144,987	140,594	137,386	129,865	129,895
Ratio to total cars.....per cent.	7.3	6.9	6.7	6.6	7.0	7.1	7.1	6.8	6.5	6.3	6.2	5.9	5.9
New orders.....cars	2,166	24		2,691	2,862	3,291	565	823	1,306	794	1,079	1,543	4,464
Owned, end of month—													
Quantity.....thous. of cars	2,251	2,253	2,254	2,258	2,271	2,272	2,275	2,274	2,274	2,272	2,270	2,276	2,268
Capacity.....millis. of lbs.	210,102	210,235	210,229	210,426	211,788	211,823	211,942	211,831	211,550	211,221	210,890	210,720	210,315
<b>Shipments—</b>													
Total.....cars	762	633	845	607	1,182	2,384	4,235	5,940	5,348	5,066	6,785	9,087	6,144
Domestic.....cars	637	533	735	436	1,139	2,307	4,176	5,934	5,348	5,059	6,785	8,874	6,066
Unfilled orders (railroads)—													
Total.....cars	7,484	8,637	8,799	9,780	3,716	5,423	6,175	10,802	17,230	22,759	28,696	31,846	35,181
Of manufacturers.....cars	1,569	2,207	2,681	3,376	1,125	2,445	4,127	7,723	14,247	19,161	25,050	26,518	29,058
In railroad shops.....cars	5,915	6,430	6,118	6,404	2,591	2,978	2,048	3,079	2,983	3,598	3,646	5,328	6,123
<b>Locomotives (Am. Ry. Assc.)—</b>													
Exports, steam													
In bad order, end of month—		2	2	3		5	2	2	4	3	9	4	10
Awaiting classified repairs													
Quantity.....number	5,967	5,734	5,522	5,216	5,102	4,936	4,676	4,585	4,562	4,515	4,450	4,563	4,595
Ratio to total locomotives													
Installed.....per cent.	10.9	10.4	10.0	9.5	9.2	8.9	8.6	8.2	8.2	8.1	8.0	8.2	8.2
New orders.....number	77	86	80	92	96	127	147	161	118	165	177	149	142
Retired.....number	8	8	2	60	4	7	25	34	2	18	29	43	43
Owned, end of month—	161	128	182	390	268	206	198	216	156	193	226	166	310
Quantity.....number	55,450	55,534	55,576	55,678	55,985	56,157	56,236	56,287	56,342	56,380	56,410	56,456	56,486
Tractive power.....millis. of lbs.	2,522	2,525	2,525	2,528	2,541	2,541	2,541	2,540	2,537	2,535	2,533	2,531	2,528
<b>Shipments, manufacturers (Census)—</b>													
Total.....number	10	15	16	49	43	50	65	77	56	81	58	97	70
Electric, domestic.....number	5	5	6	7	6	2	3	5	3				2
Steam, domestic.....number	5	10	10	37	37	48	62	68	52	80	56	94	64
<b>Shipments, electric locomotives—</b>													
Industrial (quarterly).....number	17			23			33			35			17
Mining (quarterly).....number	55			76			113			136			123
Unfilled orders (railroads), end of month—													
Of manufacturers.....number	60	57	64	90	59	102	143	189	242	300	354	239	310
In railroad shops.....number	26	29	30	30	33	37	38	46	54	64	77	123	132
Unfilled orders, manufacturers' (Census)—													
Total.....number	95	103	91	104	93	132	174	234	291	343	420	469	536
Electric, domestic.....number	2	7	12	18	25	31	33	36	41	44	44	45	45
Steam, domestic.....number	81	85	78	86	63	96	136	193	243	291	367	417	485

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## MONTHLY BUSINESS STATISTICS—Continued

	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
<b>COMMODITY GROUPS—Continued</b>													
<b>FINANCE—Continued</b>													
<b>Business Failures</b>													
Firms (United States):													
Total commercial.....number..	2,604	2,563	3,316	2,525	2,031	2,124	1,963	1,913	2,028	2,026	2,179	2,198	2,347
Manufacturers.....number..	582	583	611	537	448	499	434	566	425	507	501	534	621
Trade establishments.....number..	1,843	1,831	2,541	1,834	1,447	1,474	1,395	1,234	1,481	1,393	1,580	1,500	1,587
Agents and brokers.....number..	179	149	164	154	136	151	134	113	122	126	148	164	139
By groups—													
Manufacturers—													
Total.....number..	582	583	611	537	448	499	434	566	425	507	501	534	621
Chemicals.....number..	5	13	10	9	5	7	9	14	11	9	5	9	11
Foodstuffs.....number..	37	37	32	34	27	35	35	29	37	45	29	38	42
Leather.....number..	23	14	17	14	8	15	14	21	10	8	14	4	11
Liquors and tobacco.....number..	9	9	6	6	10	14	8	11	1	6	4	3	3
Lumber.....number..	61	72	76	77	71	54	65	98	81	85	94	106	111
Printing and engraving.....number..	27	15	21	15	18	20	16	19	20	22	21	15	16
Stone, clay, and glass.....number..	7	4	11	12	14	12	7	7	9	7	13	10	11
Textiles.....number..	79	96	124	85	71	97	53	55	51	75	57	61	81
Metals.....number..	52	54	44	34	34	34	30	33	45	28	43	42	42
All other.....number..	282	269	270	251	190	211	197	279	160	222	221	246	293
Traders—													
Total.....number..	1,843	1,831	2,541	1,834	1,447	1,474	1,395	1,234	1,481	1,393	1,530	1,500	1,587
Books and paper.....number..	28	19	15	15	11	18	12	11	21	13	18	10	13
Chemicals and paints.....number..	107	93	117	114	111	94	98	78	73	93	73	80	99
Clothing.....number..	400	381	633	444	261	250	257	270	268	264	300	270	317
Foods and tobacco.....number..	441	438	476	461	393	398	341	329	403	365	395	386	413
General stores.....number..	152	131	220	138	104	108	93	67	83	73	69	108	124
Household furniture.....number..	358	407	571	290	245	253	247	204	235	259	286	277	307
All other.....number..	357	362	509	372	322	353	347	275	398	326	389	369	314
Firms (Canada).....number..	213	253	296	295	237	214	175	167	183	156	188	177	183
Liabilities (United States):													
Total commercial.....thous. of dolls..	60,387	59,608	94,608	83,683	55,261	56,297	46,947	49,181	39,826	63,131	55,541	49,059	56,846
Total commercial.....rel. to 1923-25..	142.4	140.6	223.1	197.4	130.3	132.8	110.7	116.0	93.9	148.9	131.0	115.7	134.1
Manufacturers.....thous. of dolls..	24,072	25,304	47,633	19,948	13,438	17,989	16,448	24,735	13,369	26,273	23,133	19,669	19,414
Trade establishments.....thous. of dolls..	30,348	30,852	43,071	28,853	21,217	22,059	19,311	17,829	21,572	22,825	21,285	23,427	24,938
Agents and brokers.....thous. of dolls..	5,967	3,452	3,904	35,282	14,606	16,212	11,188	8,617	4,887	14,033	11,123	5,964	13,139
Liabilities (Canada).....thous. of dolls..	3,752	3,014	4,215	6,994	2,958	2,532	2,664	2,939	2,997	2,707	2,737	2,006	2,543
<b>Dividend and Interest Payments</b>													
Grand total.....mills. of dolls..	594	524	1,121	713	579	763	524	424	916	721	570	745	624
Dividend payments:													
Total.....mills. of dolls..	311	285	521	284	277	320	228	197	373	329	308	325	344
Industrial and miscellaneous:													
Total.....mills. of dolls..	236	217	386	221	212	250	184	153	278	235	220	243	263
Steam railroads.....mills. of dolls..	46	45	56	39	39	44	30	37	54	40	36	40	48
Street railways.....mills. of dolls..	7	9	16	14	12	11	7	7	13	7	8	11	8
Interest payments.....mills. of dolls..	284	239	601	429	302	443	296	227	543	342	262	420	281
<b>Net Corporation Profits</b>													
Grand total, 10 groups.....mills. of dolls..				\$ 683			\$ 775			\$ 805			\$ 778
Total public utilities.....mills. of dolls..				\$ 341			\$ 288			\$ 329			\$ 337
Industrial and miscellaneous—													
Total.....mills. of dolls..				\$ 116			\$ 204			\$ 276			\$ 265
Automobiles, parts and accessories.....mills. of dolls..				\$ 16			\$ 29			\$ 72			\$ 58
Food.....mills. of dolls..				\$ 30			\$ 37			\$ 40			\$ 34
Machinery.....mills. of dolls..				\$ 9			\$ 8			\$ 10			\$ 12
Metals and mining.....mills. of dolls..				\$ 4			\$ 5			\$ 8			\$ 15
Oil.....mills. of dolls..				\$ 43			\$ 24			\$ 22			\$ 16
Miscellaneous.....mills. of dolls..				\$ 43			\$ 66			\$ 71			\$ 70
Steel and railroad equipment.....mills. of dolls..				\$ 16			\$ 35			\$ 53			\$ 60
Class I railroads.....mills. of dolls..				\$ 226			\$ 283			\$ 200			\$ 176
Telephone.....mills. of dolls..				\$ 68			\$ 65			\$ 70			\$ 67
Other large public utilities.....mills. of dolls..				\$ 273			\$ 223			\$ 259			\$ 270
<b>Stockholders</b>													
American Telephone & Telegraph Co.:													
Domestic.....number..	\$ 574,905			\$ 560,424			\$ 540,826			\$ 507,774			\$ 487,360
Foreign.....number..	\$ 6,383			\$ 6,184			\$ 5,866			\$ 5,555			\$ 5,370
Pennsylvania R. R. Co.:													
Domestic.....number..				\$ 233,414			\$ 212,311			\$ 207,869			\$ 207,158
Foreign.....number..				\$ 3,190			\$ 3,096			\$ 3,087			\$ 3,094
U. S. Steel Corporation (common stock):													
Domestic.....number..	\$ 147,440			\$ 143,221			\$ 132,479			\$ 131,357			\$ 126,517
Foreign.....number..	\$ 2,451			\$ 2,345			\$ 3,026			\$ 2,106			\$ 2,077
Shares held by brokers.....p. ct. of total..	\$ 15.68			\$ 16.20			\$ 18.60			\$ 18.57			\$ 22.00
<b>Foreign Exchange Rates</b>													
America:													
Argentina.....dolls. per gold peso..	.780	.719	.697	.756	.781	.781	.818	.825	.821	.845	.872	.886	.856
Brazil.....dolls. per milreis..	.079	.086	.091	.096			.101	.100	.109	.114	.118	.117	.115
Canada.....dolls. per Canadian doll..	1.000	1.000	.998	.999	1.001	1.001	1.001	1.001	1.000	1.000	.998	1.000	.998
Chile.....dolls. per paper peso..	.121	.121	.121	.121	.121	.121	.121	.121	.121	.121	.121	.121	.121
Asia:													
Japan.....dolls. per yen..	.494	.494	.494	.496	.496	.496	.494	.494	.494	.494	.494	.494	.493
India.....dolls. per rupee..	.361	.359	.359	.369	.360	.360	.360	.360	.360	.361	.360	.361	.361
Europe:													
Belgium.....dolls. per franc..	.139	.139	.139	.140	.139	.139	.140	.140	.140	.140	.140	.140	.139
England.....dolls. per lb. sterling..	4.86	4.86	4.85	4.86	4.86	4.86	4.86	4.87	4.87	4.86	4.86	4.86	4.86
France.....dolls. per franc..	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039	.039
Italy.....dolls. per lira..	.052	.052	.052	.052	.052	.052	.052	.052	.052	.052	.052	.052	.052
Netherlands.....dolls. per guilder..	.401	.401	.402	.403	.402	.403	.403	.403	.402	.402	.402	.402	.401
Sweden.....dolls. per krone..	.268	.268	.268	.268	.268	.269	.269	.269	.269	.269	.269	.269	.269
Switzerland.....dolls. per franc..	.192	.193	.194	.194	.194	.194	.194	.194	.194	.194	.194	.194	.194

2 Revised.

3 Quarter ended in month indicated.

## MONTHLY BUSINESS STATISTICS—Continued

Earlier data for items shown here may be found on pages 22 to 139 of the August, 1930, "Survey"	1931			1930									
	March	February	January	December	November	October	September	August	July	June	May	April	March
COMMODITY GROUPS—Continued													
<b>FINANCE—Continued</b>													
<b>Life Insurance</b>													
(Association of Life Insurance Presidents)													
Admitted life insurance assets (40 cos.):													
Grand total.....	mills. of dolls. .... 15, 474 15, 392 15, 293 15, 217 15, 120 15, 024 14, 926 14, 837 14, 736 14, 648 14, 543 14, 444												
Mortgage loans—													
Total.....	mills. of dolls. .... 6, 323 6, 312 6, 303 6, 270 6, 244 6, 223 6, 213 6, 200 6, 171 6, 160 6, 140 6, 116												
Farm.....	mills. of dolls. .... 1, 555 1, 555 1, 554 1, 561 1, 562 1, 563 1, 571 1, 572 1, 573 1, 575 1, 576 1, 577												
All other.....	mills. of dolls. .... 4, 768 4, 757 4, 749 4, 709 4, 682 4, 660 4, 642 4, 628 4, 598 4, 585 4, 564 4, 539												
Bonds and stocks (book value):													
Government.....	mills. of dolls. .... 1, 108 1, 106 1, 104 1, 101 1, 095 1, 089 1, 085 1, 079 1, 073 1, 064 1, 065 1, 061												
Public utility.....	mills. of dolls. .... 1, 572 1, 545 1, 531 1, 526 1, 521 1, 488 1, 473 1, 450 1, 441 1, 414 1, 398 1, 389												
Railroad.....	mills. of dolls. .... 2, 648 2, 633 2, 637 2, 640 2, 638 2, 622 2, 621 2, 617 2, 600 2, 594 2, 572 2, 554												
All other.....	mills. of dolls. .... 485 478 475 469 465 449 437 436 417 398 385 380												
Total.....	mills. of dolls. .... 5, 813 5, 762 5, 747 5, 736 5, 719 5, 648 5, 616 5, 582 5, 531 5, 470 5, 420 5, 384												
Policy loans and premium notes													
Total.....	mills. of dolls. .... 2, 241 2, 212 2, 169 2, 127 2, 098 2, 062 2, 041 2, 018 1, 992 1, 965 1, 942 1, 922												
Amount of new insurance (44 cos.):													
Group.....	mills. of dolls. .... 62 104 78 131 59 52 138 73 130 107 91 114 75												
Industrial.....	mills. of dolls. .... 247 209 214 229 208 244 210 234 248 312 230 241 264												
Ordinary.....	mills. of dolls. .... 720 599 596 753 593 620 545 622 715 726 776 840 885												
Total insurance.....	mills. of dolls. .... 1, 028 912 888 1, 112 861 915 894 929 1, 092 1, 144 1, 098 1, 194 1, 222												
Policies and certificates, new (44 cos.):													
Group.....	thous. of policies. .... 28 60 44 59 28 35 46 39 74 52 46 62 46												
Industrial.....	thous. of policies. .... 881 731 750 794 741 847 722 805 896 1, 163 848 893 974												
Ordinary.....	thous. of policies. .... 321 247 251 310 253 261 229 245 270 267 294 310 339												
Total policies and certificates.....	thous. of policies. .... 1, 230 1, 039 1, 026 1, 172 1, 022 1, 143 996 1, 088 1, 241 1, 482 1, 188 1, 265												
Premium collections (44 cos.):													
Annuity.....	thous. of dolls. .... 11, 919 12, 430 10, 741 19, 615 7, 094 6, 917 5, 016 5, 797 7, 047 5, 359 6, 086 5, 805 5, 789												
Group.....	thous. of dolls. .... 8, 790 8, 748 10, 108 9, 591 7, 269 7, 944 7, 220 6, 508 8, 480 7, 615 8, 003 7, 598 8, 344												
Industrial.....	thous. of dolls. .... 62, 920 58, 388 62, 659 112, 666 58, 108 55, 851 59, 859 58, 961 54, 602 59, 522 58, 459 53, 948 65, 606												
Ordinary.....	thous. of dolls. .... 186, 452 166, 759 170, 497 191, 871 154, 473 165, 954 147, 907 150, 754 170, 847 166, 190 175, 397 173, 929 182, 065												
Total.....	thous. of dolls. .... 270, 081 244, 325 254, 005 333, 743 228, 944 236, 686 220, 002 222, 020 240, 976 238, 686 247, 945 241, 280 262, 403												
Sales of ordinary life insurance (Life Insurance Sales Research Bureau):													
Canada, total, 15 cos.....	thous. of dolls. .... 46, 945 40, 180 41, 188 49, 874 46, 868 46, 019 39, 643 37, 061 49, 829 55, 355 50, 085 52, 708 50, 327												
United States, total.....	thous. of dolls. .... 770, 440 647, 140 628, 607 795, 642 653, 131 685, 755 603, 102 685, 864 779, 184 822, 437 860, 068 897, 871 941, 801												
Eastern manufacturing dis- trict.....	thous. of dolls. .... 343, 745 289, 757 280, 086 324, 635 279, 651 285, 594 238, 909 275, 228 319, 321 330, 948 350, 340 370, 797 401, 432												
Far Western district.....	thous. of dolls. .... 73, 579 60, 094 61, 589 86, 291 65, 011 71, 961 68, 520 77, 450 82, 955 87, 114 88, 667 94, 243 94, 727												
Southern district.....	thous. of dolls. .... 77, 628 64, 009 65, 329 91, 922 72, 189 77, 196 69, 724 80, 858 89, 284 94, 384 99, 406 99, 928 98, 391												
Western agricultural dis- trict.....	thous. of dolls. .... 101, 945 86, 439 82, 754 117, 117 90, 178 97, 300 89, 779 99, 276 114, 929 121, 170 130, 005 131, 635 131, 342												
Western manufacturing dis- trict.....	thous. of dolls. .... 173, 543 146, 841 138, 869 175, 677 146, 102 153, 704 136, 170 153, 052 172, 695 188, 821 191, 560 201, 268 215, 909												
<b>Gold and Silver</b>													
<b>Gold:</b>													
Domestic receipts at mint.....	fine ounces. .... 85, 091 87, 717 94, 476 109, 907 113, 430 152, 648 125, 871 112, 395 115, 119 90, 764 76, 786 89, 694 73, 745												
Exports.....	fine ounces. .... 26 14 55 36 5, 008 9, 266 11, 133 39, 332 41, 529 26 82 110 290												
Imports.....	fine ounces. .... 25, 661 16, 156 34, 426 32, 778 40, 159 35, 635 13, 680 19, 714 21, 889 13, 938 23, 552 65, 835 55, 768												
Monetary stocks of U. S. daily average.....	mills. of dolls. .... 4, 682 4, 658 4, 622 4, 583 4, 553 4, 520 4, 503 4, 496 4, 532 4, 528 4, 505 4, 443 4, 395												
Rand output.....	fine ounces. .... 910, 998 839, 937 914, 576 908, 492 884, 753 926, 561 903, 176 921, 081 912, 652 887, 867 916, 213 868, 606 889, 370												
<b>Silver:</b>													
Exports.....	thous. of dolls. .... 2, 323 2, 168 3, 571 3, 472 4, 102 4, 424 3, 903 4, 544 3, 709 3, 336 4, 978 4, 646 5, 811												
Imports.....	thous. of dolls. .... 1, 821 2, 187 2, 896 2, 660 2, 652 2, 270 3, 461 3, 492 3, 953 2, 707 3, 486 3, 570 4, 831												
Price at New York.....	dolls. per fine oz. .... .292 .288 .294 .326 .359 .358 .363 .352 .343 .346 .407 .424 .417												
Production—													
United States.....	thous. of fine oz. .... 3, 562 3, 187 3, 480 3, 713 3, 738 3, 816 3, 780 3, 835 3, 551 3, 969 4, 293 4, 627 4, 998												
Canada.....	thous. of fine oz. .... 1, 429 1, 772 1, 932 2, 043 1, 412 2, 291 3, 486 2, 685 2, 100 1, 455 1, 585 1, 705 1, 714												
Mexico.....	thous. of fine oz. .... 6, 944 8, 751 8, 751 8, 481 8, 712 8, 889 9, 154 7, 755 7, 905 10, 276 9, 080 7, 514 8, 844												
Stocks, end of month—													
United States.....	thous. of fine oz. .... 2, 714 1, 851 654 831 956 649 813 677 459 737 348 356 338												
Canada.....	thous. of fine oz. .... 796 702 694 179 216 217 341 410 312 441 844 690 496												
<b>Public Finance</b>													
Customs receipts.....													
Expenditures chargeable ordinary receipts.....	thous. of dolls. .... 31, 807 28, 107 28, 808 30, 764 36, 365 39, 319 36, 655 32, 083 26, 200 72, 170 51, 722 41, 071 42, 619												
Government debt, gross, end of month.....	thous. of dolls. .... 720, 236 191, 425 413, 796 364, 540 244, 651 375, 244 308, 221 224, 117 284, 310 416, 799 230, 997 414, 147 362, 221												
Total ordinary receipts.....	mills. of dolls. .... 16, 583 16, 231 16, 163 16, 026 16, 185 16, 180 16, 081 16, 188 16, 176 16, 185 16, 399 16, 394 16, 390												
United States money in cir- culation.....	thous. of dolls. .... 433, 301 118, 614 125, 605 717, 092 120, 362 147, 813 602, 811 127, 388 138, 741 803, 495 173, 243 159, 053 674, 876												
Total.....	mills. of dolls. .... 4, 590 4, 598 4, 695 4, 823 4, 528 4, 501 4, 492 4, 476 4, 483 4, 489 4, 497 4, 518 4, 533												
<b>Stocks and Bonds</b>													
<b>BONDS</b>													
Bond prices:													
Combined price													
index.....	p. ct. of par. 4% bond. .... 82.29 82.06 81.98 78.96 81.10 82.49 84.26 82.93 81.43 81.10 81.20 81.23 81.27												
Highest-grade rails p. ct. of par. 4% bond.....	p. ct. of par. 4% bond. .... 96.31 96.41 96.59 92.89 94.63 95.85 95.83 94.25 92.83 91.36 90.42 89.81 90.52												
Industrial.....	p. ct. of par. 4% bond. .... 70.83 70.72 70.98 68.61 70.53 71.63 76.13 76.33 75.43 75.60 76.35 76.64 76.06												
Public utility.....	p. ct. of par. 4% bond. .... 79.59 79.00 78.14 75.54 77.32 78.92 79.49 76.82 74.99 74.78 75.36 75.76 75.63												
Second-grade rails p. ct. of par. 4% bond.....	p. ct. of par. 4% bond. .... 86.58 86.39 86.54 82.78 85.85 87.49 88.32 86.94 85.09 84.91 84.49 84.32 84.13												
Bond prices, first of following month:													
50 domestic bonds.....	p. ct. of par. .... 100.15 100.27 99.57 99.54 99.68 100.08 100.96 100.41 99.81 99.10 99.23 98.87 99.20												
40 representative issues.....	p. ct. of par. .... 88.03 86.67 84.56 81.53 84.05 86.08 88.25 90.99 91.12 90.62 92.01 91.97 93.88												
5 liberty bonds.....	p. ct. of par. .... 105.37 104.85 104.23 105.53 106.41 106.06 105.84 105.23 105.44 105.28 104.92 104.16 104.53												
Bond yields:													
Industrial (15).....	per cent. .... 4.98 5.01 4.99 51.2 4.97 4.89 4.85 4.87 4.92 4.92 4.92 4.91 4.95												
Liberty and Treasury bonds.....	per cent. .... 3.39 3.40 3.33 3.34 3.32 3.34 3.37 3.38 3.37 3.41 3.41 3.46 3.40												
Municipal (15).....	per cent. .... 3.89 3.95 3.92 4.05 4.00 3.94 3.97 3.97 4.05 4.10 4.11 4.11 4.12												
Municipal bond yield (20).....	per cent. .... 3.90 4.03 4.05 4.12 4.06 3.99 3.97 4.01 4.08 4.14 4.18 4.17 4.15												
Railroad (15).....	per cent. .... 4.27 4.27 4.25 4.41 4.32 4.25 4.25 4.29 4.36 4.41 4.45 4.47 4.43												
U. S. Treasury notes and certificates, 3-6 mos. ....	per cent. .... 1.38 1.06 1.24 1.48 1.40 1.74 1.84 1.53 1.83 1.89 2.41 3.00 2.95												
Utilities (15).....	per cent. .... 4.48 4.54 4.56 4.61 4.57 4.53 4.55 4.59 4.63 4.67 4.68 4.69 4.71												
Total, 60 high-grade.....	per cent. .... 4.41 4.44 4.43 4.55 4.46 4.41 4.41 4.43 4.49 4.53 4.54 4.54 4.55												

\* Revised.









## PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

**Agriculture.** Fifteenth Census of United States, 1930. Agriculture, Maine. Number of Farms, Farm Acreage, and Values of Farm Land and Buildings, Farm Buildings, Farmers' Dwellings, and Farm Implements and Machinery, by Minor Civil Divisions. 9 pages, 1 illustration. (Bureau of the Census.) Price, 5 cents.

**Aviation.** Aeronautics Publications. Revised January 1, 1931. ii+14 pages. (Aeronautics Branch, Aeronautics Bulletin No. 6.)

Air Commerce Bulletin is issued semi-monthly by the Aeronautics Branch of the Department of Commerce and contains articles on aviation developments and a list of air transport routes.

**Airports and Landing Fields.** Revised January 1, 1931. 16 pages. (Aeronautics Branch, Aeronautics Bulletin No. 6.) This publication lists all municipal and commercial airports, Department of Commerce intermediate landing fields, and Army and Navy landing fields in the United States, with a list of proposed airports.

**Airworthiness Requirements of Air Commerce Regulations for Aircraft.** ii+86 pages, 5 illustrations, 11 charts. (Aeronautics Branch, Aeronautics Bulletin No. 7-A.)

**Report of Committee on Airport Zoning and Eminent Domain.** ii+14 pages. (Aeronautics Branch.) Study of problems involved in the establishment of airports, conclusions drawn, and recommendations for procedure in such establishment. Price, 5 cents.

**Buoyage System of United States.** iii+15 pages, 6 illustrations. (Lighthouse Service.) Discussion of the construction and types of buoys used and the methods of their operation and maintenance. A brief account is given of the earliest buoys used in American waters and the growth of this system of aids to navigation.

**Coal and coke.** Pennsylvania Anthracite in 1929, by H. O. Rogers, G. E. Kessler, and H. L. Bennit. (Bureau of Mines, Mineral Resources of United States, 1929, Pt. II, pp. 1-38.) Report on conditions in the anthracite industry of Pennsylvania, the amount of coal produced, and the amount shipped. Price, 10 cents.

**Commercial Standards Monthly.** Review of Progress in Commercial Standardization and Simplification. Published monthly by Bureau of Standards. Annual subscription, \$1.

**Filters for Reproduction of Sunlight and Daylight and Determination of Color Temperature.** by Raymond Davis and K. S. Gibson. ii+165 pages, 7 illustrations, 2 plates, 49 charts. (Bureau of Standards, Miscellaneous Publication No. 114.) Description of different kinds of filters used in photographic sensitometry, colorimetry, and photometry and methods of their use. Price, 45 cents.

**Financial Statistics of Cities Having Population of Over 20,000, 1928.** 509 pages, 12 illustrations. (Bureau of the Census.) These statistics show the total and per capita receipts and expenditures of the cities considered, the value of municipal property, municipal indebtedness, the assessed value of taxable property, and the total and per capita tax levies. Price, \$1.25.

**Fish.** Menhaden Industry, by Roger W. Harrison. Vol. 1, ii+113 pages, 22 illustrations, 8 charts. (Bureau of Fisheries, Investigational Report No. 1.) Discussion of the importance of the menhaden industry, its development, the regulations of various States governing these fisheries, the equipment used and methods of operation, and the investigative work of the Bureau of Fisheries in connection with this industry. Price, 25 cents.

**Heat of Formation of Water.** by Frederick D. Rossini. (Bureau of Standards, Research Paper No. 259.) Reprint from the Bureau of Standards Journal of Research, vol. 6, January, 1931, pp. 1-35, 9 illustrations. Report on experiments to determine the thermal energy liberated when hydrogen and oxygen gases combine to form water. Price, 10 cents.

**Machinery.** Industrial Machinery in 1930, by W. H. Rastall. iv+62 pages, 5 charts. (Bureau of Foreign and Domestic Commerce, Trade Promotion Series No. 141.) This publication discusses the relation of machinery to living conditions, the increase in mechanization of all industry in recent years, the production and consumption of this equipment in differ-

ent countries, the types produced in each, and the international trade in machinery. Price, 15 cents.

**Magnetism, terrestrial.** Results of Observations Made at United States Coast and Geodetic Survey Magnetic Observatory Near Tucson, Ariz., in 1923 and 1924, by W. N. McFarland. ii+103 pages, 5 plates. Price, 50 cents.

**Marine Standards.** American Marine Standards, Lists and Indexes, issued by American Marine Standards Committee. ii+9 pages. (Bureau of Standards.) Price, 5 cents.

**Metal and minerals.** Chromite in 1929, by Lewis A. Smith. (Bureau of Mines, Mineral Resources of United States, 1929, Pt. I, pp. 203-229.) Data on the chromite output of the principal producing regions of the world, the uses of this metal, and its consumption and imports in the United States. Price, 5 cents.

**Monthly Summary of Foreign Commerce of United States, January, 1931.** Parts I and II. (Bureau of Foreign and Domestic Commerce.) Part I contains statistics of exports of domestic merchandise, and imports by articles for January, 1930 and 1931, and for six months ending December, 1929 and 1930. Part II contains summaries of export and import trade, monthly average import and export prices, and statistics of trade with Alaska, Hawaii, and Porto Rico. Single copies, Part I, 10 cents; Part II, 5 cents. Annual subscription, \$1.25.

**Motor boats.** Regulation of Motor Boats. 4 pages. (Office of the Secretary, Department Circular No. 236.) Regulations governing the equipment and life-saving devices to be used on motor boats.

**Scientific instruments.** Portable Instrument for Measuring Air Permeability of Fabrics, by Herbert F. Schiefer and Alfred S. Best. (Bureau of Standards, Research Paper No. 261.) Reprint from Bureau of Standards Journal of Research, vol. 6, January, 1931, pp. 51-58, 2 illustrations, 2 pages of plates. Description of apparatus used to measure air permeability of fabrics. Price, 10 cents.

**Shipping.** American Documented Seagoing Merchant Vessels of 500 Gross Tons and Over. Published monthly by the Bureau of Navigation. Single copies, 10 cents; annual subscription, 75 cents.

**Simplified practice recommendations.** Bedsteads, Springs, and Mattresses. vi+14 pages, 1 illustration. (Bureau of Standards, Simplified Practice Recommendation R2-30.) Price, 5 cents.

**Bell-bottom Screw Jacks.** vi+12 pages, 1 illustration. (Bureau of Standards, Simplified Practice Recommendation R37-30.) Price, 5 cents.

**Dental Brush Wheels.** vi+12 pages, 4 illustrations, 1 chart. (Bureau of Standards, Simplified Practice Recommendation R116-30.) Price, 10 cents.

**Hospital and Institutional Cotton Textiles.** Second edition. vi+14 pages, 1 chart. (Bureau of Standards, Simplified Practice Recommendation R74-30.) Price, 5 cents.

**Packaging of Carriage Machine, and Lag Bolts.** Second edition. vi+18 pages, 1 chart. (Bureau of Standards, Simplified Practice Recommendation R50-30.) Price, 5 cents.

**Restaurant Guest Checks.** iv+14 pages, 1 illustration. (Bureau of Standards, Simplified Practice Recommendation R113-30.) Price, 5 cents.

**Standards Yearbook, 1931.** vi+399 pages, 3 illustrations, 1 plate. (Bureau of Standards, Miscellaneous Publication No. 118.) This publication contains a discussion of the standardization activities of the Bureau of Standards, other agencies of the Federal Government and of States, counties, and municipalities, and of technical societies and trade associations. There are included a number of articles by experts in the field of transportation and research, and a bibliography on standardization. Price, \$1.

**Stores.** Distribution of Dry Goods in Gulf Southwest, by Edward F. Gerish. vi+170 pages, 70 illustrations, 1 chart, 9 maps. (Bureau of Foreign and Domestic Commerce, Domestic Commerce Series No. 42.) This is Part I of the commercial survey of the Gulf Southwest. It is a study of the operations and merchandising methods of wholesale, retail, and chain systems of stores in this part of the country. Price, 35 cents.



# CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

R. P. LAMONT, Secretary of Commerce

JULIUS KLEIN, Assistant Secretary of Commerce

EPHRAIM F. MORGAN, Solicitor

## AERONAUTICS BRANCH

CLARENCE M. YOUNG, Assistant Secretary of Commerce for Aeronautics

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

## BUREAU OF THE CENSUS

WILLIAM M. 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, births, deaths, and penal and other institutions annually, and of death rates in cities and automobile accidents weekly.

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

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE

WILLIAM L. COOPER, Director

The collection of timely information concerning world market conditions and openings for American products in foreign countries, through commercial 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 65 cities.

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

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

The publication of statistics on imports and exports.

The study of the processes of domestic trade and commerce. The Survey of Current Business.

## BUREAU OF STANDARDS

GEORGE K. BONASA, Director

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

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

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

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

## BUREAU OF MINES

SCOTT TURNER, Director

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

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

Research on helium and operation of plants producing it.

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

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

## BUREAU OF FISHERIES

HENRY O'MALLEY, Commissioner

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

## BUREAU OF LIGHTHOUSES

GEORGE R. PUTNAM, Commissioner

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

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

## COAST AND GEODETIC SURVEY

RAYMOND S. PATTON, Director

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

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

## BUREAU OF NAVIGATION

ARTHUR J. TYLER, Commissioner

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

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

## STEAMBOAT INSPECTION SERVICE

DICKINSON N. HOOVER, Supervising Inspector General

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

## UNITED STATES PATENT OFFICE

THOMAS E. ROBERTSON, Commissioner

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

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

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

## RADIO DIVISION

W. B. TURNER, Chief

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