UNITED STATES S. DEPARTMENT OF COMMERCE

WASHINGTON

SURVEY OF CURRENT BUSINESS

MARCH, 1930 No. 103



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mportant notice

In addition to figures given from Government spaces; there are also manufacted for completeness of terrice figures from other sources generally accepted by the trailes, the sectioning and resourceffle for phick are noted in the "Sources of Data" on pages 139-142 of the Exercises, 1938, semiconical trail. The Survey on Courtest Business is designed to present each month a picture of the business situation of setting for the principal facts regarding the various lines of cadeland although. The figures reported art very largest base already in existence. The main of turning of the department is to oring together base data whise, it is reliable at all, are scattered in madreds of different schications. A portion of these data are substant by dovernment departments that figures are collected by dovernment departments that figures are reported by technical journals, and still other are reported by trade associations.

At seminative interface detailed tables are published giving for each fixed, monthly figures for the used two years and factors comparisons, where available has two years and factors comparisons, where available has two years and factors comparisons where available has two points of the bottom of cam taping another than the bottom of cam taping and the picture. It is not made to a present the factors of campactures are only and groups as the factors of the picture. To the source of the picture and campactures are only and groups as the factors important comparisons with any groups are groups as the factors. Trend of this man any are properly as the factors important comparisons only are groups as the factors important.

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EXILATIVE AND INDEX NUMBERS

To facilitate expectations between different important seams and maintains foliam called "index numbers of term reflective surprise particularly to a special good of clinitate described below) third been calculated to the resulting according to the resulting term of the resulting term of the resulting term will be greater than 100 and the best there is a current mumber in 100 and the resulting according to the resulting resulting the resulting according to the resulting acc

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

RATIO CHARTS

In most instances the charts used in the Survey of Current Business are of the type termed 'Ratio Charts' (logarithmic scale), notably the Business Indicator charts on page 2. These therts show the percentage increase and allow direct comparisons between the slope of one curve and that of any other curve regardless of its location on the diagram; that it a 10 per cent increase in an item is given the small revelical movement whether its curve is near the bottom or bear the top of the than. The difference between this and the ordinary arithmetic form of chart can be made clear by an example. It a certain tem having a relative number of 400 in one month increases 10 per cent in the following month, its relative number will be \$40, and or an ordinary chart would be plotted 40 equidistant scale points higher than the preceding months. Another movement with a relative number of say 50 also increases 10 per cent making its relative number 55. On the ordinary (antimetic) scale this item would rise only 5 equidistant points, whereas the preceding increase. The ratio charts avoid difficulty and give to such of the two movements exactly the same vertical rise, and tience the stopes of the two lines are directly comparable. The ratio charts compare percentage changes, while the pattemette charts compare percentage changes, while the pattemette charts compare percentage changes, while the pattemette charts compare percentage changes. In most instances the charts used in the Survey

RECORD BOOK

As an aid to readers in comparing present data with monthly statistics in previous years, the department is compiling a Broone Book or Business Statistics, in which data now carried in the Staves or Curken's Business are shown by months as far back as 1909, if available Full descriptions of the figures and reports of how the data are used in actual ngures and reports of now the data are used in actual practice by business firms are contained in the Recond Book. The sections covering textiles, metals, and finds, automobiles, and rubber have already been issued and may be obtained for 10 cents, per copy from the Superintendent of Documents, Government Printing Office. Washington, D. C. (De not send stamps.) Notices of other sections will be given in the Sorver as they are issued.

mpthods of use

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

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

No. 103

WASHINGTON

March, 1930

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PRELIMINARY SUMMARY FOR FEBRUARY

The volume of commercial transactions during February, as based upon weekly check payments, was lower than in February, 1929. Activity in steel plants was greater than in the previous month but was lower than in February, 1929.

Factory employment in Detroit was substantially lower than a year ago. The output of crude petroleum was on about the same level as in February, 1929.

Movement of goods through primary channels, as reflected by data on car loadings, was larger than in January but smaller than a year ago. The volume of new-building contracts awarded during the month was lower than in either the previous month or February of the preceding year.

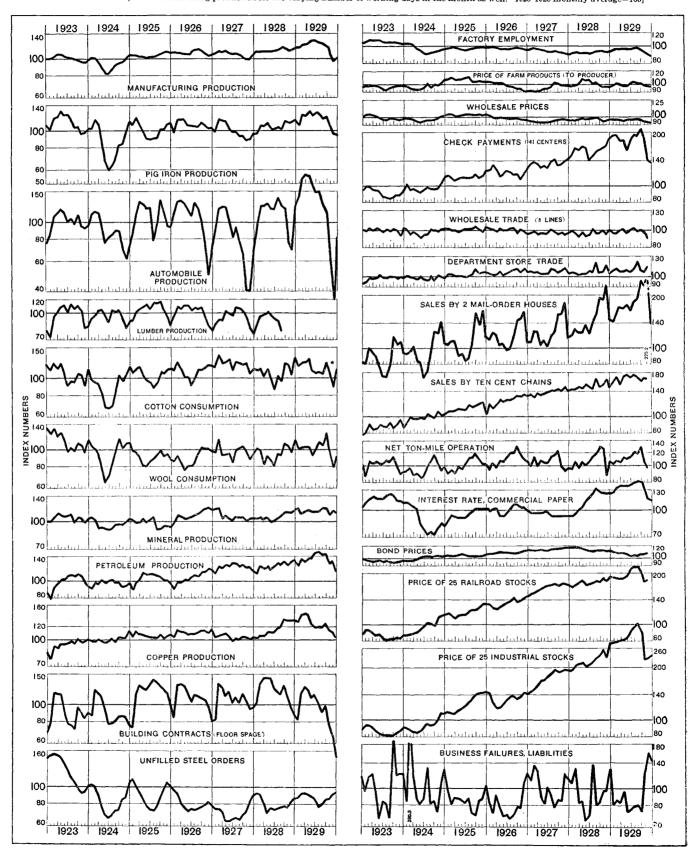
The general index of wholesale prices was lower

than in the previous month, registering a decline also from a year ago. Prices for wheat averaged lower than in either period, while cotton prices and iron and steel prices also showed declines from both periods.

Bank loans and discounts were lower than in the preceding month but were higher than a year ago. Interest rates were generally lower than in February, 1929. Brokers' loans showed practically no change at the end of February from the preceding month but were substantially lower than a year ago. Prices for stocks averaged higher than in January but were lower than last year. Bond prices showed only slight change from the previous month but were lower than a year ago. Business failures were larger in number than in February, 1929.

MONTHLY BUSINESS INDICATORS, 1923-1930

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



MONTHLY BUSINESS INDICATORS

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

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

		MO	NTH	LY A	ERA	GE				·			1	1929						1930
ITEM	1923	1924	1925	1926	1927	1928	1 929	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
								1923	1925	mon	thly a	verag	e=100)		<u>'</u>	·	<u> </u>		
Industrial production:																				
• Totalmanufacturing		1	1		1					í	1	1						1		102.
• Total minerals		i	1	i	1	1			1	1	ì		I .				118.0		1	
Pig iron		4		1	1	1				1		1	T .		125.7	1	120. 1		1	94.
Steel ingots	104. 8	1				1				1		1	1		142, 5		130. 5		1	
Automobiles		1		1	í	1		121.3		177. 1		1			150.8	1	114. 9		1	
Cement			1			1				1	I .	129. 9	(149. 5	1	134. 6			
Wool (consumption)					1	l .	1 .				Į.	130. 3 102. 9			1	i	124. 9 125. 3	t		112. 92.
Raw material output:																				
Animal products	100.0	104.0	96.0	96. 0	97.0	99. 0	99. 2	96.0	1		}	j.			1	1		1	1	93.
Crops	91. 9	104.0	104.0	109. 0	113. 3	117. 0	114. 2		,										1	96.
Forest products	99.0	97. 0	1	1	93. 0		1				4	1	1	l				1	t	67.
Crude petroleum	99 4		1 .	1		1	1					137. 5		ı	1	1	143. 5	1	1	
Bituminous coal	108.0	92. 5	99. 5	109 7	99.0	95. 8	100. 5			1	1	ı		l		1	l	1	I .	114.
Copper	93. 4	100. 2	106. 4	110. 2	104. 9	114. 9	127. 1	130.9	128. 5	142.1	143.9	141. 6	124. 9	120. 1	119.6	120. 4	125. 2	115.1	113. 4	102.
Power and construction:	1	İ	ļ																	
Electric power	92. 5		109. 5					164.3							1			(4	172.
Building contracts (37 States)	89. 7	92. 7	117.6	111. 0	106. 8	121.4	99. 6	88. 6	81.9	117.1	128. 0	122. 4	109.7	113. 7	100.5	90. 2	98. 9	76.9	66.3	49.
Unfilled orders:)		}															
General index	121.7	87.0	91. 3	84. 6	74. 0	76. 2	80.8	76 8	79. 5	85, 5	93. 1	88. 4	83. 4	82. 1	76.0	76.8	76.8	73. 7	77.7	79.
U. S. Steel Corporation	125. 8	83 6	90.6	82. 1	71. 1	80, 7	87. 1	86.1	86. 8	92, 4	92. 7	90. 1	89. 2	85. 6	76.6	81.7	85. 6	86.4	92.5	93.
Stocks:																400.0				
General index		l	1	l .			i .					1)	; I	144.
Manid commodities (28)	93. 8	1		l				127. 0					. 1	120. 3				ž.		122.
Copper (refined)	102. 5 106. 4			145. 5 64. 8			1			1 1				54, 2 86, 3		1 1	177. 5 78. 1	ſ	, ,	192. 179.
Employment:																				
Factories	104 2	96 2	99.7	101. 4	98.8	97. 2	100. 4	97.4	99. 7	101. 3	101.8	101. 6	101. 2	100.7	102.0	103. 4	102, 1	98, 2	94.8	93.
Prices:																				
Farm products, to producers	97. 8	97. 1	106. 5	98. 6	94. 9	100, 7	100.0	96.4	98. 6	101.4	100.0	98. 6	97. 8	101. 4	103.6	102. 2	101.4	98.6	97.8	97.
Wholesale, all commodities.	99. 9		102. 8	99. 3	94. 7	97. 0	ł I	96. 5	96.0		96. 1	95. 1	95. 7	97. 3	97.0	96.8	95. 6	•		92.
Retail food	97. 6						1	103.3	103.2		101.3		103. 4	105. 9		1 1	107, 2	1		103.
Cost of living (including food)	98. 2				100.0			98. 2	98. 2	97.6	97. 0	97. 0	97. 6	98. 8	99.4	99.4	99, 4	99.3	98. 7	97.
Distribution (values):																				
* Bank debits, 141 cities	91. 2	96. 7	111.9	119.6	132. 5	158. 2	184. 5					180. 5				1	211.1		139.8	136.
* Wholesale trade	101. 0	98. 0	102.0			96, 0			96. 3			1	l 1				100.0			
• Department stores, sales	98.0				107. 0					113. 0		107. 0	l 1			1 .	109.0			101.
Mail-order sales, 2 houses	89. 2				126. 2							168, 2								138.
• 10-cent chains, sales	88. 0									167. 4										152.
Imports	97. 8	93. 1	109.0	114.3	108. 0	105. 5	113. 5	114. 2	114.4	118.8	127. 1	123. 9	109. 4	109. 6	114.3	108.8	121, 1	104.8	96. 1	96.
Exports	91. 5	100. 8	107. 8	105. 5	106. 8	112.6	115. 2	128. 0	110.4	129. 0	112, 2	101.4	103. 6	106. 2	100.4	115.3	139, 6	116.5	112.4	109.
Transportation: Freight, net ton miles	102. 2	08.0	101 0	100 1	108.0	106 K	100 0	104.8	102.2	107.8	102 7	112 6	109.1	112.5	120 4	118 5	128 1	103.8	96.6	
	102. 2	JU. 8	101. 8	10 5 . 1	100.0	100.0	100. 9	142.0	202. 2	20	202. 1		100.1		240. 2	120.0	120.1	100.0	00.0	
Finance: Member bank loans and discounts	ا, یو	98. 5	107	110 0	117 0	196.0	125 0	190 7	130 6	132. 4	121 2	190.9	195 1	136. 2	138.9	139. 1	151 1	1/1 2	140 0	133.
Interest rate (commercial paper)		90.0			117. 3 95. 4			,						139. 2	1		145. 0			113.
Federal reserve ratio	116. 2 99. 0	104.1	96. 9			112, 8 89, 1	93. 4	89. 9	1	92.6	94. 9				97.7		89. 9			101.
Price, corporation bonds	96. 4	99, 9			112.5						i	106.7	- 1			103. 9		105.0		101.
Price, railroad stocks	90. 4 86. 0	96. 1			4	174. 5					183.7			213. 4				176.2		180.
Price, industrial stocks	86. 1	91. 9				- 1									1			219.4		235.
Failures (liabilities)	106. 0	106. 8	87. 2		102. 2				80. 3	- 1	83. 2	1			- 1			122.8		144.
	200.0	100,0	31.2	JU. 1	202. 2	20. 2	JJ. U		J., 0	55. 1	J. 2	٠٠. 2				55.5		122.0	200. 1	, 11,

^{*} Seasonal adjustments.

BUSINESS CONDITIONS IN JANUARY

PRODUCTION

Manufacturing output in January, after adjustments for the usual seasonal changes, was on a higher level than in the previous month but showed a decline from a year ago. All major groups showed decrease activities from a year ago except leather and shoes which was greater. All manufacturing groups showed gains over the preceding month except nonferrous metals and tobacco manufactures, which declined, and food products which showed no change. Mineral production, after adjustments for seasonal variations, was lower in January than in either the preceding month or January, 1929. All products of the mines

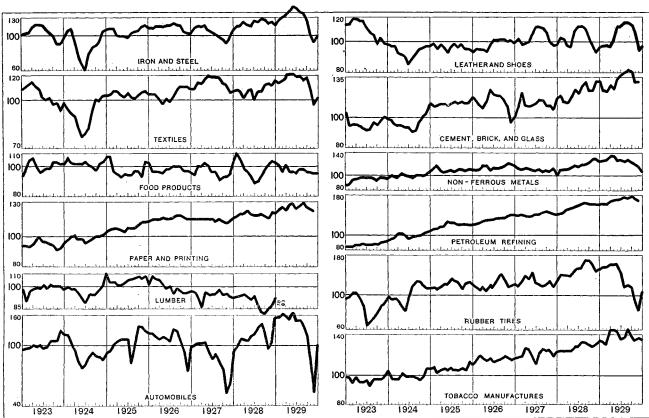
ber, and chemicals and oils being more than offset by declines in iron and steel, leather, rubber, and paper.

SALES

The general index of unfilled orders for manufactured goods at the end of January showed a gain of more than 10 per cent over both the preceding month and corresponding month of 1929. As compared with the preceding month all groups included within the general index showed gains in January. Declines from a year ago in unfilled orders for textiles and lumber were more than offset by gains in iron and steel and transportation equipment, principally railroad.

MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



showed smaller output than in either prior period, except petroleum and silver, which showed gains over the preceding month, and zinc which showed increases over both the previous month and January of last year. The largest decline from a year ago was recorded in the output of copper, where the decrease amounted to 22 per cent.

COMMODITY STOCKS

The weighted index of commodity stocks showed a decline from the previous month, but was higher than a year ago, the increase over last year being entirely due to larger stocks of raw materials. Manufactured goods in the hands of manufacturers at the end of January, though showing a gain over the previous month, were lower than a year ago, gains over last year in the stocks of textiles, nonferrous metals, lum-

Wholesale trade showed a smaller sales volume than in January, 1929. Retail trade, as reflected by the volume of sales reported by the two principal mail-order houses, was lower than in either the preceding month or January, 1929. Department-store sales, after adjustments for seasonal consideration, also showed lower volume as compared with both prior periods. Tencent store business was greater than a year ago. Sales by grocery chains were likewise larger than in January of the previous year.

Imports of merchandise into the United States during January were fractionally higher than in December but showed a decline of almost 20 per cent in value from a year ago. Merchandise exports were not only smaller than in December but showed a considerable contraction also from January of the previous year.

PRICES

The general index of wholesale prices was lower in January than in either the preceding month or the corresponding month of last year. All groups included within the index showed declines from both periods, except house-furnishing goods, which showed an increase over a year ago, and building materials, which were unchanged from either period. The principal declines from a year ago was registered in the prices for hides and leather, textiles, and farm products, where decreases ranged for the group totals from 4 to 8 per cent. Classified by the condition of manufacture the general index, with a decline of 4 per cent from a year ago, showed a decrease of 5 per cent in raw materials, prices for manufactures and semimanu-

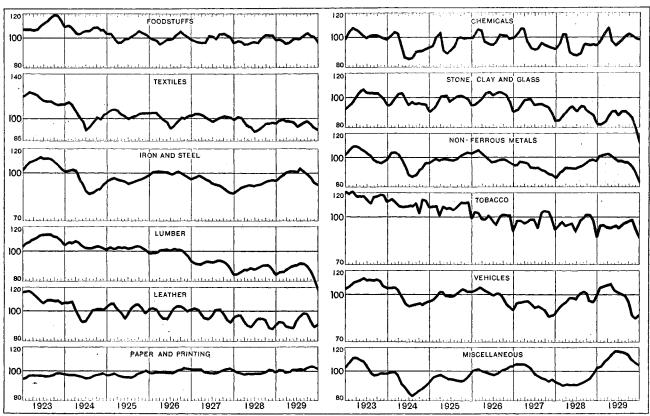
prices for grains, poultry and dairy products, and cotton and cottonseed.

EMPLOYMENT

Factory employment in January, as measured by the general index, showed a decline of 2 per cent from the preceding month and 4 per cent from a year ago. As compared with the previous month, employment in factories producing automobiles, leather and leather products and rubber products was greater in January, while all other groups declined, except iron and steel and petroleum refining, which showed no change. Contrasted with a year ago, industrial employment gains in factories producing machinery, paper and printing, chemicals, and refined petroleum products were insufficient to offset losses in iron and steel, tex-

FACTORY EMPLOYMENT, BY GROUPS

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



factures showing approximately the same percentage of decline as was registered in the general index. Commercial indexes also showed declines from both the preceding month and January of the previous year.

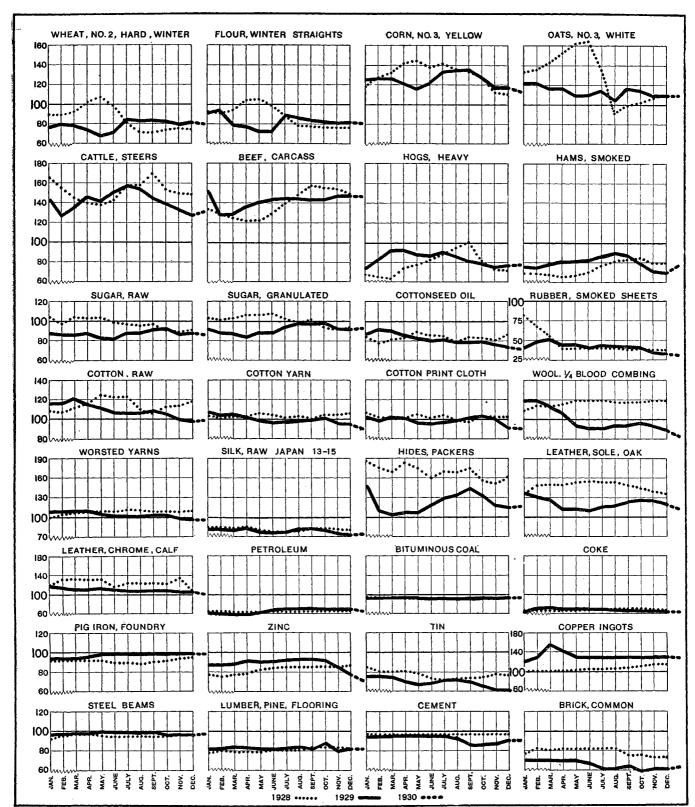
Prices paid to farmers for their products, as reflected in the general index, were lower than in December but showed a gain approximating 1 per cent over January, 1929. Compared with a year ago, gains in the prices for grains and fruits and vegetables more than offset declines in the prices for cotton and cottonseed and poultry and dairy products. As compared with the preceding month, gains in the prices for fruits and vegetables and meat animals were insufficient to offset lower

tiles, food products, lumber, automobiles, leather products, cement, clay and glass, nonferrous metals, and rubber products. The largest declines in employment from a year ago were registered in rubber, automobile, and nonferrous metals, cement, clay and glass, and lumber factories, where declines were more than 10 per cent.

Factory pay-roll payments in January were 5 per cent lower than in December and 7 per cent lower than in January, 1929. All industrial groups showed smaller pay-roll payments than in the preceding month, except automobiles, leather, and rubber products which showed gains. Gains in pay-roll payments over a year ago in factories were not sufficient to balance declines.

WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



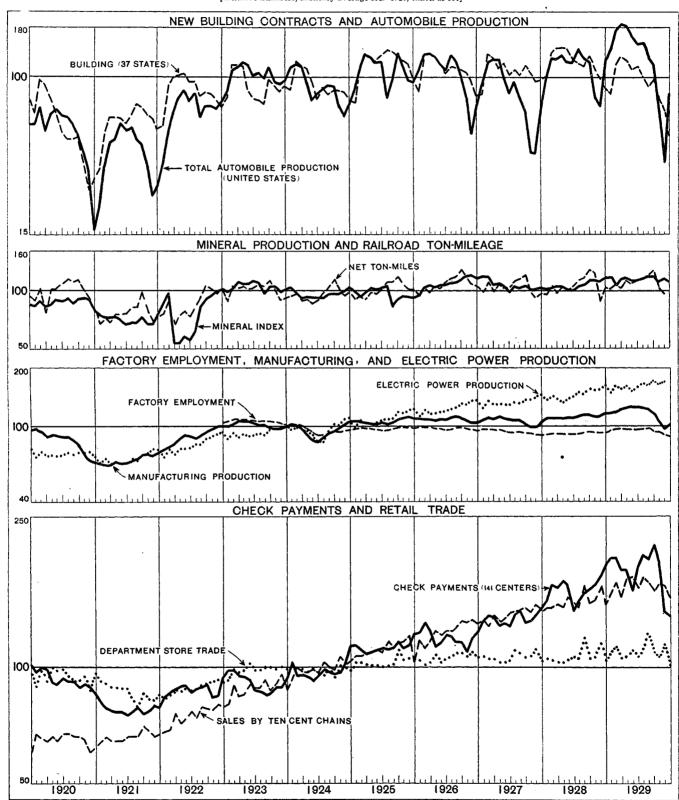
WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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

			ACTUAL PRIC	E		RE	LATIVE PI	RICE	
COMMODITIES	Unit		(dollars)			192	6 average	=100	
		Decem- ber, 1929	January, 1930	January, 1929	Novem- ber, 1929	Decem- ber, 1929	January, 1930	Decem- ber, 1928	January 1929
FARM PRODUCTS-AVERAGE PRICE TO PRODUCER									
Wheat Corn Potatoes Cotton Cottonseed	Bushel Bushel Bushel Pound Ton	1. 353 . 160 30. 31	1. 075 . 773 1. 378 . 158 28. 95	0. 985 . 802 . 589 . 179 38. 05	77 116 73 107 113	80 112 73 106 111	80 111 74 105 106	73 109 31 119 139	73 115 32 119 140
Cattle, beef	Pound Pound Pound	. 0853	. 0869 . 0880 . 1110	. 0897 . 0818 . 1223	134 72 93	131 72 93	135 75 96	138 67 99	140 69 106
Wheat, No. 1, northern spring (Minneapolis)	Bushel Bushel	1. 35 1. 21	1. 27 1. 34 1. 19	1. 21 1. 42 1. 14	81 83 80	83 87 81	80 86 80	73 90 75	77 92 77
Wheat, No. 2, hard, winter (Kansas City) Corn, No. 3, vellow (Chicago) Oats, No. 3, white (Chicago) Barley, No. 2, (Minneapolis) Rye, No. 2, (Minneapolis) Cotton, middling upland (New York) Wool, ½ blood combing, Ohio and Pennsylvania fleeces (Boston) Cattle, steers, good to choice, corn fed (Chicago) Hogs, heavy (Chicago) Sheep, ewes (Chicago) Sheep, lambs (Chicago)	Bushel Bushel Bushel Pound	. 45 . 59 . 98 . 173	. 85 . 45 . 58 . 91 . 173	. 93 . 50 . 66 1. 01 . 202	117 110 94 103 100	117 110 92 107 99	113 110 91 99 99	111 112 97 105 117	124 122 103 110 115
	Pound Cwt Cwt Cwt	. 41 12. 125 9. 465 4. 935 12. 000	. 38 12. 469 9. 613 6. 263 12. 675	. 55 13. 531 9. 100 8. 388 15. 594	94 133 75 76 87	89 127 77 75 88	83 131 78 95 93	120 149 71 95 101	120 142 74 127 114
Flour, standard patents (Minneapolis)Flour, winter straights (Kansas City)	Barrel	6. 880	6. 750	6. 340	79	82	80	73	75
Flour, winter straights (Kansas City) Sugar, 96° centrifugal (New York). Sugar, granulated, in barrels (New York). Cottonseed oil, prime yellow (New York). Beef, fresh, carcass, good native steers (Chicago). Beef, fresh, carcass, steers (New York). Pork smoked hams (Chicago). Butter, creamery, 92 score (New York). Oleomargarine, standard, uncolored (Chicago).	Pound Pound Pound Pound	5. 950 . 038 . 050 . 087 . 240 . 235 . 215	5. 844 . 037 . 051 . 084 . 240 . 235 . 239	5. 519 . 038 . 050 . 103 . 240 . 245 . 232 . 48	82 87 92 76 146 138 71 96	82 87 91 74 146 138 70	81 86 93 71 146 138 78 82	76 91 94 87 149 144 79 113	76 88 92 87 146 144 76
Oleomargarine, standard, uncolored (Chicago)	Pound	. 235	. 235	. 235	103	103	103	103	103
Cotton yarns, carded, white_northern, mule spun, 22-1-cones (Boston). Cotton-print cloth 64 x 60-38/4"-5.35—yards to pound Cotton sheeting, brown 4/4 Trion (New York). Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston). Women's dress goods, French, 39 inches, at mills, serge. Suitings, unfinished worsted—13-ounce, mill. Suitings, serge, 11-ounce, 56-58 inch. Silk, Japan, 13-16. Hosiery, women's pure silk, mill.	Yard Yard Yard	. 340 . 069 . 084 1. 400 . 975 1. 901 1. 959 4. 580 9. 000	. 323 . 068 . 083 1. 375 . 975 1. 838 1. 959 4. 630 9. 000	. 382 . 076 . 090 1. 575 . 975 2. 008 1. 983 4. 998 9. 500	96 100 94 99 94 95 90 76 78	95 92 91 98 94 95 90 74 78	90 90 89 96 94 91 90 75	106 103 97 110 94 100 92 81 82	107 101 97 110 94 100 92 81 82
LEATHER	D USUE PURSE						.0	02	9 2
Hides, green salted, packers' heavy native steers (Chicago). Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago). Leather, chrome calf, dull or bright "B" grades (Boston). Leather, sole, oak, scoured backs, heavy (Boston). Boots and shoes, men's black calf, blucher (Massachusetts). Boots and shoes, men's dress welt tan calf oxford (St. Louis).	Pound Pound Square foot Pound Pair Pair	. 160 . 174 . 480 . 520 6. 750 4. 850	. 163 . 176 . 460 . 495 6. 750 4. 850	. 205 . 219 . 530 . 590 6. 750 4. 850	117 103 106 124 106 100	114 101 106 119 106 100	116 102 102 113 106 100	161 144 110 135 106 100	146 126 117 135 106 100
FUEL Coal, bituminous, mine-run (composite price)	Net ton	3, 980	3, 982	4. 035	93	92	92	93	94
Coal, bituminous, prepared sizes (composite price) Coal, anthracite, chestnut (composite price) Coke, Connellsville (range of prompt and future), furnace—at ovens. Petroleum, crude, Kansas-Oklahoma—at wells	Net ton Long ton Short ton Barrel	4. 520 12. 999 2. 640 1. 300	4. 492 13. 033 2. 588 1. 229	4. 576 13. 107 2. 750 1. 185	94 94 65 69	94 94 64 69	94 95 63 65	95 95 67 64	95 95 67 63
METALS Pig iron, foundry No. 2, northern (Pittsburgh)	Long ton	20. 260	20. 260	19. 260	98	98	98	95	93
Pig iron, basic, valley furnace. Steel billets, Bessemer (Pittsburgh). Copper ingots, electrolytic, early delivery (New York). Brass, sheets, mill. Lead, pig, desilverized, for early delivery (New York). Tin, straits (New York).	Long ton Long ton Pound Pound Pound	18. 500 34. 600 . 1778 . 233 . 0625 . 3979	18. 500 34. 000 . 1778 . 233 . 0625 . 3891	17. 500 33. 000 . 1660 . 213 . 0665 . 4916	100 100 129 122 75 62	100 99 129 122 74 61	100 97 129 122 74 60	94 94 115 108 77 77	94 94 120 112 79 75
Zinc, slab, western (St. Louis) BUILDING MATERIAL AND MISCELLANEOUS	Pound	. 0567	. 0523	. 0635	85	77	71	87	87
Lumber, pine, southern, yellow flooring, mill. Brick, common red, domestic building (New York). Cement, Portland, net without bags to trade, f. o. b. plant (Chicago	M feet Thousand	38. 000 10. 000	37. 220 10. 500	36. 550 11. 500	80 61	84 61	83 64	82 73	81 70
district) Steel beams, mill (Pittsburgh) Rubber, smoked sheets (New York) Sulphuric acid, 66°, (New York) Wood pulp, sulphite, domestic, unbleached, news grade (New York) Newsprint, rolls, contract, mill	Barrel	1. 555 1. 900 . 160 15. 500 2. 600 3. 250	1. 576 1. 900 .150 15. 500 2. 600 3. 250	1. 650 1. 900 . 201 15. 500 2. 450 3. 250	87 97 34 107 91 94	89 97 33 107 91 94	89 97 31 107 91 94	95 97 37 107 87 94	90 97 41 107 86 94

MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

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



REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

TEXTILES

Imports of wool in January were greater than in December and smaller than a year ago. Wool consumption was greater than in December but showed a decline from January, 1929. Prices for wool and yarns averaged lower than in either the previous months or the same month of last year.

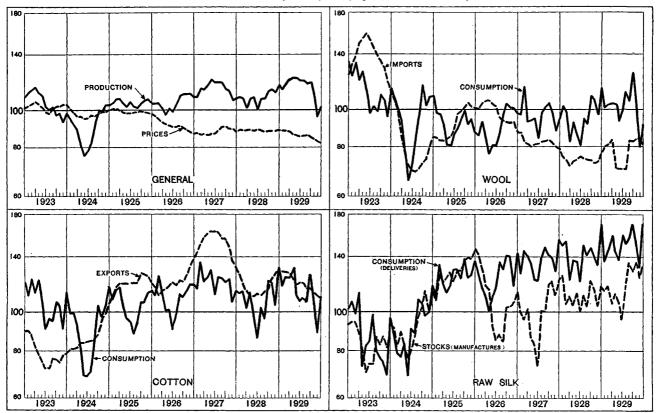
Exports of cotton during January showed declines from both the previous month and January a year ago. Consumption of cotton by domestic mills was greater than in the preceding month but showed a decline

Cotton finishers reported larger billings and orders than in December and declines from a year ago. Stocks of finished goods in the hands of finishers at the end of January were lower than a year ago. Unfilled orders at the end of the month were greater than at the end of the preceding month but showed a decline from last year.

The imports of silk were smaller in January than in either the previous month or January a year ago. Silk deliveries to consuming establishments were greater than in either period. Stocks of silk at manu-

THE TEXTILE INDUSTRIES

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



from a year ago. Stocks of cotton held at the end of January at mills and in public storage were substantially greater than a year ago. Cotton prices were generally lower in January than in either the previous month or the same period of 1929.

Cotton machinery was more active in January than in the previous month but, as in the case of cotton consumption, showed a decline from a year ago. The production and shipments of cotton textiles were greater than in the previous month but were lower than a year ago. Stocks of cotton textiles at the end of January were considerable larger than a year ago.

acturing plants at the end of January were greater than at the end of either the preceding month or January, 1929. Warehouse stocks were smaller than in December but showed a substantial gain over a year ago. Silk looms and spindles were more active in January than in either the preceding month or the same period of 1929. Prices for raw silk were higher than in December but showed a decline from a year ago.

Rayon imports were lower than in either period. Rayon prices showed no change of the preceding month but were lower than a year ago.

METALS

The production of pig iron in January was lower than in either the previous month or January, 1929. More furnaces were in blast at the end of the month than at the end of December, but a decline was registered from a year ago.

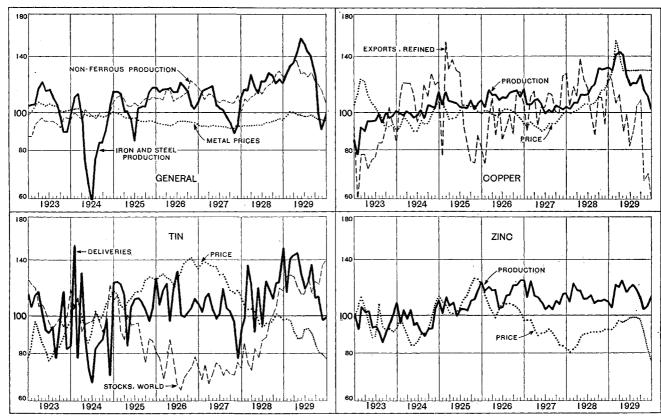
The production of steel ingots was greater than in the previous month but declined from a year ago. Unfilled steel orders at the end of January were larger than at the end of either the previous month or January of last year.

The output of steel sheets by independent mills was greater than in December but showed a decline from a boilers, measured by the area of heating surface, showed a gain over the previous month but declined from a year ago. Shipments of cold-finished steel bars were larger than in December but showed a decline from a year ago. Iron and steel exports were larger than in December but were smaller than in January, 1929.

Shipments of enameled sanitary ware by manufacturers were smaller than in either the preceding month or January a year ago. New orders likewise showed declines from both periods. Stocks were somewhat higher at the end of January than at the end of the preceding month but were lower than a year ago.

THE METAL INDUSTRIES

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



year ago. Stocks of sheets in the hands of manufacturers at the end of the month were lower than a year ago. Unfilled orders for sheets also declined from last year. Wholesale prices for steel averaged lower in January than in either the previous month.

The production of steel castings was lower than in December but showed a gain over a year ago. New orders were greater than in December but declined from last year.

New orders and shipments of fabricated structural steel were smaller than in either the previous month or January, 1929. New orders for fabricated steel plate showed gains over both periods. New orders for steel New orders for foundry equipment were lower than in either period, but unfilled orders at the end of the month, though declining from the previous month, were greater than a year ago. Shipments were larger than in either the previous month of January of last year. New sales of mechanical stokers were lower than in either period. New orders for machine tools were greater than in December but declined from a year ago. Unfilled orders at the end of the month were fractionally larger than in December but showed a loss from last year.

The production of copper was lower in January than in either the previous month or the corresponding

period of 1929. Stocks of refined copper in North and South America at the end of January showed a substantial gain over a year ago.

FUELS

The production of bituminous coal was smaller than in January of last year. Exports showed a decline from the preceding month but were greater than a year ago. Prices averaged slightly higher than in December.

The production of anthracite coal was smaller than a year ago. Stocks of anthracite at the end of December in dealers' yards were lower than a year ago. Prices both at wholesale and retail were also lower than last year.

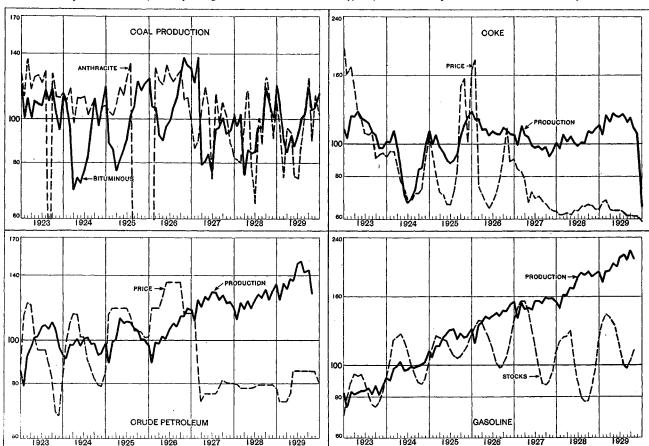
Imports of rubber were greater than in December but showed a decline from a year ago. The production and shipments of pneumatic tires were larger than in the preceding month but showed decline from January, 1929.

HIDES AND LEATHER

Imports of hides and skins were smaller than in December but showed a gain over a year ago. The production of sole leather was greater in January than in either the previous month or January, 1929. Stocks of sole and belting leather at the end of December were smaller than a year ago. Exports showed a gain over the previous month and a decline from a year ago. Prices were generally lower than in either the previous

THE FUEL INDUSTRIES

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



The production of coke, both types, was greater than in December but showed a decline from a year ago. Exports of coke were lower than in either period. Coke prices also averaged lower. Petroleum production was greater than in January, 1929.

AUTOMOBILE AND RUBBER

Automobile production in January was greater than in December but showed a decline from a year ago. The Canadian output of automobiles showed similar comparisons with both periods. Domestic exports were lower than in either the previous month or January, 1929. Canadian exports also showed declines in January from both periods.

month or January, 1929. The production of shoes in January was greater than in December but showed a decline from last year. Exports were lower than in either period. Shoe prices were unchanged from either the previous month or January, 1929.

PAPER AND PRINT

Imports of wood pulp were greater in January than in either the previous month or January, 1929. Stocks at the end of the month were considerably lower than a year ago. The domestic production of newsprint paper was greater than in either the previous month or January a year ago. The Canadian output showed declines from both periods. The consumption of news-

print by domestic publishers was smaller in January than in either period. Stocks of newsprint at the end of January held by domestic mills were considerably smaller than a year ago but the holdings at Canadian mills were substantially larger. Publishers' stocks were larger than a year ago. The production of books was lower in January than in either the preceding month or January of last year.

BUILDING AND CONSTRUCTION

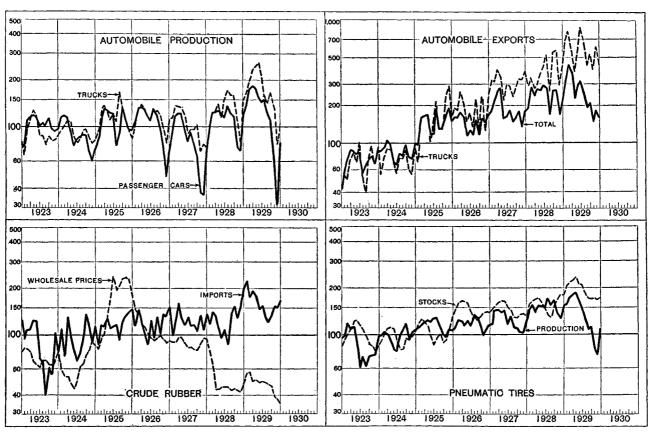
The value of new building contracts awarded in January was lower than in the same month of the pre-

The production and shipments of northern pine lumber and northern hemlock were greater than in December but were smaller than a year ago. Production of North Carolina pine was larger than in December but declined from last year, while shipments showed declines from both periods.

The production of oak and maple flooring was larger than in December but showed a decline from a year ago. Shipments of oak flooring were smaller and maple flooring were larger than in December, each showing declines from last year. New orders for flooring, both types, were greater than in December.

THE AUTOMOBILE AND RUBBER INDUSTRIES

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



ceding year. Building costs showed only slight change from either the preceding month or January, 1929. Fire losses in the United States and Canada were greater than in December but showed a decline from a year ago.

LUMBER

The production and shipments of Douglas fir lumber were lower than in either the previous month or January of last year. Exports also declined from both periods, while prices were likewise generally lower.

The production and shipments of California redwood were greater than in December, with production showing a gain also over a year ago. Unfilled orders for redwood at the end of the month were substantially lower than a year ago.

STONE, CLAY, AND GLASS PRODUCTS

Shipments of common brick were smaller than in January, 1929. Stocks of burned brick at the kilns at the end of the month were smaller than a year ago. Unfilled orders were lower than last year. Prices were higher than in December but lower than in January, 1929.

New orders of porcelain plumbing fixtures, as well as shipments, were greater than in December but each registered declines from January a year ago. Unfilled orders at the end of the month were greater than at the end of the previous month but declined from last year. Stocks were lower than a year ago.

New orders for vitreous-china plumbing fixtures were smaller than in either the previous month or January a year ago. Shipments were larger than in December but declined from last year. Unfilled orders were greater than a year ago while stocks also showed a gain over January, 1929.

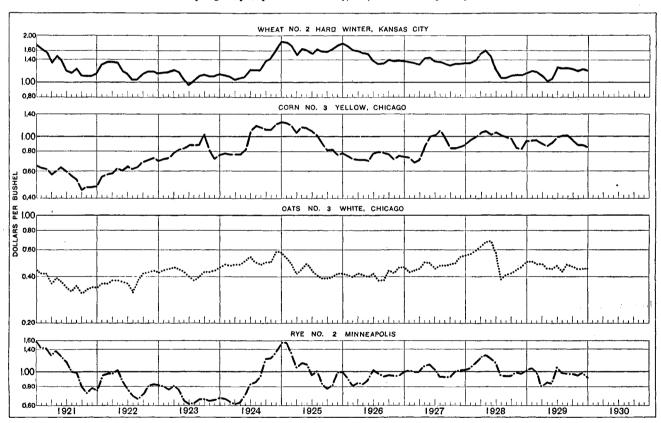
New orders for terra cotta were smaller in January than in either the previous month or January of last year. The production and shipments of sand-lime brick were smaller than in either period. Stocks at the end of the month likewise showed declines from both periods, while unfilled orders at the end of the month were lower than a year ago.

The production and shipments of Portland cement were smaller in January than in either the previous The visible supply of corn was much smaller than a year ago, while receipts and shipments of corn at the principal markets were also smaller than last year. Prices were lower than during either the previous month or January, 1929. The visible supply of barley was smaller and that of oats considerably larger than at the end of January, 1929. Receipts of oats at the principal markets, on the other hand, were smaller than a year ago.

Receipts of cattle at the principal markets were fractionally greater than a year ago. The output of beef under Federal inspection, on the other hand, was smaller than for the corresponding period of last year.

MOVEMENT OF GRAIN PRICES

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



month or the corresponding period of a year ago. Stocks of cement at the end of the month were slightly larger than a year ago. Wholesale prices were lower than a year ago.

FOODSTUFFS

The visible supply of wheat in the United States and Canada at the end of January was substantially greater than a year ago. Wheat receipts and shipments at principal markets were considerably smaller than during the corresponding period of 1929, while exports of wheat from the United States showed a marked gain both from the previous month and the corresponding month of last year. Prices were slightly lower than in December but were higher than a year ago.

Cold-storage holdings at the end of January were 5 per cent greater than a year ago. Prices for beef were generally lower than at this time last year.

Receipts of hogs at the primary markets were smaller than a year ago; the output of pork products under Federal inspection were also less than a year ago. Cold-storage holdings of pork were 20 per cent lower than at the end of January, 1929, while prices generally showed a substantial advance from last year's level.

Receipts of sheep were slightly greater and production of lamb and mutton substantially larger than during the corresponding period of 1929. Prices for sheep and lambs, on the other hand, were at a considerably lower level than a year ago. Receipts of poultry at the principal markets were slightly larger

than a year ago and cold-storage holdings exceeded those at this time last year by almost 40 per cent. The receipts of butter were only slightly less than at the end of January, 1929, while cold-storage holdings were more than double those of a year ago.

As an apparent result of the large holdings, butter prices continued to decline, being 23 per cent lower than in January of last year.

Cheese receipts were larger than during the previous month but lower than a year ago, while cold-storage holdings were substantilly smaller than at the end of either prior period. Prices for cheese also declined. Receipts of eggs were practically the same as during January of last year. Cold-storage holdings, on the other hand, were much smaller than a year ago.

Sugar imports from foreign countries were 25 per cent smaller than during January, 1929. Sugar meltings were slightly less than a year ago, while stocks at refineries were nearly three times as great as a year ago. Imports of coffee were larger than during the previous month and practically the same as for the corresponding month of last year, while imports of tea were smaller than for either prior period. Prices both for coffee and tea were lower than a year ago.

TRANSPORTATION

Freight-car loadings were only slightly larger than during December and were substantially smaller than a year ago. The decline in loadings as compared with the corresponding period of 1929 prevailed throughout every class of products for which a separate listing was reported. Clearances of vessels engaged in foreign trade showed a slight increase, both from the previous month and the corresponding month of last year.

Unfilled orders for railway locomotives were larger than at the end either of the previous month or of January, 1929.

DISTRIBUTION MOVEMENT

Sales by mail-order houses were slightly smaller and those by 10-cent chain stores larger than for the corresponding month of last year. Magazine and newspaper advertising, on the other hand, was slightly smaller than in January, 1929.

BANKING AND FINANCE

Check payments, both inside and outside New York City, were smaller than during either the previous month or the corresponding month of 1929. Loans and discounts of Federal reserve member banks were also less than in December but were greater than a year ago. Brokers' loans showed only a fractional decline from the previous month but were much smaller than in January, 1929. Interest rates were almost uniformly lower than for either prior period.

GOLD, SILVER, AND FOREIGN EXCHANGE

Receipts of domestic gold at the mint were less than during the previous month but substantially greater than a year ago. The Rand output was greater than for either prior period. Gold imports were substantially greater in December but were only about one-fourth as great as a year ago.

Silver production in the United States exceeded that of the previous month but was slightly less than in January, 1929. The Canadian production of silver, on the other hand, was greater than for either prior period. Silver prices were at a lower level than during either the previous month or the corresponding period of last year.

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

INDEXES OF BUSINESS

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

	Maxi-	Mini-	19	28		1929		1930	PER CENT IN OR DECR	ncrease (+ ease ()
Relative to 1923–1925 monthly average as 100	mum since Jan. 1, 1923	mum since Jan. 1, 1923	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January	January, 1930 from December, 1929	January, 1930 from January, 1929
PRODUCTION										
TOTAL INDUSTRIAL										
Unadjusted, except for working daysAdjusted for seasonal variations	125 123	81 83	113 112	109 113	116 117	108 106	95 99	103 103	$+8.4 \\ +4.0$	-11.2 -12.0
MANUFACTURING]				
Total (adjusted for working days only) Total (adjusted for seasonal variations) Iron and steel Textiles	127 128 155 121 110 128	79 82 59 77 90 91	113 112 120 113 102 121	109 114 123 111 104 121	116 117 117 116 103 123	107 105 100 108 96 123	92 96 90 96 95 120	102 102 99 102 95	+10.9 +6.3 +10.0 +6.3 0.0	-12. 1 -12. 8 -15. 4 -12. 1 -7. 8
Lumber	110 166 134 143 137 178	78 47 86 92 87 84	85 92 97 122 126 159	87 101 92 130 126 159	89 150 95 134 124 159	81 105 130 119 171	49 93 113 114 166	102 97 116 106	$+108.2 \\ +4.3 \\ +2.7 \\ -7.0$	$ \begin{array}{r} -32.0 \\ +2.1 \\ -13.4 \\ -14.5 \end{array} $
Rubber tires Tobacco manufactures	169 143	66 93	154 124	144 127	148 131	93	80 133	106 131	$+32.5 \\ -1.5$	-28. 4 0. 0
MINERALS						1				1
Total (adjusted for working days only) Fotal (adjusted for seasonal variations) Bituminous coal	128 120 125 133 147 143	84 90 77 1 88 0	117 113 99 111 127 106	112 112 97 97 131	113 117 103 110 137	113 109 96 92 131	110 116 102 121 132	108 112 99 104 135	$ \begin{array}{r rrrr} -1.8 \\ -3.4 \\ -2.9 \\ -14.0 \\ +2.3 \end{array} $	$ \begin{array}{c c} -4.4 \\ -4.3 \\ -3.6 \\ -1.6 \end{array} $
Iron-ore shipments Copper Zinc	139 127	82 93	131 111	133 106	129 100	98 118 105	116 102	101 103	$ \begin{array}{c c} -12.9 \\ +1.0 \end{array} $	-21. $+3.$
Lead	125 123	75 85	87	112 103	111 94	114 114	105 87	91	+4.6	-3.
ANIMAL PRODUCTS (Marketings) Fotal	124 421 131 148 160 283	79 14 76 67 64 44	93 70 98 110 77 131	92 55 95 126 78 119	96 34 102 85 95 87	95 63 96 128 81 154	93 70 90 108 84 102	94 49 98 89 92 81	$\begin{array}{c} +1.0 \\ -30.0 \\ +9.9 \\ -17.6 \\ +9.5 \\ -20.6 \end{array}$	-2. +44. -3. +4. -3. -6.
CROPS (Marketings)										1
Total	266 373	45 38 60 43 11 18	180 122 94 119 258 209	152 124 69 70 206 196	113 100 94 72 100 243	155 69 91 93 234 296	90 77 53 183 332	96 83 89 53 94 342	$ \begin{array}{r} -30.9 \\ -7.8 \\ +15.6 \\ 0.0 \\ -48.6 \\ +3.0 \end{array} $	$ \begin{array}{c c} -15. \\ -17. \\ -5. \\ -26. \\ -6. \\ +40. \end{array} $

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

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INDEXES OF BUSINESS—Continued

	Maxi-	Mini-	19	28		1929		1930	PER CENT IN OR DECR	CREASE (+)
Relative to 1923–1925 monthly average as 100	mum since Jan. 1, 1923	mum since Jan. 1, 1923	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January	January, 1930, from December, 1929	January, 1930, from January, 1929
PRODUCTION—Continued										
FOREST PRODUCTS							ļ			
Total	112	67	84	76	82	81	70	67	-4.3	-18.3
Lumber	112	59	79	71	78	77	65	59	-1.5	-17.9
PulpwoodGum (rosin and turpentine)*	$\begin{array}{c} 151 \\ 204 \end{array}$	54 18	116 119	$\begin{array}{c} 111 \\ 122 \end{array}$	123 41	$\begin{array}{c c} 113 \\ 142 \end{array}$	$100 \\ 127$	100 48	-62.2	-18.7 +17.1
Distilled wood	148	65	104	104	101	101	100	105	+5.0	+4.0
NEW ORDERS				}		1				
Total	138	72	102	80	99	73	72			
Textiles	179	70	113	88	105	89	73			
Iron and steel	143	71	114	111	135	81	101			
LumberPaper and printing	141 118	52 85	$\begin{array}{c} 99 \\ 114 \end{array}$	67 99	80	63 104	52 92	11		
Stone and clay products	129	73	101	82	87	84	73			
STOCKS					 					
Grand total	156	82	137	142	139	157	158	144	-8.9	+3.6
Total manufactured goods	125	88	114	121	127	116	119	122	+2.5	-3.9
Foodstuffs	136	79	87	97	107	104	110	108	-1.8	+0.9
Textiles	138	78	118	129	127	121	131	128	-2.3	+0.8
Iron and steel	157 179	78 74	143	147	152	134	135	147	+8.9	-3.3
Nonferrous metals Lumber	125	78	125 107	125 113	124 116	148 113	169 116	179 118	+5.9 +1.7	$+44.5 \\ +1.7$
Stone, clay, etc		64	136	154	180	139	161	180	+11.8	0.0
Leather		66	75	77	76	74	75	74	-1.3	-2.6
Rubber	199 156	77 46	156 133	164	160 145	146	144 73	$\begin{array}{c c} 146 \\ 72 \end{array}$	+1.4 -1.4	-8.7 -50.3
PaperChemicals and oils	131	84	112	117	126	124	126	131	+4.0	-30.3 +4.0
Total raw materials	186	69	154	156	148	186	186	160	-14.0	+8.1
Foodstuffs	230	68	155	163	158	219	213	168	-21.1	+6.3
Textiles		43	170	173	161	195 122	204	189	-7.4	+17.4
Metals	136 153	54 73	126 136	97 136	89 125	122	115	100 120	-13.0 -7.7	+12.4 -4.0
UNFILLED ORDERS										
Total	167	67	74	71	77	80	78	80	+2.6	+3.9
Textiles	154	52	72	72	75	55	52	55	+5.8	-26.7
Iron and steel	$\begin{array}{c c} 157 \\ 204 \end{array}$	66	76 49	83	86 53	81 113	87 116	90 118	$+3.4 \\ +1.7$	$\begin{array}{c c} +4.7 \\ +122.6 \end{array}$
Lumber		56	84	62	74		66	69	+4.5	-6. 8
WHOLESALE TRADE										
Grand total, all classes	124	82	99			96		.		
Groceries		83 87	100		-	$- 99 \\ - 112$		·		
Meats Dry goods	128	70	117			83		-		
Men's clothing	167	43	66			_ 60				
Boots and shoes.	130	68	105 98		-	- 91		-	11	
Hardware Drugs	118	76 88	114		-	-195		-		
Furniture	140	72	106		-	106				
RETAIL TRADE										1
Mail order houses (2 houses)	275	68	188	227	145	225	275	138	-49.8	-4.8
Chain Stores:	308	62	158	305	112	174	308	117	-62, 0	14 5
Grocery	257	77	219	221	224		257	117	- 02. 0	+4.5
Drug	260	82	169	224	179		260			
DEPARTMENT STORES:	100		100	100		100	100	00	F1 ^	
SalesStocks	189 117	71 83	122 115	189 94	91 89		185 94	89 88	$\begin{vmatrix} -51.9 \\ -6.4 \end{vmatrix}$	$\begin{vmatrix} +2.2 \\ -1.1 \end{vmatrix}$
DVUUAD	111	00	119	94	8 09	110	94	00	-0.4	— 1. 1

 $[\]mbox{*}$ Fluctuations between maximum and minimum due largely to seasonal conditions.

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INDEXES OF BUSINESS—Continued

	Maxi-	Mini-	19	28		1929		1930	PER CENT I OR DECH	NCREASE (+)
Relative to monthly average indicated	mum since Jan. 1, 1923	mum since Jan. 1, 1923	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January	January, 1930 from December, 1929	January, 1930 from January, 1929
EMPLOYMENT*										
(Relative to 1923-25 monthly average as 100)										
Number employed, by industries: Total, all classes	106	91	99	98	97	98	95	93	-2.1	-4.1
Iron and steel	108	88	98	98	97	97	92	92	-2.1 0.0	-4.1 -5.2
Machinery	122	88	104	105	107	115	112	100	-1.8	+2.8
Textiles		84	96	97	96	97	94	93	-1.1	-3.1
Food products	109	93	102	102	99	102	101	97	-4.0	-2.0
Paper and printing Lumber and products	107 104	96	104	104	103	107	107	105	-1.9	+1.9
Transportation equipment—	104	85	91	88	86	88	82	77	-6.1	-10. 5
Group	110	81	90	90	94	83	81	83	+2.5	-11.7
Automobiles	131	79	109	108	118	84	80	86	+7.5	-27.1
Leather and products	112	88	89	89	92	94	90	91	+1.1	-1.1
Cement, clay and glass	107	84	92	90	84	89	82	75	-8.5	-10.7
Nonferrous metals Chemicals—	113	85	102	102	102	94	90	86	-4.4	-15.7
Group	119	90	107	108	108	114	112	111	-0.9	+2.8
Petroleum refining	125	95	104	105	104	124	121	121	ŏ. ŏ	$+16.\ 3$
Rubber products	117	84	110	110	112	91	89	90	+1.1	-29.6
Tobacco products	109	84	99	96	84	96	89	84	-5.6	0. 0
Amount of pay roll by industries: Total all classes	112	85	104	104	101	100	00	0.4		e 0
Iron and steel	114	77	$\begin{array}{c} 104 \\ 105 \end{array}$	104	101 101	$\begin{array}{c} 102 \\ 100 \end{array}$	99 94	94 91	$ \begin{array}{c c} -5.1 \\ -3.2 \end{array} $	-6.9 -9.9
Machinery	132	83	110	114	112	122	120	114	-5.0	+1.8
Textiles	111	77	97	100	97	96	94	$\overline{92}$	-2.1	-5.2
Food products	109	94	105	106	102	106	106	103	-2.8	+1.0
Paper and printing	118	92	112	114	111	117	118	115	-2.5	+3.6
Lumber and products Transportation equipment—	107	83	94	90	83	89	83	73	-12.0	-12.0
Group	117	80	96	96	94	89	86	81	-5.8	-13.8
Automobiles	152	66	115	112	115	84	73	74	+1.4	-35.7
Leather and products	116	80	80	86	90	84	84	85	+1.2	-5.6
Cement, clay and glass	108	79	91	88	79	86	80	67	-16.2	-15.2
Nonferrous metals Chemicals—	128	81	119	121	117	100	96	92	-4.2	-21.4
Group	118	90	108	108	106	116	114	109	-4.4	+2.8
Petroleum refining	129	90	107	107	105	126	125	121	-3.2	+15.2
Rubber products	150	82	112	114	119	86	85	89	+4.7	-24.2
Tobacco products	111	76	94	94	76	94	89	77	-13.5	+1.3
WHOLESALE PRICES										
Department of Labor Indexes										
(Relative to 1926 monthly average as 100)										
All commodities	105	94	97	97	97	94	94	93	-1.1	-4.1
Farm products	114	94	102	104	106	101	102	101	-1.0	-4.7
Food, etcHides and leather products	107	85	100	98	99	99	99	97	-2.0	-2.0
Textile products	$\begin{array}{c c} 127 \\ 114 \end{array}$	98 93	$\begin{array}{c c} 116 \\ 96 \end{array}$	116 96	114 96	108	107	105	-1.9	-7.9
Fuel and lighting	112	81	84	84	83	$\begin{array}{c} 92 \\ 82 \end{array}$	$\begin{array}{c} 90 \\ 81 \end{array}$	89 80	$ \begin{array}{c c} -1.1 \\ -1.2 \end{array} $	$-7.3 \\ -3.6$
Metals and metal products	113	97	102	103	104	102	102	101	-1.0	-2.9
Building materials	116	90	96	97	97	96	96	96	0. 0	-1.0
Chemicals	104	93	96	96	96	94	94	93	-1.1	-3.1
House-furnishing goods	$\begin{array}{c c} 111 \\ 127 \end{array}$	97 79	96 80	96 80	$\begin{bmatrix} 97 \\ 81 \end{bmatrix}$	97 80	97	97	0.0	0.0
Classified by condition of manufacture:	121	19	00	OU	01	ου	80	79	-1.2	-2.5
Semimanufactured articles	128	94	97	97	97	96	94	93	-1.1	-4.1
Finished products	103	93	97	96	97	94	94	93	-1.1	-4.1
Raw materialsNonagricultural commodities	109 106	93 93	96 95	97 95	99 95	95 93	$egin{array}{c} 95 \ 92 \ \end{array}$	94 91	-1.1 -1.1	-6.0 -4.2
Commercial Indexes										
(Relative to 1926 monthly average as 100)	ļ	1	1		Ì			dy's man	Ì	
Dun's Bradstreet's	106	85	103	102	103	100	99	98	-1.0	-4.9
Draustreet 8	112	95	102	100	101	95	90	89	-1.1	-11.9

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

INDEXES OF BUSINESS—Continued

	Maxi-	Mini-	19	28		1929		1930	PER CENT IN OR DECR	ICREASE (+) EASE (-)
Relative to monthly average indicated	mum since Jan. 1, 1923	mum since Jan. 1, 1923	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January	January, 1930 from December, 1929	January, 1930 from January, 1929
PRICE INDEX NUMBERS										
FARM PRICES (Relative to 1909–1914 average as 100)										
All groups	253 167	125 108 108 98 122 81 79	134 110 109 150 155 146 86	134 112 108 143 159 148 90	133 115 109 146 149 148 92	136 118 159 144 157 132 90	135 119 163 143 157 130 87	134 118 167 146 146 128 87	$ \begin{array}{c} -0.7 \\ -0.8 \\ +2.5 \\ +2.1 \\ -7.0 \\ -1.5 \\ 0.0 \end{array} $	$egin{array}{c} +0.8 \\ +2.6 \\ +53.2 \\ 0.0 \\ -2.0 \\ -13.5 \\ -5.4 \end{array}$
COST OF LIVING		l I								
National Industrial Conference Board Indexes										
(Relative to July, 1914)						Ì				
All items weighted Food (Department of Labor) Shelter Clothing Fuel and light (combined) Fuel Light Sundries	2118	158 141 159 160 156 174 118 168	163 157 160 172 162 183 121 171	162 156 160 171 163 184 121 171	161 155 159 169 163 184 121 170	163 160 159 168 162 183 120 170	162 158 159 169 162 183 120 169	160 155 159 166 163 184 121 168	$\begin{array}{c} -1.2 \\ -1.9 \\ 0.0 \\ -1.8 \\ +0.6 \\ +0.5 \\ +0.8 \\ -0.6 \end{array}$	-0.6 0.0 0.0 -1.8 0.0 0.0 0.0

NATIONAL ADVERTISING IN NEWSPAPERS 1

· YEAR AND MONTH	Total	Passen- ger cars	Tires, trucks, and acces- sories	Finan- cial	Build- ing mate- rials	Elec- trical appli- ances and supplies	Foods and bever- ages	Heating and plumb- ing equip- ment		Radio	Tobac- co	Toilet requi- sites	Trans- porta- tion	All other
					Thousan	ds of lines			_					
1928 January	44, 266	10, 398	2, 267	8, 477	272	444	3, 581	249	6, 359	1, 585	2, 510	1, 915	2, 188	4, 021
	12, 401	1, 628	562	- 2, 269	73	173	1, 335	105	1, 563	436	1, 133	678	468	1, 978
	48, 664	7, 542	3, 315	7, 206	642	736	6, 535	352	5, 893	1, 210	5, 081	3, 345	1, 936	4, 872
	49, 965	8, 193	4, 712	6, 843	944	1,301	7, 108	580	3, 828	637	3, 826	3, 323	2, 578	6, 092
May	49, 810	6, 770	5, 443	7, 130	964	1, 236	7, 851	600	3, 392	599	2, 580	2, 968	3, 630	6, 646
June	42, 916	6, 168	6, 488	5, 863	549	1, 127	7, 449	492	2, 347	583	2, 117	2, 294	3, 361	4, 081
July	41, 339	7, 193	5, 536	6, 648	342	822	6, 640	352	2, 232	634	2, 520	2, 250	2, 946	3, 224
August	39, 167	7, 064	5, 681	4, 796	400	887	5, 802	476	2, 214	1,009	2, 709	1, 949	2, 467	3, 715
September October November December	43, 402	6, 720	4, 696	5, 821	811	895	5, 678	979	2, 920	3, 759	2,006	2, 139	1, 734	5, 245
	52, 955	6, 523	5, 022	7, 193	821	893	6, 628	879	5, 224	3, 924	2,653	3, 831	1, 996	7, 366
	51, 380	7, 063	4, 511	6, 856	426	848	6, 062	595	6, 097	3, 863	2,335	2, 605	2, 396	7, 721
	40, 586	6, 341	3, 806	7, 518	237	1, 144	3, 281	404	3, 952	3, 038	1,602	1, 388	2, 351	5, 524
Total	516, 851	81, 603	52, 039	76, 620	6, 481	10, 506	67, 950	6, 063	46, 021	21, 277	31, 072	28, 685	28, 051	60, 485
1929 January February March April	52, 270	11, 010	3, 927	9, 625	246	470	3, 955	402	8, 117	2, 148	2, 703	2, 742	2, 324	4, 601
	13, 731	1, 689	733	2, 357	83	220	1, 454	135	1, 581	701	1, 178	914	526	2, 160
	56, 133	9, 228	3, 781	8, 011	600	1, 466	7, 185	579	6, 557	2, 176	3, 885	3, 574	2, 307	6, 783
	55, 868	9, 779	5, 288	7, 653	1, 261	1, 495	7, 556	649	4, 266	1, 390	3, 161	3, 333	2, 960	7, 078
May	61, 548	8, 757	7, 397	8, 176	1, 148	1, 553	8, 837	650	3, 810	2, 148	5, 171	2, 936	4, 263	6, 704
June	56, 118	6, 603	7, 926	7, 485	632	1, 763	8, 230	381	2, 830	1, 885	4, 264	3, 123	4, 667	6, 291
July	48, 023	6, 219	7, 565	8, 672	275	1, 093	6, 676	319	2, 285	2, 515	2, 484	2, 592	3, 756	3, 572
August	44, 095	7, 088	6, 745	6, 304	274	888	5, 895	422	2, 190	3, 017	2, 107	2, 372	3, 121	2, 672
September	52, 869	6, 884	5, 502	7, 457	775	1, 560	6, 440	782	3, 019	6, 205	3, 217	3, 020	2, 321	5, 686
October	64, 037	7, 396	5, 719	8, 812	769	1, 354	7, 713	817	5, 595	7, 109	4, 617	3, 807	2, 530	7, 800
November	52, 879	4, 098	5, 996	6, 578	338	1, 062	6, 848	513	5, 967	5, 734	4, 112	2, 267	2, 802	6, 565
December	36, 724	2, 664	4, 279	6, 943	109	935	3, 452	344	3, 072	4, 021	1, 515	1, 177	2, 747	5, 466
Total	594, 295	81, 415	64, 858	88, 073	6, 510	13, 859	74, 241	5, 993	49, 289	39, 049	38, 414	31, 857	34, 324	65, 378

¹ Compiled by the Media Records Incorporated, New York City. These data are derived by actual measurement of space and represent the amount of national advertising appearing in all newspapers, both daily and Sunday, of the following 50 identical cities: Akron, Albany, Atlanta, Baltimore, Birmingham, Boston, Buffalo, Chicago, Cleveland, Cincinnati, Columbus, Dallas, Dayton, Denver, Des Moines, Detroit, Hartford, Indianapolis, Kansas City, Mo., Knoxville, Los Angeles, Lousiville, Memphis, Milwaukee, Minneapolis, Nashville, Newark, New Orleans, New York, including Brooklyn, Norfolk, Oakland, Okalhoma City, Omaha, Philadelphia, Pittsburgh, Portland, Oreg. Providence, Reading, Rochester, San Francisco, Seattle, Springleid, Masss, Spokane, St. Louis, St. Paul, Syracuse, Toledo, Tulkas, Washington, and Worcester, Mass. National advertising is the advertising of products on general sale, as distinguished from the advertising of retail stores, not including any automotive or financial advertising. The application of this definition is uniform in all cities measured by Media Records (Inc.).

AUTOMOBILE PRODUCTION IN THE UNITED STATES¹

[Number of vehicles]

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Month			·			FOTAL	PASSEN	GER CA	RS, TA	XICABS	, AND	TRUCKS					
January February March April May June July Cotober October November December December September September September May	35, 662 35, 663 45, 273 60, 335 57, 199 53, 581 34, 808 31, 416 29, 860 28, 537 32, 276 40, 390	45, 644 48, 482 60, 211 70, 367 56, 354 44, 975 30, 987 48, 373 53, 523 44, 264 32, 698 33, 176	31, 253 49, 309 94, 311 101, 910 88, 390 91, 059 65, 604 82, 082 98, 861 89, 127 84, 769 93, 255	107, 402 124, 546 162, 074 152, 529 155, 950 139, 794 120, 755 106, 623 140, 281 134, 393 140, 255 133, 106	122, 002 144, 674 165, 622 172, 045 185, 721 172, 656 164, 764 146, 454 162, 883 165, 333 156, 716 115, 079	92, 208 106, 962 132, 142 153, 673 143, 003 118, 859 118, 060 89, 542 59, 555 50, 311 43, 244 63, 127	93, 779 114, 598 146, 091 165, 229 176, 484 166, 575 164, 831 165, 414 180, 786 207, 222 190, 321 162, 265	187, 937 188, 030 229, 212 173, 398 210, 019 225, 677 209, 652 205, 205 188, 514 165, 298 134, 975 109, 432	53, 237 70, 599 112, 453 152, 201 156, 805 190, 520 176, 870 181, 270 158, 760 148, 009 116, 644 79, 455	89, 374 117, 871 171, 487 219, 394 255, 622 278, 876 245, 755 290, 838 203, 927 232, 824 232, 923 225, 285	245, 889 278, 091 359, 476 379, 138 395, 555 380, 110 331, 844 348, 216 327, 720 366, 461 314, 504 307, 008	383, 424 375, 868 315, 177 251, 900 269, 812 284, 693 296, 382	240, 579 283, 638 374, 406 433, 792 419, 056 398, 524 398, 947, 260, 236 325, 728 441, 981 372, 271 316, 672	308, 998 363, 652 433, 467 439, 336 425, 167 386, 269 359, 610, 426, 851 398, 938 334, 421 256, 301 167, 924	238, 908 304, 735 394, 513 406, 382 405, 648 323, 817 269, 396 260, 310 219, 682 134, 370 133, 571	231, 728 323, 796 413, 314 410, 104 425, 783 396, 796 392, 086 461, 298 415, 314 397, 284 257, 140 234, 116	401, 037 466, 418 585, 457 621, 910 604, 691 545, 932 500, 839 498, 628 415, 912 380, 017 217, 570 119, 950
Total Mo. av	485, 000 40, 417	569, 054 47, 421	969, 930 80, 828	1, 617, 708 134, 809	1, 873, 949 156, 162	1, 170, 686 97, 557	1, 933, 595 161, 133	2, 227, 349 1 185, 612	, 596, 823 : 133, 069	2, 544, 176 212, 015	4, 034, 012 336, 168	3, 602, 540 300, 212	4, 265, 830 355, 486	4, 300, 934 358, 411	3, 401, 326 283, 444	4, 358, 759 363, 2 30	5, 358, 3 61 446, 530
								PASS	enger	CARS							
January February March April May June July September October November December	34, 483 34, 423 43, 887 57, 584 54, 871 51, 512 33, 165 29, 227 27, 035 25, 902 30, 639 38, 781	44, 364 46, 609 57, 972 67, 990 53, 521 42, 991 29, 236 46, 793 52, 095 41, 588 30, 538 29, 982	28, 304 44, 919 88, 583 95, 537 81, 054 83, 813 59, 111 76, 246 91, 797 80, 539 78, 193 87, 834	100, 806, 117, 460, 153, 175, 143, 371, 147, 840, 133, 363, 112, 810, 99, 330, 132, 115, 125, 889, 131, 841, 127, 578	116, 815 138, 759 157, 882 163, 618 175, 583 162, 926 154, 638 132, 234 148, 572 152, 088 140, 837 101, 840	81, 611 95, 202 112, 279 130, 361 118, 638 97, 194 93, 909 67, 058 39, 591 30, 119 29, 941 47, 533	76, 422 97, 126 124, 559 145, 359 154, 792 144, 805 142, 135 140, 479, 154, 119 177, 270 161, 600 138, 986	157, 115 158, 921 193, 641 149, 457 182, 027 192, 826 181, 051 176, 234 160, 520 138, 031 118, 944 96, 793	45, 397 60, 326 98, 941 137, 640 144, 097 177, 086 165, 616 167, 756 144, 670 134, 774 106, 081 70, 727	80, 194 104, 936 152, 311 197, 903 232, 439 252, 704 223, 823 246, 867 184, 485 211, 164 210, 955 205, 142	224, 549 254, 808 324, 314 340, 283 350, 279 338, 424 300, 896 317, 141 300, 647 335, 836 286, 006 277, 947	337, 238 277, 284 220, 794 242, 177 254, 610 262, 695	210, 980 248, 854 328, 589 384, 780 374, 025 359, 103 356, 314 221, 330 266, 037 395, 801 332, 666 282, 594	278, 228 325, 975 388, 215 389, 453 378, 485 343, 150 320, 074 382, 671 354, 068 292, 029 221, 653 139, 101	199, 201 263, 642 345, 549 358, 261 358, 409 280, 313 237, 541 275, 377 226, 198 182, 456 108, 984 105, 309	205, 142 290, 689 371, 150 364, 265 375, 356 356, 214 338, 383 400, 124 358, 615 339, 487 216, 754 204, 957	347, 382 405, 708 513, 344 537, 225 516, 055 452, 598 426, 137 441, 912 364, 786 320, 327 169, 282 91, 234
Total Mo. av	461, 509	543, 679 45, 307	895, 930 74, 661	1, 525, 578 127, 132	1, 745, 792 145, 483	943, 436	1, 657, 652	1, 905, 560 1 158, 797	, 453, 111		304 281		3, 761, 573	3, 813, 102 2	2, 941, 240 3	3,821,136	1, 586, 020
ļ			and the second	W							-					910,1120,	
January February March April May June July August September October November Total													785 543 526 278 264 492 374 484 469 789 1, 076 1, 340	767 497 488 501 341 238 337 556 287 533 766 813	449 529 482 421 316 307 270 208 245 586 774 774	504 462 671 612 507 408 409 469 276 659 700 1,036	2, 064 2, 108 2, 079 1, 686 1, 318 1, 378 1, 054 1, 040 865 868 1, 646 1, 483
Total Mo. av													7, 420 618	6, 124 510	5, 361 447	6, 713 559	17, 589 1, 466
									TRUCK		··						
January February March April May June July August September October November December	1, 179 1, 240 1, 386 2, 751 2, 328 2, 069 1, 643 2, 189 2, 825 2, 635 1, 646 1, 609	1, 280 1, 873 2, 239 2, 377 2, 833 1, 984 1, 751 1, 580 1, 428 2, 676 2, 160 3, 194	2, 949 4, 390 5, 728 6, 373 7, 336 7, 246 6, 493 5, 836 7, 064 8, 588 6, 576 5, 421	6, 596 7, 086 8, 899 9, 158 8, 110 6, 431 7, 945 7, 293 8, 166 8, 504 8, 414 5, 528	5, 187 5, 915 7, 740 8, 427 10, 138 9, 730 10, 126 14, 220 14, 311 13, 245 15, 879 13, 239	10, 597 11, 760 19, 863 23, 312 24, 365 21, 665 24, 151 22, 484 19, 964 20, 192 13, 303 15, 594	17, 357 17, 472 21, 532 19, 870 21, 692 21, 770 22, 696 24, 935 26, 667 29, 952 28, 721 23, 279	30, 822 29, 109 35, 571 23, 941 27, 992 32, 851 28, 601 28, 971 27, 297 16, 031 12, 639	7, 840 10, 273 13, 512 14, 561 12, 708 13, 434 11, 254 13, 514 14, 090 13, 235 10, 563 8, 728	9, 180 12, 935 19, 176 21, 491 23, 183 26, 172 21, 932 23, 971 19, 442 21, 660 21, 968 20, 143	28, 340 23, 283 35, 162 38, 855 45, 276 41, 686 30, 948 31, 075 27, 073 30, 625 28, 498 29, 061	31, 391 33, 524 36, 260 38, 630 37, 893 31, 006 27, 635 30, 083 33, 687 34, 309 30, 288 27, 829	28, 814 34, 241 45, 291 48, 734 44, 767 38, 929 42, 259 37, 922 59, 222 45, 391 38, 529 32, 738	30, 003 37, 180 44, 764 49, 382 46, 341 42, 881 39, 199 43, 624 44, 583 41, 859 33, 882 28, 010	39, 258 40, 564 48, 482 47, 700 46, 923 43, 197 31, 585 34, 409 33, 867 36, 640 24, 612 27, 488	26, 082 32, 645 41, 493 45, 227 49, 920 40, 174 53, 294 60, 705 56, 423 57, 138 39, 686 28, 123	51, 591 58, 602 70, 034 82, 999 87, 318 91, 956 73, 648 55, 646 50, 261 58, 822 46, 642 27, 233
Total Mo. av	23, 500 1, 958	25, 375 2, 115	74, 000 6, 167	92, 130 7, 678	128, 157 10, 680	227, 250 18, 938	275, 943 22, 995	321, 789 26, 816	143, 712 11, 976	241, 253 20, 104	382, 882 31, 907	302, 535 32, 711	496, 837 41, 403	481, 708 40, 142	454, 725 37, 894	530, 910 44, 243	754, 752 62, 896

¹ Data through June, 1921, compiled by the National Automobile Chamber of Commerce from actual monthly reports from the principal producers, covering close to 90 per cent of the industry, from quarterly reports of other member companies, prorated to monthly figures according to the relative output of the larger companies, and from annual figures of small nonmember companies, covering the balance of the industry, prorated to monthly figures according to the relative output of the companies reporting on a monthly or quarterly basis. Beginning with July, 1921, figures are total reports from practically the entire industry compiled by the U. S. Department of Commerce, Bureau of the Census, including data from the National Automobile Chamber of Commerce. Figures for passenger cars include taxicabs prior to 1925 and those for trucks include ambulances, funeral cars, fire apparatus, street sweepers, and busses. All these figures, revising data previously published, represent production or factory sales and cover the United States only.

SALES OF THE GREAT ATLANTIC AND PACIFIC TEA CO.1

		SALES ands of		TONNAG	E SALES			SALES ands of		TONNAG	E SALES
YEAR AND MONTH	Total	Num- ber of weeks	Weekly average	Total	Weekly average	YEAR AND MONTH	Total	Num- ber of weeks	Weekly average	Total	Weekly average
1928 SeptemberOctoberNovemberDecember	\$69, 336 93, 429 73, 844 74, 911	4 5 4 4	\$17, 334 18, 686 18, 461 18, 728	309, 451 419, 079 338, 704 345, 595	77, 363 83, 816 84, 676 86, 399	September October November December	\$75, 246 105, 995 83, 714 87, 260	4 5 4	\$18, 811 21, 199 20, 928 21, 815	336, 309 472, 644 381, 106 407, 339	84, 077 94, 529 95, 276 101, 835
1929 January	91, 983	5	18, 397	425, 590	85, 118	1930 January	104, 271	5	20, 854	492, 425	98, 485

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

RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS 1

GROUPED BY FEDERAL RESERVE DISTRICTS [Table continued on p. 21]

	U. S.		BOST	ON DIST	RICT	i	!	NEW Y	ORK DI	STRICT		PHIL	ADELPI	HIA DIST	rrict
YEAR AND MONTH	TOTAL 141 CEN- TERS	Total, 11 centers	Boston	Hart- ford	Provi- dence	New Haven	Total, 7 centers	Albany	Buffalo	Roches- ter	New York	Total, 10 centers	Phila- delphia	Scran- ton	Tren- ton
1919 av., mills. doll s_	37, 446	1, 769	1, 245	92	144	72	20, 917	87	263	120	20, 354	1,625	1, 373	53	43
1919 monthly average 1920 monthly average 1921 monthly average 1922 monthly average 1923 monthly average 1924 monthly average 1925 monthly average 1926 monthly average 1927 monthly average 1928 monthly average	100. 0 106. 0 88. 7 97. 8 103. 2 109. 5 126. 8 135. 3 150. 0 179. 5	100. 0 109. 2 102. 4 105. 5 117. 1 120. 9 136. 7 141. 6 158. 1 161. 3	160. 0 105. 9 106. 7 109. 3 120. 2 125. 6 143. 9 157. 0 168. 9 169. 1	100. 0 117. 4 98. 9 103. 3 119. 6 131. 3 141. 7 152. 3 202. 5 232. 7	100. 0 118. 7 93. 0 95. 1 105. 5 104. 4 114. 9 113. 4 113. 2 115. 5	100. 0 118. 1 98. 6 104. 2 122. 2 125. 8 134. 6 139. 6 148. 6 162. 4	100. 0 99. 4 85. 2 98. 4 98. 2 108. 3 128. 7 139. 0 160. 1 203. 7	100, 0 111, 5 119, 5 119, 5 118, 3 134, 8 147, 7 154, 0 168, 3 179, 0	100. 0 114. 8 92. 8 99. 6 114. 8 115. 0 133. 3 136. 9 140. 6 166. 0	100, 0 119, 2 103, 3 110, 0 124, 2 129, 0 144, 3 146, 3 152, 2 157, 8	100.0 98.8 84.8 98.2 97.6 107.9 128.3 138.8 160.3 204.8	100. 0 113. 3 95. 8 102. 5 114. 3 116. 8 129. 5 134. 6 140. 0 156. 2	100. 0 112. 4 93. 8 101. 7 111. 9 114. 3 128. 1 133. 1 138. 6 155. 8	100. 0 124. 5 122. 7 109. 4 130. 6 142. 3 138. 9 144. 2 145. 5 146. 6	100. 6 125. 6 111. 6 118. 6 137. 2 146. 5 159. 6 168. 5 175. 6 187. 4
1928 May June July August September October November December	191. 3 193. 6 157. 5 156. 3 168. 7 194. 7 190. 6 220. 1	170. 0 163. 5 149. 1 143. 4 142. 4 172. 2 166. 8 178. 5	177. 0 168. 6 157. 4 152. 2 148. 8 180. 4 176. 5	272. 8 245. 7 200. 0 188. 1 210. 9 231. 5 217. 4 259. 8	129. 1 134. 0 111. 1 106. 9 110. 4 142. 3 124. 3 137. 5	175. 0 175. 0 161. 1 147. 2 152. 8 176. 4 159. 7 172. 2	221. 4 222. 4 172. 1 172. 0 189. 4 220. 9 220. 0 257. 2	265. 4 202. 2 152. 8 142. 5 139. 0 156. 3 157. 4 198. 8	167. 7 173. 0 160. 4 162. 0 102. 7 190. 5 180. 2 196. 6	160. 8 196. 7 153. 3 139. 2 148. 3 165. 0 155. 0	222. 4 223. 3 172. 4 172. 5 190. 3 222. 0 223. 4 259. 0	163. 5 175. 8 143. 8 132. 8 146. 6 169. 7 163. 6 189. 3	164. 0 177. 8 142. 9 131. 1 146. 1 169. 4 164. 7 191. 2	154. 7 151. 0 130. 2 126. 4 134. 0 145. 3 137. 8 154. 7	186. 1 202. 4 172. 1 172. 1 172. 1 195. 4 188. 4 230. 3
January February March. April May June July August. September October November December	221. 3 189. 1 223. 2 199. 7 204. 5 186. 1 207. 4 206. 7 207. 4 2 5. 3 219. 4 178. 4	181. 3 151. 2 171. 4 166. 0 167. 4 162. 5 182. 1 186. 7 174. 5 217. 5 186. 3 171. 4	187. 9 159. 5 178. 4 168. 8 173. 7 166. 5 189. 8 200. 7 179. 5 231. 9 195. 1 180. 2	295. 7 220. 7 267. 4 301. 1 254. 4 250. 0 300. 0 287. 0 341. 3 322. 8 273. 9 238. 1	143. 7 117. 3 134. 0 131. 9 133. 3 137. 5 140. 2 128. 4 127. 1 166. 6 152. 1 136. 8	195. 8 144. 5 172. 2 172. 2 166. 7 170. 8 180. 6 168. 1 173. 6 201. 4 179. 2	266. 7 225. 4 270. 0 234. 4 244. 4 211. 9 240. 8 239. 9 246. 2 308. 9 261. 5 195. 3	186. 1 157. 4 233. 2 241. 3 282. 7 212. 6 204. 5 196. 5 178. 1 209. 1 191. 9 202. 2	191. 2 149. 8 180. 2 181. 4 176. 0 188. 2 217. 1 226. 2 232. 3 256. 3 213. 3	175. 0 141. 7 165. 8 153. 3 149. 2 164. 2 176. 7 176. 7 159. 2 182. 5 193. 3 158. 3	268. 8 227. 4 272. 3 235. 7 245. 0 212. 6 241. 8 240. 9 247. 3 311. 1 263. 4 195. 8	179. 1 156. 1 175. 1 178. 4 166. 7 177. 1 175. 5 154. 2 154. 0 186. 2 180. 1	178. 9 155. 9 177. 7 179. 9 167. 1 178. 7 175. 3 153. 2 152. 5 185. 6 181. 8 171. 1	151. 0 137. 8 143. 4 141. 5 141. 5 139. 6 139. 6 135. 9 171. 7 152. 8	200. 0 216. 3 181. 4 193. 1 183. 8 193. 1 227. 9 186. 1 190. 7 211. 7 204. 7 230. 3
1930 JanuaryFebruary	161. 5	172. 4	181.4	254. 4	131. 9	176. 4	170. 5	176. 9	160. 4	151. 7	170. 6	160. 6	159. 6	143. 4	211, 7
March April															
			ATLA	NTA DIS	TRICT				!	C	HICAGO) DISTR	ict	<u> </u>	<u>'</u>
YEAR AND MONTH	Total, 15 centers	Atlanta	Bir- ming- ham	New Or- leans	Jack- son- ville	Nash- ville	Au- gusta	Total, 21 centers	Chi- eago	Detroit	Indian- apolis	Mil- wau- kee	Des Moines	Grand Rapids	Sioux City
1919 av., mills. dolls	. 928	123	59	304	48	93	37	4, 242	2, 800	525	136	237	83	75	63
1919 monthly average 1920 monthly average 1921 monthly average 1922 monthly average 1923 monthly average 1924 monthly average 1925 monthly average 1926 monthly average 1927 monthly average 1928 monthly average	115. 1 84. 2 86. 0 100. 0 105. 3 125. 0 128. 1 123. 9	108. 9 85. 4 90. 2 108. 9 113. 1 129. 2 132. 7 127. 8	128. 8 103. 4 133. 9 183. 1 199. 3 226. 7 243. 8 253. 5	114.8	97. 9 112. 5 126. 5 206. 2 232. 6 181. 6	105. 4 71. 0 78. 5 79. 2 87. 6 89. 7 97. 6	64. 9 70. 3 83. 8 74. 6 78. 2 72. 6 74. 8	100. 0 116. 0 92. 0 96. 8 108. 8 110. 8 124. 9 132. 0 137. 9 155. 3	113. 0 91. 7 96. 2 105. 0 106. 3 120. 4 127. 5	125. 2 91. 2 101. 3 125. 7 130. 6 158. 3 166. 4 162. 8	100, 0 123, 5 100, 0 104, 4 115, 4 110, 9 115, 4 135, 2 136, 2 139, 6	101. 7 115. 6 110. 5 119. 4 127. 3 130. 1	100. 0 114. 5 84. 4 83. 1 97. 6 103. 2 89. 8 98. 1 98. 1 90. 2	100.0 128.0 109.3 81.3 89.3 89.2 114.1 115.5 110.3 118.0	100, 0 109, 5 63, 5 101, 6 119, 0 123, 4 136, 9 129, 1 114, 7 92, 5
May	118. 6 114. 7 112. 9 114. 4 134. 0 129. 9	126. 8 121. 1 117. 1 122. 8 145. 5 167. 5	250. 9 245. 8 235. 6 242. 4 294. 9 261. 0	106. 2 105. 2 107. 2 102. 3 107. 6 120. 7 119. 4 134. 2	158. 3 147. 9 143. 7 133. 3 152. 1 143. 7	110. 7 96. 8 121. 5	64. 9 64. 9 62. 2 64. 9 89. 2 73. 0	162. 0 162. 1 145. 4 146. 6 151. 7 165. 8 155. 9 184. 6	159. 2 139. 3 139. 7 144. 1 160. 5 153. 1	217. 4 205. 5 216. 6 237. 2 236. 8 216. 2	141. 9 137. 5 135. 3 133. 8 127. 9 146. 3 143. 4 156. 6	131. 2 129. 5 121. 5 138. 4 127. 0	108. 5 108. 5 94. 0 97. 6 95. 2 106. 0 100. 0	121. 3 124. 0 114. 6 114. 6 116. 0 126. 6 124. 0 130. 6	95. 2 100. 0 95. 2 95. 2 95. 2 101. 6 74. 6 90. 5
1929 January February March April May June July August September October November December	120, 2 134, 3 132, 3 126, 3 120, 5 126, 7 121, 4 117, 5 142, 0 123, 8	169. 9 195. 9 188. 6 187. 0 165. 9 180. 5 179. 7 143. 9 171. 5	215. 3 252. 6 255. 9 252. 6 232. 2 244. 1 239. 0 244. 1 296. 6 254. 3	129. 6 105. 6 117. 4 112. 2 104. 3 95. 7 107. 9 101. 6 102. 0 131. 2 114. 5	168. 7 158. 3 175. 0 183. 3 162. 5 152. 1 162. 5 141. 6 131. 2	146. 2 119. 3 129. 0 119. 3 109. 7 145. 1 111. 8 112. 9 106. 4 118. 3 101. 1	75. 7 64. 9 75. 7 75. 7 70. 3 62. 2 62. 2 64. 9 78. 4 100. 0 75. 7	173. 7 153. 3 180. 3 163. 4 166. 5 163. 7 178. 4 187. 8 179. 9 206. 4 179. 7 162. 5	170. 1 154. 9 185. 7 158. 9 160. 0 158. 7 176. 6 192. 8 214. 6 185. 3	255. 3 201. 4 220. 2 234. 9 252. 4 233. 0 242. 3 260. 8 253. 0 215. 1	155. 1 140. 4 150. 7 143. 4 151. 5 156. 6 165. 4 159. 6 147. 8 164. 0 157. 4 148. 5	128. 3 115. 2 130. 8 122. 8 117. 3 128. 3 142. 6 143. 9 140. 1	101. 2 86. 8 100. 0 101. 2 106. 0 103. 6 104. 8 103. 6 118. 1 103. 6 97. 6	133. 3 104. 0 126. 6 118. 6 128. 0 122. 6 130. 6 132. 0 134. 6 113. 3 106. 6	98. 4 88. 9 101. 6 106. 3 104. 7 96. 8 106. 3 101. 6 95. 2 104. 7 90. 5
								11		1	1	1	1	1	

RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS—Continued

GROUPED BY FEDERAL RESERVE DISTRICTS—Continued [Table continued on p. 22]

					CLEVEI	AND D	ISTRICT					RICHM	IOND DI	STRICT	•
YEAR AND MONT	н	Total, 13 centers	Akron	Cincin- nati	Cleve- land	Pitts- burgh	Y'ngs- town	Toledo	Colum- bus	Dayton	Total, 7 centers	Balti- more	Norfolk	Rich- mond	Green- ville ²
1919 average millions of	dollars	1, 963	90	247	653	746	60	116	116	50	718	404	84	16	37
1919 monthly average 1920 monthly average 1921 monthly average 1922 monthly average 1923 monthly average 1924 monthly average 1925 monthly average 1926 monthly average 1927 monthly average 1928 monthly average		100. 0 16. 4 89. 6 94. 6 110. 9 109. 4 122. 0 127. 4 136. 6 141. 4	100. 0 115. 6 63. 3 63. 3 80. 0 81. 4 100. 0 104. 5 112. 9 124. 5	100, 0 113, 0 107, 7 117, 4 133, 6 128, 0 142, 7 150, 3 167, 2 181, 2	100.0 115.9 81.9 84.1 99.2 96.8 106.6 115.9 124.9 130.0	100. 0 118. 5 94. 9 97. 2 112. 7 113. 2 126. 4 126. 7 137. 1 136. 1	100, 0 110, 0 78, 3 83, 3 103, 4 101, 6 117, 0 118, 0 118, 5 124, 1	100. 0 117. 2 100. 0 123. 8 153. 5 155. 7 179. 2 189. 5 205. 2 241. 0	100, 0 111, 2 102, 6 112, 1 128, 5 116, 0 126, 9 138, 3 144, 8 148, 3	100. 0 104. 0 110. 0 112. 0 138. 0 136. 0 156. 0 176. 5 188. 8 194. 5	100, 0 111, 8 95, 5 89, 6 98, 6 96, 3 106, 7 108, 4 107, 1 105, 4	100. 0 115. 6 104. 9 89. 1 93. 3 93. 4 104. 6 107. 4 104. 2 102. 0	100, 0 102, 3 71, 4 78, 5 88, 1 82, 2 85, 8 94, 2 89, 0 85, 4	100. 0 103. 7 98. 3 100. 9 112. 9 109. 1 122. 9 121. 5 120. 2 123. 6	100. 0 102. 7 67. 6 67. 6 78. 4 69. 4 73. 0 76. 2 75. 0 64. 2
May		137. 8 151. 8 137. 5 130. 0 135. 3 156. 1 140. 5 169. 9	118. 9 132. 2 132. 2 117. 8 125. 5 141. 1 116. 7 141. 1	174. 1 198. 8 171. 7 158. 3 159. 1 188. 3 169. 7 214. 2	122.0 136.4 126.2 119.4 124.3 150.0 123.4 162.1	134. 8 150. 5 130. 1 125. 2 129. 6 147. 1 142. 3 159. 6	123. 4 135. 0 126. 7 121. 7 123. 4 136. 7 118. 4 151. 7	244. 8 260. 4 238. 8 210. 4 230. 2 271. 6 240. 5 277. 6	146. 6 151. 7 137. 9 136. 2 138. 8 151. 7 146. 6 186. 2	190. 0 206. 0 202. 0 186. 0 182. 0 202. 0 168. 0 228. 0	105. 0 114. 2 101. 4 96. 5 93. 6 112. 7 102. 8 120. 1	103. 7 119. 0 102. 7 93. 3 86. 4 104. 0 95. 8 112. 6	90. 4 84. 5 80. 9 82. 1 72. 6 94. 0 83. 3 107. 1	111, 2 119, 0 112, 1 117, 2 128, 5 146, 6 130, 2 144, 8	67. 6 56. 8 54. 1 48. 7 51. 4 70. 3 64. 9 67. 6
January February March April May June July August September October November December		150. 0 158. 5 145. 7	136. 7 125. 5 133. 3 140. 0 134. 4 136. 7 148. 9 127. 8 130. 0 140. 0 124. 4 126. 7	202. 5 176. 5 184. 2 201. 2 172. 5 179. 0 184. 6 165. 2 166. 0 206. 5 189. 5	138. 9 134. 1 140. 4 153. 1 135. 8 141. 3 151. 1 149. 6 145. 6 165. 5 140. 9	147. 1 139. 9 148. 7 154. 0 147. 7 143. 6 167. 9 148. 7 138. 6 170. 2 161. 6 143. 0	138. 4 115. 0 135. 0 138. 4 120. 0 143. 4 151. 7 143. 4 135. 0 125. 0 128. 0	244. 0 170. 7 199. 1 219. 0 185. 4 190. 5 219. 8 191. 4 175. 0 218. 1 179. 3 194. 8	174. 1 150. 0 158. 6 173. 3 159. 5 163. 8 175. 0 164. 7 156. 4 176. 7	242. 0 190. 0 232. 0 216. 0 198. 0 214. 0 248. 0 210. 0 214. 0 220. 0 198. 0 212. 0	113. 3 96. 4 108. 4 110. 3 104. 9 105. 0 109. 1 113. 9 101. 5 120. 5 112. 1	106. 2 93. 3 104. 4 109. 1 101. 2 106. 9 111. 6 120. 3 103. 1 117. 8 110. 1	94. 0 73. 8 85. 7 80. 9 82. 1 80. 1 83. 3 80. 1 73. 8 89. 3 88. 1 90. 4	133. 6 114. 7 125. 0 121. 6 115. 5 117. 2 123. 3 134. 5 120. 7 146. 6 141. 4	73. 0 62. 2 64. 9 59. 5 59. 5 56. 8 54. 1 51. 4 73. 0 64. 9 59. 5
January		144. 0	125. 5	183. 4	141.8	131. 6	135. 0	184. 5	167. 2	228. 0	108. 7	107. 7	80.9	126. 7	73, 0
February March April															
	D.	ALLAS I	DISTRIC	or		ST. LO	UIS DIS	TRICT]	MIN	NEAPOI	LIS DIST	RICT	
YEAR AND MONTH	Total, 11 centers	Dallas	Hous- ton	Fort Worth	Sum- mary for 5 centers	Louis- ville	St. Louis	Mem- phis	Little Rock	Total, 9 centers	Duluth	Minne- apolis	St. Paul	Helena	Billings
1919 av., mill. dolls	521	161	138	92	965	156	617	136	36	659	90	354	162	11	9
1919 monthly average_ 1920 monthly average. 1921 monthly average. 1922 monthly average. 1923 monthly average. 1924 monthly average. 1925 monthly average. 1926 monthly average. 1927 monthly average. 1927 monthly average.	100.0 117.4 94.2 97.9 101.3 101.5 112.4 119.1 124.5	100. 0 114. 3 90. 7 96. 9 107. 5 112. 7 130. 8 131. 5 135. 6 148. 5	100. 0 115. 2 86. 2 81. 2 89. 0 91. 2 103. 6 126. 0 131. 9 140. 1	100. 0 119. 6 109. 8 119. 6 93. 5 78. 0 82. 4 92. 1 103. 2 115. 8	100. 0 105. 4 89. 0 94. 5 110. 4 110. 6 124. 2 127. 3 127. 4 133. 8	100. 0 92. 3 82. 0 87. 8 101. 9 106. 7 120. 8 128. 7 123. 6 131. 3	100. 0 106. 5 91. 9 94. 2 108. 4 108. 2 120. 8 122. 7 120. 9 129. 0	100. 0 107. 4 73. 5 87. 5 106. 6 101. 1 111. 7 111. 5 119. 6 117. 0	100. 0 125. 0 116. 7 127. 8 169. 5 186. 1 204. 9 226. 4 220. 8 230. 4	100, 0 108. 5 82. 7 88. 0 94. 8 104. 2	100. 9 120. 0 84. 4 82. 2 85. 5 117. 7 118. 2 88. 3 103. 0 101. 3	100. 0 109. 6 84. 2 85. 0 91. 5 103. 8 119. 4 110. 3 113. 9 124. 6	100. 0 98. 2 75. 3 97. 5 106. 8 101. 6	100. 0 100. 0 100. 0 90. 9 81. 8 85. 6 85. 6 82. 6 83. 3 87. 9	130. 0 111. 1 88. 9 77. 8 88. 9 78. 7 84. 3 88. 0 92. 6 110. 2
May	120. 7 123. 0 141. 8 163. 5 145. 5	132. 9 131. 7 126. 1 131. 1 163. 3 188. 8 169. 6 185. 1	124. 6 141. 3 129. 7 129. 7 147. 8 176. 8 147. 1 173. 9	112.0 113.0 114.1 108.7 116.3 127.2 119.6 153.3	138, 2 144, 1 125, 0 119, 9 122, 9 147, 1 134, 3 157, 8	135. 3 145. 5 125. 0 119. 2 128. 2 134. 6 128. 2 148. 7	137. 6 145. 6 123. 8 117. 8 114. 4 136. 5 122. 7 150. 4	102. 9 102. 9 97. 1 91. 9 110. 3 155. 1 146. 3 155. 9	222. 2 202. 8 194. 5 194. 5 233. 4 300. 0 261. 1 277. 8	127.3	107. 8 110. 0 77. 8 77. 8 142. 2 181. 1 130. 0 101. 1	125, 1 127, 1 122, 9 119, 8 139, 3 159, 3 131, 9 134, 2	113.6	72. 7 81. 8 81. 8 100. 0 90. 9 127. 3 100. 0 109. 0	100, 0 100, 0 100, 0 100, 0 122, 2 166, 7 133, 3 111, 1
January. February March	147.6 142.2 140.3 129.3 139.9	178. 3 146. 0 168. 3 154. 0 145. 3 134. 8 139. 1 147. 8 165. 8 208. 1 175. 8 182. 6	149. 3 136. 2 152. 9 145. 6 157. 2 136. 9 152. 9 147. 8 160. 8 161. 6 148. 5	132. 6 104. 4 117. 4 120. 7 115. 2 115. 2 142. 4 122. 8 118. 5 142. 4 131. 5	146. 8 125. 6 140. 7 134. 6 132. 1 141. 2 136. 9 126. 5 134. 0 163. 7 142. 5 137. 9	150. 6 133. 3 136. 5 127. 6 136. 5 135. 3 138. 5 123. 1 123. 1 153. 2 136. 5 117. 9	137. 5 117. 2 133. 2 131. 5 128. 2 145. 7 138. 3 125. 3 125. 3 147. 5 131. 5	144. 9 120. 6 136. 0 121. 3 114. 7 108. 1 102. 9 110. 3 141. 2 202. 2 165. 4 147. 8	236. 1 200. 0 238. 9 225. 0 216. 7 191. 7 211. 1 258. 4 338. 9 263. 9 250. 0	113.0 100.0 113.0 112.0 116.1 120.0 138.7 150.2 147.8 154.0 138.4 135.0	74. 4 66. 7 75. 5 77. 8 91. 1 97. 8 122. 2 132. 2 127. 8 125. 5 116. 7	122. 3 107. 4 120. 9 119. 8 126. 8 130. 0 154. 8 171. 8 169. 8 172. 3 151. 7	117.3 111.1 105.6 111.7 117.3 120.4 116.1 130.3 124.7	90. 9 72. 7 81. 8 100. 0 81. 8 100. 0 100. 0 100. 0 109. 1 109. 1	100. 0 77. 8 100. 0 100. 0 111. 1 100. 0 111. 1 111. 1 122. 2 166. 7 122. 2 111. 1
					11	1				61	l .	1	1	i '	1

RELATIVE DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE CENTERS—Continued

	[····						
	ļ		KANSAS	CITY D	STRICT				SAN	FRANCIS	CO DIST	RICT	
YEAR AND MONTH	Total, 14 centers	Denver	Kansas City, Mo.	Omaha	St. Joseph, Mo.	Okla- homa City	Tulsa	Total, 18 centers	Los Angeles	Port- land, Oreg.	San Fran- cisco	Seattle	Oak- land, Calif.
1919 average, millions of dolls.	1, 231	146	413	264	85	68	94	1,909	314	181	760	206	63
1919 monthly average 1920 monthly average 1921 monthly average 1922 monthly average 1922 monthly average 1923 monthly average 1924 monthly average 1925 monthly average 1926 monthly average 1927 monthly average 1927 monthly average		100. 0 139. 7 98. 6 102. 7 111. 6 112. 9 121. 5 123. 2 120. 4 125. 4	100.0 94.9 74.6 74.3 84.3 81.4 90.1 93.4 93.8 102.4	100.0 95.5 67.4 73.1 77.7 69.7 76.9 75.4 76.0 82.1	100. 0 97. 6 81. 1 69. 4 72. 9 71. 6 72. 7 73. 4 66. 9 70. 0	100. 0 153. 0 129. 4 119. 2 114. 7 112. 1 127. 4 139. 1 154. 6 167. 1	100. 0 131. 9 88. 3 105. 3 104. 3 89. 5 112. 6 136. 0 139. 2 147. 0	100.0 123.2 104.4 107.2 126.3 128.9 142.9 155.7 172.3 198.7	100.0 139.2 143.0 165.0 223.6 236.7 251.1 278.1 297.2 342.7	100.0 108.8 82.3 76.2 86.2 89.4 92.0 101.0 94.2 101.4	100. 0 124. 6 101. 9 94. 8 104. 0 107. 1 126. 1 138. 2 165. 0 201. 6	100.0 96.1 67.0 73.3 83.0 87.7 98.0 103.2 105.8 119.7	100.0 160.3 128.5 144.4 192.0 196.3 227.3 273.0 356.7 399.1
1928 May	107.0	123. 3 126. 0 120. 5 122. 6 129. 4 145. 2 128. 1 131. 5	94. 2 96. 8 113. 1 112. 1 105. 1 117. 7 99. 5 113. 1	80. 7 81. 4 83. 7 90. 9 89. 4 88. 6 75. 8 77. 7	69. 4 68. 2 65. 9 69. 4 70. 6 72. 9 65. 9 74. 1	157. 4 161. 8 157. 4 151. 5 163. 3 203. 0 167. 7 207. 4	135. 1 145. 8 133. 0 147. 9 151. 1 168. 1 155. 3 207. 5	218. 8 224. 1 177. 9 178. 5 192. 7 206. 1 190. 6 222. 5	371. 1 367. 2 300. 7 306. 4 325. 8 369. 5 357. 4 372. 6	111. 1 109. 9 102. 2 102. 2 102. 8 114. 9 116. 0 111. 1	235. 8 249. 9 171. 7 170. 8 194. 1 192. 7 194. 2 221, 1	126. 7 125. 7 113. 1 118. 4 116. 5 134. 9 108. 7 130. 1	401. 8 406. 3 369. 8 355. 8 369. 8 409. 4 349. 1 533. 2
January February March April May June July August September October November	102.3 117.9 116.0 112.7 115.3 140.4 128.1 116.7 135.8 124.5	136. 3 118. 5 148. 6 145. 2 135. 6 137. 7 149. 3 130. 1 166. 4 139. 7	107. 3 94. 4 111. 6 104. 8 105. 3 110. 4 145. 3 127. 1 112. 6 129. 5 118. 1	84. 1 75. 8 89. 4 86. 0 83. 0 83. 7 96. 6 98. 1 87. 5 98. 1 85. 2	74. 1 61. 2 69. 4 68. 2 65. 9 65. 9 78. 8 76. 4 65. 9 71. 7 62. 3	185. 3 175. 0 176. 5 186. 8 183. 9 216. 2 182. 4 189. 8 216. 2 208. 9	184. 1 147. 9 159. 6 172. 4 161. 7 169. 2 202. 2 170. 2 173. 4 197. 9 190. 5	209. 4 187. 4 223. 3 191. 5 197. 7 190. 3 196. 7 208. 3 197. 3 241. 6 209. 8	404. 2 371. 4 435. 1 383. 8 394. 9 365. 0 393. 3 366. 3 433. 2 394. 0	101. 1 97. 2 110. 5 98. 3 111. 6 105. 0 108. 8 115. 5 114. 9 121. 0	189. 1 172. 3 210. 6 164. 0 174. 0 167. 4 175. 9 191. 0 184. 2 244. 8	133. 0 112. 1 140. 3 128. 6 125. 7 125. 7 138. 3 141. 7 133. 0 159. 7 140. 3	407. 9 349. 1 417. 4 336. 6 372. 6 385. 6 385. 3 325. 3 388. 8 358. 3
1930 January February March	114. 5	121, 9	103. 9	84, 9		208. 9		186. 9	352. 9	96. 7			
April													
		DIS	TRICT T	OTALS-	SEASON	AL VARI	ATIONS	ELIMINA	ATED				
YEAR AND MONTH	U. S. total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Francis
1919 monthly average	106. 0 88. 7 97. 8 103. 3 109. 5 126. 7 135. 4 150. 0	100, 0 109, 5 101, 9 105, 4 117, 1 121, 1 136, 6 146, 0 158, 1 161, 3	98. 0 108. 3 128. 6	140.0	100, 6 116, 4 89, 8 94, 5 111, 1 109, 5 122, 0 127, 4 136, 7 141, 3	100.0 112.1 97.6 89.5 98.8 96.5 106.8 108.5 107.3 105.6	100. 0 115. 1 84. 4 85. 9 99. 9 105. 3 124. 8 128. 4 124. 1 123. 2	100.0 116.1 92.0 96.8 109.0 110.8 123.8 132.1 137.9 155.1	100. 0 105. 5 89. 1 94. 2 110. 3 110. 5 124. 1 127. 3 127. 3 133. 3	100. 0 108. 5 82. 9 87. 9 95. 0 103. 1 114. 4 105. 3 109. 5 117. 3	100. 0 109. 8 82. 1 84. 1 89. 7 87. 0 95. 4 100. 3 102. 1 108. 5	100. 0 118. 0 94. 3 97. 9 101. 1 101. 2 112. 4 119. 4 124. 5 134. 5	100. 123. 105. 107. 126. 129. 142. 156. 172. 199.
1928 May June July August September October November December	187.2	170. 9 157. 2 147. 5 162. 8 156. 7 158. 0 158. 1 157. 7	174.7 191.5 204.5 208.2 216.8	165.8	142. 2 145. 8 133. 2 136. 6 138. 9 152. 3 144. 1 147. 9	108. 8 111. 3 100. 8 99. 6 98. 0 103. 7 98. 7 104. 3	126. 3 122. 6 121. 0 125. 2 118. 7 120. 8 122. 2 126. 6	163. 3 158. 5 143. 5 150. 4 153. 5 157. 0 158. 4 170. 0	141. 0 142. 8 128. 6 131. 5 129. 4 134. 3 131. 8 140. 0	120. 5 122. 1 118. 0 114. 3 119. 3 130. 9 118. 2 114. 7	104. 5 107. 3 112. 4 110. 5 109. 3 115. 8 107. 4 116. 6	133. 1 137. 2 134. 7 136. 8 137. 0 138. 9 131. 6 141. 0	226. 225. 180. 183. 190. 189. 190.
January February March April May June July August September October November December	212.0 219.9 220.8 204.4 204.3 180.0 209.3 224.4 218.3 239.0 215.1	170. 7 175. 8 171. 9 171. 1 168. 2 156. 2 180. 1 211. 9 192. 0 199. 5 176. 6 151. 4	239. 6 203. 0 244. 5 267. 1 265. 9 291. 1	183. 0 168. 2 168. 3 174. 5 162. 7 159. 3 175. 5	160. 8 152. 7 159. 8 150. 4 142. 3 160. 0 158. 1 166. 2	109. 3 112. 5 112. 2 117. 3 108. 7 102. 3 108. 4 117. 5 106. 3 110. 9	132. 4 135. 4 133. 2 139. 1 130. 7 124. 6 133. 6 121. 9 128. 0 116. 5	170. 6 175. 6 176. 4 168. 3 167. 8 160. 0 176. 1 192. 6 182. 1 195. 5 182. 6 149. 6	136. 8 139. 1 140. 1 140. 1 134. 8 139. 9 140. 8 138. 7 141. 1 149. 5 139. 8 122. 7	112. 3 125. 9 120. 5 119. 3 121. 3 122. 3 145. 7 156. 9 133. 8 130. 1 128. 5	113. 2 116. 5 115. 5 121. 1 114. 2 115. 5 140. 0 125. 5 115. 2 128. 1 125. 0	144. 4 149. 6 151. 1 157. 0 150. 9 138. 0 156. 1 154. 3 145. 2 152. 4 140. 9 130. 8	211. 223. 218. 200. 204. 191. 199. 214. 195. 221. 201.

104.8

120.3

152.0

123.7

113.2

110.7

132.8

188.6

138.3

162.3

161.6

157.1

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

¹ Greenville, S. C., substituted for Charleston, S. C., since May, 1928.

TREND OF BUSINESS MOVEMENTS

The following table contains a summary of the monthly figures, designed to show the trend in important industrial and commercial movements. These data represent continuations of the figures presented in the latest semiannual number (February, 1930), in which monthly figures for 1928 and 1929 may be found, together with explanations as to the sources and exact extent of the figures quoted. The figures given below should always be read in connection with those explanations. Data on stocks, unfilled orders, etc., are given as of the end of the month referred to. For explanations or relative numbers, including base periods, see introduction on inside front cover.

TEXTILES Wool teceipts at Boston: Total	60 62 66	19, 444 16, 975 2, 469 18, 158 21, 450 49, 755 2 369, 642 2 163, 651 2 205, 991	19, 463 23, 066 59, 352	November 12, 714 8, 299 4, 415 19, 510 23, 021	December 15, 272 9, 344 5, 928	January 15, 828 6, 500 9, 328	Janu ary 19, 673 4, 532	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or de- erease (-) cumu- lative 1929 from 1928
teceipts at Boston: Total	35, 594 4, 882 17, 068 19, 015 52, 644 	16, 975 2, 469 18, 158 21, 450 49, 755 2 369, 642 2 163, 651	6, 931 5, 217 19, 463 23, 066 59, 352	8, 299 4, 415 19, 510	9, 344	6,500		+3.6	_ 10 5			
teceipts at Boston: Total	35, 594 4, 882 17, 068 19, 015 52, 644 	16, 975 2, 469 18, 158 21, 450 49, 755 2 369, 642 2 163, 651	6, 931 5, 217 19, 463 23, 066 59, 352	8, 299 4, 415 19, 510	9, 344	6,500		+3.6	10_5			Ϊ
Total thous of lbs. Domestic thous of lbs. Foreign thous of lbs. Foreign thous of lbs. In condition imported thous of lbs. Grease equivalent thous of lbs. Jonsumption by textile mills, grease equivalent thous of lbs. Locks, grease equivalent, end of quarter: Total thous of lbs. Held by manufacturers thous of lbs. Held by manufacturers thous of lbs. Held by manufacturers thous of lbs. Machinery activity, hourly: Looms per ct. of hours active. Narrow per ct. of hours active. Carpet and rug.per ct. of hours active. Sets of cards. per ct. of hours active. Sets of cards. per ct. of hours active. Sylnning spindles- Woolen per ct. of hours active. Worsteds per ct. of hours active.	35, 594 4, 882 17, 068 19, 015 52, 644 	16, 975 2, 469 18, 158 21, 450 49, 755 2 369, 642 2 163, 651	6, 931 5, 217 19, 463 23, 066 59, 352	8, 299 4, 415 19, 510	9, 344	6,500		+3.6	_ 10 5]		j
In condition importedthous, of lbs Grease equivalentthous, of lbs consumption by textile mills, grease equivalentthous, of lbs tocks, grease equivalent, end of quarter: Totalthous, of lbs Held by manufacturersthous, of lbs Held by dealersthous, of lbs Achinery activity, hourly: Looms- Wideper ct. of hours active. Narrowper ct. of hours active. Carpet and rug.per ct. of hours active. Carpet and rug.per ct. of hours active. Combsper ct. of hours active. Spinning spindles- Woolenper ct. of hours active. Worstedsper ct. of hours active.	19, 015 52, 644 	21, 450 49, 755 369, 642 2 163, 651	23, 066 59, 352			0,020	15, 141	-30. 4 +57. 4	-19. 5 +43. 4 -38. 4	210, 521	304, 499 206, 047 98, 452	-2.
onsumption by textile mills, grease equivalent	52, 644 	49, 755 2 369, 642 2 163, 651	59, 352	20, 021	20, 246 24, 565	26, 464 29, 423	36, 523 38, 835	+30.7 +19.8	-27.5 -24.2		280, 467 318, 167	+14. +14.
tocks, grease equivalent, end of quarter: Total	60 62 66	² 163, 651	,	46, 694	37, 802	43, 627	54, 031	+15.4	-19.3	()	586, 260	1
Looms— Wide————————————————————————————————————	62 66	ł			² 317, 978 ² 147, 434		3 309, 566 3 152, 394 3 157, 171	14. 0 9. 9 17. 2	+2.7 -3.3 +8.5			
Combsper ct. of hours active Spinning spindles— Woolenper ct. of hours active Worstedsper ct. of hours active rices:	80	64 63 66 83	65 66 71 85	59 65 65 74	54 53 55 63	53 50 51 63	69 63 65 84	-1. 9 -5. 7 -7. 3 0. 0	-21. 5 -25. 0			
Worstedsper ct. of hours active	93 77	94 77	91 78	82 69	72 61	79 62	83 82	+9. 7 +1. 6	-4. 8 -24. 4	}		
Paw territory fine commed della neally	69	70	72	65	57	55	69	-3. 5	-20.3			
Raw, territory, fine, scoured_dolls. per lb_Raw, Ohio and Pa. fleeces, 14 blood, combing, grease_dolls. per lb_	. 93	. 92	. 90	. 88	. 84 . 4 1	.81	1. 12 . 55	-3. 6 -7. 3	-27. 7 -30. 9		ł	1
Worsted yarndolls. per lb Women's dress goods, French	1.45	1.48	1.48	1. 43	1. 40	1. 38	1. 58	-1.4	-12.7			
serge, 39 indolls. per yd Suiting, 13-ozdolls. per yd	1. 901	. 98 1. 901	. 98 1. 901	. 98 1. 901	. 98 1. 901	. 98 1. 838	2. 008	-3.3	-8. 5			
Cotton												
teceipts into sightthous. of bales ports, unmanufacturedbales.	823 24, 793	2, 431 23, 974	4, 184 19, 815	2, 682 35, 502	2, 105 36, 190	840 51, 474	1, 126 54, 939	-60.1 +42.2	-25. 4 -6. 3			
exports, unmanufactured (excluding linters) bales consumption by textile mills bales	226, 018 558, 113	725, 876 545, 649		1, 048, 760 544, 150	910, 321 453, 892	728, 737 577, 235	788, 595 668, 286	-19.9 +27.2	-7.6 -13.6	8, 543, 955 6, 572, 070	7, 417, 734 7, 054, 308	-13. +7.
tocks, domestic, end of month: Total, mills and w'houses. thous. of bales Mills	2, 189 802 1, 387	4, 017 792 3, 225	6, 672 1, 360	7, 514 1, 672 5, 842	7, 759 1, 844 5, 915	7, 237 1, 830 5, 407	6, 383 1, 768 4, 615	-6.7 -0.8 -8.6	+13. 4 +3. 5 +17. 2			
tocks, world visible, end of month: Totalthous. of bales_ Americanthous. of bales	3, 458 1, 629	4, 381 2, 652	6, 677 4, 982	7, 453 5, 644	8, 098 5, 960	8, 059 5, 576	7, 607 5, 510	-0.5 -6.4	+5.9 +1.2			
rices: To producerdolls, per lbIn New York, middlingdolls, per lb	, 180 , 187	. 182 . 189	. 175 . 186	. 162 . 175	. 160 . 173	. 158	. 179 . 202	-1. 2 0. 0	-11.7			
Cotton Yarn	, 101	. 109	, 100	• 1111	. 113		, 202	y. 0	****			
fachinery activity of spindles: Active spindles. thousands. Total activity millions of hours. Activity per spindle hours. Ratio to capacity per cent.	30, 237 8, 130 234 97. 7	30, 038 7, 881 226 104. 0	9,004 258	29, 649 7, 812 226 100. 9	29, 070 6, 770 196 88. 2	29, 198 8, 173 236 100. 3	30, 753 9, 227 261 111, 0	+0.4 +20.7 +20.4 +13.7	-11. 4 -9. 6			
arded sa'es yarn: Production thous of lbs thous of lbs Unfilled orders, end of month thous, of lbs Unfilled orders, end of month thous, of lbs	19, 639 8, 185 32, 175	17, 122 7, 423	18, 199	22, 013 7, 842 37, 785	13, 364 9, 865 35, 776	14, 052 10, 584 34, 600	18, 311 8, 836 43, 246	+5.1 +7.3 -3.3	$-23.3 \\ +19.8$	214, 544	220, 432	+2.
rices: 22/1 cones, Bostondolls. per lb 40/1s, southern spinningdolls. per lb	. 349 . 510	.357 .510	. 359	.346 .491	.340 .494	. 323 . 500	. 382 . 510	−5.0 +1.2	-15.4	4		
Cotton Goods	. 010	.010	, 000	. 491	. 202		.010	1 1. 2	2.0	{		
Cotton textiles: Production thous. of yds. New orders thous. of yds. Shipments thous of yds. Stocks, end of month thous. of yds. Unfilled orders, end of month thous. of yds. ine cotton goods, production pieces.	307, 538 312, 635 326, 398 364, 000 355, 095	371, 485 287, 628 345, 043	265, 450 362, 657 395, 698	276, 377 431, 426 342, 232	243, 735 302, 934 214, 148 461, 013 431, 018 367, 706	323, 287 292, 034 331, 481 452, 819 391, 571 420, 190	342, 806 317, 078 345, 354 389, 195 440, 585 403, 300	+32.6 -3.6 +54.8 -1.8 -9.2 +14.3	-5.7 -7.9 -4.0 $+16.3$ -11.1	3, 589, 989 3, 507, 854	3, 420, 259 3, 458, 112	-4. -1.
otton cloth: Importsthous. of sq. yds Exportsthous, of sq. yds abric for tire manufacture	-00, TO (3,972		5,080	501,100	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			+4.2	3, 135, 814	5, 185, 352	+65.

² Quarter ending in month indicated.

² Quarter ending Dec. 31, 1928.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) or	CUMULATIV FROM JAN, 1 DEC,	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	December	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
TEXTILES—Continued		***										
Cotton Goods—Continued												
Elastic webbing, shipmentsthous. of dolls Prices:	1,399				1,149	1,444	1,412	+25.7	+2.3 -10.5	1	18, 154	
Print cloth, 64 x 60dolls. per yd Sheeting, browndolls. per yd Cotton goods (Fairchild) rel. to 1911–1913	. 075 . 086 160	. 086		. 087	. 069 . 084 154	. 068 . 083 152	. 076 . 090 165	-1.4 -1.2 -1.3	-7.8 -7.9			
Cotton Finishing						į į						
White, dyed and printed (outside mills): Billings, finished goodsthous. of yds. New orders, gray yardagethous. of yds. Shipments, finished goodscases. Stocks, finished goods, end of month.cases. Operating activityper ct. of capacity Unfilled orders, end of monthdays. Printed only (mills and outside):	75, 845 69, 168 45, 238 36, 320 60 4. 9	67, 991 43, 586 35, 062 61	78, 806 46, 173 37, 635 65 3. 9	57, 971 38, 616 37, 634 55 3. 8	61, 816 54, 172 36, 521 38, 220 50 3. 6	63, 457 71, 723 41, 793 35, 428 57 4. 3	81, 676 86, 302 53, 196 36, 374 65 5. 6	+2.7 +32.4 +14.4 -7.3 +14.0 +19.4	-2.6 -12.3 -23.2	891, 586 558, 750		+1.:
Production thous. of yds Stocks, end of month thous. of yds	69, 315 87, 918		82, 724 87, 446	64, 727 84, 924	57, 548 80, 825	60, 091 73, 239	82, 259 80, 212	+4.4 -9.4	-26.9 -8.7		902, 429	+13.
Silk Imports, raw thous. of lbs	9, 620		9,396		9, 164	7,346	9, 105	-19.8		88, 273	98,16	+11.
Deliveries (consumption) bales. Stocks, end of month: At warehouses bales.	59, 704 48, 408		57, 489 64, 129		44, 159 90, 772	57, 683 76, 264	57, 349 49, 943	+30.6 -16.0	+0.6 +52.7	1	•	ĮĮ.
At manufacturing plantsbales_ Silk machinery activity:	25, 854		28, 200		27, 017	29, 100	25, 778	+7.7	+12.9			11
Broad looms per cent of normal Narrow looms per cent of normal Spinning spindles per cent of normal.	101. 9 65. 5 65. 2	63.1	102. 6 58. 1 66. 9	57.4	98. 3 54. 1 64. 5	105, 6 59, 6 67, 0	94.7 48.0 61.0	+7.4 +10.2 +3.9	+11.5 +24.2 +9.8			
Prices: Raw, Japanese, 13-15, N. Y. dolls. per lb. Silk goods, compositedolls. per yd.	5. 073 1. 18				4. 580 1. 18	4. 630 1. 17	4. 998 1. 16	+1.1 -0.8	-7.4 +0.9			
Rayon				,								
thous. of lbs_stocks, bonded, end of month_thous. of lbs_Price, 150 denier, A grade, N. Y_dolls. per lb_	990 2, 747 1. 15	2, 451	2, 538	2, 536	1, 162 3, 082 1, 15	1, 159 3, 087 1, 15	1, 707 3, 036 1. 50	-0.3 +0.2 0.0	$ \begin{array}{r} -32.1 \\ +1.7 \\ -23.3 \end{array} $	12, 734	16, 406	+28.
Clothing												
Men's and boys' garments cut: Suitsthous, of garments. Separate trousersthous, of garments. Overcoatsthous, of garments.	2, 132 2, 353 763	2, 156	1, 670 2, 253 716	1,818	1, 807 1, 576 242	2,094 1,999 256	2, 440 2, 134 350	+15.9 +26.8 +5.8	-6.3	24, 852	24, 561 25, 917 5, 845	+4.
Overalls: Cutthous, of dozen garments_ Net shipments_thous, of dozen garments_ Unfilled orders,	416 408		471 391	384 312	4 291 4 275	362 326	374 311	+24. 4 +18. 5	-3.2 +4.8	4, 324 3, 794	4, 640 4, 181	+7. +10.
end of mothous. of dozen garments	144	172	170	157	4168	207	261	+23.2	-20.7			-
Hosiery Productionthous, of dozen pairs	3, 552	3, 586	4, 255	3, 770	4 3, 054	3, 398	3,611	+11.3	-5.9	41, 230	43,066	+4
Not shipments thous, of dozen pairs. Stocks, end of month thous, of dozen pairs. New orders thous, of dozen pairs. Unfilled orders, end of	3, 673 8, 356 3, 586	4,046 7,902	4, 427 7, 736	4,047 7,628			3, 241		-16.6 + 5.0	42, 160	43, 399	+2.
monththous, of dozen pairs_	4, 299	4, 160	4, 139	3, 736	4 3, 327	3,020	4, 237	-9.2	-28.7			
Knit Underwear Productionthous, of dozen garments	1, 152	1,098	1,414	1, 227	1,020	1,067	1,049	+4.6	+1.7	13, 171	14, 156	+7.
Net shipmentsthous, of dozen garments Stocks, end of mothous, of dozen garments	1, 382 1, 689	1,532	1,564	1,219	1,020 1,991 1,345	904 1,408	948 1, 271	-8.8 +4.7	-4.6	13,318	14, 267	+7.
New ordersthous, of dozen garments_ Unfilled orders, end	1, 149	1,459	1,405	1,150	4893	1,164	1,447	+30.3)	1	14, 369	+9.
of monththous, of dozen garments Burlaps and Fibers	1,870	1,783	1,620	1, 513	41,383	1,604	2,009	+16.0	-20.2			
Imports: Burlaps	74, 698 25, 048	33, 568 22, 210	42, 067 26, 613			73, 098 30, 262		+59.8 +21.3	+28.0 -11.3	619, 988 312, 853	643, 595 332, 003	+3. +6.
Pyroxylin-Coated Textiles												
Pyroxylin spreadthous. of lbs Shipments filledthous. of linear yards Unfilled orders, end mo.thous. of linear yards	4, 294 3, 540 2, 468	3, 812 3, 315 2, 599	3, 875 3, 529 2, 403	2, 783 2, 516 2, 045	2, 460 2, 050 1, 747	3, 098 2, 786 2, 373	5, 389 4, 303 4, 286	+25, 9 +35, 9 +35, 8	-42.5 -35.3 -44.6	47, 995	55, 060 46, 395	
Cotton Mill Dividends (Quarterly)												
Fall River millsthous. of dollars_ New Bedford millsthous. of dollars_		² 226 ² 234			² 198 ² 258		⁸ 225 ⁸ 259	-12.4 +10.3	-12.0 -0.4		884 1, 021	
Fur												
lales by dealersthous, of dollars Quarter ending in month i	11, 335	11, 434	8, 187		2, 262	2, 968 Dec. 31, 199	10, 188	+31.2		134,088 evised.	125, 151	-6.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) or	CUMULATI FROM JAN. 1 DEC.	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
TEXTILES—Continued												
Buttons Fresh-water pearl buttons: Production ratio to capacity Stocks, end of month thous, of gross Imports:	45. 5 10, 951	46. 6 10, 836	48. 1 10, 686	48. 4 10, 635	48. 7 10, 694	42. 3 9, 700	4 46. 4 11, 306	-13. 1 -9. 3	-8.8 -14.2			
Buttons— Product of Philippines_thous, of gross_All otherthous, of gross_Shells—	52 9	64 26	66 6	59 6	64 17	64 261	30 36	0.0	$+113.3 \\ +625.0$	922 127	671 325	-27.5 +155.5
Mother of pearlthous, of pounds_ All otherthous, of pounds_ Taqua nutsthous, of pounds_	632 212 3,053	1, 073 116 2, 264		1, 355 7, 042 2, 013	1, 225 124 1, 667	866 32 1, 149	283	-29.3 -74.2 -31.1	-88.7	6, 517 2, 386 23, 325	8, 913 8, 781 26, 633	+268.6
IRON AND STEEL						1						
Iron Manganese ore, importsthous. of long tons	33	13	25	24	15	38	15	+153.3	+153.3	208	323	+55.
Importsthous, of long tons Shipments from mines thous, of long tons Receipts:	298 10, 807	247 9, 547	270 7, 989	269 3, 951	286 9	293 None.	180 None.	+2.4 0.0	+62.8		3, 140 65, 213	+28.
Lake Erie ports and furnaces thous, of long tons Other ports thous, of long tons Consumption thous, of long tons.	7, 518 3, 284 5, 779	6, 619 2, 710 5, 362	6, 052 2, 267 5, 366	3, 119 1, 661 4, 701	14 None 4,076	None. None. 4, 101	None. None. 5, 195	0. 0 0. 0 +0. 6	0.0		45, 760 18, 768 63, 645	+14.
Stocks, end of month: Totalthous. of long tons At furnacesthous. of long tons On Lake Erie docksthous. of long tons	33, 831 28, 720 5, 111	38, 125 32, 360 5, 765	41, 135 34, 770 6, 365	41, 500 35, 010	37, 646 31, 503 6, 143	33, 528 27, 674 5, 854	30, 189 24, 878 5, 311	-10.9 -12.2 -4.7	+11.1		·	
Pig-iron production: Total, United Statesthous. of long tons Merchant furnacesthous. of long tons Canadathous. of long tous	3, 756 690 113	3, 498 635 99	3, 588 685 91	3, 181 683 87	2, 837 724 83	2, 827 613 87	3, 443 791 88	-0.4 -15.3 +4.8	-17.9 -22.5 -1.1		42, 286 8, 763 1, 091	+14.
Furnaces in blast, end of month: Furnaceslong tons per day. Ohio gray-iron foundries:	210 119, 130	205 116, 405	203 113, 600	177 98, 450	157 88, 250	173 96, 755	202 111, 985	+10. 2 +9. 6				
Meltings— Actual long tons Normal long tons Ratio to normalper cent of normal. Stocks, end of monthper cent of normal.	18, 670 17, 104 109, 1	19, 595 102, 5 130	23, 855 20, 627 115. 6	17, 196 19, 105 90. 0 109	13, 782 18, 726 73. 5 114	15, 419 18, 693 82, 4 129	19, 710 18, 917 104, 2 126	+11. 9 -0. 2 +12. 1 +9. 3	-1.2 -20.9 $+2.4$	197, 329	234, 563	+18.
Receipts. per cent of normal. Malleable castings: Production. short tons. Operating activity per ct. of capacity. Shipments. short tons. New orders short tons. Wholesale prices:	68, 651 70, 0 69, 240 61, 982	63, 049		4 46, 606 4 47, 6 4 46, 701 4 40, 316	73 4 48, 202 4 46, 3 4 50, 013 4 44, 589	44, 080 56, 2 44, 218 43, 180	77. 7	+20.5 -8.6 $+21.4$ -11.6 -3.2	-39. 7 -27. 7 -42. 7	779, 477 752, 733	827, 094 820, 715 786, 688	+6. +9. +3.
Foundry, No. 2, northerndolls. per long ton_ Basic (valley furnace)_dolls. per long ton_ Composite pig irondolls. per long ton_	20. 26 18. 50 19. 18	20. 26 18. 50 19. 00	20, 26 18, 50 19, 03	20, 26 18, 50 19, 10	20. 26 18. 50 19. 10	20. 26 18. 50 19. 08	19. 26 17. 50 19. 05	0. 0 0. 0 0. 1	+5.7			+26. +18.
Cast-Iron Boilers and Radiators				!								
Round boilers: 1 thous of lbs. Production	12, 189 15, 092 13, 916 81, 162	18, 263	15, 407 23, 487 19, 583 66, 509	11, 430 12, 162 10, 652 66, 476	8, 972 10, 453 9, 184 65, 855	10, 356 7, 304 6, 366 67, 836		+15. 4 -30. 1 -30. 7 +3. 0	-24.0 -22.6	157, 694	136, 555 145, 955 132, 329	10. □
Square boilers: Production thous. of lbs. Production thous. of lbs. Shipments thous. of lbs. New orders: thous. of lbs. Stocks, end of month. thous. of lbs.	19, 014 28, 757 27, 242 159, 661	20, 766 34, 671 36, 481 145, 716	32, 819 43, 185 35, 715 135, 030	23, 521 24, 382 23, 109 134, 117	17, 398 20, 010 17, 972 126, 800	20, 033 13, 836 13, 345 132, 837		+15.1 -30.9 -25.7 +4.8	-15. 9	335, 734 337, 876	273, 657 262, 233 254, 450	-19. -21. -24.
Radiators: Production _thous. sq. ft. heating surface _ Shipments _thous. sq. ft. heating surface _ New orders _thous. sq. ft. heating surface _ Stocks, end of	10, 365 13, 665 14, 267	9, 545 14, 980 15, 680	12, 299 18, 214 16, 148	8, 634 12, 501 12, 648	6, 821 9, 905 8, 681	9, 253 6, 047 6, 276	14, 512 9, 407 8, 998	+35. 7 -39. 0 -27. 7	-35.7	161, 489	127, 126 127, 402 129, 439	-21.1
monththous. sq. ft. heating surfaceGas-fired boilers:	65, 792	59, 794	53, 715	49, 500	46, 371		52, 599	+7.2				
Shipments dollars. Shipments thous. B. t. u. Production thous. B. t. u. Stocks, end of month thous. B. t. u.	486, 659 365, 280 235, 877 951, 598	549, 424 459, 124 306, 158 885, 625	522, 400 427, 629 317, 234 808, 223	273, 092 241, 285 187, 095 764, 098	188, 063 164, 635 87, 949 702, 144	100, 030 215, 939	202, 075	$ \begin{array}{r} -37.0 \\ -39.2 \\ +145.5 \\ +20.4 \end{array} $	+6.9	2, 153, 535 1, 943, 973	3, 558, 711 2, 838, 901 2, 870, 059	+31.
Crude Steel												
Steel ingots, production: United States, totalthous. of long tons Ratio to capacityper cent Canadathous. of long tons U. S. Steel Corporation:	4, 927 93 120	4, 511 92 99	4, 512 85 116	3, 513 69 94	2, 896 59 82	3, 786 72 115	4, 490 85 116	+30.7 +22.0 +40.2	-15.3		54, 164 1, 379	
Unfilled orders, end of month thous, of long tons_ Earnings thous, of dolls_ 4 Revised.	3, 658 24, 687	3, 903 21, 184	4, 087 22, 066	4, 125 18, 367	4, 417 15, 952	4, 469	4, 109 18, 759	+1.2	+8.8	193, 202	258, 660	+33.

The cumulatives shown are through De-			1929		I	1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. DEC	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
IRON AND STEEL—Continued												
Crude Steel—Continued												
Steel eastings: Production—												
Total short tons	118, 458 81	73	82	75			64	-4.5 -4.1	+9.4	1, 021, 872	1, 350, 138	
Ratio to capacityper cent_ Railroad specialtiesshort tons_ Miscellaneousshort tons_	50, 548 67, 910	44, 609 61, 659	50, 011 69, 558			41, 465 60, 668		+11.6 -13.0			576, 007 774, 131	+55. +19.
New orders— Total————short tons—	98, 697	85, 859	134, 313			97, 223		+2.7	-21.8		1, 337, 877	+33.
Ratio to capacityper cent	69 35, 906 62, 791	59 33, 463 52, 396		41,350	65 41, 179 53, 474	39, 281	64, 809	+3.1 -4.6 +8.4	-39.4	389, 863	601, 996 735, 881	
Production— Totalnet tons_ Ratio to capacityper cent Stocks, end of month—	366, 734 109. 7	302, 490 97. 7	319, 660 95. 3		181, 916 60. 0	291, 529 77. 6		+60.3 +29.3	-25. 5 -29. 4	3, 947, 953	3, 887, 377	-1.
Unsold net tons.	143, 323 34, 436	154, 928 43, 886	169, 390 63, 174	71,680	173, 619 72, 611	191, 532 73, 948	63, 739	+1.8	+16.0			
Shipments net tons_ New orders net tons_ Unfilled orders, end of month net tons_ Steel barrels:	365, 649 282, 107 570, 613	301, 330 274, 568 522, 803	291, 135 258, 810 478, 038	207, 200 134, 391 395, 696	178, 575 234, 599 443, 127	241, 677 382, 122 558, 412	362, 229 438, 390 652, 602	+35.3 +62.9 +26.0	-12.8 -14.4	3, 794, 626	3, 799, 780	+0.
Productionbarrels_ Ratio to capacityper cent Shipmentsbarrels_	806, 574 65. 2 809, 860	55. 4	629, 976 52. 5 638, 681		624, 365 54. 7 618, 003	582, 407 48. 7 574, 763	48.4	$ \begin{array}{c c} -6.7 \\ -11.0 \\ -7.0 \end{array} $	+0.6	7, 397, 785		
Stocks, end of month barrels. Unfilled orders, end of month barrels. Track work, production short tons. Iron, steel, and heavy hardware	56, 700 1, 205, 659 14, 818	64, 917 1, 071, 150	56, 212 901, 621	61, 576 993, 601	67, 938 1, 338, 933	75, 582 1, 408, 511	56, 376 1, 661, 710	+11.3 +5.2 +9.3	+34. 1 -15. 2		162, 115	
salesrel. to Jan., 1921 Lock washers, shipmentsthous, of dolls_	240 320	229 298	243 263	207 159	175	287	192 290	+64.6	+74.8	3, 128	3, 706	+18.
Wholesale prices: Steel billets, Bessemerdolls. per long ton Iron and steel compdolls. per long ton Structural steel beamsdolls. per 100 lbs Composite finished steel.dolls. per 100 lbs	35. 00 36. 57 1. 95	35. 00 36. 50 1. 95	1. 90	36. 04 1. 90	35. 95 1. 90	35. 64 1. 90	36. 24 1. 90	-1.7 -0.9 0.0	-1.7 0.0			
Composite finished steel_dolls. per 100 lbs Fabricated Steel Products	2. 55	2. 54	2. 51	2. 50	2. 50	2.46	2, 55	-1.6	-3.5			
Structural steel, fabricated:												
New orders (prorated) short tons. Ratio to capacity per cent. Shipments (prorated) short tons. Ratio to capacity per cent.	365, 750 95 4 311, 850 4 81	315, 700 82 315, 700 82	4 89 4 350, 350	59	4 83	257, 950	71	-18. 1 -18. 1 -6. 9 -6. 9	-8.2			+16. +13.
Steel plate, fabricated, new orders: Total Ratio to capacity per cent	39, 702	41, 653	32, 099		22, 535		4 32, 805	+120.3	+51.3	532, 810	512, 065	-3.
Coll-storage tanks	51 11, 150 46, 747	53 15, 189 40, 889 1, 910	39 8, 786 39, 296	9, 033 27, 648	30 3, 669 23, 705 4 1, 029	7, 432 35, 845	11, 055 50, 276	+120.3 +110.0 +102.6 +51.2	-28.7	242, 763 504, 908 19, 672	138, 850 564, 019 18, 526	+11.
Areathous. of sq. ft_ Steel furniture:	1, 782	1, 957	1, 712 1, 871	1, 160	4 880	1, 082		+23.0	-13.6	17, 685	19, 468	-5. +10.
Business group— Shipments————thous. of dolls— New orders———thous. of dolls— Unfilled orders, end mothous. of dolls—	2, 482 2, 418 2, 172	2,314 2,294 2,054	2, 984 2, 843 2, 060	2, 631 2, 901 2, 345	2, 782 2, 583 2, 166		3, 661 3, 945 2, 593			35, 043 35, 974	34, 039 34, 037	-2. -5.
Shelving— Shipmentsthous. of dolls_ New ordersthous. of dolls_ Unfilled orders, end mo_thous. of dolls_	890 931 1,041	843 880 1,079	928	801	856 735 824		902 1, 100 819			9, 297 9, 601	11, 322 11, 554	
Iron and steel: Exportslong tons Importslong tons	242, 856 61, 547	222, 408 46, 346				225, 090 34, 710		+4.6 -11.1	-17. 9 -23. 8		3, 032, 352 567, 309	+5. -3.
Baths:	101 050	77 074	65 500	50 415	40.715	40.007	00.415	10.0	41.0		007 050	10
Shipments	101, 050 152, 349 116, 532 74, 973	77, 374 152, 107 58, 574 55, 984	65, 530 162, 465 56, 855 47, 525	166, 397 46, 374	46, 715 163, 728 52, 592 40, 568	32,558	188, 738	-12.3 +6.0 -38.1 -26.6	-8.1 -51.4	1, 116, 352	937, 058	-16. -21.
Lavatories: Shipments pieces Stocks, end of month pieces New orders pieces Sinks:	125, 920 192, 213 146, 983	96, 210 172, 442 72, 088	176, 319	173, 570		53, 082 163, 338 40, 835	230, 527	-19. 9 +5. 2 -32. 6	-29.1	1, 265, 220 1, 369, 278	1, 116, 369 1, 135, 487	-11.: -17.
Shipments pieces. Stocks, end of month pieces. New orders pieces.	120, 018 254, 210 142, 536	103, 097 233, 532 83, 672	93, 446 243, 409 78, 600	248,685	234, 572	58, 512 251, 749 50, 158	93, 321 276, 037 86, 866	-11.4 +7.3 -9.9	-8.8		1, 155, 787 1, 178, 915	
Miscellaneous sanitary ware: Shipmentspieces Stocks, end of monthpieces New orderspiecespieces	48, 554 126, 626 53, 402	37, 205 119, 359 28, 924	123, 220	28, 557 123, 138 27, 606	28, 662 123, 347 28, 287	24, 688 116, 519 24, 482	137,588	-13. 9 -5. 5 -13. 5	-15.3		455, 914 467, 012	
Small ware (all except baths): Unfilled orders, end of monthpieces_ Enameled sheet-metal ware: Shipmentsdozen pieces_	259, 787 385, 162	207, 826 338, 169	1		· .		1	ll .			4, 504, 102	+7.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) or	CUMULATI FROM JAN. DEC	i through	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease () cumu- lative 1929 from 1928
IRON AND STEEL—Continued Machinery												
Water softeners units Water systems, shipments units	1, 581 14, 200	1, 484 12, 600	1, 450 12, 254		831 47, 237	1, 240 8, 296	1, 080 7, 935	+49. 2 +14. 6	+14.8 +4.5	16, 189 117, 891	15, 963 127, 433	-1.4 +8.1
Pumps: Domestic shipments— Pitcher, hands, etc units— Power, horizontal type units	52, 451 2, 902	48, 039 2, 262			37, 849 1, 601	40, 389 1, 449	50, 723 2, 265	+6.7 -9.5			527, 227 28, 547	-4.4 +7.8
Power, horizontal typeunits. Steam, power, and centrifugal— New ordersthous. of dolls. Shipmentsthous. of dolls. Unfilled orders, end mo thous of dolls. Agricultural machinery and equipments	1, 819 1, 978 4, 115	1, 628 1, 774	1, 868 1, 934	1, 533 1, 535	1, 580 1, 763 3, 787	1, 543 1, 394	1, 695 1, 481	-2.3 -20.9 +1.5	-9.0 -5.9	17, 998	21, 172 20, 841	+17. 6
Shipments	229. 3 218. 4 285. 7 156. 4	152, 8 275, 9	134.8	367. 1	4 168. 2 4 117. 6 4 427. 9 4 171. 3	203. 7 159. 8 428. 8 177. 8	4 135. 5 4 2 6 3. 4	+21. 1 +35. 9 +0. 2 +3. 8	i +17 9i			Į F
New ordersrel. to 1922-24_ Shipmentsrel. to 1922-24_ Unfilled orders, end of morel. to 1922-24_	229. 5 150. 8 441. 1	176.8	245. 3 214. 1 492. 5	152. 2	208. 0 201. 9 473. 2		180. 5 177. 3 336. 1	-23. 0 +10. 7 -16. 4	+26.1			
Stokers, mechanical, sales: Quantity	199 54, 9 29		178 56, 108		79 4 4, 976	54 13, 607	97 42, 39 2	-31. 6 -69. 7	-44.3 -67.9	1, 490 508, 688		+15.2 +17.8
New orders rel. to 1922-24 Shipments rel. to 1922-24 Unfilled orders, end of morrel, to 1922-24 Electric hoists: New orders—	298 277 693	241 257 709	322 315 697	251	166 243 561	182 183 565	292 255 676	+9.6 -24.7 +0.7	-37. 7 -28. 2 -16. 4			
Quantity number. Value dollars. Shipments dollars. Electric overhead cranes:	437 264, 888 339, 881			412 214, 661 224, 647	392 227, 897 198, 500	369 194, 832 220, 678	533 253, 194 213, 663	-5.9 -14.5 +11.2		5, 245 2, 417, 970 2, 263, 935	6, 156 3, 102, 163 2, 995, 340	+26. 7 +32. 3
Shipments thous of dolls. New orders thous of dolls. Unfilled orders, end of mo_thous of dolls. Woodworking machinery:	1, 060 1, 165 5, 193		1, 322 1, 142 4, 699	1, 405	1, 380 734 4, 429	977 406 3, 765	852 1, 383 2, 547	-29. 2 -44. 7 -15. 0	+14.7 -70.6 +47.8	7, 126 7, 598	12, 290 14, 619	
New orders thous, of dolls. Cancellations thous of dolls. Unfilled orders, end of mothous, of dolls. Shipments thous, of dolls. Shipments number of machines.	1, 748 25 2, 130 1, 974 1, 386	15	1, 461 1, 568		1, 013 20 1, 208 1, 074 754	1, 111 12 1, 347 967 759	1, 949 50 2, 367 1, 420 998	+9.7 -40.0 +11.5 -10.0 +0.7	-43.1	16, 961 424 16, 216 12, 022	18, 717 393 19, 122 13, 486	
Electric industrial trucks and tractors: Shipments, domestic— Totalnumber of vehicles Exportsnumber of vehicles	144 10	151 7	134 33	110 8	124 27	123 16	133 19	0.8 40.7	-7.5 -15.8	1, 321 145	1, 859 160	+40. 7 +10. 3
Fire-extinguishing equipment, shipments: Motor vehiclesnumber_ Hand typesnumber_ Oil burners:	116 63, 80 6		118 47, 840		130 34, 330	91 43, 939	90 45, 608	-30.0 +28.0	+1.1 -3.7	1, 315 557, 317	1, 370 608, 849	+4.2 +9.2
Shipments, totalnumber of burners Stocks, end of monumber of burners New ordersnumber of burners Unfilled orders,	10, 663 8, 403 11, 081	13, 723 7, 900 12, 633		6, 486	4, 780 5, 938 3, 933	3, 594 5, 445 3, 429	3, 037 4, 494 3, 508	-24.8 -8.3 -12.8	+18.3 +21.2 -2.3		81, 746 81, 814	
end of monumber of burners. Patents issued: Total, all classesnumber. Agricultural implementsnumber. Internal-combustion enginesnumber.	5, 099 3, 533 51 55	4, 009 3, 081 51 14	4 2, 318 4, 462 63 86	1, 766 3, 519 43 40	919 4, 634 49 62	3. 163 40	1, 322 3, 835 47 51	-12.3 -31.7 -18.4 -32.3	-39.0 -17.5 -14.9 -17.6	42, 375 496	45, 321 615 671	+7.0 +24.0 +4.8
NONFERBOUS METALS												
Copper Production: Mines	78, 885 91, 735 148, 648 173, 430 96, 970 36, 811	79, 402 92, 538 134, 343 174, 135 98, 043 42, 978	82, 575 97, 405 152, 840 175, 360 105, 729 44, 502	75, 934 94, 861 145, 376 170, 585 68, 979 27, 524	4 74, 772 89, 789 138, 203 165, 344 58, 150	67, 602 83, 945 132, 374 153, 746 69, 932 24, 808	86, 325 101, 151 154, 472 178, 783 100, 135 52, 523	-9.6 -6.5 -4.2 -7.0 +20.3 -13.9	-21.7 -17.0 -14.3 -14.0 -30.2 -52.8	909, 051 1, 060, 094 1, 627, 849 1, 916, 471 983, 460 550, 746	1, 006, 203 1, 179, 269 1, 811, 857 2, 136, 021 1, 119, 409 484, 305	+10.7 +11.2 +11.3 +11.5 +13.8 -12.1
Exportsshort tons_ Stocks (North and South America), end mo: Refinedshort tons. Blistershort tons. Wholesale price, electrolyticdolls. per lb	101, 372 241, 678 . 1778	94, 751 253, 519	88, 401 254, 786 . 1778	126, 919 258, 192 . 1778	28, 807 171, 320 4 268, 406 . 1778	203, 404 269, 815 . 1778	62, 749 245, 210 . 1660	+18.7 +0.5 0.0	+224. 2			
## Wire Cloth Production thous. of sq. ft Shipments thous. of sq. ft Stocks, end of month thous. of sq. ft New orders thous. of sq. ft Unfilled orders, end of mo thous. of sq. ft Make and hold orders, end of month thous. of sq. ft	498 434 978 302 211	373 394 928 333 242	422 417 933 454 257	441 367 973 504 302	437 377 1, 021 336 402	486 437 1,051 435 246	461 412 1,064 376 302	+11. 2 +15. 9 +2. 9 +29. 5 -38. 8 -11. 2	+5. 4 +6. 1 -1. 2 +15. 7 -18. 5	5, 226 4, 909 4, 719	5, 455 4, 969 4, 985	+4.4 +1.2 +5.
Tin	200	200	100	310	040	700	200		J. 2		-	
Deliveries (consumption)long tons_ Stocks, end of month: World visible supplylong tons_ United Stateslong tons_	7, 185 26, 400 2, 858	8, 120 24, 556 2, 479	6, 515 25, 580 2, 720	6, 595 25, 171 2, 050	5, 740 28, 140 2, 820	5, 815 29, 032 3, 081	8, 795 24, 237 2, 611	+1.3 +3.2 +9.3	-33. 9 +19. 8 +18. 0	78, 865	89, 110	+13.0
Imports. long tons Wholesale price pig tindolls. per lb 4 Revised.	9, 737 . 4665	7, 712 . 4538	6, 201 . 4235	5, 818 . 4022	5, 253 . 3979	7, 079 . 3891	9, 498 . 4916	+34. 8 -2. 2	-25.5	77, 970	89, 390	+14.6

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. 1 DEC.	THROUGH	Per ct. in- creaso (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jar., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or de- crease (-) eumu- lative 1929 from 1928
NONFERROS METALS—Continued Zine												
Retorts in operation, end of monthnumber Per cent of total	58, 800 49, 2 55, 290 47, 833 63, 127 42, 876	68, 828 57. 4 53, 285 53, 362 45, 084 43, 832	48, 810 44, 622	42, 418 57, 943	39, 641 47, 637	58, 849 52. 8 51, 133 87, 933 44, 725 29, 313	45, 418 48, 777 27, 309	+2.6 +12.1 +5.2 +13.8 +12.8 -38.5	-7. 1 -3. 1 +2. 9 +93. 6 -8. 3 +7. 3	619, 595 	628, 062	
Price, slab, prime westerndolls. per lb	. 0680	. 0680	. 0674	. 0624	. 0567	, 0523	. 0635	-7.8	-17.6			
Productionshort tons. Ore shipments: Joplin districtshort tons. Witahshort tons. Receipts in U. S. oreshort tons. Stocks, U. S. and Mexico, end moshort tons. Price, pig, desilverized, N. Ydolls. per lb.	53, 316 7, 808 92, 668 54, 365 175, 641 . 0675	56, 807 7, 461 75, 927 54, 623 168, 707 . 0689	61, 813 7, 588 77, 693 58, 364 167, 192 . 0687	59, 760 8, 850 89, 545 51, 674 161, 671 • 0629	6, 434 76, 421	48, 373 3, 414 87, 569 47, 862 149, 403 . 0625	58, 607 6, 097 71, 412 53, 881 156, 182 . 0665	-12.1 -46.9 +14.6 -10.2 -1.4 0.0	-11. 2 -4. 3	638, 337	691, 978 100, 399 971, 420 658, 340	+13.8
Other Metal Products										i.		
Babbitt metal, consumption: Total apparentthous. of lbs Direct by producersthous. of lbs Sale to consumersthous. of lbs Pails and tubs, galvanized:	5, 433 1, 435 3, 997	5, 225 1, 337 3, 888	5, 519 1, 512 4, 007		949	4, 438 889 3, 549	6, 093 1, 217 4, 876	+32.8 -6.3 +48.2	-27.0	59, 677 12, 338 47, 339	65, 135 14, 976 50, 159	+21.4
Production dozens. Shipments dozens. Other galvanized ware: Production dozens.	107, 004 108, 461 53, 250	113, 698 120, 297 46, 594	135, 197	90, 684	107, 733	145, 588 154, 731 33, 982		+28.9 +43.6 +2.6	-6.6	1, 795, 625 1, 763, 401 515, 428	1, 624, 811 1, 647, 272 541, 212	-9.4 -6.6 +5.0
Shipmentsdozens_	54, 860	52, 970	49, 511	30, 123		29, 165		+14.6		481, 421	516, 359	+7.3
Electrical Equipment Electrical mfrs., new orders												
(quarterly) thous, of dolls_ Electrical porcelain, shipments: Standard dollars_ Special dollars_	97, 631 165, 385	2 338, 170 135, 487 171, 668	123, 222		58, 354		3 282, 226 141, 065 128, 299	-14.6		1, 029, 722 1, 091, 391 1, 553, 294	1, 290, 194 1, 333, 417 1, 886, 403	+25.3 +22.5 +21.4
Laminated phenolic products, shipmentsdollars Motors (direct current):	1, 915, 381	1, 514, 902	1, 644, 570	772, 482	617, 565		1, 247, 653			12, 282, 199	16, 460, 148	+34.
New orders	1, 082, 845 853, 961 169, 384	181, 078	1, 089, 590 175, 077	130, 408	907, 048 146, 189	159, 869		+9.4	+2.8	9, 278, 885 1, 626, 662	2, 036, 738	+19. +12. +25.
Outdoor. dollars. Outlet boxes and covers, shipments. pieces. Vulcanized fiber: Shipments, total thous. of dolls.	605, 273 2, 719, 688 1, 029	883	2, 850, 984 942	2, 036, 381 718	1, 465, 610 599	2, 448, 375	3, 273, 963 767	+27. 2 +67. 1	+18.7	4, 411, 129 32, 795, 023 7, 450	5, 442, 658 30, 385, 601 9, 856	+23. -7. +32.
Consumptionthous. of lbs_ Industrial reflectors, salesunits_ Power cables, shipmentsthous. of ft_ Flexible cords:	3, 803 157, 473 2, 411	131, 720 2, 676	179, 068 3, 288	137, 942 2, 297	132, 476 2, 087	130, 369	1, 995	1	-12.5	(40, 109 1, 695, 310 27, 203	+10. +13.
Shipments thous of tt_Stocks, end of month thous of ft_Welding sets, new orders: Single operator units	50, \$38 57, 202 296	45, 422 55, 980 341	52, 459	48, 305	58, 239	256	41, 757	+3.6		527, 251 	552, 674 	
Multiple operatorunits Panel boards and cabinets, shipments (quarterly)thous. of dolls Nonmetallic conduits, shipmentsthous. of ft	6, 364	9 ² 1, 650 6, 954	8, 015	6, 180	² 1, 735		11 8 1, 564 7, 475	-88.9 +5.2	-91.0	1	90 5, 865 80, 235	+16.
Electric furnaces, new orders kilowatts Manufactured mica: Shipments thous. of dolls Unfilled orders, end of mo_thous. of dolls.	5, 114 274 275	4, 105 263 235	7, 208 274	3, 218 179	2, 991 149	8, 630 227	10, 769 285	+188.5 +52.3 -2.2	-20.4	64, 132	86, 988 3, 149	+35.0
Delinquent accounts, electrical trade: Amountdollars	174, 438	128, 059	167, 129	172, 495	184, 652	240, 428	4 124, 671	+30.2	+92.8			
Delinquent firmsnumber AUTOMOBILES	1, 176	1, 117	1, 392	1, 152	1, 170	1,486	4 1, 037	+27.0	+43.3			
Production: United States—	400,000	4.5 0.0	000 015	017 770	4.100.004	070 000	401.007			4 050 550	F 9F0 414	
Total number of cars Passenger cars number of cars Taxicabs number of cars Trucks number of cars Canada—	498, 628 441, 942 1, 040 55, 646	364, 786	320, 327 868	169, 282 1, 646	4 91, 235 1, 483	234, 527 572	347, 382 2, 064	+127.6 $+157.1$ -61.4 $+39.2$	-32.5 -72.3	3, 821, 136 6, 713	5, 358, 414 4, 586, 021 17, 589 754, 804	+20. +162.
Total number of cars. Passenger cars number of cars. Trucks number of cars. Exports (assembled):	14, 214 11, 037 3, 177	13, 817 10, 710 3, 107	8,975	7, 137	4,426	8,856	17, 164	+89. 0 +100. 1 +43. 3	-48.4	196, 741	263, 295 207, 498 55, 797	+5.
From United States— Totalnumber of cars_ Passenger carsnumber of cars_ Trucksnumber of cars_ From Canada—	42, 829 22, 123 20, 706	33, 919 20, 934 12, 985	20, 931	13, 929	32, 115 13, 830 18, 285	15, 293	37, 665 24, 631 13, 034	$\begin{array}{c c} -12.3 \\ +10.6 \\ -29.6 \end{array}$	-37.9	369, 073	547, 097 342, 472 204, 625	+7. -7. +47.
Total number of cars Passenger cars number of cars Trucks number of cars	7, 629 4, 901 2, 728	4, 293 2, 348	5, 635	3, 522	3,015	1, 317	5, 640	-56.3	-76.6	55, 972	64, 863	+27. +15. +55.

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

⁴ Revised.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. DEC	1 THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (—) cumu- lative 1929 from 1928
AUTOMOBILES—Continued												
Shipments (General Motors Co.): To dealersnumber of cars	168, 185		122, 104		40, 222		127, 580			1, 810, 806		
To usersnumber of cars	173, 884 193	145, 171 186		90, 871	48, 253 34	135	104, 488 212	+297.1	-36. 3	1, 842, 443	1, 860, 403	+1.
Replacement partsrel. to Jan., 1925 Accessoriesrel. to Jan., 1925	169 88	173 84	166 91	83		137 79	141 77	+3.8 -12.2	-2.8 +2.6			
Service partsrel. to Jan., 1925 Rim productionthous. of rims New passenger-car registration:	170 1, 570		147 1, 647		119 879			+13. 4 +82. 1	-22. 0 -12. 8		22, 901	-5.
Total number of cars. Highest price group number of cars.	. 12, 326	11, 463	11, 561	7, 150	5, 188						126, 303	-1.
Second highest groupnumber of cars Third highest groupnumber of cars Lowest price groupnumber of cars	. 66,834	52, 424	47, 606 47, 795 181, 451	33, 292	28, 165		48,714			878, 535	609, 103 801, 988 2, 337, 454	-8.
Miscellaneousnumber of cars	522	301					611			12, 882		-58.
FUELS Coal and Coke												
Bituminous: Production—												
United Statesthous, of short tons Canadathous, of short tons Exportsthous, of long tons	1,344	1,379	1,560	1, 519	1,488	1,638	1, 537	+7.7 +9.5 -12.1	+6.1	500, 745 17, 550 14, 431	525, 358 17, 227 15, 741	-1.
Consumption— By vessels———thous, of long tons—		1		1				+5.6		1	3, 829	
By electric-power plantsthous, of short tons_ By railroadsthous, of short tons	3, 929 7, 500	3, 903 7, 580	4,061 8,444				4, 146 8, 631	+0.5	-2.4	41, 350 92, 898		
By coke plants— United States, thous, of short tons	7, 571	7, 153	7, 389	6, 884	6, 575	6, 599	7,028	+0.4	-6.1	76, 137	86, 516	+13.
Canadathous. of short tons Stocks, end of month, held by consumersthous. of short tons		310 37, 500		303	40, 300	ii	300	-1.6	+4.0	3, 213	3,712	+15.
Prices— Mine aver. (spot)dolls. per short ton	1.77	1.83	1.90	1.88	1.88	1.89	1.85	+0.5	+2.2			
Wholesale, compdolls. per short ton_ Retail, composite_dolls. per short ton_ Anthracite:	3. 913 8. 69							+0.1 +0.7	$-1.3 \\ +0.2$			
Productionthous, of short tons. Exportsthous, of long tons.	5, 954 222		8, 332 396			7, 038 271		-8.1 -13.4			76, 640 3, 042	
Stocks, end of mo. in yds. of dealersno. of days' supply. Prices—		55	48		44		46					
Wholesale, compdolls. per long ton. Retail, compositedolls. per short ton.	12.848 14.67							+0.3 0.0				
Coke: Production, U. S.— Beehive——thous. of short tons—	562	504	470	413	345	309	479	-10.4	-35.5	4 402	# O14	+33.
By-productthous, of short tons. Production, Canadathous, of short tons.	4,643	4,413	4, 610	4, 321	4, 181 222	4, 203 225	4, 360	+0.5 +1.4	-3.6	48, 313	53, 476	+10.
Exportsthous, of long tons. Price, furnace, Connellsvilledolls, per short ton	i		1			j		-9.0 -1.9		JI	1, 105	+12.
Petroleum	2. //	2.11	2.70	2.09	2.179	2, 38	2.15	-1.9	-5.0			
Crude petroleum: Productionthous, of bbls.	92, 288	87, 269	4 88, 099	78, 161	80, 339		81, 979			901, 464	1, 005, 603	
Stocks at end of month— Total (comparable)thous, of bbls-	386, 677	· /		1			372, 913	!		501, 404	1, 000, 000	T11.
Tank farms and pipe linesthous, of bbls. Refineriesthous, of bbls.	339, 679 46, 998	341, 557 45, 105			336, 196 46, 195		330, 395	 				
California— Light————thous, of bbls—	37, 685	40, 433	42,041	41, 571	40, 429		19, 196					
Heavy thous, of bbls. Imports thous, of bbls. Consumption (run to stills) thous, of bbls.	. 5,800	6,953	5, 766	4, 535	5, 887		8. 075			79, 767 913, 295		
Refinery operationsper ct. of capacity. Price, Kansas-Oklahomadolls, per bbl.	. 1. 300	1. 300	79 1. 300	75 1. 300	72 1. 300	1. 229	. 76 1. 185	-5. 5	+3.7			
Oil wells completednumber_ Mexico— Productionthous, of bbls_				ļ	į		1, 205 3, 515			12, 526	15, 609	+24.
Exportsthous, of bbis Venezuela—	2,511	2, 586	2, 395	1, 923			1,895					
Production thous, of bbls. Exports thous, of bbls. Gasoline:	. 11, 394 . 10, 897		11, 591 10, 718		12, 182 11, 929		11, 521 9, 982					
Production— Raw (at refineries)thous, of bbls_	. 38, 510		39, 663		37, 133		34, 335			376, 945	434, 241	+15.
Natural gas (at plants) thous, of bbls. Exports thous, of bbls. Consumption thous, of bbls.	4, 507 5, 509	4, 574 4, 244	4, 912 5, 896	4, 505 3, 938	4, 457 5, 890	:	3, 983 4, 506		+17.4	42, 526 52, 596	52, 272 59, 880	+22. +13.
Stocks, end of month— Raw (at refineries)——thous, of bbls—	33, 788	33, 222	35, 042	1	43, 115		1			328, 489		T 10.
Natural gas (at plants)_thous, of bbls_ Prices—	893	661	490	514	604		741					
Wholesale, New Yorkdolls. per gal- Retail, wagon, 50 citiesdolls. per gal- Retail distribution, 41 States.thous. of gals-	. 157	. 160	. 158	. 165	. 165	. 165	. 151			9, 791, 128	10, 602, 827	+8.
• Revised.	, -,, -	,,	, -2.,	, -30,-22	,	,	,,	,		., -,,,	,,	-1

The cumulatives shown are through De-			1929		1	1930	1929	PER CE CREASE DECREA	(十) OR	CUMULATI FROM JAN. 1 DEC.	THROUGH	Per of in-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or de creas (-) cum lativ 1929 fron 1929
FUELS—Continued Petroleum—Continued												
Xerosene: Production	5, 111 2, 034 3, 189 8, 689 . 068	4, 667 1, 101 3, 387 8, 864 . 070	5, 379 2, 237 3, 136 8, 865 . 072	4, 829 1, 302 3, 040 9, 366 . 073	1, 676 3, 513		2, 956 8, 865	+15.6	+2. 2 -16. 9	36, 235	57, 154 19, 816 37, 303	-9
as and fuel oils: Productionthous. of bbls Consumption— By vesselsthous. of bbls By electric pow. plants thous. of bbls By railroadsthous. of bbls Price, Okla. 24-26, refineries. dolls. per bbl	39, 011 4, 734 820 4, 326 . 744	37, 468 4, 424 1, 079 4, 375 . 775	38, 974 4, 540 1, 083 4, 961 . 838	36, 134 4, 110 41, 173 4, 564 . 863	4, 100 1, 112 4, 413	976	36, 838 3, 915 939 4, 499 . 625		+3.9	427, 237 51, 226 7, 160 50, 307	447, 894 52, 278 10, 466	+2 +46
Stocks at refineries, end mo thous. of bbls_ubricating oil: Production	7, 478 3, 143 2, 268 7, 478 . 238	7, 589 2, 852 2, 054 7, 589	8, 021 2, 885 1, 378 8, 021	8, 117 2, 555	8, 269 2, 765 1, 716		8, 649 2, 945 1, 521 8, 649			34, 659	34, 359 23, 504	-0 +1
sphalt: Production thous, of short tons Stocks, end of month thous, of short tons Imports thous, of short tons	379 247 20	231	356 227 17	247 234 7	155 240 10	5	188 229 13		-61. 5		3, 4 37	
Coke: Production thous. of short tons Stocks, end of month thous. of short tons Vax:	169 608	649	672	688	693						1, 807	
Productionthous. of lbs Stocks, end of mothous. of lbs RUBBER	53, 377 190, 878		56, 377 189, 094	50, 775 185, 559			58, 885 123, 521			630, 144	630, 074	
Crude Rubber												
Torld shipments, plantation long tons norts (including latex) long tons consumption by tire mirs thous of lbs nonsumption (quarterly): Total long tons	70, 532 37, 851 45, 459			68, 303 43, 901 31, 186		47, 904	54, 161	+10.8		600, 423	863, 409 563, 816 598, 995	+2
For tires	259, 804 90, 769 45, 016	270, 784 84, 362 54, 417	88, 483 4 63, 929 4 37, 905	92, 219 72, 259 434, 200	307, 670 105, 138 75, 432 36, 260							
holesale price, smoked sheets, New Yorkdolls. per pound Tires and Tubes	, 206	. 202	. 196	. 166	. 160	. 150	. 201	-6.2	-25.4			
neumatic tires: Productionthousands Stocks, end of monthtbousands	4, 354 10, 669		3, 689 9, 633	2, 703 9, 701	2, 446 9, 470	3, 611 9, 718	5, 042 10, 284	+47.6 +2.6	-28.4 -5,5	58, 539	54, 981	-
Shipments— Domestic thousands the same thousands the	5, 667 217	!	199	168	142	3, 356 180	4, 721 248	+37.1 +26.8	-28.9 -27.4		53, 178 2, 335	+1
Production thousands. Stocks, end of month thousands. Shipments - Domestic thousands. Export thousands.	4, 385 10, 618 46, 028	10,068 4 4,562	10, 242	10, 276	10, 245	1	11, 539	+0.5	-24.7 -10.8 -28.8		55, 063 54, 967	
Production thousands Stocks, end of month thousands	109 32 118	28	22	19	19	25	160 32	+10.7 +31.6	-22, 9	515	1, 506 376	
Shipments— thousands thousands thousands thousands thousands before proofed fabrics, production:	40 3	2	2	1	2	20 2	2	0.0	0.0		380 27	-:
Total thous of yds. Auto fabrics thous of yds. All other thous of yds. Raincoat fabrics thous of yds.	5, 085 1, 349 1, 317 2, 419	1, 120 1, 324	1,778	540 1, 308	488 882		686 1, 153			41, 469 9, 091 10, 746 21, 632	50, 731 10, 873 15, 365 24, 493	+1 +4
ubber heels: Productionthous, of pairs Shipments—	23, 095	21, 702	22, 386	17, 863	14, 781		19, 975			235, 170	232, 126	-
To shoe manufacturers thous, of pairs. To repair tradethous, of pairs. For exportthous, of pairs. Stocks, end of monththous, of pairs.	14, 942 8, 025 1, 098 43, 960	7, 859 1, 054	7, 994 920	6, 571 801	4, 148 956		6,809 1,001			94, 131 11, 404	144, 113 84, 771 12, 385	1 -
ubber soles; Production thous, of pairs Shipments— To shoe manufacturers thous, of pairs	2, 948 2, 548	2, 841	3, 502	3, 400	3, 003		3, 876			37, 645	34, 499 27, 270	
To repair trade thous of pairs For export thous of pairs Stocks, end of month thous of pairs Achanical rubber goods; shipments:	517 78 3, 319	618 47	647 90	576 109	449 88		861 156			10, 990 2, 452	7,071	-8
Total thous of dolls Belting thous of dolls Hose thous of dolls Linese thous of dolls Hose thous of dolls	6, 792 1, 940 2, 196 2, 656	1,490 1,964	1, 477 2, 135	1, 203 1, 830	1,086 1,895		6, 033 1, 305 2, 378 2, 350		: !	69, 104 16, 878 25, 574 24, 485	27,788	

cember except where otherwise noted.			1929			1930	1929	CREASE DECREA	CNT IN- (+) OR ASE (-)		VE TOTAL 1 THROUGH 1. 31	in- crease (+) or de-
Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
RUBBER—Continued												
Tires and Tubes—Continued						}	į					
Rubber bands, shipmentsthous. of lbsthous. of sq. ft	196 598	189 630	216 543	170 517	189 618	459	219 418	+25.7	9.8	2,324 7,008	2, 522 6, 779	+8.5 -3.3
Productionno. coats and sundries	96, 281	93, 444 49, 940	99, 588	75, 392	49, 093		58, 130			1, 187, 438	978, 793	-17, 6
Net ordersno. coats and sundries HIDES AND LEATHER	37, 906	49, 940	76, 194	95, 423	16, 095		31, 437			753, 765	711, 075	-5.7
Hides									·			
mports: Total hides and skinsthous. of lbs	47, 956	51, 903	48, 489	50, 958	41, 932	39, 094	38, 679	-6.8		505, 750	515, 466	+1.3
Calfskins thous of lbs Cattle hides thous of lbs Goatskins thous of lbs	4, 900 28, 137 7, 692	3, 178 29, 132	4, 886 28, 264	3, 542 28, 22 7	2, 624 26, 060	19, 145	2, 608 21, 456	+12.5 -26.5	-10.8		45, 821 265, 636	-3.6
Sheepskins tooks, end of month:	4, 405	8, 893 7, 336	6, 434 5, 091	9, 838 5, 032	6, 293 3, 350	6, 728 5, 473	5, 911 5, 060	+6.9 +63.4		90, 765 63, 265	100, 091 65, 331	+10.3 +3.3
Total hides and skinsthous, of lbs Cattle hidesthous, of lbs	253, 415 202, 564	253, 680 203, 304	259, 050 208, 910	270, 188 220, 779	269, 892 220, 509		262, 326 219, 274					
Calf and kip skinsthous. of lbs Sheep and lamb skinsthous. of lbs	28, 141 22, 710	27, 071 23, 305	27, 596 22, 544	27, 573	26, 584 22, 799		23, 636 19, 416					
rices: Green salted, packers' heavy	100	100	100	104	100	100	905		00.5			
native steersdolls. per lb Calfskins, country, No. 1dolls. per lb nspected slaughter of livestock:	. 188 . 198	. 196 . 204	. 186 . 197	. 164 . 179	. 160 . 174	. 163 . 176	. 205 . 219	+1.9 +1.1	-20.5 -19.6			
United States— Cattlethous, of animals	726	753	839	731	658	713	736	+8.4	-3.1	8, 467	8, 324	-1.7
Calvesthous, of animals	388 3, 130	365 3, 104	398 3, 857	358 4, 499	346 5, 083	374 5, 001	369 5, 738	+8.1 -1.6	+1.4	4, 680 49, 714	4, 538 48, 446	-3. 0 -2. 6
Swine thous, of animals Sheep thous, of animals Canada—	1, 298	1, 317	1, 365	1, 159	1, 091	1, 225	1, 150	+12.3	+6.5	13, 487	14, 023	+4.0
Cattle and calvesthous. of animals Swinethous. of animals	99 160	98 142 93	120 207	114 234	71 221	68 207	71 249	-4. 2 -6. 3	-16.9	1, 116 2, 548	1, 157 2, 351	+3.7 -7.7
Sheepthous. of animals	77	93	178	135	50	31	. 3 5	-38.0	-11.4	639	726	+13.6
ole and belting leather:		į										ļ
Production— Sole only_thous. of backs, bends, sides_	1, 300	1, 178	1, 302	1, 226	4 1, 235	1, 359	1, 284	+10.0	+5.8	16, 136	14, 516	-10, 0
Sole and belting thous, of lbs Stocks, end of month	25, 501	23, 460	25, 665	23, 901	23, 894		23, 891			292, 074	284, 754	-2.5
In process of tanning thous, of lbs Finished thous, of lbs Exports thous, of sq. ft	80, 587 66, 276 782	81, 574 61, 974 539	82, 679 60, 044 583	83, 922 63, 451 600	84, 197 64, 084 500	757	77, 989 81, 518 1, 054	+51.4	-28. 2	10, 184	9, 942	
Price oak, scoured backsdolls. per lb_	. 52	. 54	. 55	. 55	. 52		. 59	-3.8				-2. 4
Production thous, of sq. ft	82, 954	70, 054	80, 473	69, 750	7 2 , 672		66, 424			810, 329	837, 966	+3.4
In process of tanning _ thous. of sq. ft Finishedthous. of sq. ft	147, 678 216, 406	147, 478 209, 520	147, 328 217, 384	170, 067 233, 599	143, 576 244, 428		138, 500 249, 468					
Exports thous. of lbs hrome calf, "B" grades dolls. per sq. ft.	7, 736 . 49	8, 264 . 49	9, 007 . 49	8, 378 . 48	7, 776 . 48	.46	10, 998 . 53	-4. 2	-13. 2	135, 559	112, 2 98	-17.2
Leather Products			1	İ								
Production thous, of pairs thous, of pairs	36, 445 291	34, 831 321	37, 191 426	27, 723 342	22,475 294	290	27, 246 423		-31.4	344, 352 4, 331	361, 402 4, 281	+5.0 -1.2
holesale prices: Men's black calf		2							į	,	,	2
blucher, Bostondolls. per pair Men's dress welt, tan calf oxford, St. Louisdolls. per pair	6. 75 4. 85	. 6.75 4.85	6. 75 4. 85	0.0	0.0							
Women's black kid, dress welt, lace oxforddolls. per pair	4. 25	4. 25	4. 25	4. 25	4. 25	4. 25	4. 25	0. 0 0. 0	0. 0 0. 0			
loves, cutdozen pairs	292, 545	285, 094	318, 041	284, 929	213, 861	265, 407	214, 826	+24.1	+23.5	2, 551, 900	3, 136, 751	+22.9
PAPER AND PRINTING Wood Pulp			Í	:								
lechanical: Productionshort tons	111, 878	102, 202	122, 923	122, 166	126, 523		149, 772			1, 605, 919	1, 603, 553	-0.1
Consumption and shipments short tons Stocks, end of month short tons Imports short tons.	145, 432 137, 982	133, 514 106, 669	146, 600	140, 240 70, 688	129, 623 67, 588					1, 637, 233	1, 666, 627	+1.8
hemical:	24, 731	20, 666	88, 762 27, 020	21, 223	36, 186	28, 423	25, 832	-21.5	+10.0	250, 879	273, 463	+9.0
Productionshort tons Consumption and shipmentsshort tons Stocks, end of monthshort tons	237, 762 235, 310	218, 980 219, 842	245, 072 244, 992	227, 996 225, 444	214, 104 213, 388		236, 636 235, 170			2, 583, 126 2, 589, 922	2, 748, 392 2, 742, 838	+6.4 +5.9
Imports short tons Price, sulphite dolls. per 100 lbs.	37, 354 142, 502 2. 60	35, 796 134, 533 2. 60	35, 916 145, 878 2. 60	37, 554 144, 178 2. 60	37, 963 133, 250 2. 60	171, 463 2. 60	41, 366 151, 240 2. 45	+28.7 0.0	+13. 4 +6. 1	1, 493, 521	1, 615, 788	+8.2
Newsprint Paper	2.00	2.00	رس .س	<i>21.</i> 00	(۱۸۱ مند	2.00	2. 40	0. 0	T0. 1			
roduction: United States, totalshort tons	120, 868	108, 155	122, 009	113, 729	112, 583	124, 851	123, 822	+10.9	+0.8	1, 408, 712	1, 386, 564	-1.6
Ratio to capacity per cent_ Canada short tons_ opsymption by publishers short tone	225, 873	227, 665	251, 914 207, 218	252, 046	230, 008	206, 305	212, 191	-10.3	-2.8	2, 381, 982	2, 726, 572	+14.5
onsumption by publishersshort tons lipments: United Statesshort tons	172, 239 118, 789	193, 045 107, 495	207, 218 122, 040	205, 814 116, 725	194, 907 117, 131	176, 162 124, 262	185, 502 120, 363	-9. 6 +6. 1	-4.0	2, 126, 896 1, 391, 153	2, 282, 922 1, 404, 383	+7.3 +1.0
Canada short tons	224, 254	226, 623	252, 591	253, 219	234, 100	202, 008	209, 020	-13.7	$+3.2 \\ -3.4$	2 399 910	2, 635, 082	

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. 1 DEC	1 THROUGH	Per ct in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
PAPER AND PRINTING—Continued												1526
Newsprint Paper—Continued		į										
importsshort tons Experts, Canadashort tons stocks, end of month: At mills—	209, 901 217, 638	196, 123 201, 250	221, 010 232, 441	221, 078 229, 142	230, 579 220, 171	198, 620 199, 773	196, 882 195, 047	-13.9 -9.3		2, 154, 930 2, 206, 587	2, 420, 905 2, 510, 635	+12. +13.
United States short tons. Canada short tons. At publishers short tons. In transit to publishers short tons. Price, roll, f. o. b. mill dolls. per 100 lbs.	25, 656 29, 785 205, 532 44, 676 3. 25	26, 490 30, 742 190, 331 52, 535 3. 25	26, 573 30, 064 188, 570 51, 864 3, 25	23, 549 28, 891 198, 550 61, 525 3, 25	19, 023 24, 946 220, 024 58, 524 3. 25	18, 778 29, 154 231, 879 48, 925 3, 25	38, 003 21, 406 197, 480 45, 982 3, 25	$ \begin{array}{r} -1.3 \\ +16.9 \\ +5.4 \\ -16.4 \\ 0.0 \end{array} $	+36. 2 +17. 4 +6. 4			
Printing												
Book publication: American manufactureno. of titles Importedno of titles Printing activityweighted index number	819 177 103	739 57 107	807 134 108	873 235 102	537 228 103	449 156	508 150 117	-16.4 -31.6	-11.6 +4.0	8, 491 1, 863	8, 393 1, 794	
Sales books: New ordersthous. of books _ Shipmentsthous. of books _ Blank forms, new ordersthous. of sets _	12, 839 13, 631 54, 054	12, 977 12, 226 56, 428	13, 834 14, 147 75, 622	12, 108 12, 785 66, 464	9, 832 11, 819 57, 063	11, 993	12, 861 12, 167 54, 165	+32. 5 +1. 5		148, 804 147, 948 611, 429	147, 804 151, 685 728, 890	+2.
Box Board Operation:												
Thousands of inch-hours. Per cent of capacity. Production	9, 601 81, 0 262, 307 257, 318 263, 140 61, 853	8, 553 81, 2 235, 962 247, 329 240, 340 58, 709		8, 479 77, 2 237, 496 212, 186 236, 575 61, 703	7, 673 69. 9 186, 683 174, 717 182, 204 65, 178	8, 467 74, 2 226, 910 226, 824 228, 988 62, 685	248, 290 241, 086 247, 498	+10.3 +6.1 +21.5 +29.8 +25.7 -3.8	-8.8 -8.6 -5.9 -7.5	2, 682, 640 2, 697, 947	2, 854, 072 2, 903, 845	+8. +5. +8.
Stocks of waste paper, end of month: On handshort tons In transit and unshipped purchases_tons_ Unfilled orders, end of monthshort tons_	171, 360 61, 571 82, 969	174, 884 89, 510 87, 304	185, 169 73, 135 85, 600	193, 428 52, 851 67, 174	198, 199 50, 380 59, 721	175, 792 55, 961 63, 349	137, 251 49, 104 87, 974	-11.3 +11.1 +6.1	+28.1 +14.0 -28.0			
Consumption of waste papershort tons Other Paper	256, 815	2 30, 636	254, 166	229, 706	175, 905	219, 597	238, 652	+24.8	-8.0	2, 512, 059	2, 774, 953	+10.
Binder's board, productionshort tons.	3, 443	2,903	2, 682	1,882	1, 661		3, 172			35, 664	33, 646	-5.
Book paper: Productionshort tons	138, 614	135, 842	154, 860	144, 020	133, 939		131, 999				1, 634, 505	+8.
Ratio to capacityper cent Shipmentsshort tons Stocks, end of monthshort tons New orders—	93 136, 951 77, 248	103 135, 434 78, 020	138, 290 79, 580	85, 946	133, 939 85, 946		132, 791 79, 099			1, 499, 184		
Coatedp. ct. of normal production Uncoated.p. ct. of normal production Uncoated.p. ct. of normal production	85 77	87 86	89 92		83 75		81 82	+4.8 +16.0	+7.4 +6.1			
Unfilled orders, end of month— Coatedp. ct. of normal production Uncoated.p. ct. of normal production Wrapping paper:	9 8	10 8			8 6	11 7	10 8	+37.5 +16.7	$+10.0 \\ -12.5$			
Productionshort tons Ratio to capacityper cent	91, 849 83	84	80		77		101, 604 81				1, 066, 598	
Shipmentsshort tons_ Stocks, end of monthshort tons_	90, 655 87, 104	83, 939 86, 518	93, 650 82, 491		77, 295 84, 025		100, 690 95, 288			1, 111, 259	1, 071, 208	-3.
Fine paper: Productionshort tons	38, 943 84	36, 166 88	41, 830 91	38, 746 91	83		38, 228 92			458, 763	467, 947	+2.
Shipmentsshort tons_ Stocks, end of monthshort tons_	39, 644 46, 840		40, 868 48, 830	36, 809 50, 749	32, 176		40, 522 50, 934			453, 299	465, 065	+2.
All other grades: Productionshort tons Shipmentsshort tons Stocks, end of monthshort tons Potal paper (inc. newsprint and box board):	105, 055 104, 638 58, 009	97, 715 97, 209 58, 515	114, 395	99, 192 97, 863 57, 500	88, 177 85, 280 60, 395		104.445		1	1, 228, 547 1, 223, 549	1, 231, 336 1, 220, 449	
Productionshort tons Ratio to capacityper cent	757, 636 83	4 697, 196 85		719, 379 88	78		711			8, 408, 773	8, 699, 853	+3.
Shipmentsshort tons_ Stocks, end of monthshort tons_	753, 817 356, 710	4 699, 353	4 777, 737	713, 291	628, 025		746, 209 383, 030			8, 348, 351	8, 683, 832	+4.
Paper-board Shipping Boxes												
Production: Totalthous, of sq. ft_ Corrugatedthous, of sq. ft_ Solid fiberthous, of sq. ft_ Operating activity:	550, 170 448, 920 101, 250	434, 351	457, 425	387, 935	367, 533 296, 457 71, 076	369, 950	352, 021	+27. 5 +24. 8 +38. 7	+3.9 +5.1 -0.6	5, 229, 062 4, 047, 919 1, 181, 143	4, 724, 707	+16.
Total per cent of normal Corrugated per cent of normal Solid fiber per cent of normal.	89 91 82	91			63 66 55	75	78 78 77	+17.5 +13.6 +30.9	-3.8			
Abrasive paper and cloth: Domestic sales	100, 924 20, 564 101	17, 819	24, 238	24, 134	20, 628		96, 056 17, 753 103			222, 960	1, 068, 268 247, 515	i∥ +11.

The cumulatives shown are through De-			1929		-	1930	1929		ENT IN- (+) OR ASE (-)	CUMULATI FROM JAN. DEC	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem-	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
BUILDING CONSTRUCTION AND HOUSING												1000
Building Costs						!						
Building materials: Frame house, 6-rm. 1st of morel. to 1913 Brick house, 6-rm. 1st of morel. to 1913 Bldg. costs, 1st of morel. to 1913 Bldg. costs (A. G. C.), 1st of morel. to 1913 Plumbing fixtures, 6 piecesdollars Construction costs (Am. Appraisal): Frame	177 182 205. 9 203 98. 84	207. 6 201 98. 97 205	206. 3 202 99. 20 205	100. 58 206	202 100. 58 204	203 100. 55 204	183 209. 4 203 100. 30	+0.5 0.0 0.0	0.0 +0.2 0.0			
Brick, wood framerel. to 1913 Brick, steel framerel. to 1913 Reinforced concreterel. to 1913	214 197 201	214 197 201	215 198 202	198		214 197 202	197	0.0 0.0 +0.5	0.0			
Contracts and Fire Losses									!			
Contracts awarded (36 States): Commercial buildingsthous. of sq. ft Industrial buildingsthous. of sq. ft Residential buildingsthous. of sq. ft Educational buildingsthous. of sq. ft Other public and semi-	13, 481 10, 148 28, 339 5, 190	24,354	12, 611 9, 041 27, 478 5, 461	13, 180 6, 913 20, 670 3, 796	13,340 17,182		15, 250 7, 085 27, 898 2, 631			150, 394 91, 538 548, 329 60, 626	151, 682 106, 419 372, 465 58, 192	-32.1
public buildings thous. of sq. ft. Grand total thous. of sq. ft. Contracts awarded, value (36 States):	5, 896 63, 875		7, 255 62, 590	4, 455 49, 268			2, 863 56, 331			70,022 927,721	60, 528 757, 319	-13. -18.
Commercial buildingsthous, of dolls Industrial buildingsthous, of dolls Residential buildingsthous, of dolls Educational buildingsthous, of dolls Other public and semi-	68, 365 71, 820 142, 049 31, 149	52,090 114,184	131,809		66, 888 111, 480		98, 644 60, 439 132, 862 17, 171			847, 556 602, 603 2, 715, 111 386, 490	889, 681 739, 797 1, 872, 773 369, 526	+5. +22. -31. -4.
public buildingsthous, of dolls Public works and utilitiesthous, of dolls Grand totalthous, of dolls Contracts awarded, Canadathous, of dolls Building volume (A. G. C.)rel, to 1913 Fire losses:	42, 762 114, 766 470, 910 58, 622 239	114, 146 430, 351 46, 959	54, 998 80, 206 426, 171 57, 084 233	68, 811 378, 074 45, 376	48, 870 304, 297 32, 549	131	23, 142 61, 811 394, 069 41, 963 148			564, 460 1, 288, 559 6, 404, 779 472, 033	497, 064 1, 183, 616 5, 553, 751 576, 653	-11. -8. -13. +22.
United States and Canada, (Journal of Commerce)thous. of dolls Canada (Monetary Times)thous. of dolls	27, 504 3, 776			28, 256 3, 864	30, 870 4, 081	31, 393 5, 100		+1.7 +25.0	-13.3 +91.4	301, 268 22, 633	332, 426 38, 362	+10.3 +69.
LUMBER PRODUCTS												
Softwood Lumber Southern pine:											:	
Production (computed)	400, 274 83 384, 203	83	384, 227 82 375, 228	342, 631 75 313, 137			425, 009 87 398, 047			4, 994, 053 5, 228, 488	4, 583, 020 4, 466, 442	-8.: -14.
New orders (computed)	378, 878 1, 017, 970	344,703 1,030,023	368, 296 1, 039, 022	290,667 1,068,516	304, 487 1, 095, 532		417,700 1,005,916			5, 211, 206	4, 450, 754	-14.
Unfilled orders, end mo. (comp.) M ft. b. m. Exports, lumber	289, 468 52, 630 9, 300 37, 43	43, 087 14, 874 36. 76	279, 535 51, 811 11, 315 39, 50	48, 363 7, 283 36, 00	62, 487 13, 734 38. 00	9, 484 37. 22	11, 507 36, 55	-15.6 -30.9 -2.1	-17.6 +1.8	163, 567	679, 213 127, 616	
Production (computed)M ft. b. m Shipments (computed)M ft. b. m New orders (computed)M ft. b. m Unfilled orders, end of monthM ft. b. m Exports, lumberM ft. b. m Exports, timberM ft. b. m Price, No. 1 common dells. per M ft. b. m	353, 642 333, 498 327, 678 245, 311 72, 811 48, 303 18, 57	293, 209 293, 209 299, 924 64, 085 38, 493	300, 372 303, 953 295, 895	266, 351 253, 369 215, 319 53, 261 33, 508	228, 300 240, 835 273, 065 74, 967 33, 309	220, 690 242, 178 293, 657 74, 487 36, 064	296, 343 349, 165 403, 331 84, 299 59, 984	-3.3 +0.6 +7.5 -0.6 +8.3	-25. 5 -30. 6 -27. 2 -11. 6 -39. 9	5, 081, 313 5, 249, 119 767, 745 556, 224	3, 864, 098 3, 832, 315 3, 886, 479 908, 133 527, 411	-24. -26.
Price, flooring, 1 x 4, "B" and better, V. Gdolls. per M ft. b. m California redwood;	42.96	42.79	42. 4 2	42. 13	41.94	41. 63	44. 44	-0.7	-6.3			
Production (computed)	44, 923 48, 648 44, 930 44, 590	37, 368	36, 745 36, 064 33, 080 37, 097	48, 438 39, 170 40, 579 38, 364	25, 253	41, 084 30, 893 35, 633 27, 079	30, 944 34, 801	+34. 1 +22. 3 +53. 4 -26. 1	+2.4	444, 542	455, 853 445, 985 458, 499	+0.
California white pine: Production	126, 934 102, 334	94, 983	131, 790	100, 037	60, 651	29, 185	69, 930	-51.9	-58.3	1, 227, 464	1, 150, 498	- <u>6</u> .
Shipments	516, 220 95, 986 162, 494	523, 772 80, 250	88, 363 567, 326 71, 398 172, 154	62, 585 607, 775 60, 174 172, 309	54, 835	64, 837 568, 607 65, 322 151, 560	535, 998 95, 905	+19, 1	+6.1 -31.9	1, 064, 312	1, 116, 859	-7. -2.
Production M ft. b. m. Shipments M ft. b. m. New orders M ft. b. m. Lath—	49, 846 43, 764 42, 485	37, 054	38, 422 43, 737 35, 578	8, 548 32, 726 20, 167	11, 682 19, 496 14, 459	14, 935 23, 200 22, 670	33, 167	+27. 8 +19. 0 +56. 8	-37. 3 -30. 1 -35. 9	497, 414 494, 809 450, 981	418, 570 463, 011 406, 484	-15. -6. -9.
Production thousands Shipments thousands	8, 442 9, 258		5, 739 6, 892	1, 310 5, 008	653 2, 783	527 3, 251	4, 692 6, 952	-19.3 +16.8	-88.8 -53.2	105, 379 97, 244	66, 391 87, 877	-37 -9.
North Carolina pine: Production (computed)	48, 993 48, 230			43, 995 47, 096	40, 138 38, 038	41, 097 36, 946		+2.4 -2.9	-9.0 -5.2		636, 580 626, 108	+8. +3.
Production M ft. b. m. Shipments M ft. b. m.	14, 908 16, 020		11, 943 12, 378		10, 839 4, 932			+2.9 +59.4	-40.9 -20.2			

The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929					1930	1929	PER CENT IN- CREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH DEC. 31		Per ct. in- crease (+) or de-
	August	Septem- ber	October	Novem- ber	December	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
LUMBER PRODUCTS—Continued Hardwood Lumber				İ					, i			
Walnut lumber: M ft. b. m. Production	4, 608 3, 607 14, 303 3, 266 6, 892	4, 649 3, 289 15, 347 3, 398 7, 000	5, 284 4, 107 15, 817 3, 313 6, 562	3, 807 3, 069 17, 130 2, 513 6, 475	1, 607	2, 363 2, 070 18, 727 2, 071 4, 418	12, 305 3, 307	-36. 9 -10. 0 +0. 7 +28. 9 -21. 0	-20.5 -34.6 $+52.2$ -37.4 -22.0	36, 060 36, 852	47, 443 41, 900 39, 620	+16. 2
Walnut logs: Purchased	3, 667 3, 358	3, 367 3, 724	4, 158 3, 996	3, 144 2, 975	2, 404 2, 288	1, 701 2, 021	2, 285 2, 538	-29. 2 -11. 7	-25.6 -20.4	1	36, 555 35, 806	
Stocks, end of monthM ft. log measure Northern hardwoods: Production	2, 441 22, 459 27, 469	2, 148 17, 195 24, 275	2, 268 14, 643 22, 604	3, 299 15, 895 18, 220			37, 916	-10. 0 +38. 4 +32. 0	-22.2		333, 595 297, 180	
Shipments M ft. b. m. Stocks, end of month M ft. b. m.	2, 595 4, 094 17, 880	2, 929 6, 851 24, 606	3, 613 4, 189 20, 582	1, 940 2, 707 16, 210	3, 542 3, 716 26, 639		5, 456 4, 950 27, 126			83, 169 82, 454	55, 954 60, 796	
Jum: Stocks, total, end of month_mill. ft. b. m_ Stocks, unsold, end of month_mill. ft. b. m_ Unfilled orders, end of month_mill. ft. b. m_ Oak:	469 325 144	482 328 154	482 339 143		512 387 125	534 404 130	369	+4.3 +4.4 +4.0	+3.5 +9.5 -11.6			
Stocks, total, end of month_mill. ft. b. m Stocks, unsold,end of month_mill. ft. b. m Unfilled orders, end of month_mill. ft. b. m All hardwoods:	982 802 181	1, 004 808 195	1, 022 823 199	1, 033 852 181	1, 049 869 181		751	-0.9 +0.9 -3.9	+13. 2 +16. 8 +4. 2			
Production	334 296 300 2,772 2,122	2,848	2, 887	259 221 184 2, 979 2, 356	2,383	206 199 3, 061 2, 440	293 319 2, 717 2, 102	+19.5 +21.9 +20.6 +2.1 +2.4	+12.7 +16.1	3, 306 3, 415	3,414	+12.0 +3.3 +0.4
Unfilled orders, end of month.mill. ft. b. m Exports, planks, joists, etcM ft. b. m Flooring	645 181, 897	678 163, 427	194, 065	153, 069	200, 816	614 151, 906		-24.4	-0.2	2, 323, 681	2, 377, 609	+2.
Maple flooring: M ft. b. m. Production M ft. b. m. Shipments M ft. b. m. Stocks, end of month M ft. b. m. New orders M ft. b. m. Unfilled orders, end of month M ft. b. m.	6, 918 8, 435 20, 480 6, 927 8, 881	20,827 4,750	7, 813 6, 869 22, 421 4, 297 7, 095	5, 574 4, 379 23, 659 3, 227 5, 717	6, 107 3, 060 26, 523 3, 053 5, 579	4, 245	5, 114 24, 733 5, 999	+7. 9 +51. 1 +6. 8 +39. 0 +4. 4	-29.2	93, 124 89, 760	76, 051	-16.8 -18.3 -24.
Oak flooring: M ft. b. m. Production M ft. b. m. Shipments M ft. b. m. Stocks, end of month M ft. b. m. New orders M ft. b. m. Unfilled orders, end of month M ft. b. m.	36, 382 37, 631 70, 198 30, 972 35, 937	31, 464 72, 141	35, 813 29, 704 76, 342 19, 743 30, 887	25, 111 21, 202 82, 103 16, 420 25, 810	21,775	87, 391 35, 286	31, 999 97, 000 29, 736	+26. 2 -44. 6 +5. 0 +62. 0 +12. 7		531, 008 533, 563	399, 885 429, 335 374, 970	-19.
Wooden Furniture												
Household furniture and case goods: Shipmentsdolls., average per firm Unfilled ordersdolls., average per firm Grand Rapids district: Unfilled orders, end	70, 422 77, 568		82, 440 62, 355	61, 523 42, 811	35, 891 30, 135	46, 398 46, 593		+29.3 +54.6			714,778	+14.
of month	64 30 30	37	45 29 35	28	32 11 18	21	. 24	+90.9	-12.5			
end of month	53 5. 0 97. 0	6.0	23.0			17. (10.0	-45.2	+70.0			
Plywood and Veneer Plywood: New ordersthous. of sq. ft. of surface	5, 103	7, 198	8, 167	4,318			3,426					
Shipmentsthous. of sq. ft. of surface_ Unfilled orders, end of month_thous. of sq. ft. of surface_	5, 608 13, 123	5,309	6,070	5,039	3, 574		3,746 5,791			36, 583	54,780	+49.
Rotary-cut veneer: Receiptsnumber of carloads Purchasesnumber of carloads	174 122										2,472 2,749	+11. +11.
Bushel baskets: Production dozens Shipments dozens Stocks, end of month dozens	264, 212 360, 050 584, 410	314, 904	257, 942	94,347	170, 138	84, 21:	2 126,602	-50.5	-33. 5	2, 234, 611	2, 428, 398 2, 267, 150	+11. +1.
STONE, CLAY, AND GLASS PRODUCTS												
Common brick: Stocks, end of month— Burned thousands. Un burned thousands. Shipm ents thousands. Unfizzed orders, end of month thousands. Plants closed down number Pr~ce, red, New York dolls. per thous.	1 109, 56	224, 530 2 93, 67 4 110, 21 6 20	284, 402 7 151, 723 5 133, 083 6 58	291, 237 3 131, 919 3 154, 766 115	247, 728 107, 241 141, 148 132		241, 887 115, 924 136, 014			2, 230, 660	1, 561, 656	
Pr~ce,red, New Yorkdolls. per thous Porcelain plumbing fixtures: Net new orderspieces. Shipmentspieces. Unfilled orders, end of monthpieces. Stocks, end of monthpieces.	12, 168 13, 873 26, 91	9, 52 9, 569 1 26, 11	8, 548 8, 269 5 25, 370	6, 228 6, 541 6, 541 23, 832	6, 455 4, 257 2 25, 778	12, 48 5, 12 32, 72	1 12, 565 7 11, 576 5 34, 864	+93. 4 +20. 4 +26, 9	-0. -55. -6.	7 256, 428 7 189, 813	117, 691	-38.

STONE, CLAY, AND GLASS PROD-UCTS—Continued	38 261, 102 39 405, 574 570, 749 5, 712 4, 299 1, 701 16, 010 3 10, 056 1, 090 1 10, 548 1, 674 6, 206 16, 082 7, 253 8 9, 881 46.5 5, 797 6, 9, 642 1, 650 6, 089 16, 089	Dec., 1929	8 -27.; 7 -21.; 2 +7. 2 +10.5 1 -20. (6 -23. (6 -23. (7 -16	2 3,012,173 3 71,641 69,379 26,430 71,4172 9 203,858 61,913 139,639 5 175,968 61,913 139,639 65 175,455	2, 860, 734 68, 195 63, 826 25, 035 118, 818 12, 911 163, 924 49, 674 122, 969 170, 198 169, 437	-548520819113.
Vitreous china plumbing fixures:	38 261, 102 39 405, 574 570, 749 5, 712 4, 299 1, 701 16, 010 3 10, 056 1, 090 1 10, 548 1, 674 6, 206 16, 082 7, 253 8 9, 881 46.5 5, 797 6, 9, 642 1, 650 6, 089 16, 089	, 102 +20. , 574 -1. , 749 -1. , 712 , 701 , 006 -3. , 090 -3. , 058 -56. , 674 -34. , 674 -34. , 206 -49. , 208 -29. , 253 -22. , 881 -24. , 707 +15. , 707 +15. , 642 +28. , 650 +1.	7 -21.2 +7.6	2 3,012,173 3 71,641 69,379 26,430 71,4172 9 203,858 61,913 139,639 5 175,968 61,913 139,639 65 175,455	2, 860, 734 68, 195 63, 826 25, 035 118, 818 12, 911 163, 924 49, 674 122, 969 170, 198 169, 437	-548520819113.
New orders	38 261, 102 39 405, 574 570, 749 5, 712 4, 299 1, 701 16, 010 3 10, 056 1, 090 1 10, 548 1, 674 6, 206 16, 082 7, 253 8 9, 881 46.5 5, 797 6, 9, 642 1, 650 6, 089 16, 089	, 102 +20. , 574 -1. , 749 -1. , 712 , 701 , 006 -3. , 090 -3. , 058 -56. , 674 -34. , 674 -34. , 206 -49. , 208 -29. , 253 -22. , 881 -24. , 707 +15. , 707 +15. , 642 +28. , 650 +1.	7 -21.2 +7.6	2 3,012,173 3 71,641 69,379 26,430 71,4172 9 203,858 61,913 139,639 5 175,968 61,913 139,639 65 175,455	2, 860, 734 68, 195 63, 826 25, 035 118, 818 12, 911 163, 924 49, 674 122, 969 170, 198 169, 437	-548520819113.
Floor and wall tile: Production	5, 712 4, 299 1, 701 16, 010 3 10, 056 1, 090 10, 548 1, 674 6, 206 6 16, 082 7, 253 8 9, 881 46, 5, 5 5, 7, 7 26, 797 26, 797 26, 797 26, 797 26, 797 26, 797 26, 797 26, 797 26, 797 26, 797 27, 27, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	5, 712 1, 299 1, 701 1, 010 1, 056 1, 090 1, 548 1, 226 1, 244 1, 244	1 -20.0 6 -23.0 4 -61.9 9 +3.4 8 -57.2 9 -39.6 9 -25.2 2 -14.6 7 -13.6 0 -11.6 0 -13.6 9 -52.2	71, 641 69, 379 26, 430 148, 755 14, 172 203, 858 61, 913 139, 639 175, 968 2 175, 458 1 148, 078 93, 532	118, 818 12, 911 163, 924 49, 674 122, 969 170, 198 169, 437	-852081911335.
Terra cotta, new orders:	1,090 10,548 1,674 6,26 6,26 6,26 6,26 6,36 6,	, 990	6 -23.6 4 -61.9 9 +3.4 8 -57.2 9 -39.6 9 -25.8 2 -14.6 7 -13.2 0 -11.6 6 -11.6 0 -13.5 9 -52.2	14, 172 203, 858 61, 913 139, 639 5 175, 968 2 175, 455 1 148, 078 93, 532	12, 911 163, 924 49, 674 122, 969 170, 198 169, 437	-8. -19. -19. -11. -3. -3. -5.
Production	1, 674 6, 206 6, 16, 082 7, 253 8, 9, 881 46, 5, 5, 5, 70 4, 26, 797 9, 042 1, 650 7, 461 6, 089	, 674	9 + 3.4 9 - 57.2 9 - 25.3 2 - 14.6 7 - 18.6 7 - 13.2 0 + 1.1 0 + 1.3 0 - 4.3 6 - 11.6 6 - 13.5 9 - 52.2	4 61,913 139,639 3 175,968 3 175,455 2 175,455 5 148,078 93,532	170, 198 169, 437 139, 663 92, 553	-3.: -3.: -5.:
Production	8 46.5 5,707 4 26,797 6 9,642 6 1.650 5 7,461 4 6,089 16,057 8 557	46.5 , 707 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 105 , 642 , 105 , 642 , 105 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 650 , 707 , 7	7	175, 455 1 175, 455 1 148, 078 9 93, 532	139, 663 92, 553	-3.
Operation	8 46.5 5,707 4 26,797 6 9,642 6 1.650 5 7,461 4 6,089 16,057 8 557	46.5 , 707 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 105 , 642 , 105 , 642 , 105 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 650 , 642 , 650 , 707 , 7	7	175, 455 1 175, 455 1 148, 078 9 93, 532	139, 663 92, 553	-3.
Concrete pavements, new contracts: Total	6, 089 16, 057 557	3, 089 +4. 3, 057 -72.	$\begin{vmatrix} 0 & -13.9 \\ 9 & -52.9 \end{vmatrix}$	93, 532	92, 553	
Total thous of sq. yds. 11, 969 10, 220 13, 151 5, 358 7, 462 6, 594 7, 010 5, 945 9, 157 3, 207 5, 043 5, 244	6, 089 16, 057 557	3, 089 +4. 3, 057 -72.	$\begin{vmatrix} 0 & -13.9 \\ 9 & -52.9 \end{vmatrix}$	93, 532	92, 553	
Cost	557			102 012	100 000	!}
Production, polishedthous. of sq. ft _ 14,722	1			7,628	6, 700	
Glass Containers Actual production: Quantitygross 2,715	11, 426	.426 +18.	1 -12.3	130, 648	150, 498	+15.5
Quantitygross _ 2,715						
Production: 2,819 3,225 4,265 3,995 3,471 2,84	73. 6 3, 089 2, 435 6, 460	73. 6 +13. 3, 089 -2. 2, 435 +23. 3, 460 +3.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3 29, 326 3 28, 012	32, 219 29, 004	+9.
Totalnumber of turns 2, 819 3, 225 4, 265 3, 995 3, 471 2, 84					-	
New ordersper ct. of capacity 30.4	49.0 41.2	49.0 -24. 41.2 +1.	$\begin{array}{c c} 7 & -27.8 \\ 4 & -13.6 \end{array}$			+2.
of monthnumber of weeks' supply 1.4 1.4 1.5 1.3 1.0 1.5 Stocks, end of monumber of weeks' supply 4.7 4.6 4.6 4.8 5.2 5.4				9		
CHEMICALS AND OILS						
Chemicals Sulphuric acid: Exports		9, 264 -3. 78	5 +105. 8 0. 0		6, 959, 993	-0.
Importslong tons			4 +6.8 9 +2.6	1,027,909 3,163,500	930, 458 3, 160, 600	
Imports (commercial)long tons 45,505 40,088 51,757 23,603 23,237 44,07 Production in France		1	7 +78.3	1		-1.
(K ₂ O content) metric tons _ 42,500	42, 393 164, 736	·	8 +12.9	410, 316 1, 421, 216		 -1.
Superphosphate (acid phosphate): short tons. 344, 460 250, 289 348, 793 4346, 785 359, 998 Stocks, end of month short tons. 1, 393, 654 1, 292, 970 1, 512, 044 1, 750, 442 2, 001, 913	370, 231), 231		3, 803, 652		-0.
Shipmentsshort tons 86, 251 162, 587 154, 012 77, 647 77, 269	122, 439	2, 439 2, 751 —29.		1, J25, 726 1, 210, 426	1, 527, 611	+26.
Exports. long tons. 112, 346 155, 103 129, 849 101, 823 147, 483 104, 22 Consumption, Southern States.short tons. 45, 517 174, 347 101, 295 60, 692 94, 958 504, 144 145 145 145 145 145 145 145 145 145			2 +11.8	5, 572, 721	5, 447, 032 2, 563	-2.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. 1 DEC	THROUGH	Per ct. in- crease (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or decrease (-) cumu- lative 1929 from 1928
CHEMICALS AND OILS—Continued			, and the second									
Arsenic Crude:												
Production short tons Stocks, end of month short tons	887 1,876	1, 027 1, 777	3, 113 3, 309	1, 203 3, 112	2, 049 3, 774	1, 079 3, 677	1, 136 3, 019	-47.3 -2.6	-5.0 +21.8		19, 150	+16.2
Refined: Productionshort tons_ Stocks, end of monthshort tons_	857	868 3, 180	1, 036 3, 672		1, 063 4, 131	742 3, 879	913 3, 571	-30. 2	−18.7 +8.6		11, 123	+19.7
Price index numbers:	3, 414 179	·	180	176	172	170	195	-6. 1 -1. 2	-12.8	()		
Crude drugsrel. to Aug., 1914_ Essential oilsrel. to Aug., 1914_ Drugs and	188	168	161	155	146	133	191	-8.9	-30.4			
pharmaceuticals rel. to Aug., 1914. Chemicals rel. to 1927. Oils and fats rel. to 1927.	177 100 96	100	177 100 105		177 100 98	177 99 94	164 100 99	0.0 -1.0 -4.1	-1.0			
Wood Chemicals		100	103	33	80	72	33	-4.1	-0.1			
Acetate of lime:					ļ							
Production— United Statesthous. of lbs Canadathous. of lbs	11, 025 715		12, 532 367	11, 982 1, 027	11, 666 1, 246	11, 798 1, 545	11, 996 1, 263	+1.1 +24.0	-1.7 +22.3		140, 517 10, 459	+6.4 +3.2
Shipments— United Statesthous. of lbs.	10, 862	\			4 6, 729	3, 921	11, 525	-41.7		11 1	133, 107	-9.1
Canadathous. of lbs Stocks, end of month—	821	349	301	943	248	178	1, 214	-28. 2			9, 297	-21.8
United States thous. of lbs. Canada thous. of lbs. Exports thous. of lbs.	1, 259		1, 687 201	2,826 172 13	7, 761 1, 111	15, 553 2, 498	1, 544 174 42	+100.4 +124.8		11, 173	221	-98, 0
Price, wholesaledolls. per cwt Methanol, crude:	4. 50	4. 50	4, 50		4. 50	4, 50	4.50	0.0	0.0			-98.0
Production— United Statesgallons_ Canadagallons	656, 414		719, 064		830, 331	715, 886	700, 613	-13.8	+2.2	7, 540, 536		+11.7
Stocks at crude plants, end of month—	1	· ·	16, 904 255, 204	1	57, 587 247, 360	65, 090	52, 925	+13.0		1		+6.8
United Statesgallonsgallonsgallonsgallonsgallons	244, 185 20, 092	253, 356 17, 061	12, 924			389, 876 38, 408	235, 052 28, 103	+57.6 +44.5	+36.7			
United Statesgallonsgallons	526, 172 63, 702	65, 505	47, 479	30, 510	11, 518	903, 304 9, 038	145, 093 48, 495	+24.0 -21.5				
Exports. gallons. Wood at chemical plants:	33,849	49, 948	12, 329	83, 654	11, 791	47, 571	43, 915	+303.5	+8.3	567, 755	515, 281	-9.2
Consumption— United States———————————————————————————————————	70, 454 3, 228	63, 460 2, 041		71, 209 5, 435	70, 279 6, 720	73, 326 7, 625	73, 308 6, 630	+4.3 +13.5	0.0 +15.0		861, 895 54, 292	
Canadacords Stocks, end of month— United Statescords	. 565, 119	552, 338	527, 210	500, 387	486, 236	601, 972	497, 965	+23.8	+20.9			
Canadacords. Daily capacity— Totalcords	72, 026		1			71, 022	72, 933	+0.4	-2.6			
Shutdown cords. Methanol, refined:	3, 264 475				3, 246 302	3, 246 22?	3, 336 292	-26.5	$\begin{array}{c c} -2.7 \\ -24.0 \end{array}$			
Production	454, 160		445, 183		432, 978	248, 723	494, 501	-42.6			5, 299, 546	-11.4
United States gallons Canada gallons Stocks, end of month— United States gallons	. 43, 700 783, 674				72, 200 795, 868	41, 500 695, 155	59, 800 503, 054	-42. 5 -12. 7	1	11	545, 450	+26. 1
Canadagallons_ Shipments—	37, 761				32, 175		35, 534	-11.7				
United States gallons Canada gallons Price, wholesale, N. Ydolls. per gal.	487, 153 22, 188	31, 902	48, 532	46, 335	34, 803	41, 274	506, 624 47, 629	-11.1 +18.6	-13.3	316, 444	5, 881, 934 401, 800	
Ethyl Alcohol	. 58	. 58	. 58	. 52	. 51	.47	. 58	-7.8	-19.0			
Production thous. of gals. Withdrawn for denaturization thous. of gals.	20, 026		25, 426			11,601	15, 282	-28.7			206, 662	
Warehouse stocks, end of month thous. of gals.	18, 688	19, 199 11, 617	24, 203 11, 932			11, 174 7, 298	13, 911 8, 701	-40.8 -11.0			195, 470	+16.0
Explosives					}							
(Black powder, permissible, and other high explosives)												İ
Production thous. of lbs. Shipments thous. of lbs.	40, 584 39, 163	42, 299	40, 246	37,068	29, 236	31, 986 31, 709	35, 576	+3.1 +8.5	-4.8 -10.9	396, 462	438, 853	+10.7
New orders thous. of lbs. Stocks, end of month thous. of lbs.	39, 580 17, 529			35, 554 16, 734	29, 784 18, 311	30, 828 18, 636	35, 733	+3.5	-13.7		427, 271	+14. (
Naval Stores		1										
Turpentine (gum): Net receipts, southern portsbarrels_ Stocks at port, end of monthbarrels_ Price, southern, New York_dolls. per gal_	63 151	65, 770	67,038	68, 546	68, 432		8, 175 79, 837 . 61	-64. 6 -14. 5 +1. 9	-26.7	'	387, 888	+14.2
Net receipts, southern ports harrels	172.670	140, 212	120, 886	139, 264	. 128, 057	50, 791	45, 203	-60.3	+12.4	1, 199, 269	1, 386, 748	+15.6
Stocks at 3 ports, end of monthbarrels Price, B, New Yorkdolls. per bbl Rosin (wood);	. 205, 955	233, 215 9. 01	244, 767 9. 27		257, 595 8. 26	221, 568 8, 05	227, 409 8. 87	-14.0 -2.5				}
Production barrels Stocks, end of month barrels	38, 315 98, 777			40, 678 88, 038	36, 628 88, 909			+11.8 +1.5	+8.4 -25.4		449, 532	+6.9
Productionbarrels.	6, 721	6, 695	7, 640	7,498	7,068	7, 510	7, 347	+6.3	+2.2	75, 118		+11.1
Stocks, end of monthbarrels 4 Revised.	. 4,713	4, 344			8, 889							1 '

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. DEC	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	December	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
CHEMICALS AND OILS—Continued												
Naval Stores—Continued	•											
Pine oil: Productiongallons Stocks, end of monthgallons	229, 388 894, 993	222, 112 888, 328	259, 017 875, 424	249, 603 946, 258	216, 330 980, 202	254, 894 1, 005, 571		+17.8 +2.6	+6.8 +7.1	2, 693, 949	2, 738, 367	+1.0
Roofing Roofing, felt:												
Production, dry felttons Stocks, end of month, dry felttons Prepared roofing shipments: Totalthous. of sqs	26, 665 3, 974 2, 903	23, 997 4, 465 3, 011	25, 502 4, 790 3, 312	19, 249 5, 009 2, 326	16, 191 4, 970 2, 039	6, 382	19, 833 4, 630 2, 420	+30.0 +28.4 +17.1	+6.1 +37.8 -1.4	281, 420 36, 540	303, 609 39, 869	+7. +9.
Fats and Oils								·				
Total vegetable oils and copra:							i i]				
Exports thous, of lbs_ Imports thous, of lbs_ Copra, imports short tons_	1, 285 109, 091	2, 632 82, 942	88, 409	3, 362 67, 961	3, 828 80, 124	84, 194	74, 261	+21.9 +5.1	+13.4	54, 006 762, 773	28, 657 1, 068, 389	-46. +40.
Copra or coconut oil:	26, 622	18,007	17, 208	19, 722	15,022	1	23, 474	+23.1	-21.2	250, 489	283, 968	+13.
Importsthous. of lbs Consumption in	36, 623	36, 952	36, 770	24, 728	39, 775	37, 699	'	-5.2	+7.2	290, 638	411, 937	+41.
oleomargarine thous, of lbs_Oleomargarine:	14, 715	16, 075	19, 511	16, 803	17, 917	18,490	· 1	+3.2		159, 852	185, 506	
Production thous. of lbs Consumption thous. of lbs Animal glues, shipments thous. of lbs	28, 400 25, 788 7, 231	30, 562 31, 423 6, 749	36, 624 34, 591 8, 071	33, 432 35, 281 6, 146	32, 883 32, 145 5, 757	32, 540 30, 309		-1.0 -5.7			356, 246 352, 474 80, 430	+11.
Cottonseed Cottonseed:												
Receipts at millsshort tons Consumption (crush)short tons Stocks at mills, end of month _short tons	239, 538 121, 769 159, 109	488, 946	1, 487, 577 896, 904 1, 181, 420	763, 046 785, 271 1, 159, 195	566, 192 618, 821 1, 106, 566	321, 230 665, 552 760, 745	4 414, 705 4 747, 740 4 999, 198	-43.3 +7.6 -31.3	-11.0	4, 935, 770 4, 613, 650	4, 779, 057 5, 003, 622	-3. +8.
Cottonseed oil, crude: Productionthous. of lbs_ Stocks, end of monththous. of lbs_	35, 453 29, 232	149, 388 77, 339	276, 280 121, 341	245, 396 124, 002	192, 001 116, 150	207, 046 126, 525	4 236, 916 4 141, 243	+7.8 +8.9	-12.6 -10.4	1, 460, 469	1, 582, 127	+8.
Cottonseed oil, refined: Productionthous. of lbs Stocks, end of monththous. of lbs	24, 376 234, 922	82, 859 175, 023	206, 597 232, 699	218, 269 326, 843	187, 050 422, 335	172, 089 465, 226	4 203, 358 4 511, 338	-8.0 +10.2		1, 330, 765		+8.
Price, yellow, prime, New Yorkdolls. per lb	. 094	. 093	. 093	. 090	. 087	. 084	. 103	-3.4		1		
Consumption in oleomargarinethous, of lbs	2, 387	2, 362	3,022	2, 852	3, 511	2,629		-25.1	+15.2	26, 931	30, 173	+12.
Cottonseed cake and meal: Productionshort tons	56, 311 51, 727	215, 663	398, 987	349, 335	272, 531	297, 234	4 338, 282	+9.1	-12.1	2, 085, 442		
Stocks, end of month short tons Exports short tons.	51, 727 12, 837	83, 778 21, 608	162, 074 33, 434	199, 181 23, 714	203, 554 30, 894	206, 062 25, 063	4 238, 778 34, 135	+1.2 -18.9	-13. 7 -26. 6	290, 510	236, 995	-18.
Flaxseed Minneapolis and Duluth:												
Receiptsthous, of bushs	1, 479 567	4, 111 1, 655	3, 189 1, 697	1, 313 1, 445	575 592	251 163	369 283	-56.3 -72.5	-32.0 -42.4	18, 104 10, 624	13, 207 7, 920	-27. -25.
Shipments thous. of bushs. Stocks, end of month thous. of bushs. Imports thous. of bushs.	23 1, 020	909 842	1, 179 2, 582	594 1,686	882	877 1,074	1,063	-0.6 -16.7	-17. 5			+37.
Mill receipts at Duluth- Superiorthous, of bushs	42	572	·	96	4, 919		69			2, 240		+203.
Price, No. 1, Minneapolisdolls. per bush Linseed oil:	2. 79	3. 23	3. 32	3. 24	3. 22	3.08	2. 45	1				
Shipments from Minneapolis thous, of lbs. Price, New Yorkdolls, per lb.	10, 787 . 129	14, 789 . 155	13, 707 . 159	8, 467 . 150	5, 043 . 147	5, 198 . 140	12, 782 . 100	+3.1 -4.8	-59.3 +40.0	170, 859	155, 219	-9.
Linseed cake and meal: Shipments from Minneapolis_thous, of lbs_ Exportsthous, of lbs	15, 683 4 74, 874	27, 415 4 59, 539	30, 466 4 52, 423	17, 442 53, 104	18, 977 4 48, 745	20, 859 52, 833	24, 411 4 45, 718	+9.9 +8.4	-14.6 +15.6		226, 131 4 734, 429	-17. +30.
FOODSTUFFS												
Wheat Visible supply, end of month:												
United States thous, of bushs. Canada thous, of bushs.	190, 911 96, 224	198, 982 156, 620	202, 781 213, 381	191, 833 217, 102	185, 113 217, 903	4 168, 925 4 210, 643		-8.7 -3.3	+29.9 +11.6			
Stocks, millers' end of quarter thous. of bushs Receipts, principal marketsthous. of bushs	101, 669	² 174, 776 47, 046	36, 256	20, 625	² 150, 048 22, 887	17, 530	3 153, 866	-14.1 -23.4	2.4		462, 899	-11.
Shipments, principal markets thous of bushs Exports:	60, 983	32, 134	27, 116	24, 121	16, 402	14, 170	16, 762	-13.6			310, 114	
United States— Wheat onlythous, of bushs_ Including wheat flour_thous, of bushs_	12, 094 16, 935	13, 104 18, 335	8, 767 14, 664	9, 977 15, 181	7, 067 12, 121	8, 245 13, 825	3, 399 9, 559	+16.7 +14.1	+142.6 +44.6	96, 270 150, 036	90, 047 151, 912	-6. +1.
Canada— Including wheat flour thous. of bushs	13, 050	9, 624	23, 215	24, 866	18, 684	7, 258	25, 030	-61.2	-71.0	413, 747	253, 789	-38.
Prices: No. 1, Northern Spring, Minneapolisdolls. per bush	1. 35	1. 35	1. 31	1. 28	1. 31	1. 27	1. 21	-3.1	+5.0			
No. 2 Red Winter, St. Louis dolls, per bush	1. 33		1. 31	1. 20	1. 35			-3. 1 -0. 7	-5.6			
No. 2 Hard Winter, Kansas Citydolls. per bush_	1. 32	1. 35	1. 32 1. 22			ļ	İ	-0.7 -1.7	-5. 6 +4. 4			
Wheat Flour	1.20	1. 24	1. 22	1, 19	1. 21	1.19	1.14	-1.7	74.4			
Grindings of wheat: United Statesthous. of bushs Canadathous. of bushs	50, 725 7, 178	47, 583 5, 745	50, 445 6, 814	4 43, 913 7, 261	4 41, 062 4, 837	43, 821 5, 201	45, 767 7, 794	+6.7 +7.5	-4.3 -33.3	521, 449 90, 380	528, 731 83, 983	+1. -7.
Production: United States, actualthous, of bbls United States, proratedthous, of bbls	11, 058 12, 561	10, 372 11, 870	10, 968 12, 153	4 9, 538 10, 740	8, 905 9, 770	9, 506	10, 014 10, 808	+6.7	-5.1	113, 129 126, 731	115, 308 129, 188	
Canada thous, of bbls.	1, 607	1, 283	1, 528	1, 629	1,073	1, 168		18.0	-31. 2			-6.

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

⁴ Revised.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. 1 DEC	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
FOODSTUFFS—Continued												
Wheat Flour—Continued												
Grain offal, productionthous. of lbs_ Capacity operated, flour millsper cent	882, 931 62	831, 523 66	886, 004 62	4 776, 745 58	4 728, 157 54	773, 732 56	792, 580 58	+6.3 +3.7	-2.4 -3.4	9, 105, 982	9, 223, 850	+1.
Consumption (computed)thous, of bbls_ Stocks, all positions, end of	11,686	10,006	11,642	9, 884	8, 043		9, 229			113, 516	113, 813	+0.
month (computed) thous. of bbls_stocks, millers', end of quarter_thous. of bbls_	8, 800	9, 500 2 4, 479	8, 700	8, 400	9, 100 2 4, 724		7, 580 3 4, 597	+5.5	+2.8			\\
Exports: United Statesthous, of bbls	1,076	1, 163	1, 311	1, 156	1, 123	1, 240	1, 369	+10.4	_9.4	11, 949	13, 747	+15.
Canada thous, of bbls. Wholesale prices:	643	492	554	538	605	503	933	-16.9 -1.9	46. 1	10, 737	9, 520	-11.
Standard patents, Minndolls. per bbl Winter, straights,	7. 31 6. 24	7. 17 6. 10	6. 91 6. 01	6. 69 5. 92	6. 88 5. 95	6. 75 5. 84	6. 34 5. 52	-1. 9 -1. 8	+6.5		 ·	
Kansas Citydolls. per bbl	0. 24	0. 10	0. 01	9. 92	0. 90	3.84	0. 02	-1.0	+5.8			
Exports, including mealthous. of bushs.	895	693	732	752	870	819	12, 357	-5.9	-33.7	26, 900	34, 848	+29.
Visible supply, end of monththous. of bushs	5, 765 19, 023	4,638	3, 924 18, 303	3, 646 18, 526	8, 469 31, 221	4 16, 286 31, 344	28, 012 39, 876	+92.3 +0.4	-41.9 -21.4		266, 974	(
Shipments, prin. marketsthous. of bushs Grindings (starch, glucose)thous. of bushs	13, 643 7, 672	11,082	11, 075 8, 721	9, 287 6, 453	15, 493 6, 053	16, 438	19, 838	+6.1 +25.9	-17.1	212, 465	172, 587 86, 617	-18.
Prices: No. 3, Yellow, Chicagodolls, per bush	1.01	1. 01	. 95	. 88	. 88	. 85	. 93	-3.4	-8. 6			
No. 3, Yellow, Kansas Citydolls, per bush	. 99		. 92	. 87	. 84	. 82		-2.4	-5.7			
No. 3, White, Chicagodolls. per bush	1.01	1.02	. 96	. 87	. 88	. 86	. 95	-2.3	9.5			
Barley	18, 666	7, 807	E EE4	3, 808	3, 848		3, 970			102, 498	67, 405	-34.
Receipts, principal marketsthous. of bushs Visible supply, end of month_thous. of bushs	9, 805 4, 624	9, 519	5, 554 9, 877 1, 795	9, 886 1, 038	9, 927 1, 213	4 4, 894 734	8, 932 2, 277	-50.7 -39.5	-45. 2		32,642	
Exportsthous. of bushsdolls. per bushdolls. per bush	4,624	. 60	. 59	. 60	. 59	.58	. 66	-1.7	-67·8 -12·1	37, 397	52,042	-43
Oats												
Receipts, principal marketsthous. of bushs_ Visible supply, end of month_thous. of bushs_	36, 320 25, 897	13, 833 28, 809	15, 336 32, 069	7, 098 29, 720	7, 084 29, 314	6, 741 4 25, 220	9, 919 16, 212	-4.8 -14.0		154, 281	146, 222	-5
Exports, including mealthous. of bushs_ Price, No. 3, White, Chicago_dolls. per bush_	4 1, 182	4 1, 640 . 48	1, 320 . 47	4 955 4 45	4 443 . 45		1,273	-14. 9 0. 0	-70.4	4 14, 801	4 10, 823	-26.
Grindings, Canadathous. of bushs Production, oatmeal and rolled	1, 101		1, 156	908	793		824	-16.6		11, 403	11, 032	-3.
oats, Canadathous. of lbs_	14, 228	12, 263	14, 632	10, 457	4 8, 891	7,318	9, 956	-17.7	-26.5	149, 620	137, 489	-8
Rye												
Receipts, principal marketsthous. of bushs Visible supply, end of month_thous. of bushs	5, 766 8, 015	8,889	3, 405 9, 903	1, 496 10, 588	5, 946 8, 656		1, 045 5, 973			27, 925	27, 689	
Exports, including flourthous. of bushs- Price, No. 2, Minneapolisdolls. per bush	470 . 98		562 . 97	. 95	. 98	. 91	197 1. 01	+7.7 -7.1	-85.8 -9.9	14, 671	3, 521	-76
Total Grains						-						l
Total grains exports, incl. flour_thous. of bushs	4 24, 106	4 28, 097	4 19, 073	4 17, 948	4 14, 673	15, 783	4 25, 663	+7.6	-38. 5	4 264, 005	4 233, 746	-11
Rice										į		
Southern paddy, receipts at millsbbls Shipments:	1	1, 387, 795		1	797, 381	1	'					
Total from mills pockets (100 lbs.) New Orleans pockets (100 lbs.)	506, 895 126, 470	156, 232	249, 474	1, 133, 769 178, 168	132, 592	88, 638	146, 342	+4.9 -33.1	-39.4	2, 016, 420	10, 062, 958 1, 729, 393	
Stocks, end of month pockets (100 lbs.) Exports pockets (100 lbs.)	221, 314		229, 686	340, 753	420, 212	323, 281	504, 921	-5. 0 -23. 1 -35. 8	-36.0	3, 793, 709	3, 860, 140	+1
Importspockets (100 lbs.) Other Crops	. 5, 548	0, 232	0,002	12, 434	00,400	34,004	10,000	-35. 8	-55.2	330, 984	255, 129	-24
Apples: Cold-storage holdings.												
end of monththous. of bbls_ Car-lot shipmentscarloads_	79 3, 532	13, 114	7, 997 36, 366	9,380 14,046		6, 036 6, 095		-24. 2 +6. 4			101, 009	-13
Potatoes, car-lot shipments carloads Onions, car-lot shipments carloads	16, 871	23, 978	31, 253	15 200	14, 826 2, 232	19, 857 3, 277	19, 479 2, 436	+33.9 +46.8	+1.9	250, 626	246, 612	:∥ –1
Citrus fruits, car-lot shipmentscarloads	2, 545 7, 348	5, 684	8,652	8, 936		10, 091		7.7	-33.7	94, 176		+46
Cattle and Beef										ļ		
Cattle movements, primary markets: Receiptsthousands	1,616			1, 939						21, 477	20, 380	-5
Shipments, totalthousands_ Shipments, stocker and feeder_thousands_	. 267	423	757	1,009 556	255	233	178	-8.6	+30.9	3,966	3,651	l∥ – 7
Local slaughter thousands Beef products:		1		ł	921				1	1		
Production, inspected thous. of lbs. Apparent consumption thous. of lbs.	406, 700 419, 494	423, 701	4 453, 543	386, 168	4 364, 142	415, 582	430, 985	+14.1	-2.7 -3.6	4, 813, 354	4, 727, 582 4, 848, 105	5 +4
Exports thous of lbs. Cold-storage holdings,						1		'	1	1		
end of month thous, of lbs Prices: Cottle corp fed Chicago della per 100 lbs.		i	1			1 '			1	II .		
Cattle, corn-fed, Chicago dolls. per 100 lbs Steer rounds, No. 2	. 238	. 236	. 236	. 240	. 240	. 240	. 240	0.0	0.0	3		
Western dressed steers, N. Y. dolls. per lb 2 Quarter ending in more			238		•	Dec. 31, 19		., 0.0		Revised.	·	.11

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

⁴ Revised

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) or	CUMULATI FROM JAN. 1 DEC	THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
FOODSTUFFS—Continued												
Hogs and Pork												
Hog movements, primary markets: Receipts	2, 930 1, 124 38 1, 810	3, 062 1, 123 40 1, 923	3, 674 1, 377 50 2, 310	3, 910 1, 394 52 2, 521	4, 221 1, 437 53 2, 767	4, 720 1, 797 38 2, 905	5, 061 1, 864 47 3, 194	+11. 8 +24. 2 -28. 3 +5. 0	-6.7 -3.6 -19.1 -9.0	735	43, 564 16, 115 623 27, 426	-6.4 -6.3 -15.2 -6.3
Production, inspectedthous, of lbs. Apparent consumptionthous, of lbs. Exportsthous. of lbs. Cold-storage holdings, end of month:	586, 150 4 617, 432 87, 277	552, 490 4 614, 108 84, 650	4 651, 681 4 717, 951 97, 196	738, 485 657, 403 114, 707	851, 300 4 602, 470 104, 377	874, 334 691, 172 105, 817	974, 060 622, 505 122, 577	+2.7 +14.7 +1.4	-10.2 + 10.0 - 13.7	7, 330, 460	8, 430, 319 7, 299, 454 1, 191, 563	-1.7 -0.4 +9.8
Total thous. of lbs. Fresh and cured thous. of lbs.	899, 485 719, 400	754, 188 600, 498	591, 247 491, 402	558, 146 489, 629	4 703, 084 4 620, 986	780, 925 688, 249	978, 806 838, 280	+11.1 +10.8				
Lard (included in pork products): Production thous of lbs- Exports thous of lbs- Cold-storage holdings,	121, 894 55, 487	114, 179 58, 329	128, 951 70, 698	144, 987 83, 257	176, 607 80, 053	73, 291	213, 780 89, 932	-8.4	-18.5	'	829, 114	+0.8 +9.1
end of month thous, of lbs Prices: Hogs, heavy, Chicago dolls, per 100 lbs	180, 085 10, 66	153, 690 9, 96	99, 845 9, 65	68, 517 9. 27	4 82, 098 9. 47	92, 676 9, 61	140, 526 9. 10	+12.9	-34.1 +5.6			
Ham, smoked, Chicagodolls. per lb_ Lard, prime contract, N. Ydolls. per lb_	. 275 . 124	. 267	. 242 . 114	. 218	. 215 . 108	. 239	. 232 . 121	+11. 2 +0. 9				
Sheep and Lambs												
Sheep movement, primary market: Receipts thousands Shipments, total thousands Shipments, stocker and feeder thousands Local slaughter thousands	2, 537 1, 384 639 1, 155	3, 353 1, 969 1, 027 1, 301	4. 091 2, 818 1, 831 1, 326	2, 167 1, 207 575 994	1,701 732 183 966	1, 903 786 126 1, 111	1, 876 837 188 1, 040	+11.9 +7.4 -31.1 +15.0	-6.1 -33.0	13, 323 5, 009	26, 834 13, 973 5, 565 12, 841	+4.9 +11.1
Lamb and mutton: Production, inspectedthous. of lbs Apparent consumptionthous. of lbs Cold-storage hoodings,	49, 096 48, 743		52, 677 51, 963	45, 233 44, 976	43, 742 4 43, 605	50, 913	47, 139	+15.0 +16.8	+8.0	523, 560	545, 492 549, 603	+4.4 +5.0
end of monththous. of lbs_ Prices: Sheep, ewes, Chicagodolls. per 100 lbs_	3, 159 5. 16	4, 113 4, 68	4. 63	5, 194 4. 98	4.94	4, 664 6. 26	4, 009 8, 39	-13.3 +26.7	-25, 4			
Sheep, lambs, Chicagodolls. per 100 lbs Miscellaneous Meats	12, 88	12. 55	12.09	11.97	12.00	12.68	15. 59	+5.7	-18.7			
Cold-storage holdings, end of mo.thous. of lbs	76, 539	71, 511	63, 914	72, 744	4 89, 742	88, 975	88, 678	-0.9	+-0.3			
Total Meats	,,,,	,	,	,		,			,		į	
Production, inspected thous. of lbs_Cold-storage holdings, end of mo.thous. of lbs_Apparent consumption thous. of lbs	1, 027, 197	1, 021, 929 886, 246 1, 087, 369	1, 162, 798 732, 212 1, 223, 571	729, 528	1, 265, 885 4 902, 026 1, 010, 217	1, 333, 148 973, 561 1, 157, 668	1, 165, 483	+5.3 +7.9 +14.6	-7.4 -16.5 +4.6		13, 703, 393 12, 693, 989	-0.9 +0.2
Poultry												
Receipts at 5 marketsthous. of lbs Cold-storage holdings, end of mo.thous. of lbs Fish	26, 150 49, 010			73, 662 115, 876	77, 325 4 140, 723	33, 386 141, 461	30, 969 102, 380	-56.8 +0.5	+7.8 +38.2	355, 904	389, 517	+9.4
Total catch, prin. portsthous. of bbls Cold-storage holdings, 15th of mo_thous. of lbs Canned salmon:	43, 903 64, 723		33, 243 75, 323	27, 332 78, 968	18, 074 75, 847	62, 428	15, 496 62, 375	—17. 7	+0.1	296, 614	373, 227	+25.8
Shipments, United States cases Exports, Canada cases	830, 404 53, 100	937, 041 118, 250	584, 590 162, 831	378, 695 177, 252	553, 078 159, 488	505, 831 71, 285	523, 761 205, 096	-8.5 -55.3				$ \begin{array}{r} -3.7 \\ -6.0 \end{array} $
Butter												
Production (factory) thous. of lbs Receipts, 5 markets thous. of lbs	144, 436 54, 885	117, 431 44, 500	109, 733 42, 963	90, 631 38, 228	94, 350 39, 843	103, 949 43, 507		+10. 2 +9. 2	+9. 2 -3. 2	1, 487, 049 578, 773	1, 488, 527 602, 668	+0. 1 +4. 1
Cold-storage holdings, creamery, end of month thous, of lbs. Apparent consumption thous, of lbs. Wholesale price, New York dolls. per lb.	168, 952 185, 708 . 43	174, 193		111, 650 153, 125 . 43	160, 464	60, 229 160, 417 . 37	24, 747 157, 457	-26. 5 -9. 8	+143. 4 +1. 9	2, 080, 316	2, 112, 530	+1.5
Cheese												
Total, all varieties: Production (factory)thous. of lbs. Receipts, 5 marketsthous. of lbs. Apparent consumptionthous. of lbs. Cold-storage holdings,end mo.thous. of lbs. Importsthous. of lbs.	37, 751 18, 605 39, 453 106, 009 5, 268	38, 414 102, 849	27, 665 14, 344 42, 329 94, 879 6, 911	86, 949	4 80, 623	23, 807 12, 525 40, 424 69, 185 5, 361	40, 192 74, 016	+5. 6 +15. 1 +13. 2 -14. 2 -23. 6	+0.6 -6.5	196, 614 493, 657	178, 900 460, 014	-6.8
Exports, United Statesthous. of lbs Exports, Canadathous. of lbs American whole milk: Cold-storage holdings.	138 11, 047	284 16, 954	195 17, 144	130 13, 925	4, 963	181 1,552	1, 500	-24. 9 -68. 7	-25.8 +3.5	2, 601 114, 152	2,644	+1.7
end of monththous. of lbs Wholesale price, New Yorkdolls. per lb	86, 558 . 23	84, 815 . 24		71, 065 . 24	4 63, 478 . 23			-15. 4 -8. 7				
Eggs	1 15-		70.	500	400	0.5	0.40			10 100	15 710	
Receipts, 5 markets thous. of cases Cold-storage holdings, end of month: Case thous. of cases thous. of cases thous. of lbs.	1, 151 8, 547 86, 693	7, 195	4, 930	532 2, 631 61, 772	4 704	139	248	+44. 9 -80. 3 -17. 8	-44.0		15, 710	

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. 1 DEC	THROUGH	Per of increase (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crea: (
FOODSTUFFS—Continued												
Milk												
Condensed milk: Total stocks, mfrs., end mo.—												
Case goodsthous, of lbs_Bulk goodsthous	32, 142 29, 217	29, 893 30, 038	29, 182 27, 559	27, 126 24, 514	25, 462 4 23, 606	21, 740 22, 884	10, 393 6, 271	-14.6 -3.1				
Unsold stocks, mfrs., end mo.— Case goodsthous. of lbs	26, 950	24, 237	23, 614	21,732	20, 341	16, 502		-18.9				1
Bulk goods thous	8, 751	8, 019	23, 614 7, 735 4, 019	6, 855 2, 771	4 7, 600 3, 100	6, 289 2, 623	2, 925	-17.2 -15.4	+209.1 $+114.7$ -2.6	38, 624	41, 277	+6
Exports thous. of lbs. Wholesale price, New York dolls. per case.	6. 13	6. 13	6. 13	6. 13	6. 13	6. 13		0.0	-0.8			
vaporated milk: Manufacturers' stocks, end of mo.—												
Total, case goodsthous. of lbs Unsold, case goodsthous. of lbs	272, 427 186, 717	249, 936 192, 761	244, 035 192, 084	231, 970 185, 455	4 211, 954 4 169, 345	175, 974 143, 769	137, 163 112, 430	-17. 0 -15. 1	+28.3 +27.9			
Exports	4,609	3,703	5, 179	4, 767	5, 339	5,839	6, 021,	+9.4	-3.0	76, 790	68, 922	-1
roduction, condensed and	4. 30	4. 21	3. 95	3. 95	3. 95	3. 95		0.0	-13.8			
evaporated milkthous. of lbs_owdered milk:	180, 084	136, 738	124, 434	107, 119	117, 095	125, 073	4 129, 982	+6.8	-3.8	1, 918, 427	2, 126, 582	+1
Manufrs.' stocks, end mothous. of lbs	33, 491	30, 775	29, 118	29, 616	4 31, 061	27, 870	13, 450	-10.3	+107.2	4 010		-
Exports thous, of lbs Net new orders thous, of lbs	250 8,069		678 6, 879	446 6, 927	561 6, 845	944	372 5, 496	+68.3	+153.8	4, 018 71, 558	5, 342 82, 420	+3 +1
luid milk: Receipts—												
Boston (includ. cream)thous. of qts	19, 115	18, 273	18, 699	18, 990	18, 224		16, 631			214, 375	221, 352	+
Greater New Yorkthous. of qts Production—	114, 768		116, 449	111, 999			111, 129			1, 360, 171		
Minneapolis, St. Paulthous. of lbs Consumption in manufacture	25, 737	21, 974					28, 388			315, 102		
of oleomargarinethous. of lbs_	8, 144	8,824	10, 321	9, 486	9, 169	9,035	8, 036	-1.4	+12.4	93, 495	98, 841	+
Sugar				j								
aw: Imports—							.					
From Hawaii, Porto Ricolong tons	90, 922 410, 479		92, 684 256, 953	31, 962 182, 891	14, 232 156, 031	77, 132 192, 123		+442.0 +23.1	+11.9 -24.9	1, 360, 682 3, 443, 615		
From foreign countrieslong tons_ Meltings, 8 portslong tons_	504, 207	322, 716	380, 758	305, 946	235, 605	326, 416	332, 872	+38.5	-1.9	4, 726, 175		
Stocks at refineries, end month_long tons efined:	830, 508	873, 286	798, 870	728, 484	682, 429	616, 247	221, 334	-9.7	+178.4			
Shipments, 2 portslong tons	89, 294	47, 447	60, 610	37, 394 43, 783	45, 152	60, 224 32, 994	50, 026 28, 042		+20.4		803, 057	+
Stocks, 2 portslong tons Exports, including maplelong tons	47, 419 8, 579		39, 375 5, 674	45, 783	46, 243 3, 363	5, 637			+17.7 -31.6	111, 895	91,896	
ices: Wholesale, 96° centrif., N. Y_dolls. per lb	. 038	.040	. 040	. 038	. 038	. 037	. 038	-2.6	-2.6			l
Wholesale, granulated, N. Y. dolls, per lb Retail, granulated, N. Ydolls, per lb	.054	. 053	. 054	. 050		. 051	. 050	+2.0	+2.0			
Retail average, 51 cities relative to 1913	.060 120	. 061	. 061 122	. 061 122	120			0. 0 0. 0	-3.3 -1.6			
uban movement (raw): Receipts at Cuban portslong tons	211, 090	120, 530	94, 130	88, 875	116, 101	192, 153	638, 996	+65.5	-69.9	3, 970, 201	4, 892, 060	+
Exports long tons	464,310	349, 972	241, 256	174, 904	192, 160	145, 189	237, 350	$ \begin{array}{r} -24.4 \\ +72.0 \end{array} $	-38.8	3, 976, 268		
Stocks, end of monthlong tons	739, 068	503, 592	320, 921	254, 694	181, 460	312, 187	407, 107	T12.0	-31. 7			
Candy												
ales by manufacturersthous. of dolls_	4 26, 164	34,779	4 38, 484	37, 884	4 33, 657	24, 538	4 24, 114	-27.1	+1.8		344, 177	
Coffee												
aportsthous. of bags isible supply:	875	925	1,004	822	955	1,036	1, 033	+8.5	+0.3	12, 022	11, 230	-
Worldthous. of bags	5, 269		5, 043	4, 979	5, 079		5, 038	+0.8	+1.6			
United States	685 1, 191			598 1, 446	693 1, 553						14, 606	3
learances: Total, Brazil, for worldthous. of bags	1, 242	1, 234	1, 324	1, 214	1, 199	1,470	1, 176	+22.6	+25.0	13,660	13, 972	
Total, Brazil, for U. Sthous. of bags. ice, Rio No. 7, Brazil gradesdolls. per lb	655	642	682	573	587	881	678	+50.1	+29.9	7, 299		-
	. 161	. 158	. 139	.116	. 099	. 103	. 183	+4.0	-43.7			:∥
Tea				• • • • •	2 200		10.070	A	١	00.000	00.000	
nportsthous. of lbs.rice, Formosa fine, New Yorkdolls. per lb.	7, 019 . 310				8, 680 . 304			-24.7 -1.3			89, 373	3 -
Cocoa							-					
hipments from the Gold and Nigerian Coasts, Africalong tons	5, 238	4, 459	18, 491	40, 483		43, 838			-26.8		287, 918	3 -
oot price, Accra, New Yorkdolls.	15, 922 . 1081	10, 481	16, 147 . 1063				15, 753 . 1038	+10.3 +0.8			226, 598	4
	11001		12000				11000	'"				
TOBACCO												
onsumption (tax-paid withdrawals): Large cigarsthousands	598, 583	591, 738	701, 711	622, 938	410, 863	418, 900	427, 716	+2.0	-2.1	6, 453, 669	6, 551, 683	3 -
Small cigarettesthousands	10, 930, 629	10, 350, 544	11, 202, 294	9, 041, 043	8, 261, 357	10, 208, 232	10, 160, 263	+23.6	+0.5	105, 915, 965	119, 038, 843	3i +
Manufac. tobacco and snuff_thous. of lbs_xports:	· ·					1		1		1		11
Unmanufactured thous. of lbs. Cigarettes thousands.	41, 343 659, 187	55, 965 558, 249	79, 150 586, 767			46, 885 465, 464	45, 804 1, 010, 368	$ \begin{array}{r r} -29.5 \\ -31.9 \end{array} $		583, 843 11, 706, 110	567, 992 8, 455, 401	2 -
ales of loose-leaf warehousesthous. of lbs	76, 238		166, 456			400, 409	174, 751			817, 969		-
tocks, end of quarter: Chewing, smoking, snuff, and												
export thous. of lbs Cigar tobacco thous. of lbs Total, including imported thous. of lbs		2 1,214, 166			2 1,330, 499		3 1,373,637	+9.6 -15.2	-3.1 -4.8			-
Total, including importedthous. of lbs_		2 1,611, 938			2 1,680, 290	-	3 1,755, 408	+4.2				
							,					

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. DEC	I THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
TRANSPORTATION River and Canal Cargo Traffic											-	1020
Panama Canal: Total cargo trafficthous, of long tons. In American vesselsthous, of long tons. In British vesselsthous, of short tons. Sault Ste. Marle canalsthous, of short tons. New York State canalsthous, of short tons. Cape Cod Canalshort tons. Suez Canalthous, of metr, tons. Welland Canalshort tons. Welland Canalshort tons. Mississippi River Govt. bargesshort tons.	2, 681 1, 311 639 14, 085 380 206, 188 2, 762 612, 943 809, 323 85, 000	389 199, 955 2, 772 574, 241 775, 772	774 11, 213 491 243, 668 2, 997 623, 651 749, 287	1, 271 579 6, 952 333 196, 259 2, 726 448, 150 523, 328		186, 172		-1.9	+31.6	29, 394 13, 560 8, 195 86, 993 3, 139 1, 405, 782 32, 622 7, 439, 617 8, 411, 542	31, 452 14, 845 8, 263 92, 622 2, 165, 465 34, 536 4, 769, 866 5, 684, 755	+0.3 +6.4 +54.6 +5.6 -35.
Ohio River, Pittsburgh, Pa., to Wheeling, W. Va. short tons. Allegheny River short tons. Monongahela River short tons.	1, 080, 996 330, 123 2, 500, 617	1, 144, 682 364, 309 2, 374, 949	366, 351	1, 034, 382 317, 967 2, 367, 506	757, 527 156, 993	578, 224	478, 265 88 940	-23.7 -40.2	+20.9 +5.5	10, 175, 011 2, 873, 495 26, 097, 158	11, 206, 799 3, 195, 768 28, 258, 462	+11.
Ocean Traffic Clearances, vessels in foreign trade: Totalthous, of net tons. Americanthous, of net tons. Foreignthous, of net tons.	8, 428 3, 219 5, 208	2,833	3,041	2,982	5, 607 2, 078 3, 529	2,023	1,950	+1.5 -2.6 +4.0	+3.7	79, 732 31, 804 47, 928	82, 494 31, 907 50, 587	+0.
Completed during month: Totalgross tons. Steel seagoinggross tons. Building or under contract, end of month: Merchant vesselsthous, of gross tons.	32, 298 21, 497 215	28, 325 24, 322 254	2, 167	7,369	13, 692 10, 633 372	21, 493	7, 413 3, 392 126	+102.1	+220.8	98, 253	208, 790 117, 993 2, 994	+20.
Freight Cars Surplus (daily av. last week of month): Total	158, 112 87, 985 31, 021		124, 194 80, 956 17, 066	181, 198	246, 982	217,024	278, 213 136, 959 92, 243	-12. 2 -12. 1 -14. 5	+58.5			
Shortage (daily av. last week of month): Total	12	,	436			9	1 1		-88.6			
Car loadings: Total cars Grain and grain products cars Livestock cars Coal and coke cars Forest products cars Ore cars Merchandise and l. c. l cars Miscellaneous cars	343, 449 378, 560	811,081 251,726 274,599	185, 681 149, 101 877, 576 254, 356 240, 164	191, 975 156, 889 1, 001, 992 275, 208 146, 073	101, 798 816, 589 181, 810 32, 877 908, 985	156, 665 108, 036 828, 272 181, 810 33, 657 890, 152	43, 571, 455 4 182, 094 4 117, 943 4 857, 973 4 216, 960 4 35, 640 4 916, 161 11, 244, 684	+0.3 -1.9 +6.1 +1.4 0.0 +2.4 -2.0 +0.9	-3. 5 -16. 2 -5. 6 -2. 8	1 590 015	52, 790, 266 2, 394, 585 1, 418, 894 9, 860, 401 3, 249, 107 2, 281, 257 13, 201, 049 20, 384, 973	+2. -4. -6. +6. -2. +19. +0. +2.
Railroad Operations	2, 200, 001	1,020,070	1,001,000	1,010,112	1,110,100	1, 100, 502	1, 221, 001	7 0.0		10,001,220	20,001,010	T2.
Operating revenue: Freight	84, 267 586, 563 395, 686 152, 232	75, 736 566, 720 383, 349	66, 118 608, 661 404, 327 152, 987	62, 451 499, 211 372, 167 86, 669	74, 438 468, 879 362, 814		74, 987				1 .	
Railway Equipment Locomotives (Am. Ry. Assn.):												
Owned, end of month— Quantitynumber_ Tractive powermills. of lbs In bad order, end of month— Quantitynumber	57, 477 2, 540 7, 106	57, 355 2, 540 7, 668	2, 538	2, 535	!	2, 531	58, 608 2, 559 8, 161	-0.1 0.0 +3.6	-1.1 -2.7			
Per cent of total in useper cent_ Installednumber_ Retirednumber_ New ordersnumber_	12. 4 153 306	13. 5 127 248 84	166	187 343	13. 6 158 377 167	160 227	236	+3.7 +1.3 -39.8 -2.4	+44.1 -3.8	1, 390 3, 333	1, 722 3, 601 1, 048	+23. +8. +196.
Shipments, manufacturers' (Census)— Total number_ Steam, domestic number_ Electric, domestic number_ Unfilled orders (railroads), end of mo.—	117	75 60 7	96 90 6	75	67 62 1	48	23 6 6	-28. 4 -22. 6	+108.7	550 367 92	850 707 39	+92.
From manufacturersnumber_ In railroad shopsnumber_ Unfilled orders, manufacturers' (Census)—	370 25 436	329 25 429		65	336 95 490	l	236 42 278	-0.6 $+12.6$ $+19.4$	+154.8			
Total number Steam, domestic number Electric, domestic number Exports, steam number Freight cars (Am. Ry. Assn.):	392 13	347 55 20	347 49	340 49	435 48 13	527 48	251 251 21 18	+21. 1 0. 0 -84. 6	+110.0 +128.6			
Owned, end of month— Quantitythous. of cars Capacitymills. of lbs In bad order, end of month—	2, 268 208, 897 134, 253	2, 266 209, 001 132, 611	2, 265 209, 137 126, 055	209, 340	2, 263 4 209, 516 118, 807	209, 908	'	+0.1 +0.2 +4.6	+0.4			
Quantitycars_ Per cent of total in useper cent ² Quarter ending in montl	6.0	6. 0		5.6	5.4		6. 2l			Revised.		

The cumulatives shown are through De-			1929]	1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN, 1 DEC	1 THROUGH	Per ct. in- crease (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or de- crease (-) cumu- lative 1929 from 1928
TRANSPORTATION—Continued												
Railway Equipment—Continued												
Freight cars (Am. Ry. Assn.)—Continued.	0 500	4.057	17 007	5 100	0.705	e eno	10.450	20.0	40.7	27 020	00 000	
New orderscars_ Shipments—cars	2, 562 7, 811	,	17, 207	5, 126	9, 785	6, 632		-32. 2		37, 039		+165.
Domesticcars_ Unfilled orders (railroads)—	7, 811	7, 614 7, 239	7, 818 7, 363	6, 956 6, 891	7, 856 7, 513	8, 095 7, 426	1, 814 525	+3.0 -1.2	+346.3	39 , 436 37, 984	68, 767	+183. +81.
Totalcars	31, 671	29, 317	33, 123	30, 069	34, 085	33, 457	28, 121	-1.8				
From manufacturerscars_ In railroad shopscars_	27, 289 4, 382	25, 554 3, 763	29, 857 3, 266	25, 677 4, 392	29, 796 4, 289	28, 057 5, 400	24, 109 4, 012	-5.8 + 25.9	+16.4 $+34.6$			
Passengers cars: New orderscars	149		51	57	77	58	228	-24.7	-74.6	1, 773	1, 262	
Shipments— Totalcars	76	96	69	189	116	95		-18.1	14.4	1, 232	1, 126	∥ −8.
Domesticcars_ Owned or leased, end of quartercars_	64	77 2 52, 165	69	149	116 2 51, 877	. 80	109 3 52, 769	-31.0 -0.6			1, 018 209, 306	
Unfilled orders, end of quartercars		ź 681			² 410		³ 853	-39.8	-51.9		*******	
Passenger travel												
National parks: Visitorsnumber_	523, 623	220, 766	67, 012	52, 563	35, 762	47, 296	46, 242	+32.3	+2.3	2, 059, 824	2, 095, 247	+1.
Automobiles enterednumber_	112, 574		12, 415	8, 574	5, 675	19, 335		+240.7		388, 002		
Arrivals from abroad: Immigrantsnumber	22, 778	28, 020	26, 740	21, 522	17, 842		17, 806			290, 297	268, 941	−7 .
United States citizensnumber_ Departures abroad:	70, 783	85, 946	47, 757	25, 129	21, 177		23, 450			442, 599	470, 045	li
Emigrantsnumber_ United States citizensnumber_	5, 571 70, 551	5, 150 49, 429	4, 907 39, 767	3, 053 20, 413	4, 880 27, 404		4, 670 28, 808			77, 600 451, 972	452, 658	H +0.
Passports issuednumber_ Pullman company operations:	11, 295	·	8, 485	8, 895	7, 323	8, 485		+15.9	-10.8		196, 933	!!
Revenue thous, of dolls Passengers carried thousands	7, 927 3, 287	7, 483 3, 031	6, 800 2, 721	5, 722 2, 437	6, 507 2, 731		7, 033 2, 836			80, 846 33, 924		
Trend of business in hotels:	65	69	75	73	67	73		+9.0			55, 255	1
Room occupancyper ct. of capacity A verage sale per occupied roomdollars	4. 13	4.02	4, 11	4. 17	3. 92	4. 04		+3.1	-1.9			
Warehouses												
Public merchandise warehouses,	7 1 0	~										
space occupiedper ct. of total_	71.9	74.3	76. 4	4 77. 1	76. 2		67. 7					
PUBLIC UTILITIES							1					
Telephone companies: Operating revenuesthous, of dolls_	75, 898	75, 606	79, 653	77, 664	78, 675		74, 788			826, 264	908, 968	+10
Operating incomethous. of dolls Telegraph companies:	17, 601	18, 197	20, 047	18, 302	18, 271		1 3		l i	199, 233	218,010	+9.
Commercial telegraph tolls_thous. of dolls_ Operating revenuesthous. of dolls_	12, 067 15, 316	11, 531 14, 751	12, 485 15, 947	10, 540 13, 633	11, 298 14, 572		11, 180 14, 133			130, 648 164, 362	137, 486 174, 972	+5. +6.
Operating incomethous, of dolls_Gas and electric companies:	1, 688	1, 724	2, 029	2, 260	2, 304		1, 658			21, 404	21, 503	+0.
Gross earnings thous, of dolls. Net earnings thous, of dolls.	179, 500 73, 000	185, 000 80, 000	197, 500 83, 000	202, 500 92, 000			203, 000			2, 229, 553 868, 703	2, 308, 750 1, 006, 500	+3. +15.
Electric railways (212 companies): Passengers carriedthous. of persons_	724, 812			748, 624	795, 643		799, 843	-1.7				
A verage farecents_	8. 260	8. 260	8. 272	8. 272	8. 272	8. 288	8. 194	+0.3			9, 140, 044	—1.
ELECTRIC POWER												
Electric power production: Totalmills, of kw. hours	0 254	0 001	0 700	4 0 049	4.0 510	0.047	0.041	110		07 010	07.001	
By water powermills. of kw. hours	8, 354 2, 835	2, 471	8, 708 2, 730	4 8, 243 264	4 8, 510 4 2, 748	8, 647 2, 900 5, 747	8, 241 2, 698	+1.6 +5.5	十7.5	87, 850 34, 698	34, 602	-0.
By fuelsmills. of kw. hours In street railways,		1	5, 978	4 560		5, 747		-0.3	+3.7	1		
manfg. plants, etcmills. of kw. hours_ In central stationsmills. of kw. hours_	390 7, 964	380 7, 681	389 4 8, 319	360 47,889	402 8, 114		437 7, 804			5, 025 82, 870	4, 606 92, 687	-8. +11.
Electric power production (Canada): Totalmills. of kw. hours	1, 447	1, 477	1, 594	4 1, 595	1, 538		1,507			15, 931	17, 629	+10.
By water powermills. of kw. hours_ Exportedmills. of kw. hours_	1, 428 133	1, 455	1, 559 126	4 1, 559 124	1,499		1, 478 114			15, 705 1, 588	17, 298	+10.
Electric power, gross revenuethous. of dolls Consumption of electrical energy:	163, 400				190, 300					1, 908, 499	2, 073, 100	+8.
By geographic divisions— United States———rel. to 1923–25—	128. 2	135, 8	194 6	199.0	116.4	101 0	199 5	ه ۱۸ ه				
New Englandrel. to 1923-25	108. 7	118. 2	126. 2	122. 9 118. 1	116. 4 107. 0		127. 6	+12.6	-5.6			
North Centralrel. to 1923–25_ Middle Atlanticrel. to 1923–25_	135. 5 127. 9	138.0	133, 0	124.3	109. 0 120. 5	125. 8	126.7	+4.4	-7.8 -0.7			
Southernrel. to 1923-25_ Westernrel. to 1293-25_	132. 7 127. 0			122. 8 142. 6				-15.6 -8.6	-8.7 -12.7			
By industry—		1			116.4	1	{	+4.6		[]		ll
All industryrel. to 1293-25_ Chemical and allied productsrel. to 1923-25_	125. 0						1	-7. 6		il		ļ
Food and kindred		1								1		
productsrel. to 1923-25_ Rolling mills and steel	132. 2			ĺ		132.3		+9.2		l i		1
plantsrel. to 1923-25	150. 9	152, 3	144.8	123. 2	120.5	143. 1	153.5	+18.8	-6.8	1		٠

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

⁴ Revised.

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	FROM JAN.	IVE TOTAL 1 THROUGH 2. 31	Per of increase (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crea: (
ELECTRIC POWER—Continued												
Consumption of electrical energy—Continued. By industry—Continued. Metal working plantsrel. to 1923-25 Metal groupsrel. to 1923-24	134. 6 140. 7	147. 4 149. 2		128. 7 126. 7	127. 2 124. 9	126. 7 132. 9		-0.4 +6.4	-6.7 -6.8			
Leather and its productsrel. to 1923-25 Lumber and its	102. 2	105. 4	93. 0	97. 6	89. 0	92. 3	94.3	+3.7	-2.1			
productsrel. to 1923-25_ Paper and pulprel. to 1923-25_	102. 3 123. 6	111. 4 127. 0		111. 8 133. 7	92. 8 132. 1	87. 5 120. 8		-5.7 -8.6				ļ
Rubber and its products rel. to 1923–25 _ Shipbuilding rel. to 1923–25 _ Stone, clay, and glassrel. to 1923–25 _ Textiles rel. to 1923–25 _	120. 2 96. 3 157. 7 110. 0	133, 7 114, 9 165, 7 115, 5	134. 4 159. 2		108. 4 120. 4 146. 2 109. 8	144. 4 124. 4 124. 2 112. 4	108. 2 137. 4	+3.3 -15.0	+15.0			
Automobiles, including repair partsrel. to 1923-25	143. 0		1	88. 4	79. 4	99.8			-13. 1 -33. 2	Ì	[
EMPLOYMENT AND WAGES				j								
Employment in factories: Massachusetts. rel. to 1919-23. New York State rel. to 1923. New Jersey rel. to 1923. Pennsylvania rel. to 1923. Delaware rel. to 1923. Maryland rel. to 1924. Iowa rel. to 1923. Illinois rel. to 1925-27. Wisconsin rel. to 1925-27. Ohio rel. to 1923. Cleveland rel. to 1923. Milwauke number. New York State number. Oklahoma number. Potal pay roll:	77. 8 87. 7 103 87 84 93. 0 133. 2 105. 1 99. 2 116 125. 0 43, 736 485, 330 38, 978	494, 311	89. 7 103 87 83. 1 133. 6 103. 8 98. 1 113 119. 2 40, 599 496, 578	76. 1 87. 6 100 93 84 90. 9 130. 0 102. 7 94. 7 107 108. 8 39, 591 485, 018 37, 510	73. 2 84. 2 95 91 84 89. 2 126. 8 99. 3 90. 1 102 106. 2 39, 016 465, 915	82.3 93 90 81 86.2 122.9 97.8 90.0 101 109.1 39,823 455,480	97 81 75 85.7 121.8 98.2 94.2 108 117.9 40.707	-2.3 -2.1 -1.1 -3.6 -3.4 -3.1 -1.5 -0.1 -0.9 +2.7 +2.7 +2.2	-4.1 +11.1 +8.0 +0.6 +0.9 -0.4 -4.5 -6.5 -7.5			
New York State (weekly)_thous, of dolls_ Oklahoma (weekly)_thous, of dolls_	14, 599 1, 074	15, 063 1, 015		14, 328 1, 032	13, 860		13, 938 884					
Wisconsin rel. to 1923 New York State rel. to 1923 New Jersey rel. to 1923 Pennsylvania rel. to 1923 Delaware rel. to 1923	105. 3 96. 8 115 93	99. 2 99. 9 116 91 88	106. 0 99. 1 118 93	100. 4 95. 0 112 90 90	89. 7 91. 9 107 86 90.	87. 7 89. 7 105 85 86	96. 1 92. 5 108 82	-1.9 -1.2	-3. 0 -2. 8			
Illinoisrel. to 1925–27_ Employment, Canadarel. to calendar year 1926	106. 0	105. 0 126. 8		101. 3 124. 6	96. 3 119. 1	91. 2 111. 2	94. 7	-5.3	-3.7			
Ohio constructionrel. to 1923 Employment, trade-unions:	127. 8 141. 3	136. 6	136. 9	125. 1	112.0	90. 4	89.3	-6.6 -19.3	+1.9 +1.2			
United Statesper cent of total	91. 0 96. 5	90. 0 96. 3		88. 0 90. 7	84. 0 88. 6	81.0	85. 0 93. 7	-3.6	-4. 7			
Employment rel. to 1923-25. Pay roll rel. to 1923-25. ederal civilian employees,	93. 6 68. 9	105. 5 83. 4		107. 6 87. 6	110. 8 110. 3	105. 6 92. 1		-4.7 -16.5	-3.8 -18.2			:
Washington, D. C., end monthnumber verage weekly earnings, factories:	63, 632	63, 516	·	63, 877	63, 946	64, 356	1	+0.6	+3.4			
Illinoisdollars_ New York Statedollars_ Wisconsindollars_	28. 57 30. 08 26, 51	28, 26 30, 47 25, 17	30.08	28, 52 29, 54 26, 13	28. 12 29. 75 24. 18	28. 30 29. 70 24. 10	29. 71	+0.6 -0.2 -0.3	-1.5 0.0 -1.4			
Oklahoma dollars New York rel. to 1923 New Jersey rel. to 1923	27. 55 110. 4 113	26. 50 111. 9 112	110.4	27. 51 108. 4 113	109. 2 113	109. 0 114		-0.2	-0.1			
Pennsylvania rel. to 1923. Delaware. rel. to 1923. Illinois. rel. to 1925-27. Wisconsin rel. to 1923. verage weekly earnings (National Industrial)	107 105 100. 7 106. 3	104 103 99. 6 101. 6	107 107 102. 8	105 106 100. 5 105. 8	102 107 99. 1 98. 2	102 105 99. 7 95. 9	102 104 98. 0	+0.9 0.0 -1.9 +0.6 -2.3	11.8 0.0 +1.0 +1.7 -6.0			
Conference Board): Grand total (both sexes) dollars_ Total male dollars_	27. 94	28. 58	28. 80	27. 72	27. 53	27, 51	28. 08	-0.1	-2.0			
Skilled maledollars Unskilled maledollars	30. 69 32. 18 25. 09	31. 56 33. 06 25. 82	33. 14 25. 64	29, 37 30, 81 23, 86	29. 83 31. 25 24. 35	29. 53 30. 87 24. 31	31. 97 25. 13	$ \begin{array}{c c} -1.0 \\ -1.2 \\ -0.2 \end{array} $	-3. 2 -3. 4 -3. 3			
Total women dollars verage weekly hours: Nominal (both sexes) hours Actual (both sexes) hours.	17. 47 49. 4	17. 81 49. 6	17. 84 49. 4	17. 03 49. 3	17. 36 49. 2	17. 02 49. 2	17. 16	-2.0 0.0		l		li l
Actual (both sexes) hours- ages, road labor, by districts: New England cents per hour-	48. 4 51	49. 0 51	49. 4 51	46. 9 49	47. 4 51	46. 4		-2.1	-4. 3			li .
Middle Atlantic cents per hour South Atlantic cents per hour East South Central cents per hour		43 29 25 31		42 24	45 27	47 25	45 23	+2.0 +4.4 -7.4	$^{+4.4}_{+8.7}$			
West South Centralcents per nour East North Centralcents per hour Centralcents per hour	42 30 25 30 39	25 31 39	42 27 26 30 38 37	42 24 26 30 39 37	25 31 39	25 31 40	26 31 45	$\begin{vmatrix} 0.0\\ 0.0\\ +2.6 \end{vmatrix}$	0.0			
West North Centralcents per hour Mountaincents per hour	37 48	37 48	37 48 53	48	38 50	40 46	38 44	+5.3 -8.0	+5.3 +4.5			
Pacificcents per hour United States, averagecents per hour_ age rates, U. S. Steel Corpcents per hour_	52 40 50	54 41 50	40 50	52 40 50	53 40 50	53 40 50	36 50	0. 0 0. 0 0. 0	0.0			
Vages, steel sheet workersper cent of base_ pplicants per 100 jobs, employment agencies: United Statesnumber	127. 0 124	127. 0 114	127. 0 127	127. 0 153	127. 0 166	127. 0 201	125.5	0.0	+1.2			
Eastern Statesnumber Central Statesnumber	136 135	121 132	132 148	153 177	187 181	231 231	156 154 164	$\begin{array}{r} +21.1 \\ +23.5 \\ +27.6 \end{array}$	+50.0 +40.9			
Southern Statesnumber_ Western Statesnumber_ Illinoisnumber_	178 75 137	148 67 136	164 71 147	205 75 181	222 77 177	250 101 257	283 80 182	$+12.6 \\ +31.2$	-11.7 +26.3			
Wisconsinnumber_ Canadanumber_	137 117 119	117 129	128	160 164	163	257	182 138 168	+45.2				

					1				1	<u> </u>		Per c
he cumulatives shown are through De- cember except where otherwise noted.			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. I DEC.	THROUGH	in- creas (+) or de
Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	creas (-) cumi lativ 1929 from
EMPLOYMENT AND WAGES-Contd.												
Factory Labor Turnover												
(Percentage of number on pay roll)												
epartures: Totalper cent (annual basis) Voluntary quitsper cent (annual basis)	48. 5 38. 4		42. 6 28. 5		29. 5 12. 7							
Lay offsper cent (annual basis) Dischargesper cent (annual basis)	4.8 5.3	6.3 6.1	9.4	15.3	14. 3 2. 5		4. 2 5. 3					
ccessionsper cent (annual basis) idustrial disputes:	54.3	59. 7	46.0	23. 7	13. 5		58.6					
Disputesnumber_ Workers involvednumber_ Man-days lost in monthnumber_	8, 123 380, 681	8,818	4 8, 326	4 10, 957	7, 856 234, 052		34 39, 484 949, 692					
DISTRIBUTION MOVEMENT	000,002	200, 110	250,004	912, 502	-01,002		343,022					
Retail Sales												
[ail-order houses: Total sales, 2 housesthous, of dolls Sears, Roebuck & Cothous, of dolls Montgomery Ward & Cothous, of dolls	60, 088 35, 133 24, 955	36, 950	47,075	43,846	90, 019 54, 220 35, 799	45, 151 26, 820 18, 331	47, 400 29, 271 18, 129	-49.8 -50.5 -48.8	-4.7 -8.4 +1.1	579, 328 347, 973 232, 355	734, 983 443, 453 291, 530	+27
en-cent chain stores: Total sales (4 chains)thous. of dolls Total stores operated (4 chains)number	46,613	43, 169	51,061	49,879	87, 948	34, 656	4 33, 513	-60.6	+3.4	539, 759	572, 531	il
F. W. Woolworth & Cothous, of dolls Stores operatednumber	2,787 24,446 1,802	22, 253	27,678	26, 160	2,870 44,153 1,828	2,880 18,408 1,829	2,659 17,660 1,728	+0.3 -58.3 +0.1		287,308	303, 022	+
S. S. Kresge Cothous, of dolls Stores operatednumber McCrory Stores Corpthous. of dolls	13,001 54 7	11, 971 560	13, 761	14,021 584	24, 242 597	9,352 604	9,019 509	-61.4 +1.2	+3.7 +18.7	1 47, 3 63	156, 328	
	3, 853 240 5, 317	241	3, 798 243	243	7, 293 242 12, 260	2, 695 243	2, 691 229 4, 143	-63. 0 +0. 4 -65. 7	+6.1	41, 041 65, 047	44, 709 68, 476	
S. H. Kress & Co. thous of dolls. Stores operated number. Metropolitan thous of dolls. Stores operated number.	198 1,612	200		201	203 3, 432	4, 202 204 971	193 4 799	+0.5 -71.7	+5.7 +21.5	13, 522	18, 122	
w. T. Grant Cothous, of dolls	131 5,066	134 4, 777	141 6, 164	151 6,504	151 11, 536	150 3,784	109 4 3, 329	-0.7 -67.2		54, 987	65, 441	+1
Stores operatednumber_estaurant chains: Total sales (3 chains)thous. of dolls.	252 5, 151	[276 5, 176	279 5,049		+1.1 -2.5	+28.0 +5.9	55,578	59 , 2 73	+
Stores operated number Childs Co., sales thous, of dolls.	369 2,478	367 2,348	373	2, 299	375 2, 407	2, 307	375	-4.2	+5,6	26, 379	27, 522	.
Stores operatednumber J. R. Thompson Co., sales thous. of dolls	113 1,331	112 1, 282	109 1,367	111 1, 284	111 1,320	111	113 1, 224	0.0 -1.5	-1.8 + 6.2	14, 585	15,616	<u></u>
Stores operatednumber Waldorf System (Inc.), salesthous, of dolls	122 1,342				121 1,449	121	124	0.0 -4.8	-2.4 +6.2	14,622	16, 135	+1
sales thous, of dolls Stores operated number ther chain stores:	134	133	143	143	143		138				207, 623	1
J. C. Penny Cothous. of dolls_ Stores operatednumber_ G. C. Murphy Cothous. of dolls_	16, 491 1, 292 1, 273	1, 337	1, 373	1, 389	29, 585 1, 395 2, 649	10, 611 1, 395 939	1, 122	-64.1 0.0 -64.6		176, 699 12, 119	15, 729	.
Stores operatednumber_nstallment sales in New England	148	150	150	152	153	154	140	+0.7	+10.0			
dept. stores, ratio to total salesper cent Advertising	, 12.5	7.6	8.8	8.5	5. 4	16. 2	10.4	+200.0	+55.8			
fagazine advertisingthous. of lines	1, 978	2, 542	3, 046	3, 074	2, 882	1, 999	2, 101	-30.6			209, 744	
Indexing advertising, total cost thous, of dolls Index advertisingthous, of lines Index adio broadcast:	12, 433 85, 136	16, 548 105, 702	20, 319 118, 616	20, 070 112, 958	18, 420 100, 202	12, 411 88, 873		-32, 6 -11, 3			1, 228, 843	
Cost of facilitiesthous, of dolls_ fational advertising in newspapers:	1, 330	,	'		1, 969	1, 989		+1.0			18, 728	11
Total thous, of lines. Passenger cars thous, of lines. Tires, trucks, and	44, 095 7, 088		64, 037 7, 396		36, 724 2, 664	47, 887 8, 000	4 52, 270 4 11, 010	$^{+3.2}_{+200.3}$	$ \begin{array}{r r} -8.4 \\ -27.3 \end{array} $		594, 295 81, 415	
accessories thous of lines financial thous of lines Building materials thous of lines.	6, 745 6, 304	7, 457	8,812	6, 578	4, 279 6, 943	3, 349 9, 128	4 9, 625	$-21.7 \\ +31.5$		76, 620	64, 858 88, 073	3 +1
Building materials thous. of lines Electrical appliances, supplies thous. of lines.	274 888	1			109 935	129	1	+18.3 -29.0		1	6, 510 13, 859	11
Foods and beveragesthous, of lines Heating and plumbing	5, 895	6, 440		6, 848			4 3, 955	+55.1	+35.4	67, 950	74, 241	+
equipment thous. of lines Medical thous. of lines.	2, 190	3, 019	5, 595	5, 967	344 3, 072	€, 45€	4 8, 117	+110.2	-20.5	46, 021	5, 993 49, 289 39, 049) +
Radiothous. of lines Tobaccothous. of lines Toilet requisitesthous. of lines	2, 107	3, 217	4, 617	4 112	4, 021 1, 515 1, 177	1, 603 3, 177 2, 432	4 2, 148 4 2, 703 4 2, 742	$ \begin{array}{r} -60.1 \\ +109.7 \\ +106.6 \end{array} $	+17.5	31,072	38, 414	1 +2
Transportation thous. of lines. All other thous. of lines.	3, 121	2, 321	2, 530	2,802	2, 747 5, 466	2,461	4 2, 703 4 2, 742 4 2, 324 4 4, 601	-10. 4 -13. 3	+5.9	28, 051 60, 485	34, 324	+2
Postal Business												
ostal receipts: 50 selected citiesthous. of dolls	29, 251		35, 743	32, 723	40, 785		31, 615	-21.1	+1.8	377, 344	388, 181	ı +
50 industrial citiesthous. of dolls_foney orders:	3, 289		3, 737		4, 565	3, 561	3, 466		+1.8 +2.7	40, 569		+
Domestic issued (50 cities)— Quantity—————thousands— Value———thous. of dolls—	3, 510 37, 027		3, 843 39, 963	3, 745 39, 085	4, 096 40, 876	3, 805 38, 356				41, 103 418, 831		6 + 0 +
Domestic paid (50 cities)— Quantity———————————————————————————————————	İ	10, 328	12, 690	11, 829	12, 850	11, 260	10, 967	-12.3	+2.7	1	138, 009	+ 16
	88, 806	86, 974	107, 699	97, 825	4 101, 453	86, 593	83, 154		1 41	1, 036, 125	1, 091, 552	211 -

The cumulatives shown are through De-			1929			1930	1929	CREASE	CNT IN- (+) OR ASE (-)	CUMULATI FROM JAN. DEC	1 THROUGH	Per ct. in- crease (+) or de-
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
BANKING AND FINANCE												
Life Insurance												
(Association of Life Insurance Presidents) Policies and certificates, new (44 companies):							ļ				ı	
Ordinarynumber of policies_ Industrialnumber of policies_ Groupnumber of certificates_ Total policies and certificatesnumber_	273, 484 795, 451 40, 622 1, 109, 557	805, 623 21, 799	879, 483 49, 062	941, 358 39, 571	102, 963	254, 432 802, 585 43, 081 1, 100, 098	1, 051, 983 57, 921	-18.3 -7.1 -58.2 -14.3	-23.7 -25.6	559, 453	10, 816, 882 606, 542	+4.0
Amount of new insurance (44 companies): Ordinarythous. of dolls. Industrialthous. of dolls. Groupthous. of dolls. Total insurancethous. of dolls. Premium collections (44 companies):	698, 196 219, 144 99, 773 1, 017, 113	608, 869 221, 006 75, 151 905, 026	240, 489 105, 393	86, 165	841, 215 234, 046 160, 514 1, 235, 775	712, 855 218, 027 64, 313 995, 195	659, 843 265, 998 98, 637 1, 024, 478	-15.3 -6.8 -59.9 -19.5	-18.0 -34.8	2, 692, 522 1, 336, 328	8, 801, 866 2, 898, 158 1, 185, 365 12, 885, 389	+7.3 +7.6 -11.3 +5.4
Ordinary thous of dolls. Industrial thous of dolls. Group thous of dolls. Total thous of dolls. Admitted life insurance assets (40 companies):	154, 206 56, 143 7, 129 217, 478	143, 078 56, 773 6, 485 206, 336	169, 724 51, 705 8, 497 229, 926	156, 465 57, 973 10, 081 224, 519	97, 719 10, 560		160, 867 53, 806 8, 938 223, 611			1, 873, 934 662, 506 87, 979 2, 624, 419	703, 853 111, 731	+6.0 +6.2 +27.0 +6.8
Grand totalmills. of dolls	13, 691	13, 798	13, 906	14, 015								
Total mills of dolls. Farm mills of dolls. All other mills of dolls.	5, 887 1, 600 4, 287	5, 925 1, 600 4, 325 5, 208	5, 972 1, 599 4, 373	6, 002 1, 598 4, 404	1,591 4,457				1 1			1
Total mills, of dolls. Government mills, of dolls. Railroad mills, of dolls. Public utility mills, of dolls. All other mills, of dolls.	5, 188 1, 062 2, 526 1, 274 326	1, 070 2, 527 1, 281 330	5, 234 1, 063 2, 534 1, 295 342	2, 540 1, 311	1,053 2,539 1,319		4, 912 979 2, 452 1, 219 262					
Policy loans and premium notesmills. of dolls	1, 688	1, 707	1, 738	1, 807	1,842							Į.
(Life Insurance Sales Research Bureau)												
Sales of ordinary life insurance: United States totalthous. of dolls Eastern manuf. disthous. of dolls Western manuf. disthous. of dolls Western agric. district. thous. of dolls Southern districtthous. of dolls Far western districtthous. of dolls Canada total, 15 companies thous. of dolls	765, 702 300, 810 177, 990 116, 749 90, 526 79, 627 42, 468	677, 104 261, 657 161, 222 104, 534 77, 810 71, 881 43, 911	309, 637 184, 974 121, 985	320, 244 181, 245 115, 195 88, 032 77, 781	915, 894 350, 504 211, 265 143, 354 110, 994 99, 777 55, 350	755, 821 325, 695 169, 279 105, 573 83, 228 72, 046 46, 788	4 311, 189 4 166, 287 4 100, 841 4 73, 292	-17.5 -7.1 -19.9 -26.4 -25.0 -27.8 -15.5	+4.7 +1.8 +4.7 +13.6 +6.1	2, 005, 524 1, 345, 140 1, 055, 200 882, 736	3, 921, 777 2, 233, 659 1, 423, 160	+7.5 +11.4 +5.8 +3.9
Banking Check payments:												
New York Citymills. of dolls Outide of New York Citymills. of dolls Canadamills. of dolls	49, 034 28, 339 1, 937	50, 342 27, 314 1, 884	63, 325 32, 261 2, 461	53, 604 28, 519 2, 260	39, 850 26, 932 1, 858	34, 732 25, 723 1, 674	54, 719 28, 126 2, 124	-12.8 -4.5 -9.9	-8.5	306, 195	603, 088 332, 327 24, 084	+8.5
Federal reserve banks: Bills discountedmills. of dolls Notes in circulationmills. of dolls Total investmentsmills. of dolls Total reservemills. of dolls	974 1, 829 328 3, 149	931 1, 851 484 3, 141	991 1,880 658 3,177	912 1, 930 602 3, 135	632 1,910 915 3,011	407 1, 702 747 3, 188	821 1, 645 646 2, 835	-35.6 -10.9 -18.4 +5.9	-50.4			ĺ
Total depositsmills, of dolls_ Reserve ratioper cent_ Federal reserve member banks:	2, 348 75. 4	2, 471 72, 7	2, 696 69. 4	2, 437	2, 414 69. 6	2, 369 78. 3	2, 437	-1.9 +12.5	-2.8			
Total loans and discountsmills. of dolls Total investmentsmills. of dolls Net demand depositsmills. of dolls Brokers' loans, end of month: To N, Y, Stock Ex. members-	16, 950 5, 456 12, 985	17, 428 5, 401 13, 295	18, 934 5, 496 15, 110	17, 698 5, 655 13, 890	17, 649 5, 514 14, 118	16, 676 5, 529 12, 949	16, 121 6, 053 13, 395	-5.5 +0.3 -8.3	+3. 4 -8. 7 -3. 3			
Total mills. of dolls Ratio to market value per cent	7, 882 8. 79	8, 549 9. 82	6, 109 8. 51	4, 017 6. 32	3, 990 6. 16	3, 985 5. 77	6, 735 9. 48	-0.1 -6.3				
By New York F. R. member banksmills, of dolls Interest rates:	6, 217	6, 804	5, 538	3, 450	3, 424	3, 345	5, 559	-2.3	-39.8			ļ
Time loans, 90 days	8. 88 8. 23 6. 13 5. 13 6. 00 5. 31	8. 88 8. 50 6. 25 5. 13 6. 00 5. 44	8. 00 6. 43 6. 25 5. 13 5. 00 5. 51	5. 38 5. 44 5. 75 4. 19 4. 50 4 5. 79	4. 88 4. 83 5. 00 3. 88 4. 50 4 5. 79	4. 88 3. 94 4. 00	7. 75 7. 05 5. 38 4. 88 5. 00	-20.5 -3.9 -2.4 +1.5 -11.1	-34. 2 -9. 3 -19. 3 -20. 0			
Intermediate credit banks	5. 67 4, 426	5. 67 4, 457	5. 68 4, 372	5. 70 4, 333	5. 57 4, 392	5. 79 5. 34 4, 415	5. 05 5. 33 4, 410	0.0 -4.1 +0.5	+14.7 +0.2 +0.1			·
Public Finance Government debt, gross, end mo.mills. of dolls_ Customs receiptsthous. of dolls_ Total ordinary receiptsthous. of dolls_ Expenditures chargeable to	16, 805 56, 427 174, 502	16, 720 52, 612 670, 736	16, 698 57, 607 175, 998	16, 692 44, 126 143, 889	16, 301 39, 298 742, 942	16, 423 41, 278 151, 195	17, 379 45, 549 163, 889	+0.7 +5.0 -79.6	-5.5 -9.4 -7.7	565, 500 3, 920, 048	602, 698 4, 243, 151	+6.6 +8.2
ordinary receipts thous. of dolls. U. S. money in circulation: Daily average mills. of dolls.	210, 725 4, 777	399, 068 4, 811	364, 678 4, 810	218, 407 4, 845	443, 191 4, 943	347, 351	371, 595	-21.6		3, 755, 205	3, 798, 233	+1.1
Gold and Silver	±, 111	4,011	1 , 010	2, 020	2, 340	4, 652	4,748	-5.9	-2.0			
Gold: Domestic receipts at mintfine ounces Rand outputfine ounces Monetary stock of U. S.—	100, 387 889, 601	77, 029 849, 553	121, 193 888, 690	113, 723 861, 593	82, 970 4 851, 134	75, 955 882, 801	68, 042 876, 452	-8.5 +3.7	+0.7	981, 313 10, 358, 596	978, 551 10, 414, 066	-0.3 +0.5
daily averagemills. of dolls_ Imports thous. of dolls_ Exports thous. of dolls_ ' Revised.	4, 351 19, 271 881	4, 368 18, 781 1, 205	4, 381 21, 321 3, 805	4, 374 7, 123 30, 289	4, 324 8, 121 72, 547	4, 283 12, 908 8, 948	4, 115 48, 577 1, 378	-0.9 +58.9 -87.7		168, 898 560, 760	291, 649 116, 583	+72.7 -79. 2

The cumulatives shown are through De-			1929			1930	1929	PER CE CREASE DECREA	(+) OR	CUMULATI FROM JAN. DEC	1 THROUGH	Per ct. in- crease (+)
cember except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the Feb- ruary, 1930, "Survey"	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	or de- crease (-) cumu- lative 1929 from 1928
BANKING AND FINANCE—Continued												
Gold and Silver—Continued]										
Silver: Production—												
United Statesthous. of fine oz Canadathous. of fine oz Stocks, end of month—	5, 006 2, 744		5, 130 2, 605	5, 795 1, 833	4 4, 592 4 1, 761	4, 914 1, 882	5, 623 1, 747	+7.0 +6.9	$ \begin{array}{r} -2.2 \\ +7.7 \end{array} $			
United Statesthous. of fine ozthous. of fine ozthous. of fine ozthous.	1, 074 880	1, 112 914		1, 322 598	529 827	534 1, 244	595 344	+0.9 +50.4	$-10.3 \\ +261.6$	 		
Imports thous of dolls Exports thous of dolls Price at New York dolls. per fine oz	7, 345 8, 522	4, 111		5, 144 8, 678	4 4, 479 4 6, 369	4, 756 5, 891	8, 260 8, 264	+6. 2 -7. 5	-45.8 -42.4	68, 119	63, 939 83, 407	-6. -4.
	. 526	. 510	. 499	. 496	. 485	. 450	. 570	-7.2	-21.1			
Business Failures Liabilities:	00 540	04 10	01 014	50 040	07 405	01 105	*O 077		1.70 0	400 ***	400.000	_
Total commercial thous, of dolls Manufacturing establishments thous, of dolls.	33, 746 13, 857	34, 125 14, 914	31, 314 12, 071	52, 046 14, 180	67, 465 33, 266	61, 185 19, 500	53, 877 16, 690	-9.3 -41.4		489, 559 182, 478	483, 252 186, 735	$\begin{vmatrix} -1. \\ +2. \end{vmatrix}$
Trade establishments thous of dolls. Agents and brokers thous of dolls.	16, 002 3, 888	16, 660 2, 551	14, 464 4, 778	16, 122 21, 744	28, 550 5, 649	29, 814 11, 871	32, 024 5, 164	+4. 4 +110. 1	-6.9	225, 301	224, 732 71, 786	-0.
Banks (quarterly)thous. of dolls_ Liabilities (Canada)thous. of dolls_	1, 376	² 74, 180 2, 423		3, 302	² 52, 650 3, 754		3 43, 085 4 2, 533	-29.0 +64.5	+22. 2	129, 650 36, 535	218, 797 32, 165	+68.
Firms: Total commercialnumber_	1, 762	1, 568	1, 822	1, 796	2, 037	2, 759	2, 535	+35.4	+8.8	23, 842	22, 909	-3.
Manufacturing establishmentsnumber_ Trade establishmentsnumber_	482 1, 163 117	427 1, 039 102	483 1, 211 128	481 1, 166 149	559 1, 344 134	680 1, 913 166	614 1, 769 152	$+21.6 \\ +42.3 \\ +23.9$	+10.7 $+8.1$ $+9.2$	5, 924 16, 471 1, 441	6, 007 15, 417 1, 485	
Agents and brokers number. Banks (quarterly) number. Firms (Canada) number.	132	2 81		184	$^{2}_{259}^{134}$	265	³ 116 ⁴ 214	+56.8 +2.3	+9.5 $+23.8$	372 1, 873	437	+17. +13.
By groups: Manufacturers—											·	
Metalsnumber_ Textilesnumber_	35 48 102		35 66	41 70 82	50 69 112	32 106 105	36 75 92	-36.0 +53.6	+6.7 $+41.3$	443 793 970		0. -9.
Lumbernumber_ Chemicalsnumber_ Printing and engravingnumber_	102 11 11		94 3 10	10 13	112 11 11	103 14 13	11	$ \begin{array}{r} -6.2 \\ +27.3 \\ +18.2 \end{array} $	+14.1 +27.3 -48.0	98	123	+17. +25. +1.
Foodstuffs number Leather, etc number	34	38 11	36° 17	37 6	28 18	60 18	25 47 24 9	+114.3	+27.7	496		-6. -5.
Stone, clay, and glassnumber_	6 6	3 9	4 8	7 12	6 8	3 10	15	-50.0 +25.0	-66.7 -33.3	75 94	76 102	+1.3 +8.3
All othernumber Traders—	225	194	210	203	246	319	286	+29.7	+11.5		2, 622	-0.
General storesnumber_Foods and tobacconumber_Clothingnumber_	72 399 163	60 363 168	78 408 191	67 374 198	102 386 244	136 453 437	116 499 351	+33, 3 +17, 4 +79, 1	+17.2 -9.2 $+24.5$	1,042 5,153 3,153		-2. -5. -15.
Household furniturenumber_ Chemicals and paintsnumber_	179 64	127 54	167 86	177 69	209 90	380 97	374	+81. 8 +7. 8	+1.6 $+47.0$	2, 768 803	2, 602 792	-6. -1.
Books and papernumber_ All othernumber_	15 271	$\frac{11}{256}$	$\frac{10}{271}$	$\begin{array}{c} 5 \\ 276 \end{array}$	6 307	11 399	66 17 346	+83.3 +30.0	-35.3 + 15.3	144 3, 405	132 3, 329	-8.3 -2.3
Dividend and Interest Payments			:		ļ							
Grand total thous. of dolls_ Interest payments thous. of dolls_	377, 000 201, 000	480, 600 292, 000	737, 450 424, 650	514, 450 263, 650	690, 947 412, 447	1, 120, 014 357, 614		+62. 1 -13. 4	$^{+21.1}_{-30.9}$	6, 028, 184 3, 702, 674	7, 055, 748 4, 109, 948	+17.0 +11.0
Dividend payments: Totalthous. of dolls	176, 000	188, 600	321, 800	250, 800	278, 500	563, 000	4 408, 700	+102.2	+37.8	2, 325, 510	2, 945, 800	+26.7
Industrial and miscthous, of dolls Steam railroadsthous. of dolls Street railwaysthous. of dolls	132, 000 37, 100 6, 906		241, 500 43, 900	186, 100 40, 000	215, 500 38, 500	54, 500		+94.4 $+41.6$ $+20.7$	+26.7		454,000	+16.0
New Security Issues	0, 300	7, 100	15, 900	12, 200	14, 500	17, 500	10,000	1 20. 1	+9.4	122, 100	126, 900	+3. 9
Foreign loans in the U.Sthous, of dolls	20, 256	12, 668	40, 917	35, 523	58, 751	75, 000	32, 482	+27.7	+130.9	1, 487, 863	683, 495	-54.
Foreign governmentsthous. of dolls Total corporationthous. of dolls Purpose of issue—	15,000 4 788, 222	8, 000 1,507,876	3, 500 757, 254	202, 131	344, 946	4, 006 702, 179	15, 750 4 970, 874	+103.6	-74.6 -27.7		68, 250 10, 026, 365	-89.5 + 28.5
New capitalthous, of dolls Refundingthous, of dolls	4 763, 177 25, 045	41,212,884 306,592	724, 166 33, 088	186, 793 15, 338	261, 891 83, 055	629, 083 73, 096	4 828, 327 142, 547	+140. 2 -12. 0		6, 079, 602 1, 738, 275		+42. 1 -20. 2
Type of security— Stocksthous. of dolls_ Bonds and notesthous. of dolls_	4 670, 090	41,265,887	471, 166	126, 733	203, 594	126, 813	4 633, 336	-37.7	-80.0	3, 626, 165	6, 921, 409	+90.9
Class of industry:	118, 132		286, 088	75, 398	141, 352	1	i	+307.0		4, 186, 461	3, 094, 950	-26.
Railroads thous, of dolls. Public utilities thous, of dolls. Industrials thous, of dolls.	660 111,865 91,282	81, 520 380, 291 280, 078	57, 220 102, 356 98, 202	65, 784 26, 509 51, 400	133, 183 150, 779 20, 897	60, 483 492, 000 34, 595	4 61, 613 4 175, 084 234, 405	$ \begin{array}{r} -54.6 \\ +226.3 \\ +65.6 \end{array} $	-1.8 $+181.0$ -85.2	727, 740 2, 625, 926 1, 523, 531	817, 196 2, 482, 245 2, 000, 889	$\begin{vmatrix} +12.3 \\ -5.3 \\ +31.3 \end{vmatrix}$
Oil thous, of dolls Land and buildings thous, of dolls.	2, 105 35, 503	51,000 6,501	109, 680 23, 723	5, 287 19, 259	4, 900 12, 683	2, 275 28, 193	4 24, 070 69, 009	-53.6 +122.3	90, 5	263, 112 809, 365	359, 882	+36.
Shipping and miscthous, of dolls_ States and municipalities:	534, 808	707, 987	306, 075	33, 893	22, 504	84, 634	4 405, 693	+276.1	-79. 1	1,667,295	3,658,527	+119.4
Permanent loans thous, of dolls Temporary loans thous, of dolls.	80, 415 86, 164	100, 257 95, 978	123, 346 99, 505	65, 974 74, 187	4 286, 517 4 50, 624	99, 812 52, 779	73, 351 114, 675	-65.2 +4.3	$+36.1 \\ -54.0$	1, 389, 819 716, 793		+4.6 +28.5
Bond sales (Canada): Govt. and provincialthous, of dolls Municipalthous, of dolls	1, 449	8, 257 3, 760	2,000 1,080	14, 995 18, 766	33, 500 28, 139	3, 358 7, 773	6, 417 17, 022	-90.0 -72.4	-47.7 -54.3	88, 618 27, 223	118, 961 115, 729	+34.2 +325.
Corporationthous. of dolls Tax-exempt securities outstand-	693	5, 147	23, 775	3, 944	31,830	15,000	13, 205	-52.9	+13.6	261, 445	219, 432	-16.
ing, end of monthn.ills. of dolls	17, 635	18, 285	18, 409	18, 452	4 19, 040	19, 038	4 17, 116	. 0.0	+11.2			
Agricultural Finances												
Loans outstanding, end mo.: Federal farm loan banksthous. of dolls Joint-stock land banksthous. of dolls	1, 203, 806 594, 876	1, 202, 490 593, 388	1, 200, 932 590, 507	1, 199, 174 587, 723	1, 197, 282 584, 824	1, 195, 787 582, 062	1, 195, 089 604, 375	-0.1 -0.5	+0.1 -3.7			
Federal intermediate credit banksthous, of dolls	68, 882		-	76, 780	76, 091							
2 Quarter ending in mont	h indicated	l .		4 Quart	er ending	Dec. 31, 192	28.		4	Revised.		

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929					1930	1929	PER CENT IN- CREASE (+) OR DECREASE (-)		CUMULATIVE TOTAL FROM JAN. 1 THROUGH DEC. 31		Per et. in- crease (+) or de-
	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
BANKING AND FINANCE—Continued												1020
Stocks and Bonds					ļ							
Stock prices, average daily closing: 25 industrials, averagedolls, per share 25 railroads, averagedolls, per share Southern cotton millsdolls, per share 103 stocks, averagedolls, per share Stock prices, average weekly closing: Industrials, rails, and utilities,	431, 20 151, 29 90, 41 90, 35	448, 78 152, 26 89, 37 82, 47	395, 95 142, 30 88, 61 69, 91	274, 63 123, 25 86, 99 62, 40	286, 95 126, 84 86, 73 62, 48	294, 78 126, 29 85, 63 65, 46	344. 17 132. 40 101. 04 87. 48	+2.7 -0.4 -1.3 +4.8	-14.4 -4.6 -15.3 -25.2			
(405) rel. to 1926. All industrials (338) rel. to 1926. All railroads (33) rel. to 1926. All utilities rel. to 1923. Automobiles and trucks (13) rel. to 1923. Automobile tires and rubber	218. 1 210. 3 165. 4 304. 3 240. 8	168. 1 321. 0	201. 7 194. 4 157. 0 276. 6 195. 6		153. 8 146. 9 4 136. 3 200. 9 133. 6	156. 3 148. 8 136. 5 208. 7 135. 0		+1.6 +1.3 +0.1 +3.9 +1.0	$ \begin{array}{r} -15.6 \\ -22.7 \\ -3.7 \\ +8.3 \\ -52.0 \end{array} $			
goods (7) rel. to 1923— Airplane (10) rel. to 1923— Agricultural implements (4) rel. to 1923— Chain stores (17) rel. to 1923— Copper and brass (9) rel. to 1926— Food, other than meat (20) rel. to 1926— Machinery and machine equip-	169. 5 1, 130. 0 423. 9 148. 7 288. 9 186. 7	163. 4 994. 4 444. 8 154. 6 294. 4 191. 1	373, 2 138, 7 258, 7	270. 1 104. 3 204. 0	99. 6 360. 2 276. 0 106. 1 196. 0 144. 1	95. 9 363. 3 296. 0 102. 3 192. 8 146. 0	262.0	-3.7 +0.9 +7.2 -3.7 -1.6 +1.3	-23.1 -35.5 -26.4			
ment (10)	177. 2 157. 5 157. 8 126. 2 238. 4 118. 1	166. 7 157. 6 119. 8 243. 9	111.0 217.1	130, 6 119, 5 102, 0 169, 1	142. 5 131. 9 123. 7 96. 7 169. 9 76. 6	145. 6 128. 8 124. 1 91. 2 177. 1 78. 3	137. 4 139. 2 171. 5 173. 8	+2.2 -2.4 +0.3 -5.7 +4.2 +2.2	$ \begin{array}{r} -6.3 \\ -10.8 \\ -46.8 \\ +1.9 \end{array} $			
Theaters, motion pictures, and amusements (7)—————rel. to 1926— Tobacco and tobacco products	142. 5	145. 2	131.5	96. 5	88.6	96.0	150. 6	+8.4	-36. 3			
(10)rel. to 1926 Traction, motor transportation,	141.6			128. 4	135. 0	139.3	.	+3.2				
etc. (9)rel. to 1926 Stock yields: Total common (90)per cent	83. 1 3. 01	84. 7 2. 92		72. 8 4, 54	75, 2 4, 48	78. 4 4. 38	1	+4.3 -2.2	}	il l		i
Industrials (50)per cent_ Public utilities (20)per cent_ Railroads (20)per cent_ Preferred high grade industrial	3. 26 1. 78 4. 04	3, 19 1, 69 3, 96	3. 61 2. 05 4. 26	4. 89 3. 16	4. 83	4. 75 2. 91 5. 03	3. 34 2. 66	~1.7 ~5.5 +0.4	+42.2 +9.4 +10.3			
(20)per cent Stock sales, N. Y. Stock Exch_thous. of shares Bond sales:	5. 54 95, 705	5, 52 100, 056		5. 65 72, 455	5. 54 83, 862	5, 53 62, 308	5. 42 110, 804	-0.2 -25.7	+2.0 -43.8	920, 550	1, 124, 991	+22.2
Miscellaneous thous of dolls Liberty-Treasury thous of dolls Total thous, of dolls Bond prices:	251, 287 8, 510 259, 797	210, 995 9, 267 220, 262	15, 839	15, 746	262, 174 15, 361 277, 535	201, 400 7, 975 209, 375		-23. 2 -48. 1 -24. 6	-42.1	2, 783, 471 178, 315 2, 961, 786	142, 147	-20.3
Highest-grade rails p. ct. of par. 4% bond Second-grade rails p. ct. of par. 4% bond Public utility p. ct. of par. 4% bond Industrial p. ct. of par. 4% bond Comb. price index p. ct. of par. 4% bond Bond prices, 1st of following month:	85. 98 77. 25 73. 14 74. 54 77. 43	77. 64 73. 13 73. 84	74.88	72.05 74.18	89. 18 82. 66 73. 41 75. 26 79. 65	89. 52 82. 39 73. 45 74. 49 79. 44	81. 27 80. 16 78. 89	+0.4 -0.3 +0.1 -1.0 -0.3	+1.4 -8.4 -5.6			
5 Liberty bonds p. ct. of par- 16 foreign govt. and city p. ct. of par- Comb. price index, 66 bonds p. ct. of par- Bond yields:	100. 61 103. 42 97. 66		102. 74	103.89	103. 76 104. 31 98. 89	103. 08 104. 60 99. 02	104, 52	-0.7 +0.3 +0.1	+0.1			
Total, 60 high grade per cent. Railroads (15) per cent. Industrials (15) per cent. Utilities (15) per cent. Municipal (15) per cent. Municipal bond yield (20) per cent. U. S. Treasury notes and	4. 74 4. 67 5. 09 4. 89 4. 31 4. 41	4. 71 5. 12 4. 90 4. 32	4. 66 5. 08 4. 91 4. 29	4. 57 5. 09 4. 88 4. 25	4. 64 4. 50 5. 03 4. 80 4. 22 4. 23	4. 64 4. 51 5. 04 4. 79 4. 23 4. 29	4. 79 4. 16	0.0 +0.2 +0.2 -0.3 +0.2 +1.4	+0.2 +1.6 0.0 +1.7			
U. S. Treasury notes and certificates, 3-6 months per cent Liberty and Treasury bonds per cent Liberty and Treasury bonds per cent	4. 70 3. 72		4. 37 3. 67	3. 47 3. 45	3. 03 3. 46	3. 39 3. 51						
Grand totalthous. of dolls_	28, 403	5, 338			8, 100	23, 363			!))		-51.
Finance constructionthous. of dolls Real-estate mortgagethous. of dolls	16, 108 8, 485	950 188			4, 530 215	17, 500 2, 075	13, 610 11, 245	+286.3 +865.1	+28.6 -81.5		133, 815 80, 958	
Acquisitions and improvementsthous, of dolls Kind of structure—	105]		300	750		+150.0			57, 6 85	ļļ.
Office and commercial_thous. of dolls_ Hotelsthous. of dolls_ Apartmentsthous. of dolls_	9, 875 9, 995 1, 588		11,600	4,010		17, 225 690 235			+37. 4	44, 760	40, 840	8.8
Corporation Stockholders	2,000			1,010	0,000	200	2, 020		- 02.0	12, 202	20,000	02.
(Quarterly)												
Pennsylvania Railroad Co.: Domesticnumber		² 184, 997			2 196, 110		³ 154, 008	+6.0	+27.3			
Foreignnumber U. S. Steel Corp. common stock;		2 2, 931			2 2, 974		3 2, 963	+1.5	+0.4			1
Domesticnumber		² 2, 419			1, 897		³ 99, 174 ³ 1, 612 ³ 24, 15	+7.7 -21.6 -16.0	+17.7			
American Telephone & Telegraph Co.:		_0.20		,	~ 4. 4.1		42.10	10.0	- 14. 4	(1:

² Quarter ending in month indicated.

³ Quarter ending Dec. 31, 1928.

⁴ Revised.

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TREND OF BUSINESS MOVEMENTS—Continued

The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 27 to 138 of the February, 1930, "Survey"	1929					1930	PER CENT INCREASE (+) OR DECREASE (-)			CUMULATI FROM JAN. 1 DEC	Per ct. in- crease (+) or de-	
	August	Septem- ber	October	Novem- ber	Decem- ber	January	January	Jan., 1930, from Dec., 1929	Jan., 1930, from Jan., 1929	1928	1929	crease (-) cumu- lative 1929 from 1928
FOREIGN EXCHANGE BATES												1820
Europe: Englanddolls. per £ sterling	4.85	4.85	4.87	4. 88	4.88	4.87	4.85	-0.3	ا ۱ ۱			
France dolls, per france	. 039	. 039	. 039	. 039	. 039	.039	. 039	0.0	0. 0			
Belgiumdolls, per franc	. 139 . 401		. 140	. 140	. 140 . 404	. 139	. 139	-0.3	0.0			
Belgium dolls, per franc. Netherlands dolls, per guilder. Sweden dolls, per krone. Switzerland dolls, per franc.	. 268	. 268	. 403 . 268	. 269	. 270	. 269	. 267	-0,5 -0.4	+0.7			
Asia:				. 194		. 194		1				
Japandolls, per yen_ Indiadolls, per rupee	. 467 . 360	. 473 . 360		. 487 . 363	. 490 . 364	. 491	. 455 . 365		+7.9 -0.5			
America: Canadadolls. per Canadian doll	. 994	. 992		. 984		. 989	. 998		-0.9			
Argentina dolls, per gold peso Brazil dolls, per milreis	. 954 . 119			. 939 . 118		. 913	. 958 . 119		-4.7 -6.7			
Chiledolls, per paper peso	. 121			. 121		. 121	. 121	0.0	č. 0			
U. S. FOREIGN TRADE						l						
Imports												
Grand total thous. of dolls. By grand divisions:	369, 358	351, 304	4 391, 063	4 338, 472	4 309, 809	310, 967	368, 897	+0.4	-15.7	4, 091, 444	4, 339, 361	+6.1
Europe— Totalthous, of dolls	109, 759	120, 056	138, 934	106, 816	86, 562		107, 106			1, 246, 749	1, 332, 688	+6.9 +8.0
Francethous. of dolls Germanythous. of dolls	14, 028 22, 731	17, 462 21, 800	20, 128 26, 232	13, 524 19, 917	11, 081 15, 164		13, 691 19, 374			158, 748 221, 132	171, 491 254, 673	+8.0 +15.2
Italythous. of dollsthous. of dollsthous. of dolls	7, 660 25, 920	9, 407	13, 733	12, 135 24, 081	9. 030		9, 022 27, 527				117, 066 329, 766	+15.1 -5.4
North America— Total thous, of dolls				· '			82, 284	il 1			982, 268	+2.2
Canadathous. of dolls	82, 242 43, 751	42, 257		73, 254 42, 456	37, 637		42, 053				504, 278	+3.1
South America— Total————thous. of dolls—	51,624		56, 186	46, 432	49, 099		57, 889		- -	569, 408	639, 796	+12.4
Argentinathous. of dolls Asia and Oceania—	7,818	1		11, 236	,		9, 422			99, 443	117, 587	+18.2
Total thous. of dolls. Japan thous. of dolls. Africa, total thous. of dolls.	114, 589 40, 254	102, 504 39, 973	109, 074 43, 375	102, 846 39, 240			113, 330 38, 424			1, 222, 377 384, 450	1, 336, 808 452, 875	+9.4 +17.8
Africa, totalthous. of dolls_ By economic classes:	11, 144	6, 415			7, 223		8, 287			90, 205	108, 608	+20.4
Crude materialsthous. of dolls Foodstuffs, crude and	125, 817	122, 062	126, 532	121, 448	115, 631	109, 076	142, 251	-5.7	23.3	1, 466, 606	1, 558, 620	+6.3
food animalsthous. of dolls_ Manufactured foodstuffsthous. of dolls_	39, 357 35, 558	40, 700 32, 327	47, 210 35, 085	40, 590 28, 669	41, 249 24, 389	39, 377 23, 931	47, 681 28, 773	-4.5 -1.9			538, 560 423, 622	-2.1 +4.5
Semimanufactures thous of dolls Finished manufactures thous of dolls.	4 79, 725 4 88, 901	4 70, 609	4 82, 259	4 66, 150	4 57, 826	67, 972	70, 981	+17.5	-18.5	762, 649	885, 051 993, 508	+16.0 +9.6
Exports	- 00, 901	- 80,000	4 99, 976	4 81, 615	- 10, 113	70, 011	19, 211	-0.1	-10.7	800, 660	333, 300	73.0
-									'			
Grand total, including reexportsthous. of dolls	380, 758	437,671	528, 578	442, 311	426, 596	417,000	488, 023	-2.2	-14.6	5, 128, 357	5, 241, 7 3 5	+2.2
By grand division: Europe—												١.
Total thous of dolls France thous of dolls	160, 654 17, 095	24, 026	33, 531	222, 733 26, 797	25, 838		28 268		!	240, 693	265, 657	-1.4
Germany thous. of dolls. Italy thous. of dolls. United Kingdom thous. of dolls.	26, 367 6, 620		57, 552 16, 348	41, 458 14, 096	41, 038 14, 506		41, 159 15, 995			102, 120	153, 975	-12.2 -5.0
United Kingdomthous. of dolls North America—	58, 333	72, 609		84, 782	77, 917					847, 326	847, 875	+0.1
Totalthous. of dolls_ Canadathous. of dolls_	111, 517 76, 862	117, 649 80, 485	127, 224 83, 946	103, 601 68, 002	93, 959 57, 003		110, 186 70, 927			1, 321, 368 914, 714	1, 395, 179 948, 503	+5.6 +3.7
South America— Total————thous, of dolls—	39, 430						1	ii		11 1		į
Argentinathous. of dolls_ Asia and Oceania—	17, 352	17, 995	17, 153				19, 370			:1	210, 287	+12.5 +17.5
Totalthous, of dolls	58, 610 11, 507	66, 039 19, 117	81, 979 31, 362	70, 218 28, 097	72, 540 27, 442		80, 364			834, 549 288, 158 116, 713	635, 686 259, 128	-23.8 -10.1
Japanthous. of dolls Africa, totalthous. of dolls By economic classes:	10, 546	9, 133	11, 975	9, 322	9, 633		9, 792			116, 713	130, 759	+12.0
Total domestic exports only thous, of dolls	4 374, 536		522, 380 174, 271	4 435, 450	4 420, 672		480, 384	-3.8		5, 030, 099	5, 157, 193	+2.5 -11.7
Crude materialsthous. of dolls_ Foodstuffs, crude, and	50, 891	i i	ı	l		li '		11			1	
food animalsthous. of dolls_ Manufactured foodstuffsthous. of dolls_	28, 438 37, 107	29, 943 40, 963	47, 737	22, 557 4 43, 697	4 41, 360	39, 840	47, 536	-3.7	-16. 2	465, 811	269, 591 484, 271	+4.0
Semimanufacturesthous. of dolls_ Finished manufacturesthous. of dolls_	57, 069 4 201, 030	57, 691	64, 558	4 51, 837		50, 818 192, 395	67, 704	−6.8	-24.9 -10.5		729, 110 2, 531, 823	+1.8
Agricultural exports (quantities): All commoditiesrel. to 1910-1914	76					ii		il	-15.0			
All commodities except cottonrel. to 1910-1914	132			147			İ	1	-20.6			
CANADIAN FOREIGN TRADE				-11								
Total trade:			l									
Imports thous. of dolls Exports thous. of dolls.	111, 631									1, 222, 196 1, 374, 131	1, 298, 940 1, 208, 875	+6.3 -12.0
25 Aportothous, or dolls.	98, 395	89, 424	121, 437	113, 746	90, 477	75, 369	91,296	10.7	-22.0	1, 512, 131	1, 200, 010	-12.0

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PERMEATIONS OF THE DEPARTMENT OF COMMERCE

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