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DEPARTMENT OF COMMERCE  
WASHINGTON

SURVEY OF  
CURRENT BUSINESS

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ISSUED BY  
BUREAU OF FOREIGN AND DOMESTIC COMMERCE

**IMPORTANT NOTICE**

*In addition to figures given from Government sources, there are also incorporated for completeness of service figures from other sources generally accepted by the trades, the authority and responsibility for which are noted in the "Sources of Data" on pages 140-143 of this issue.*

## INTRODUCTION

The SURVEY OF CURRENT BUSINESS is designed to present each month a picture of the business situation by setting forth the principal facts regarding the various lines of trade and industry. The figures reported are very largely those already in existence. The chief function of the department is to bring together these data which, if available at all, are scattered in hundreds of different publications. A portion of these data are collected by Government departments; other figures are compiled by technical journals, and still others are reported by trade associations.

At semiannual intervals detailed tables are published giving, for each item, monthly figures for the past two years and yearly comparisons, where available, back to 1913; also blank lines sufficient for six months have been left at the bottom of each table, enabling those who care to do so to enter new figures as soon as they appear (see pp. 22-139). In the intervening months the more important comparisons only are given in the table entitled "Trend of business movements."

### WEEKLY SUPPLEMENT

Realizing that current statistics are highly perishable and that to be of use they must reach the business man at the earliest possible moment, the department has arranged to distribute supplements every week to subscribers in the United States. The supplements are usually mailed on Saturdays and give such information as has been received during the week ending on the preceding Tuesday. The monthly information contained in these bulletins is republished in the SURVEY, and the supplements also contain charts and tables of weekly data.

### RELATIVE AND INDEX NUMBERS

To facilitate comparison between different important items and to chart series expressed in different units, relative numbers (often called "index numbers," a term referring more particularly to a special kind of number described below) have been calculated. The monthly average for 1923-1925 has usually been used as a base equal to 100.

The relative numbers are computed by allowing the monthly average for the base year or period to equal 100. If the movement for a current month is greater than the base, the relative number will be greater than 100, and vice versa. The difference between 100 and the relative number will give at once the per cent increase or decrease compared with the base period. Thus a relative number of 115 means an increase of 15 per cent over the base period, while a relative number of 80 means a decrease of 20 per cent from the base.

Relative numbers may also be used to calculate the approximate percentage increase or decrease in a movement from one period to the next. Thus, if a relative number at one month is 120 and for a later month it is 144 there has been an increase of 20 per cent.

When two or more series of relative numbers are combined by a system of weightings, the resulting series is denominated an index number. The index number, by combining many relative numbers is designed to show the trend of an entire group of

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

### RATIO CHARTS

In most instances the charts used in the SURVEY OF CURRENT BUSINESS are of the type termed "Ratio Charts" (logarithmic scale), notably the Business Indicator charts on page 2. These charts show the percentage increase and allow direct comparisons between the slope of one curve and that of any other curve regardless of its location on the diagram; that is, a 10 per cent increase in an item is given the same vertical movement whether its curve is near the bottom or near the top of the chart. The difference between this and the ordinary arithmetic form of chart can be made clear by an example. If a certain item having a relative number of 400 in one month increases 10 per cent in the following month, its relative number will be 440, and on an ordinary chart would be plotted 40 equidistant scale points higher than the preceding months. Another movement with a relative number of, say, 50 also increases 10 per cent, making its relative number 55. On the ordinary (arithmetic) scale this item would rise only 5 equidistant points, whereas the previous item rose 40 points, yet each showed the same percentage increase. The ratio charts avoid difficulty and give to each of the two movements exactly the same vertical rise, and hence the slopes of the two lines are directly comparable. The ratio charts compare percentage changes, while the arithmetic charts compare absolute changes.

### RECORD BOOK

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

### METHODS OF USE

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

*This issue presents practically complete data for the month of June and contains text covering the early weeks of July, 1930 (page 1). As most data covering a particular month's business are not available until from 15 to 30 days after the close of the month, a complete picture of that month's operations can not be presented at an early date, but the weekly supplements give every week the latest data available.*



UNITED STATES DEPARTMENT OF COMMERCE



# SURVEY OF CURRENT BUSINESS

COMPILED BY  
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### PRELIMINARY SUMMARY FOR JULY

The volume of business during the month of July, 1930, measured by bank debits outside New York City was larger than in the month of June but smaller when compared with July, 1929. Distribution of commodities as shown by freight-car loadings was less than last year. Contracts awarded for new building and engineering projects east of the Rocky Mountains were fewer than for both the preceding month and for July a year ago. The daily average production of bituminous coal during July was lower than either the previous month or the same period of last year. The output of crude petroleum was lower than both prior periods. Beehive coke production also declined from both the preceding period and a year ago. Lumber production was less than during June of this year or July, 1929. During July, 1930, declines occurred from comparative periods in the production of most manufactured and semi-manufactured goods. Among the principal classes regis-

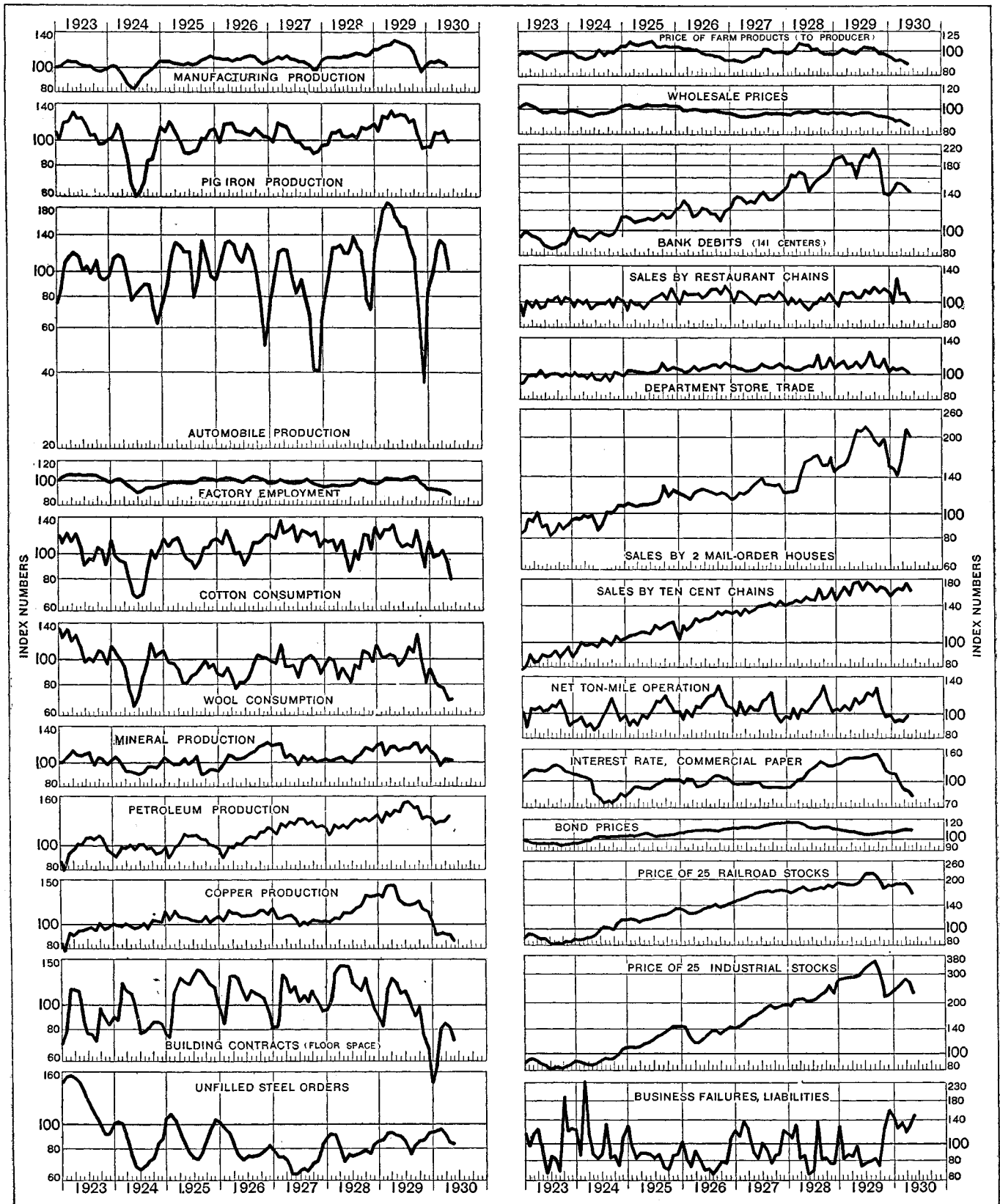
tering decreased output were automobiles, pig iron, and steel ingots.

Wholesale prices in general, as measured by Fisher's index, representing the prices of about 200 commodities reached a low level during July and were considerably lower than July a year ago. Loans and discounts of Federal reserve member banks, although smaller than June, were larger than during July, 1929. Prices of representative stocks on the New York Stock Exchange during the month of July averaged lower than both comparative periods. Bond prices, on the other hand, averaged higher than in both the months of June, 1920, and July, 1929. Loans to brokers and dealers in New York City were less than during the month of June and a year ago. Interest rates for both call and time money, although showing but slight change from the previous month, were well below the level of a year ago. Business failures during July, while fewer in number than the previous period, were more numerous than in the corresponding period in 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.

ITEM	MONTHLY AVERAGE							1928		1929					1930					
	1923	1924	1925	1926	1927	1928	1929	May	June	May	June	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>1923-1925 monthly average=100</b>																				
<b>Industrial production:</b>																				
* Total manufacturing.....	101.0	94.0	105.0	108.0	106.0	111.0	119.0	109.0	111.0	125.0	129.0	117.0	105.0	96.0	102.0	106.0	105.0	107.0	105.0	102.0
* Total minerals.....	105.0	96.0	99.0	108.0	107.0	106.0	115.0	105.0	101.0	116.0	113.0	110.0	116.0	110.0	112.0	109.0	96.0	104.0	103.0	101.0
Pig iron.....	111.7	86.7	101.5	109.0	101.0	105.5	117.9	109.9	103.1	130.5	124.4	120.1	106.5	94.9	94.0	95.0	108.6	106.5	108.2	98.2
Steel ingots.....	104.8	88.7	106.4	113.1	104.6	120.2	130.9	121.6	108.3	132.9	141.9	131.2	101.9	84.0	109.8	118.0	124.4	119.8	116.4	99.5
Automobiles.....	101.7	90.8	107.5	108.4	85.7	109.9	135.1	128.8	120.0	132.9	165.1	114.9	65.8	36.3	83.3	104.9	121.4	134.0	128.2	101.5
Cement.....	92.1	99.8	108.1	110.0	115.8	118.0	114.1	139.3	140.8	129.9	135.2	134.6	113.1	90.2	68.4	65.7	90.3	108.8	138.8	138.7
Cotton (consumption).....	105.9	89.7	104.4	108.5	120.2	106.7	114.6	112.5	99.5	130.3	111.1	124.9	106.0	88.4	112.5	96.5	99.1	103.7	92.3	79.0
Wool (consumption).....	112.8	94.6	92.6	89.7	97.0	94.7	103.1	92.7	87.1	102.9	93.0	125.3	98.5	79.8	92.1	80.9	78.5	77.7	68.9	69.2
<b>Raw material output:</b>																				
Animal products.....	100.0	104.0	96.0	96.0	97.0	99.0	99.2	108.1	116.2	108.9	111.8	102.6	95.2	93.0	94.7	83.8	97.6	100.5	109.8	116.7
Crops.....	91.9	104.0	104.0	109.0	113.3	117.0	114.2	72.4	51.8	51.1	56.3	246.3	154.6	139.2	78.7	62.6	55.6	53.2	55.6	45.9
Forest products.....	99.0	97.0	104.0	98.0	93.0	88.2	85.4	101.0	94.5	98.6	89.9	89.2	82.0	69.6	63.3	66.5	73.6	79.2	80.1	73.0
Crude petroleum.....	99.4	96.9	103.7	104.6	122.3	122.4	136.5	122.5	118.1	137.5	135.9	143.5	127.3	130.9	129.4	121.2	126.1	125.7	130.6	124.6
Bituminous coal.....	108.0	92.5	99.5	109.7	99.0	95.8	100.5	84.1	82.6	92.2	87.4	117.6	104.9	107.5	114.3	90.8	82.1	82.3	82.5	77.4
Copper.....	93.4	100.2	103.4	110.2	104.9	114.9	127.1	111.8	111.0	141.6	124.9	125.2	115.1	113.4	102.9	89.8	92.8	91.7	91.3	85.6
<b>Power and construction:</b>																				
Electric power.....	92.5	98.1	109.5	122.6	133.3	146.0	161.8	141.9	139.5	161.2	154.9	173.7	164.3	169.7	172.5	151.9	163.0	159.5	159.8	154.5
Building contracts (37 States).....	89.7	92.7	117.6	111.0	106.8	121.4	99.6	143.5	142.2	122.4	109.7	98.9	76.9	66.3	49.6	57.6	80.6	53.3	81.0	72.6
<b>Unfilled orders:</b>																				
General index.....	121.7	87.0	91.3	84.6	74.0	76.2	80.8	73.9	75.3	88.4	83.4	76.8	73.7	77.7	80.2	79.4	82.0	77.9	77.8	75.9
U. S. Steel Corporation.....	125.8	83.6	90.6	82.1	71.1	80.7	87.1	71.6	76.2	90.1	89.2	85.6	86.4	92.5	93.6	93.8	95.7	91.2	85.0	83.1
<b>Stocks:</b>																				
General index.....	94.5	102.0	103.5	114.6	120.8	123.0	136.8	116.8	108.7	122.8	120.2	154.8	156.5	158.0	150.8	147.3	141.8	134.6	130.4	124.8
Manfd. commodities (28).....	93.8	103.2	103.0	106.3	112.5	117.4	120.1	121.0	118.0	120.4	121.1	113.9	115.6	118.9	121.5	124.9	127.4	124.1	123.8	124.8
Cotton.....	102.5	91.4	106.2	145.5	153.1	123.6	126.8	95.5	74.7	88.4	70.9	177.5	199.8	206.4	192.5	177.4	158.3	141.1	129.5	118.7
Copper (refined).....	106.4	113.9	73.1	64.8	85.4	58.4	78.4	58.6	52.0	62.2	73.4	78.1	111.7	151.3	179.7	205.9	226.2	266.2	272.6	279.8
<b>Employment:</b>																				
Factories.....	104.2	96.2	99.7	101.4	98.8	97.2	100.4	95.7	96.2	101.6	101.2	102.1	98.2	94.8	92.9	92.9	92.7	92.1	90.4	88.2
<b>Prices:</b>																				
Farm products, to producers.....	97.8	97.1	106.5	98.6	94.9	100.7	100.0	107.2	105.1	98.6	97.8	101.4	98.6	97.8	97.1	94.9	91.3	92.0	89.9	89.1
Wholesale, all commodities.....	99.9	97.4	102.8	99.3	94.7	97.0	95.8	97.9	96.9	95.1	95.7	95.6	93.7	93.5	92.8	91.5	90.2	90.1	88.5	86.2
Retail food.....	97.6	97.6	104.9	107.6	103.6	102.9	104.6	102.8	102.0	102.4	103.4	107.2	106.7	105.6	103.8	102.2	100.3	102.9	100.3	98.8
Cost of living (including food).....	98.2	99.4	102.4	102.4	100.0	98.7	98.4	98.4	98.0	97.0	97.6	99.4	99.3	98.7	97.4	96.8	95.6	96.2	95.0	94.4
<b>Distribution (values):</b>																				
* Bank debits, 141 cities.....	91.2	96.7	111.9	119.6	132.5	158.2	184.5	168.8	165.4	180.5	159.0	211.1	190.0	139.8	136.7	144.4	153.4	152.1	145.8	142.2
* Department stores, sales.....	98.0	99.0	103.0	106.0	107.0	108.0	110.0	104.0	106.0	107.0	112.0	109.0	107.0	115.0	102.0	106.0	104.0	106.0	104.0	100.0
* Mail-order sales, 2 houses.....	89.3	97.2	111.9	120.6	126.2	147.7	188.6	141.9	160.8	194.8	215.1	194.7	186.0	199.9	154.7	149.6	140.7	164.0	216.0	200.2
* 10-cent chains, sales.....	88.0	99.0	113.0	125.0	138.0	150.0	164.0	144.0	153.0	172.0	174.0	159.0	166.0	165.0	152.0	162.0	164.0	161.0	174.0	160.0
Postal receipts.....	93.6	98.5	107.9	114.5	117.3	117.7	121.1	117.9	111.9	121.0	109.3	133.5	122.0	153.3	120.9	111.3	121.8	122.3	117.3	104.9
Imports.....	97.8	93.1	109.0	114.3	108.0	105.5	113.5	109.6	98.2	123.9	109.4	121.1	104.8	96.1	96.3	87.2	93.0	95.3	88.1	77.4
Exports.....	91.5	100.8	107.8	105.5	106.8	112.6	115.2	111.1	102.3	101.4	103.6	139.6	116.5	112.4	108.3	91.9	97.4	88.0	84.8	78.8
<b>Transportation:</b>																				
Freight, net ton-miles.....	102.2	95.9	101.9	109.1	106.0	106.5	109.9	105.8	100.0	112.1	109.1	128.1	103.8	96.6	98.3	92.0	94.6	93.5	99.0	-----
<b>Finance:</b>																				
Member bank loans and discounts.....	94.1	98.5	107.4	112.9	117.3	126.8	135.9	126.9	128.4	129.3	135.1	151.1	141.3	140.9	133.1	131.1	135.0	135.4	134.4	135.5
Interest rate (commercial paper).....	116.2	90.0	93.5	100.9	95.4	112.8	135.7	106.1	115.1	139.2	139.2	145.0	133.4	116.0	113.2	110.2	98.6	90.0	87.0	81.2
Federal reserve ratio.....	99.0	104.1	96.9	96.0	99.1	89.1	93.4	89.2	84.7	96.5	94.4	89.9	93.0	90.2	101.4	102.1	103.4	106.9	108.7	104.5
Price, corporation bonds.....	96.4	99.9	103.6	108.0	112.5	113.0	106.5	115.0	112.3	106.7	105.4	105.2	105.0	107.1	106.8	107.0	109.3	109.2	109.2	109.1
Price, railroad stocks.....	86.0	96.1	117.9	133.4	162.7	174.5	194.3	178.9	169.6	184.4	192.1	203.5	176.2	181.4	180.6	188.6	188.1	187.6	176.7	162.8
Price, industrial stocks.....	86.1	91.9	122.0	132.4	171.4	214.8	292.6	213.6	202.1	290.3	297.8	316.3	219.4	229.3	235.5	251.9	262.2	279.2	261.3	227.2
Failures (liabilities).....	106.0	106.8	87.2	80.4	102.2	96.2	95.0	85.2	70.3	97.2	74.0	73.9	122.8	159.1	144.3	121.1	134.1	115.7	131.0	148.9

\* Seasonal adjustments.

## MID-YEAR STATISTICAL SUMMARY OF COMMERCE AND INDUSTRY, 1926-1930

The following table contains a review of production and distribution by principal industries and branches of commerce for the first half of 1930, with comparisons

since 1926. A similar presentation for the entire year 1928, with comparisons since 1924, was given in the February, 1930, issue of the Survey.

### VOLUME OF PRODUCTION AND DISTRIBUTION IN 1929, JANUARY-JUNE, INCLUSIVE

ITEM	1926	1927	1928	1929	1930	ITEM	1926	1927	1928	1929	1930
<b>FOODSTUFFS</b>						<b>BUILDING AND BUILDING MATERIALS</b>					
Corn grindings (bu.—000 omitted)	38,746	40,974	47,547	43,247	39,593	Contracts awarded (37 States—000,000 omitted)					
Sugar meltings (long tons—000 omitted)	2,718	2,665	2,278	2,582	2,338	Total floor space (sq. ft.)	457	432	505	429	283
Oleomargarine production (lbs.—000 omitted)	121,153	135,708	152,890	169,472	162,310	Total value (dolls.)	3,154	3,188	3,445	3,016	2,638
Butter production (lbs.—000 omitted)	759,784	829,166	742,369	758,632	792,879	Lumber production (board feet—000,000 omitted):					
Condensed and evaporated milk production (lbs.—000 omitted)	990,015	1,067,542	1,051,888	1,199,123	1,084,912	Southern pine	2,724	2,549	2,570	2,384	
Egg receipts (cases—000 omitted)	10,170	11,162	10,842	10,306	10,815	Douglas fir	3,302	2,959	2,918	2,010	
Fish catch (lbs.—000 omitted)	120,839	138,898	143,322	157,220	188,443	California redwood	273	224	250	231	213
Meat production, inspected slaughter (lbs.—000,000 omitted):						California white pine	677	467	526	515	364
Beef products	2,754	2,602	2,327	2,271	2,245	Western pine				1,070	943
Pork products	3,845	4,151	4,806	4,374	4,102	North Carolina pine	297	299	314	362	
Lamb and mutton products	248	241	249	258	314	Northern hemlock	101	107	98	90	62
Cottonseed-oil production (lbs.—000,000 omitted)	734	848	529	665	654	Northern hardwoods	271	228	224	217	140
Wheat-flour production (bbls.—000,000 omitted)	56	58	60	62	59	Northern pine lumber	245	244	235	217	153
						Northern pine lath	62	60	46	35	14
						Oak flooring	272	229	252	209	
						Maple flooring	56	55	45	38	33
<b>TEXTILES AND CLOTHING</b>						<b>AUTOMOBILES AND TIRES</b>					
Consumption (000 omitted):						Automobile production (000 omitted):					
Wool (pounds)	240,449	270,604	264,254	292,015	221,359	Passenger cars	2,082	1,795	1,959	2,763	1,895
Cotton (bales)	3,396	3,794	3,353	3,765	2,992	Trucks	272	276	239	452	320
Silk (bales)	237	275	289	303	270	Rubber tires, production (000 omitted):					
Production (000 omitted):						Pneumatic tires	23,161	26,341	28,695	33,365	24,315
Fine cotton goods (pieces)	2,501	2,919	1,811	2,697		Solid tires and cushions	319	338	258	217	117
Boots and shoes (pairs—000 omitted)	154,307	165,074	168,478	172,514	158,396	Inner tubes	29,674	28,464	30,292	32,270	24,141
Knit underwear (dozen garments—000 omitted)	6,677	6,386	6,770	7,171	6,625	<b>DISTRIBUTION</b>					
Hosiery (dozen pairs—000 omitted)	21,375	22,824	21,001	21,555	18,295	Sales:					
Men's and boys' suits (dozen—000 omitted)				15,890	12,848	2 mail-order houses (rel. to 1923-1925) (adjusted)	120	120	132	173	171
						5 ten-cent chains (adjusted)	116	133	145	162	162
						Advertising, agate lines (000,000 omitted):					
						Magazine	14	14	16	17	16
						Newspaper, 22 cities	644	623	595	619	559
						Postal receipts (dollars—000,000 omitted)	179	185	188	190	186
						Foreign trade of United States (dollars—000,000 omitted):					
						Exports	2,207	2,367	2,378	2,627	2,080
						Imports	2,303	2,124	2,086	2,286	1,736
						<b>PRICE INDEX NUMBERS</b>					
						Farm prices (rel. to 1909-1914)	141	127	140	136	128
						Wholesale prices (rel. to 1926)	101.2	94.7	97.1	96.7	90.5
						Retail food prices (rel. to 1913)	162	156	153	154	151
						Cost of living (rel. to July, 1914)	169	165	162	160	158
						<b>BANKING AND FINANCE</b>					
						Securities:					
						Sales (000,000 omitted)—					
						Stocks (shares)	218	279	416	538	509
						Bonds, total (dolls.)	1,626	1,982	1,701	1,335	1,496
						Prices monthly average (dolls.):					
						25 railroad stocks	89.55	108.96	119.94	130.87	126.40
						25 industrials	160.83	194.37	253.60	357.32	316.52
						40 bonds	79.88	82.78	85.61	80.32	80.64
						Banking and insurance (dollars—000,000 omitted):					
						Life insurance, new business	5,668	5,819	6,241	6,541	6,657
						Check payments (debits)—					
						Outside New York City	133,517	138,530	151,223	160,523	145,681
						New York City	172,424	189,474	247,913	297,718	250,333
						Interest rates, average (per cent)—					
						New York call loans, new	4.29	4.21	5.01	8.12	3.73
						Prime commercial paper 4-6 mo.	4.23	4.17	4.32	5.79	4.17
						Business failures:					
						Liabilities (dollars—000,000 omitted)	210	282	251	232	337
						Firms (number)	11,476	12,296	12,828	12,172	13,771

## MID-YEAR STATISTICAL SUMMARY OF COMMERCE AND INDUSTRY: 1926-1930—Continued

## STOCKS OF COMMODITIES

COMMODITY	Unit	JUNE 30—				Percentage change June 30, 1930 from June 30, 1929	DECEMBER 31—		
		1927	1928	1929	1930		1927	1928	1929
<b>FOODSTUFFS AND TOBACCO</b>									
Beef products.....	Thous. of lbs.	43,756	32,238	52,055	66,727	+28.2	76,947	98,913	103,883
Pork products.....	Thous. of lbs.	991,593	1,129,839	1,041,636	799,340	-23.3	578,280	755,256	703,084
Lamb and mutton.....	Thous. of lbs.	1,360	1,947	3,061	4,828	+37.7	4,408	5,623	5,317
Sugar (raw at refineries).....	Long tons	361,915	682,501	875,942	622,945	-28.9	205,573	221,196	682,429
Cottonseed oil.....	Thous. of lbs.	33,985	34,559	29,882	22,750	-23.4	158,834	133,724	116,150
Cottonseed cake and meal.....	Short tons	101,748	45,241	142,737	84,127	-41.1	190,234	182,771	203,554
Wheat (visible, United States).....	Thous. of bush.	23,544	40,480	94,060	109,985	+16.3	96,100	142,532	185,113
Wheat flour.....	Thous. of bbls.	6,250	6,200	8,000	9,300	+16.3	6,100	7,370	9,100
Corn (visible, United States).....	Thous. of bush.	36,239	17,451	13,932	7,378	-47.0	28,390	17,790	8,469
Oats (visible, United States).....	Thous. of bush.	18,110	3,392	8,114	11,317	+39.5	22,982	17,118	29,314
Barley (visible).....	Thous. of bush.	1,143	711	5,731	4,671	-18.5	2,707	9,250	9,927
Rye (visible).....	Thous. of bush.	947	1,465	6,422	11,248	+75.1	3,275	5,726	8,656
Lard.....	Thous. of lbs.	147,318	214,479	199,699	120,957	-39.4	54,855	85,217	82,098
Butter.....	Thous. of lbs.	89,996	69,750	91,962	106,727	+16.1	46,289	43,783	81,935
Cheese, all varieties.....	Thous. of lbs.	67,216	68,613	79,724	90,450	+13.5	64,035	83,730	80,623
Cheese, American.....	Thous. of lbs.	49,999	53,646	62,737	70,209	+11.9	47,765	68,075	63,478
Eggs, frozen.....	Thous. of lbs.	81,263	77,744	84,766	115,120	+35.8	47,920	56,181	63,644
Eggs, case.....	Thous. of cases	10,565	10,002	8,510	10,742	+26.2	882	1,415	704
Poultry.....	Thous. of lbs.	50,065	38,230	42,001	54,134	+28.9	117,490	109,684	140,723
Fish.....	Thous. of lbs.	36,696	40,946	40,148	47,498	+18.3	64,539	78,090	75,847
Coffee (visible, United States).....	Thous. of bags	788	861	700	867	+23.9	768	783	693
Rice (domestic).....	Pockets	1,181,230	1,067,092	865,117	-----	-----	2,290,857	2,792,141	2,439,182
Tobacco.....	Thous. of lbs.	1,841,078	1,730,221	1,683,732	1,731,962	+2.9	1,922,743	1,755,408	1,754,451
<b>CLOTHING MATERIALS</b>									
Wool, grease equivalent (mills and dealers).....	Thous. of lbs.	385,615	385,407	348,496	-----	-----	303,668	309,566	317,978
Cotton (mills and warehouses).....	Thous. of bales	3,776	2,808	2,665	4,462	+67.4	7,364	6,971	7,759
Silk (warehouses).....	Bales	37,024	41,127	47,425	28,450	-40.0	53,540	48,908	90,772
Hosiery.....	Thous. of doz. pairs	8,141	9,011	8,434	10,400	+23.3	7,640	7,522	7,648
Knit underwear.....	Thous. of dozens	1,623	1,761	1,737	1,837	+5.8	1,100	1,210	1,345
Hides and skins.....	Thous. of lbs.	226,274	244,746	250,025	286,666	+14.7	242,300	267,503	269,892
<b>METALS</b>									
Iron ore.....	Thous. of long tons	26,973	22,981	23,701	25,700	+8.4	37,852	35,147	37,646
Steel sheets.....	Short tons	168,155	151,666	163,607	200,589	+22.6	150,104	191,429	173,619
Steel barrels.....	Barrels	52,094	53,868	52,222	76,232	+46.0	52,606	46,465	66,883
Zinc.....	Short tons	43,858	44,468	38,832	109,578	+182.2	40,751	45,441	75,430
Tin (United States).....	Long tons	1,519	2,148	3,820	7,728	+102.3	1,573	2,428	2,820
<b>CONSTRUCTION MATERIALS</b>									
Yellow pine.....	M feet b. m.	1,208,417	1,090,126	985,538	-----	-----	1,207,534	978,954	1,095,532
California white pine.....	M feet b. m.	551,687	477,079	463,175	539,495	+16.5	667,618	566,914	623,554
Walnut lumber.....	M feet b. m.	11,063	13,530	12,960	20,281	+56.5	13,037	11,396	18,601
Walnut logs.....	M feet log measure	3,083	2,752	2,253	1,198	-46.8	3,615	1,884	2,790
Oak flooring.....	M feet b. m.	58,276	71,425	72,147	-----	-----	74,773	87,856	83,233
Maple flooring.....	M feet b. m.	25,061	26,271	20,964	30,170	+43.9	29,527	24,674	26,523
Roofing felt.....	Tons	3,181	2,153	3,077	7,391	+140.2	3,118	4,600	4,970
Cement.....	Thous. of bbls.	20,972	25,029	27,505	29,348	+6.7	21,082	22,650	23,550
Face brick.....	Thousands	3,592	3,307	4,227	-----	-----	3,723	3,820	4,500
Baths (enamel).....	Number	139,463	120,723	181,677	182,192	+0.3	163,354	175,104	163,728
Lavatories (enamel).....	Number	219,007	173,898	246,575	197,056	-20.1	212,004	207,940	155,189
Sinks (enamel).....	Number	267,871	227,929	298,739	261,491	-12.5	230,022	258,426	234,340
Turpentine (3 ports).....	Barrels	52,340	61,336	57,728	42,344	-26.6	81,939	90,371	68,432
Rosin (3 ports).....	Barrels	165,991	165,604	123,505	196,857	+59.4	248,755	271,787	257,595
<b>RUBBER AND PAPER</b>									
Pneumatic tires.....	Thousands	9,369	9,150	13,468	10,622	-21.1	7,734	10,218	9,570
Solid tires and cushions.....	Thousands	186	156	133	107	-19.5	161	152	122
Newsprint (at mills).....	Short tons	26,549	39,979	24,602	29,507	+19.9	20,877	34,469	19,023
Wood pulp, mechanical.....	Short tons	238,231	184,682	185,209	154,204	-14.0	156,872	125,011	67,588
Wood pulp, chemical.....	Short tons	39,086	45,870	36,188	45,306	+25.2	45,198	40,684	37,962

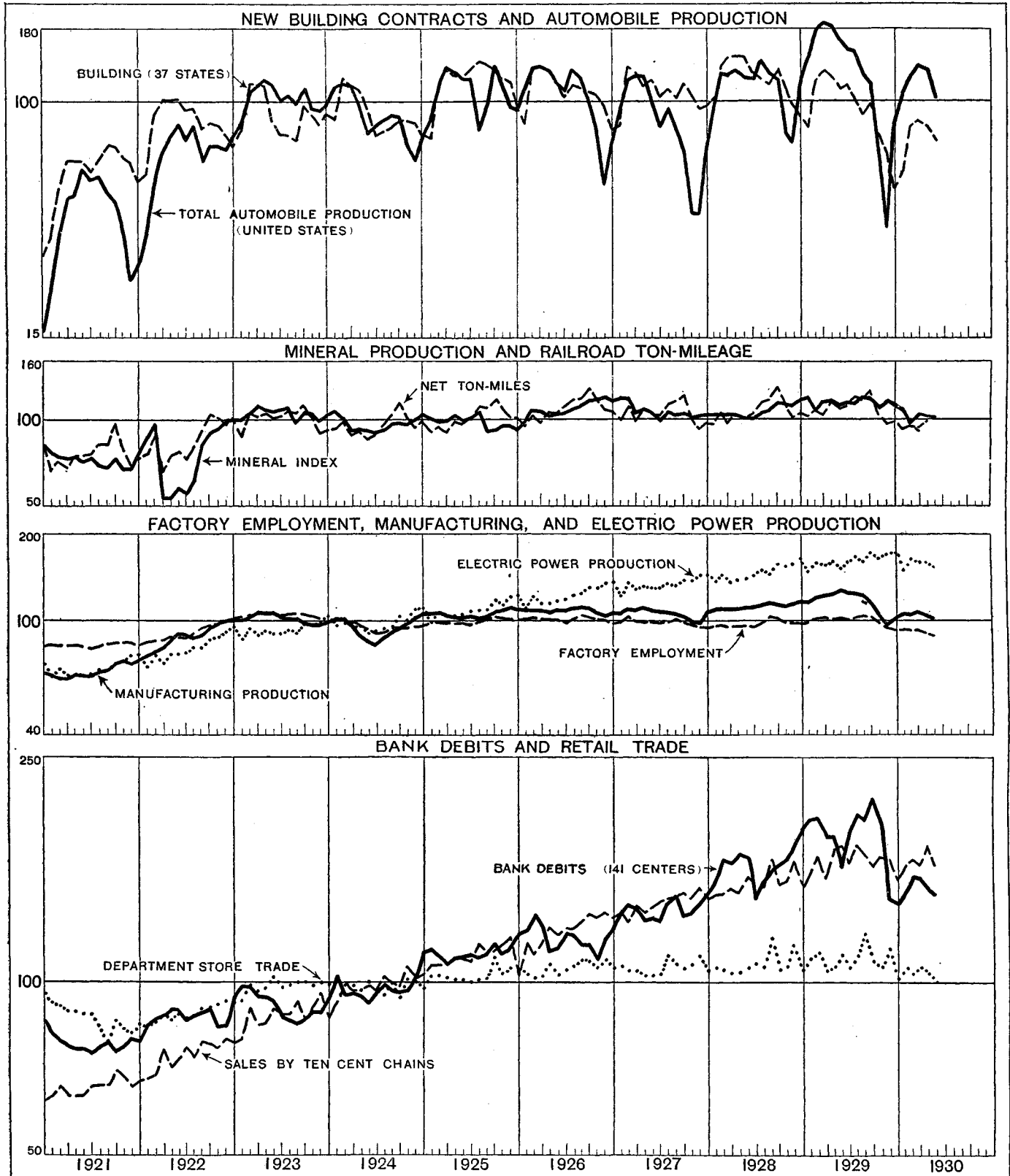
## UNFILLED ORDERS FOR SPECIFIED COMMODITIES

COMMODITY	Unit	JUNE 30—				Percentage change June 30, 1930 from June 30, 1929	DECEMBER 31—		
		1927	1928	1929	1930		1927	1928	1929
Hosiery.....	Thous. of doz. pairs	6,342	4,900	4,841	2,776	-42.7	5,395	4,403	3,327
Knit underwear.....	Thous. of dozens	2,614	2,053	2,342	1,634	-30.2	1,912	1,508	1,383
Cotton finishing.....	Days	5.5	3.6	5.1	2.0	-60.8	3.9	5.6	3.6
Pyroxylin coated textiles.....	Thous. of linear yds.	2,671	4,227	2,910	2,323	-20.2	2,979	3,543	1,747
Sheets, blue, black, and galvanized.....	Short tons	399,562	526,798	676,568	431,324	-36.2	745,393	592,094	443,127
Steel (U. S. Steel Corporation).....	Thous. of long tons	3,053	3,637	4,257	3,968	-6.8	3,973	3,977	4,417
Locomotives.....	Number	400	201	552	343	-37.9	232	282	490
Oak flooring.....	M feet b. m.	37,983	49,002	50,832	-----	-----	27,887	30,956	45,272
Maple flooring.....	M feet b. m.	11,634	10,500	10,600	5,430	-48.8	8,508	7,988	5,579
Baths (enamel).....	Number	45,479	121,061	41,644	43,918	+5.5	34,173	39,182	40,568
Small ware (enamel).....	Number	115,275	315,920	154,243	126,144	-18.2	106,850	118,100	120,843
Face brick.....	Thousands	1,853	1,441	1,448	-----	-----	850	1,172	1,189
Common brick.....	Thousands	254,191	260,970	163,126	182,680	+12.0	224,825	182,791	141,143
Freight cars.....	Number	21,956	12,446	39,173	22,759	-41.9	12,431	12,671	34,085
Ships.....	Thous. of gross tons	219	264	170	487	+186.5	204	94	372
Furniture.....	No. of days' supply	53	46	58	24	-58.6	29	39	32
Boxboard.....	Short tons	94,847	80,834	73,330	58,866	-19.7	74,664	95,329	58,612
Illuminating glassware.....	No. of weeks' supply	1.3	1.3	1.6	1.1	-30.6	1.0	1.5	1.0



## MEASURES OF INDUSTRIAL AND COMMERCIAL ACTIVITY

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



WEEKLY BUSINESS INDICATORS <sup>1</sup>

[All data, except Fisher's index (1926=100), are relative to the weekly average for 1923-1925 as 100]

WEEK ENDING SAT. 2—	PRODUCTION					TRADE		WHOLESALE PRICES					RECEIPTS				BANKING AND FINANCE							
	Steel	Bituminous coal	Beechite coke	Petroleum	Buildings, new awards	Bank debits outside N. Y. C.	Carloadings	Fisher's index	Wheat	Cotton	Iron and steel	Copper	Wheat	Cotton	Cattle	Hogs	Loans and discounts	Federal res. ratio	Call-money rates	Time-money rates	Stock prices	Bond prices	Business failures	
<b>1929</b>																								
May 4	132.9	90.1	49.4	126.3	122.9	136.0	109.5	96.7	82.9	72.8	89.5	129.0	48.3	34.6	88.6	85.7	131.6	94.6	269.7	197.1	257.2	106.0	103.4	
11	127.6	93.8	51.0	126.0	125.8	134.6	109.3	95.7	80.6	72.1	89.5	129.0	50.8	33.5	79.7	70.9	130.1	95.9	290.9	202.9	257.6	105.7	105.2	
18	128.9	91.7	54.7	126.9	131.7	134.2	109.1	95.9	79.8	72.4	89.7	129.0	51.3	27.7	76.3	76.1	130.4	96.9	218.2	205.7	256.4	105.3	116.7	
25	126.3	94.0	56.7	129.1	108.6	135.6	110.7	95.9	77.5	71.7	89.7	129.0	52.4	30.4	71.2	85.7	129.5	97.9	157.6	211.4	249.8	104.9	100.7	
June 1	125.0	87.7	58.0	130.2	182.6	127.1	101.5	95.6	72.9	68.0	89.6	129.0	57.4	30.8	63.0	77.0	129.6	96.1	145.5	205.7	241.8	104.3	91.9	
8	125.0	95.2	59.2	130.8	117.4	132.3	110.1	95.8	76.0	69.9	89.5	129.0	68.6	25.0	71.5	89.7	130.7	96.0	169.7	194.3	250.9	104.5	103.9	
15	126.3	96.8	59.6	131.7	149.1	127.9	111.6	96.6	79.1	69.5	89.5	129.0	70.3	31.2	63.7	87.2	130.9	97.0	187.9	188.6	253.4	104.5	104.7	
22	126.3	94.4	58.4	132.7	127.4	142.6	111.6	97.6	79.1	68.0	89.3	129.0	78.9	36.2	74.1	76.7	132.4	97.8	169.7	185.7	261.2	104.5	104.9	
29	125.0	98.5	59.2	135.1	149.0	125.3	114.4	97.7	84.5	68.0	89.0	129.0	94.5	36.5	72.5	81.7	133.4	97.2	212.1	217.1	268.2	104.2	104.4	
July 6	123.7	77.1	53.5	137.2	175.3	166.0	95.0	98.2	87.6	67.6	88.8	129.0	143.4	28.8	53.2	74.6	135.4	94.1	242.4	171.4	280.7	104.2	83.0	
13	122.4	92.1	53.9	138.8	145.9	121.6	111.2	98.1	90.7	67.6	88.7	129.0	207.5	33.5	75.3	84.3	135.3	94.2	209.1	171.4	281.5	104.2	108.1	
20	125.0	95.7	55.1	138.9	158.1	143.6	112.6	98.8	100.7	70.6	88.7	129.0	229.1	18.5	75.0	76.4	135.2	95.2	230.3	180.0	289.9	104.2	92.4	
27	126.3	98.6	55.9	139.1	156.0	138.0	114.8	99.2	100.0	70.8	88.6	129.0	374.9	23.1	83.2	75.7	135.8	96.4	206.1	82.9	289.1	104.1	98.3	
Aug. 3	123.7	95.9	54.7	139.7	190.4	137.4	115.2	98.6	101.5	69.5	88.6	129.0	470.5	23.1	78.8	68.1	136.5	96.0	242.4	197.1	290.4	103.8	100.5	
10	122.4	98.2	51.4	139.0	111.4	144.3	113.8	97.6	93.8	66.5	88.4	129.0	390.0	41.2	69.6	68.6	136.4	96.3	206.1	202.9	288.7	103.5	106.9	
17	118.4	97.9	50.2	141.2	104.6	133.9	114.8	97.3	96.1	66.9	88.2	129.0	171.6	46.9	78.2	65.3	135.6	96.3	169.7	202.9	292.3	103.2	90.4	
24	117.1	102.3	49.4	142.4	127.7	138.4	118.4	97.0	94.6	68.8	88.2	129.0	233.5	71.2	94.0	66.1	135.5	97.4	160.6	202.9	301.2	103.0	98.0	
31	115.8	109.7	47.8	142.7	108.8	132.5	121.0	96.9	93.0	71.0	88.2	129.0	174.4	104.6	92.1	74.3	135.6	97.3	209.1	205.7	308.1	103.0	88.7	
Sept. 7	113.2	95.8	49.4	141.9	97.9	121.6	106.1	96.3	96.9	70.6	88.2	129.0	151.3	153.8	94.0	63.8	137.2	94.4	187.9	205.7	312.8	103.1	73.7	
14	111.8	111.5	50.2	142.3	128.0	136.9	120.3	96.3	97.7	69.9	88.2	129.0	146.8	174.6	100.0	69.2	137.2	95.1	197.9	205.7	308.0	103.1	97.5	
21	107.9	111.5	50.2	140.4	112.8	155.3	121.6	96.1	96.9	68.8	88.2	129.0	136.1	200.4	109.8	66.4	138.1	95.2	203.0	205.7	312.5	103.1	88.5	
28	111.8	117.5	48.6	139.2	99.2	147.8	125.4	95.8	95.3	68.8	88.0	129.0	140.0	239.6	121.5	77.8	138.0	95.2	215.1	208.6	304.9	102.9	105.2	
Oct. 5	110.5	114.0	43.7	138.6	112.1	166.4	123.0	94.7	96.1	69.5	87.8	129.0	114.3	308.8	115.2	77.5	139.4	93.8	181.8	205.7	292.8	102.8	97.3	
12	103.9	118.8	44.9	136.2	116.1	146.1	123.0	94.7	96.9	68.4	87.7	129.0	92.9	340.4	106.0	72.3	138.2	96.0	130.3	200.0	303.4	102.9	90.4	
19	105.3	114.4	42.0	139.4	186.2	143.9	123.6	94.6	93.8	66.2	87.5	129.0	117.3	374.2	121.2	80.3	139.2	94.3	145.5	177.1	298.3	103.7	88.2	
26	105.3	117.1	39.2	139.8	91.5	159.0	118.3	94.1	90.7	67.6	87.3	129.0	109.8	350.0	133.5	88.6	140.0	96.1	130.3	165.7	271.8	104.5	111.8	
Nov. 2	101.3	113.5	43.3	135.3	116.6	174.5	111.8	93.7	92.2	66.5	87.2	129.0	89.1	337.3	131.0	72.3	151.5	89.5	145.5	142.9	224.3	103.9	101.7	
9	96.1	113.7	46.1	126.3	88.9	168.1	109.5	93.3	91.5	64.7	87.2	129.0	74.9	271.5	123.8	86.4	147.9	90.1	145.5	137.1	208.4	104.1	98.8	
16	93.4	108.2	39.2	125.8	67.0	144.0	102.6	92.6	87.6	63.7	87.2	129.0	56.7	264.6	110.4	94.8	144.9	89.7	142.4	137.1	185.0	103.3	99.3	
23	90.8	112.6	34.7	126.4	79.2	162.5	99.1	92.2	93.0	64.7	86.9	129.0	48.0	217.7	102.8	99.8	142.9	91.9	115.1	125.7	205.3	103.3	116.0	
30	88.2	102.5	34.3	126.6	133.7	129.8	87.3	92.3	93.0	64.0	86.9	129.0	53.3	200.8	76.6	90.6	141.6	92.6	109.1	114.3	207.8	104.9	91.2	
Dec. 7	84.2	120.3	35.1	126.3	135.3	127.0	97.7	92.7	96.9	64.3	86.9	129.0	60.3	211.5	93.7	118.6	140.3	92.3	109.1	108.6	216.3	105.4	111.8	
14	84.2	119.0	32.7	125.9	69.6	125.9	96.3	92.6	93.0	63.6	86.8	129.0	88.2	183.5	88.6	111.4	139.0	92.4	109.1	114.3	217.7	105.3	126.3	
21	82.9	114.5	33.5	126.5	64.6	143.2	87.9	92.8	91.5	62.5	86.9	129.0	60.8	160.4	68.0	107.7	138.8	89.4	109.1	114.3	208.7	104.8	122.4	
28	51.3	79.4	29.0	125.2	61.1	112.3	66.6	93.1	91.6	64.0	86.7	129.0	49.3	154.2	45.9	59.8	138.5	87.2	136.4	114.3	204.5	104.7	97.3	
<b>1930</b>																								
Jan. 4	77.6	103.8	30.6	127.3	86.3	133.6	81.0	93.0	96.9	63.6	86.6	129.0	50.7	98.8	62.3	80.7	141.2	89.8	145.5	114.3	211.3	104.8	123.1	
11	86.8	114.6	29.0	129.1	86.3	262.8	90.0	93.1	93.8	64.0	86.3	129.0	57.8	113.8	80.1	112.8	136.5	84.1	112.1	111.4	212.3	105.2	179.9	
18	90.8	109.5	27.8	127.8	88.2	125.1	88.4	93.2	91.5	64.3	86.0	129.0	51.9	74.6	83.5	98.1	134.7	87.3	109.1	108.6	213.0	105.1	156.8	
25	97.4	120.1	27.3	125.6	59.5	123.7	90.0	93.7	91.5	62.6	85.4	129.0	40.5	62.7	76.3	125.9	133.5	98.4	109.1	108.6	215.6	104.7	158.2	
Feb. 1	100.0	119.3	26.7	124.6	59.6	109.8	93.8	93.3	88.4	60.3	85.1	129.0	42.7	64.6	75.3	125.1	133.4	101.0	109.1	114.3	222.7	104.7	133.9	
8	105.3	112.2	30.2	125.5	60.6	128.2	92.5	93.4	86.8	55.9	85.1	129.0	65.9	45.0	62.7	104.0	133.0	100.6	109.1	114.3	228.3	104.8	152.1	
15	106.6	104.9	26.9	127.4	63.5	100.4	93.0	93.1	87.6	58.5	85.1	129.0	59.6	43.8	65.5	107.1	132.8	100.5	97.0	114.3	231.6	104.9	139.1	
22	105.3	97.6	27.8	130.7	66.0	130.7	86.5	92.2	86.8	56.3	85.1	129.0	52.7	56.5	73.1	92.0	132.2	101.3	109.1	111.4	229.4	104.8	143.7	
Mar. 1	103.9	83.9	27.8	126.0	139.4	109.0	93.8	91.9	86.8	56.3	85.1	129.0	78.5	60.4	69.3	98.1	131.4	101.7	106.1	111.4	228.7	105.0	129.2	
8	100.9	87.9	26.8	121.7	75.8	139.9	91.1	91.0	82.2	52.2	84.8	129.0	66.4	51.5	71.8	76.0	132.4	103.0	97.0	102.9	232.9	105.2	129.5	
15	97.4	82.9																						

INTERNAL REVENUE RECEIPTS FOR THE FISCAL YEAR 1930<sup>1</sup>

Based upon collectors' telegraphic reports of June 30

Districts	Corporation	Individual	Total income tax	Miscellaneous taxes	Total fiscal year 1930	Total fiscal year 1929
Alabama	\$3,212,120.67	\$3,445,086.74	\$6,657,207.41	\$504,376.06	\$7,161,583.47	\$8,153,579.79
Arizona	1,472,189.87	1,358,521.83	2,830,711.70	158,752.44	2,989,464.14	2,398,878.36
Arkansas	1,890,165.56	1,147,889.69	3,038,055.25	110,536.20	3,148,591.45	3,673,315.47
First California	37,655,091.63	27,703,405.86	65,358,497.49	18,295,218.16	83,653,715.65	86,470,205.96
Sixth California	20,699,760.98	33,831,463.76	60,531,224.74	5,109,485.27	65,640,710.01	68,158,935.81
Colorado	7,422,924.53	4,629,434.68	12,052,359.21	420,127.07	12,472,486.28	11,539,234.52
Connecticut	20,998,600.17	24,456,837.44	45,455,437.61	2,926,127.75	48,381,565.36	42,215,118.85
Delaware	25,981,014.20	13,122,433.19	39,103,447.39	1,041,874.53	40,145,321.90	30,309,528.07
Florida	3,057,155.64	8,026,388.03	11,083,543.67	5,655,220.89	16,738,764.56	21,388,162.32
Georgia	8,537,961.80	3,616,513.03	12,154,475.43	375,096.02	12,529,571.45	14,055,919.91
Hawaii	3,010,989.83	1,379,363.76	5,290,353.59	217,377.85	5,507,731.44	5,606,515.38
Idaho	585,638.28	241,881.96	827,520.24	40,547.28	868,067.52	1,089,618.24
First Illinois	118,312,721.20	97,894,977.34	216,147,698.54	22,028,399.85	238,176,098.39	229,154,604.06
Eighth Illinois	4,246,372.56	2,980,762.37	7,227,134.93	8,963,112.93	9,073,160.09	9,073,160.09
Indiana	13,614,229.86	9,725,853.54	23,340,083.40	2,958,458.72	26,298,542.12	28,097,172.86
Iowa	7,369,962.99	5,473,017.12	12,842,980.11	524,684.75	13,367,664.86	13,430,691.80
Kansas	13,476,222.49	3,191,978.86	16,668,201.35	465,620.98	17,133,822.33	17,934,706.64
Kentucky	9,026,800.71	5,920,269.14	14,947,069.85	15,896,577.00	30,843,646.85	26,662,950.73
Louisiana	6,527,144.94	4,042,067.61	10,569,212.55	1,629,956.73	12,199,169.28	15,080,701.21
Maine	3,967,477.04	3,960,299.91	7,927,776.95	743,034.45	8,670,811.40	8,688,973.55
Maryland (including District of Columbia)	24,851,452.39	25,887,479.36	50,738,931.75	3,464,404.18	54,203,335.93	51,741,488.72
Massachusetts	48,058,706.02	61,626,024.09	109,684,730.11	6,058,729.28	115,743,459.39	115,519,620.59
Michigan	79,276,610.52	48,398,727.19	127,675,337.71	9,400,979.52	137,076,317.23	151,423,451.65
Minnesota	16,825,200.10	11,773,249.49	28,598,449.59	1,840,183.97	30,438,633.56	29,069,411.04
Mississippi	1,296,379.48	749,630.88	2,046,010.36	54,054.61	2,100,064.97	2,516,169.87
First Missouri	23,457,675.19	14,921,660.83	38,379,336.02	10,698,832.01	49,078,168.03	51,705,306.52
Sixth Missouri	7,271,639.42	4,892,185.50	12,163,824.92	782,877.30	12,946,702.22	14,146,216.29
Montana	1,165,035.34	1,365,514.84	2,530,550.18	80,189.14	2,610,739.32	4,427,782.50
Nebraska	3,039,801.26	2,469,130.30	5,508,931.56	396,794.81	5,905,726.37	6,179,660.25
Nevada	890,603.97	3,200,818.03	1,321,422.00	558,186.88	1,879,608.88	1,140,501.38
New Hampshire	1,337,257.14	1,899,291.04	3,236,548.18	472,425.07	3,708,973.25	3,978,305.36
First New Jersey	6,335,447.20	10,594,550.31	16,929,997.51	2,184,642.80	19,114,640.31	22,504,548.90
Fifth New Jersey	39,026,169.77	38,857,667.70	77,883,837.47	26,951,665.80	104,835,503.27	98,942,258.39
New Mexico	466,041.78	391,884.82	857,926.60	66,720.90	924,647.50	965,354.52
First New York	14,556,237.49	31,613,419.35	46,169,656.84	12,232,657.63	58,402,314.47	72,357,204.47
Second New York	218,843,596.17	259,392,439.12	478,236,035.29	60,194,944.47	538,430,979.76	461,274,391.90
Third New York	101,161,286.13	107,192,640.42	208,353,926.55	16,526,992.02	224,880,918.57	209,259,314.05
Fourteenth New York	19,492,041.83	23,971,431.86	43,463,473.69	6,421,090.79	49,884,564.48	44,449,016.91
Twenty-first New York	7,021,213.85	7,405,279.10	14,426,492.95	1,292,142.77	15,718,635.72	14,844,483.78
Twenty-eighth New York	21,067,306.84	18,398,743.22	39,466,050.06	1,719,841.20	41,185,891.26	41,351,792.54
North Carolina	11,631,699.60	5,355,337.47	16,987,037.07	257,276,180.96	274,263,218.03	254,494,467.51
North Dakota	346,143.28	177,938.21	524,081.49	32,210.94	556,292.43	708,885.31
First Ohio	17,496,831.83	16,087,974.42	33,584,806.25	11,897,496.83	45,482,303.08	49,969,493.87
Tenth Ohio	10,376,984.95	5,695,743.74	16,072,728.69	3,802,173.49	19,874,902.18	18,441,183.05
Eleventh Ohio	5,337,143.21	3,329,025.87	8,666,169.08	478,941.30	9,145,110.38	9,568,546.20
Eighteenth Ohio	43,975,521.06	23,864,776.33	67,840,297.39	3,301,314.74	71,141,612.13	64,517,994.68
Oklahoma	10,692,059.56	7,179,803.57	17,871,863.13	207,807.20	18,079,670.33	17,940,513.26
Oregon	3,055,332.57	2,320,987.02	5,376,369.59	368,425.20	5,744,794.79	6,185,311.93
First Pennsylvania	64,878,941.22	55,959,486.76	120,838,427.98	12,379,043.17	133,217,471.15	142,955,526.77
Twelfth Pennsylvania	9,596,155.65	6,158,288.07	15,754,443.72	2,143,338.35	17,897,782.07	18,836,011.82
Twenty-third Pennsylvania	41,866,909.66	35,088,992.32	76,955,901.98	2,633,659.97	79,589,561.95	75,785,118.01
Rhode Island	5,843,307.53	8,020,668.97	13,863,976.50	1,444,755.12	15,308,731.62	14,114,507.98
South Carolina	2,065,905.42	735,614.11	2,801,519.53	216,684.77	3,018,204.30	3,657,326.40
South Dakota	479,256.43	363,059.46	842,315.89	41,215.10	883,530.99	837,704.57
Tennessee	7,221,463.49	5,075,440.42	12,296,903.91	4,184,370.96	16,481,274.87	17,984,914.02
First Texas	12,454,094.99	8,549,816.14	21,003,911.13	1,257,602.60	22,261,513.73	21,504,402.65
Second Texas	8,691,712.00	7,263,691.12	15,955,403.12	635,744.60	16,591,147.72	17,961,536.85
Utah	2,129,800.24	993,826.50	3,123,626.74	103,895.44	3,227,522.18	3,568,168.06
Vermont	1,047,017.85	1,098,940.69	2,145,958.54	83,557.19	2,229,515.73	2,363,379.08
Virginia	14,364,897.09	4,226,665.16	18,591,562.25	78,102,335.43	96,693,897.68	87,484,287.39
Washington, including Alaska	8,254,456.65	5,526,923.32	13,781,379.97	660,627.97	14,442,007.94	14,178,024.23
West Virginia	6,306,726.96	3,144,079.68	9,450,806.64	2,689,013.73	12,139,820.37	14,261,248.39
Wisconsin	22,068,064.80	12,065,653.87	34,133,720.67	1,379,106.14	35,512,826.81	39,217,720.10
Wyoming	440,324.09	232,932.99	723,257.08	29,077.47	752,334.55	1,166,890.48
Philippine Islands				389,375.58	389,375.58	371,869.57
Sales of documentary stamps by postmasters				15,289.15	15,289.15	
Internal revenue receipts through customs offices						
Total	1,263,575,106.97	1,146,655,782.12	2,410,230,889.09	628,268,040.52	3,038,498,929.61	2,939,054,375.43

## SUMMARY, BY QUARTERS

Quarter ended—	Income tax	Miscellaneous taxes	Total (all sources)
Sept. 30, 1929	\$609,466,017.85	\$161,369,194.15	\$770,835,212.00
Dec. 31, 1929	575,136,909.94	157,479,626.61	732,616,536.55
Mar. 31, 1930	628,079,468.37	145,921,879.23	774,001,347.60
June 30, 1930	597,548,492.93	163,497,340.53	761,045,833.46
Total, fiscal year 1930	2,410,230,889.09	628,268,040.52	3,038,498,929.61
Total, fiscal year 1929	2,331,274,428.64	607,779,946.79	2,939,054,375.43
Increase, 1930	78,956,460.45	20,488,093.73	99,444,554.18

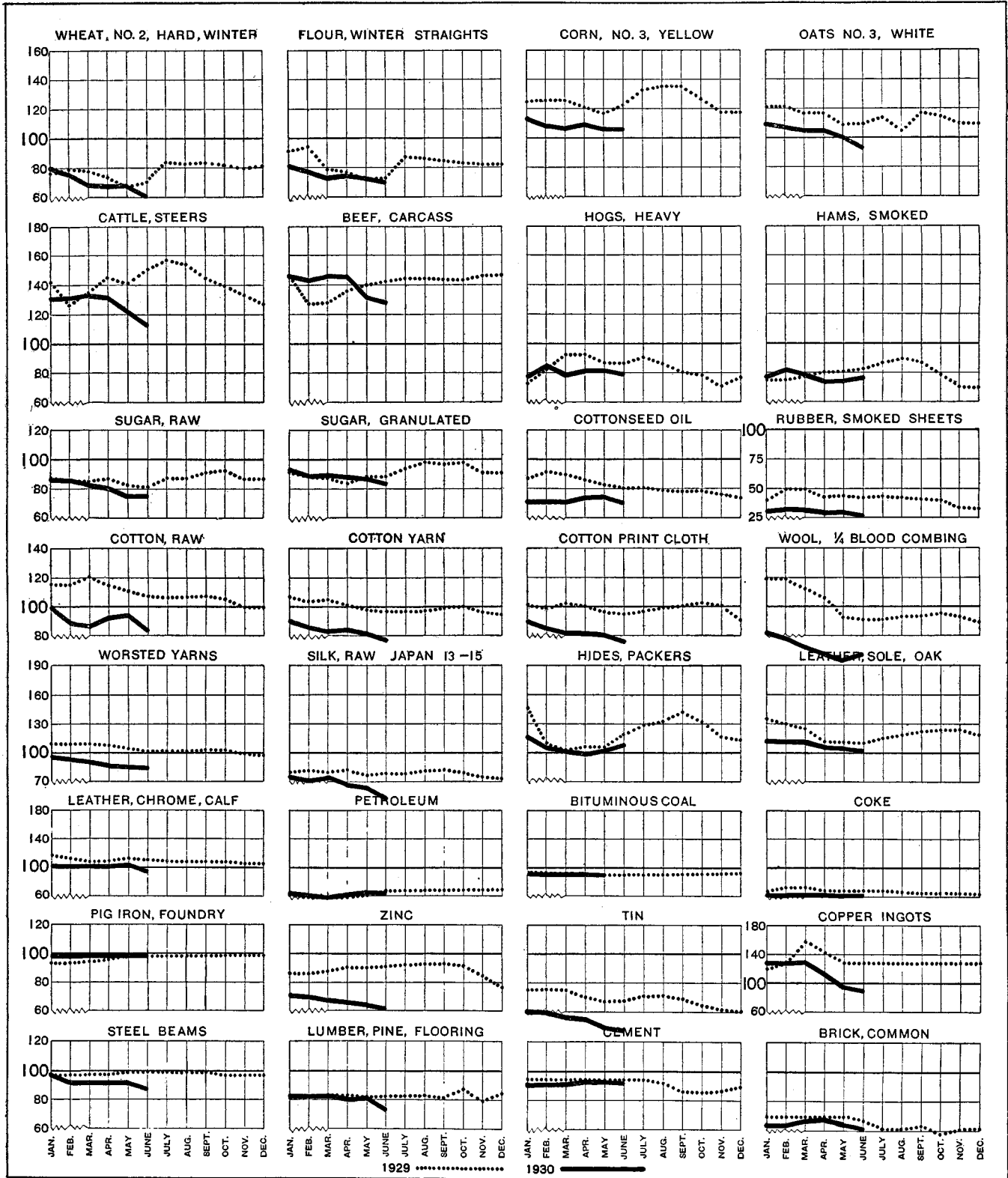
<sup>1</sup> Compiled by the Treasury Department, Bureau of Internal Revenue, and represents actual collections of internal-revenue receipts from corporations and individuals covering the years indicated.

<sup>2</sup> Eleven months' collections only.



## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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



## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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

COMMODITIES	Unit	ACTUAL PRICE (dollars)			RELATIVE PRICE				
		May, 1930	June, 1930	June, 1929	1926 average=100				
					April, 1930	May, 1930	June, 1930	May, 1929	June, 1929
<b>FARM PRODUCTS—AVERAGE PRICE TO PRODUCER</b>									
Wheat.....	Bushel.....	0.875	0.879	0.868	69	65	65	67	64
Corn.....	Bushel.....	.777	.790	.869	112	111	113	123	124
Potatoes.....	Bushel.....	1.502	1.486	.633	79	81	80	32	34
Cotton.....	Pound.....	.145	.140	.179	97	96	93	119	119
Cottonseed.....	Ton.....	30.61	29.66	35.83	109	113	109	139	132
Cattle, beef.....	Pound.....	.0836	.0820	.0972	134	129	127	151	151
Hogs.....	Pound.....	.0899	.0910	.0980	78	76	77	84	83
Lambs.....	Pound.....	.0892	.0902	.1231	78	77	78	111	106
<b>FARM PRODUCTS—MARKET PRICE</b>									
Wheat, No. 1, northern spring (Minneapolis).....	Bushel.....	1.07	1.00	1.15	70	68	63	70	73
Wheat, No. 2, red, winter (St. Louis).....	Bushel.....	1.14	1.05	1.21	76	74	68	76	78
Wheat, No. 2, hard, winter (Kansas City).....	Bushel.....	.99	.89	1.05	68	66	60	68	71
Corn, No. 3, yellow (Chicago).....	Bushel.....	.79	.79	.91	109	105	105	116	121
Oats, No. 3, white (Chicago).....	Bushel.....	.41	.38	.45	105	100	93	110	110
Barley, No. 2 (Minneapolis).....	Bushel.....	.55	.49	.60	88	86	77	94	94
Rye, No. 2 (Minneapolis).....	Bushel.....	.65	.57	.84	74	71	62	92	91
Cotton, middling upland (New York).....	Pound.....	.164	.145	.188	93	94	83	111	107
Wool, 1/4 blood combing, Ohio and Pennsylvania fleeces (Boston).....	Pound.....	.29	.31	.42	67	63	67	94	91
Cattle, steers, good to choice, corn fed (Chicago).....	Cwt.....	11.563	10.725	14.375	132	121	113	141	151
Hogs, heavy (Chicago).....	Cwt.....	10.019	9.675	10.656	81	81	78	87	86
Sheep, ewes (Chicago).....	Cwt.....	4.781	3.450	5.313	78	73	52	90	81
Sheep, lambs (Chicago).....	Cwt.....	9.044	9.725	12.750	65	66	71	93	93
<b>FOOD</b>									
Flour, standard patents (Minneapolis).....	Barrel.....	5.969	5.825	6.375	72	71	69	73	76
Flour, winter straights (Kansas City).....	Barrel.....	5.270	4.994	5.260	75	73	69	72	73
Sugar, 96° centrifugal (New York).....	Pound.....	.032	.032	.035	80	74	74	82	81
Sugar, granulated, in barrels (New York).....	Pound.....	.048	.045	.049	88	87	83	89	89
Cottonseed oil, prime yellow (New York).....	Pound.....	.088	.083	.096	74	74	70	82	81
Beef, fresh, carcass, good native steers (Chicago).....	Pound.....	.215	.195	.234	145	131	119	140	143
Beef, fresh, carcass, steers (New York).....	Pound.....	.220	.218	.238	129	129	127	135	139
Pork, smoked hams (Chicago).....	Pound.....	.228	.233	.254	74	74	76	81	82
Butter, creamery, 92 score (New York).....	Pound.....	.35	.33	.44	87	78	73	98	98
Oleomargarine, standard, uncolored (Chicago).....	Pound.....	.235	.228	.235	103	103	100	103	103
<b>TEXTILES</b>									
Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston).....	Pound.....	.290	.273	.348	84	81	76	99	97
Cotton-print cloth 64 x 60-38 1/2"-5.35-yards to pound.....	Yard.....	.061	.056	.072	81	80	75	97	96
Cotton sheeting, brown 4/4 Trion (New York).....	Yard.....	.078	.075	.084	82	84	80	94	90
Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston).....	Pound.....	1.225	1.200	1.450	87	85	84	105	101
Women's dress goods, French, 39 inches, at mills, serge.....	Yard.....	.900	.900	.975	87	87	87	94	94
Suitings, unfinished worsted—13-ounce, mill.....	Yard.....	1.756	1.756	2.008	88	88	88	100	100
Suitings, serge, 11-ounce, 56-58 inch.....	Yard.....	1.843	1.843	1.959	85	85	85	90	90
Silk, Japan, 13-15.....	Pound.....	3.940	3.251	4.925	68	64	53	77	80
Hosiery, women's pure silk, mill.....	Dozen pair.....	8.500	8.000	9.250	73	73	69	82	80
<b>LEATHER</b>									
Hides, green salted, packers' heavy native steers (Chicago).....	Pound.....	.143	.152	.168	100	102	108	106	119
Hides, calfskins, No. 1, country, 8 to 15 pounds (Chicago).....	Pound.....	.169	.175	.186	91	97	101	103	107
Leather, sole, oak, scoured backs, heavy (Boston).....	Pound.....	.460	.440	.485	107	105	100	112	111
Boots and shoes, men's black calf, blucher (Massachusetts).....	Pair.....	6.750	6.750	6.750	106	106	106	106	106
Boots and shoes, men's dress welt tan calf oxford (St. Louis).....	Pair.....	4.850	4.850	4.850	100	100	100	100	100
<b>FUEL</b>									
Coal, bituminous, mine-run (composite price).....	Net ton.....	3.902	3.892	3.905	90	90	90	91	91
Coal, bituminous, prepared sizes (composite price).....	Net ton.....	4.085	4.093	4.177	85	85	85	86	87
Coal, anthracite, chestnut (composite price).....	Long ton.....	12.441	12.251	12.628	94	90	89	91	92
Coke, Connellsville (range of prompt and future), furnace—at ovens.....	Short ton.....	2.525	2.500	2.800	63	62	61	68	68
Petroleum, crude, Kansas-Oklahoma—at wells.....	Barrel.....	1.178	1.178	1.300	62	63	63	61	69
<b>METALS</b>									
Pig iron, foundry No. 2, northern (Pittsburgh).....	Long ton.....	20.260	20.260	20.260	98	98	98	98	98
Pig iron, basic, valley furnace.....	Long ton.....	18.500	18.500	18.500	100	100	100	99	100
Steel billets, Bessemer (Pittsburgh).....	Long ton.....	32.500	31.000	35.250	94	93	89	103	101
Copper ingots, electrolytic, early delivery (New York).....	Pound.....	.1276	.1205	.1778	113	93	87	129	129
Brass, sheets, mill.....	Pound.....	.198	.192	.233	115	104	101	122	122
Lead, pig, desilverized, for early delivery (New York).....	Pound.....	.0552	.0541	.0669	65	66	64	83	80
Tin, straits (New York).....	Pound.....	.3213	.3030	.4426	55	49	46	67	68
Zinc, slab, western (St. Louis).....	Pound.....	.0464	.0444	.0660	66	63	61	90	91
<b>BUILDING MATERIAL AND MISCELLANEOUS</b>									
Lumber, pine, southern, yellow flooring, mill.....	M feet.....	36.530	33.060	37.040	81	81	73	82	82
Brick, common red, domestic building (New York).....	Thousand.....	10.500	10.000	11.000	68	64	61	70	67
Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district).....	Barrel.....	1.608	1.600	1.617	93	93	92	95	95
Steel beams, mill (Pittsburgh).....	Cwt.....	1.800	1.700	1.950	92	92	87	100	100
Rubber, smoked sheets (New York).....	Pound.....	.142	.124	.206	31	29	26	44	43
Sulphuric acid, 66° (New York).....	Ton.....	15.500	15.500	15.500	107	107	107	107	107
Newsprint, rolls, contract, mill.....	Cwt.....	3.250	3.250	3.250	94	94	94	94	94

## BUSINESS CONDITIONS IN JUNE

As indicated by the weighted index of the Federal Reserve Board, industrial production, after adjustments for seasonal variations, showed a decline from the month of June and was lower than a year ago. Manufacturing and mineral output likewise declined from both prior periods. Although manufacturing, as a whole, registered a decline, tobacco manufactures showed an increase of 5 per cent during the month.

### COMMODITY STOCKS

Commodity stocks held at the end of June showed a decline of 4 per cent from those held at the end of

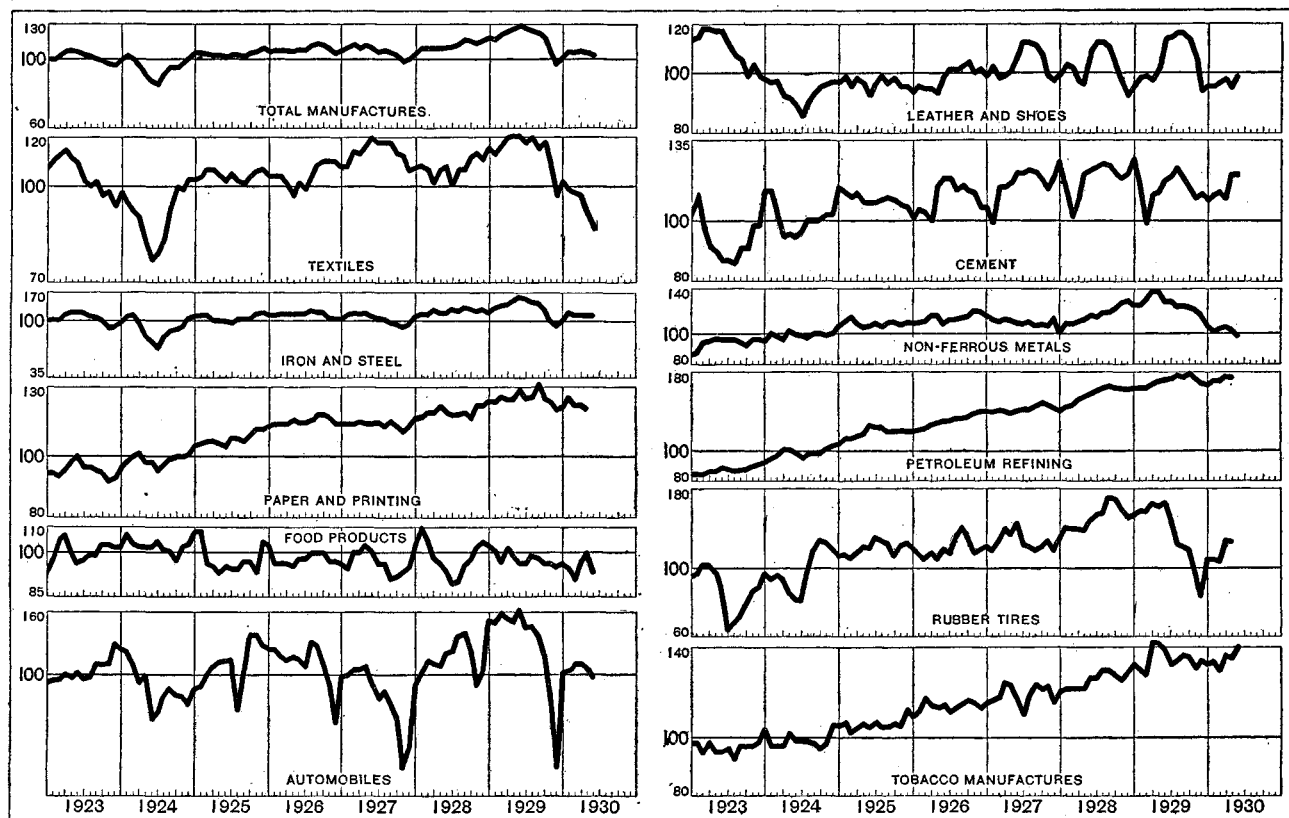
the month of June than June, a year ago. For the period of January 1 to June 30, 1930, sales in the four lines were smaller than the same period in 1929.

### DISTRIBUTION

Department-store sales during the month of June, after adjustments for seasonal variations, were less than the preceding month and the month of June, 1929. Declines in sales from a month ago occurred in every district except the San Francisco district, which showed no change. Merchandise stocks held by department stores at the end of June recorded no change from

### MANUFACTURING PRODUCTION BY MAJOR GROUPS

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



May but were 4 per cent greater than June, a year ago. Finished goods in the hands of manufacturers were held in greater quantities than in the preceding month and a year ago. As compared with the preceding month, total stocks of raw materials were lower.

### SALES

The index of unfilled orders for manufactured commodities was lower than the month of June and the corresponding period, a year ago. This decline was caused by fewer orders being placed during the month for iron and steel and enamel ware.

Wholesale trade in June, as indicated by reports to the Federal Reserve Board of firms selling groceries, dry goods, hardware, and drugs, was smaller during

those held at the end of May, but were slightly below the month of June, 1929. Mail-order sales in June were less than either the month of May or June last year. Sales by leading 10-cent chains were likewise less than both prior periods. Restaurant chains reported smaller sales during June than the preceding month and June a year ago.

### IMPORTS AND EXPORTS

Total imports of goods, wares, and merchandise were lower than during the preceding month and June, 1929. Increased imports of crude materials during June were insufficient to offset declines from May in the imports of crude materials, manufactured foodstuffs, semimanufactures, and finished goods.



### PRICES

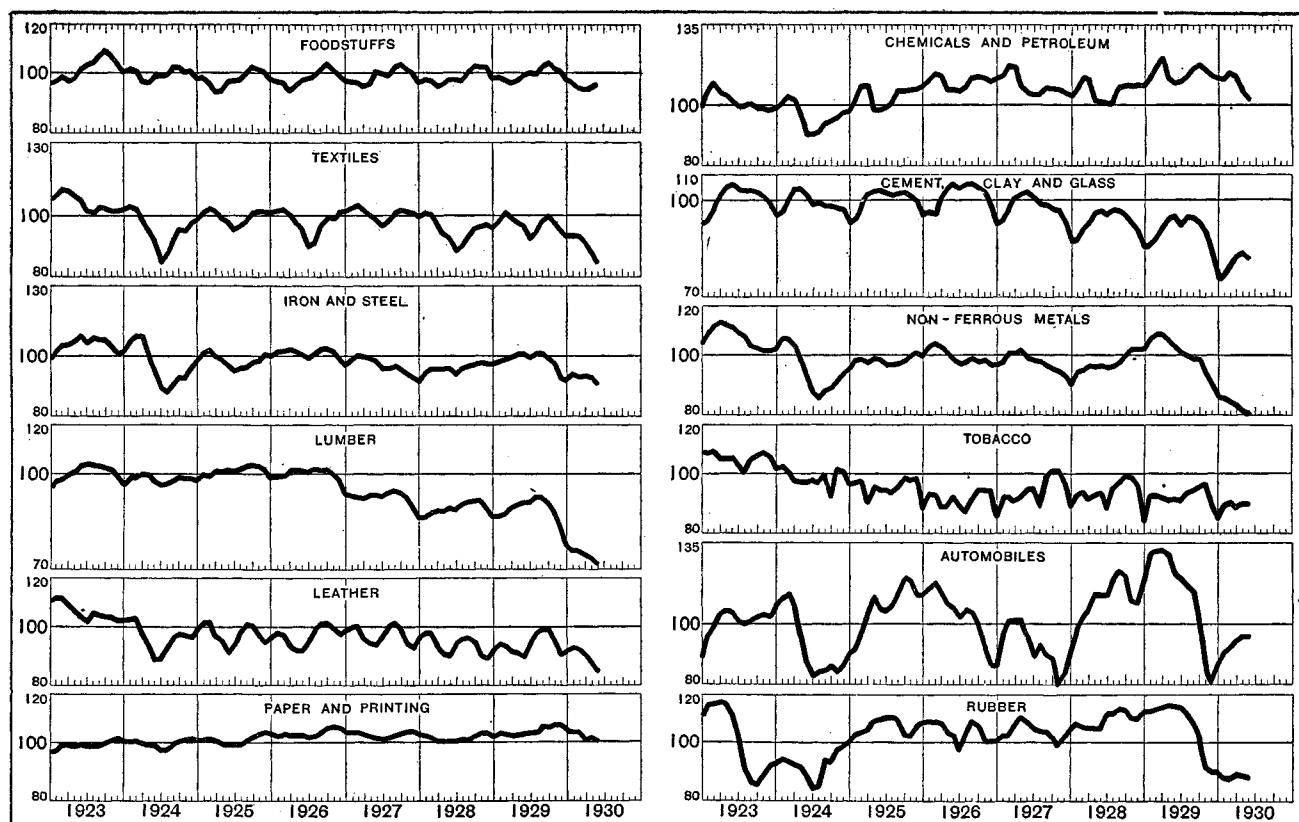
The general level of wholesale prices in June showed a decline of 3 per cent from the month of May, 1930, and 10 per cent from the corresponding month of June, 1929. Prices for all major commodities were lower than the preceding period with the exception of the prices for house furnishing goods, which showed no change. Classified as to condition of manufacture, prices were lower when contrasted with both prior periods. Raw materials declined 3 per cent, semimanufactured goods 2 per cent, finished products 2 per cent, and nonagricultural commodities 2 per cent from the preceding month of May.

decline from the preceding month and was 13 per cent lower than in June, 1929. Increased employment was registered, as compared with May, in factories producing food, but factories producing iron and steel, textiles, paper and printing, lumber, automobiles, leather, cement, clay and glass, nonferrous metals, rubber products, and tobacco showed declines. As compared with the month of June, 1929, total employment decreased, the greatest declines occurring in factories producing machinery, automobiles, and rubber products.

Factory pay rolls were likewise less than in the preceding month and a year ago. Pay rolls were larger than in May in factories producing food, nonferrous

### FACTORY EMPLOYMENT, BY GROUPS

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



Prices to producer, in keeping with the downward trend of wholesale prices, were lower than the prices that prevailed during May this year and June a year ago.

The cost of living index during June showed a falling off of 1 per cent from the preceding month and was 3 per cent lower than a year ago. As compared with the month of May all items contained in the index were lower except the cost of light and sundries, which showed no change.

### EMPLOYMENT

Factory employment as shown by the general index compiled by the Federal Reserve Board showed a

metals, petroleum products, and tobacco and cigarettes, but these increases did not offset the declines occurring in the pay rolls of factories producing iron and steel, machinery, textiles, paper and printing, lumber, automobiles, leather, cement, clay and glass, and rubber products. As compared with the month of June, 1929, pay rolls were smaller in all reporting lines, with the exception of petroleum refineries, which showed a slight increase.

Weekly earnings of employees in 23 leading industries showed a falling off from the month of May and a year ago. The number of applicants per job in the Eastern and Central States were more numerous during June than during May and a year ago.

## REVIEWS OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

### TEXTILES

Total receipts of wool at Boston during June were greater than either the month of May 1930, or June 1929. This was largely due to an increase in receipts of domestic wool as compared with either prior period. Imports of wool were less than during May or a year ago. Consumption of wool by textile mills was larger than during May but smaller when compared with June last year. The activity of woolen machinery was greater than during May but less as compared with June, 1929.

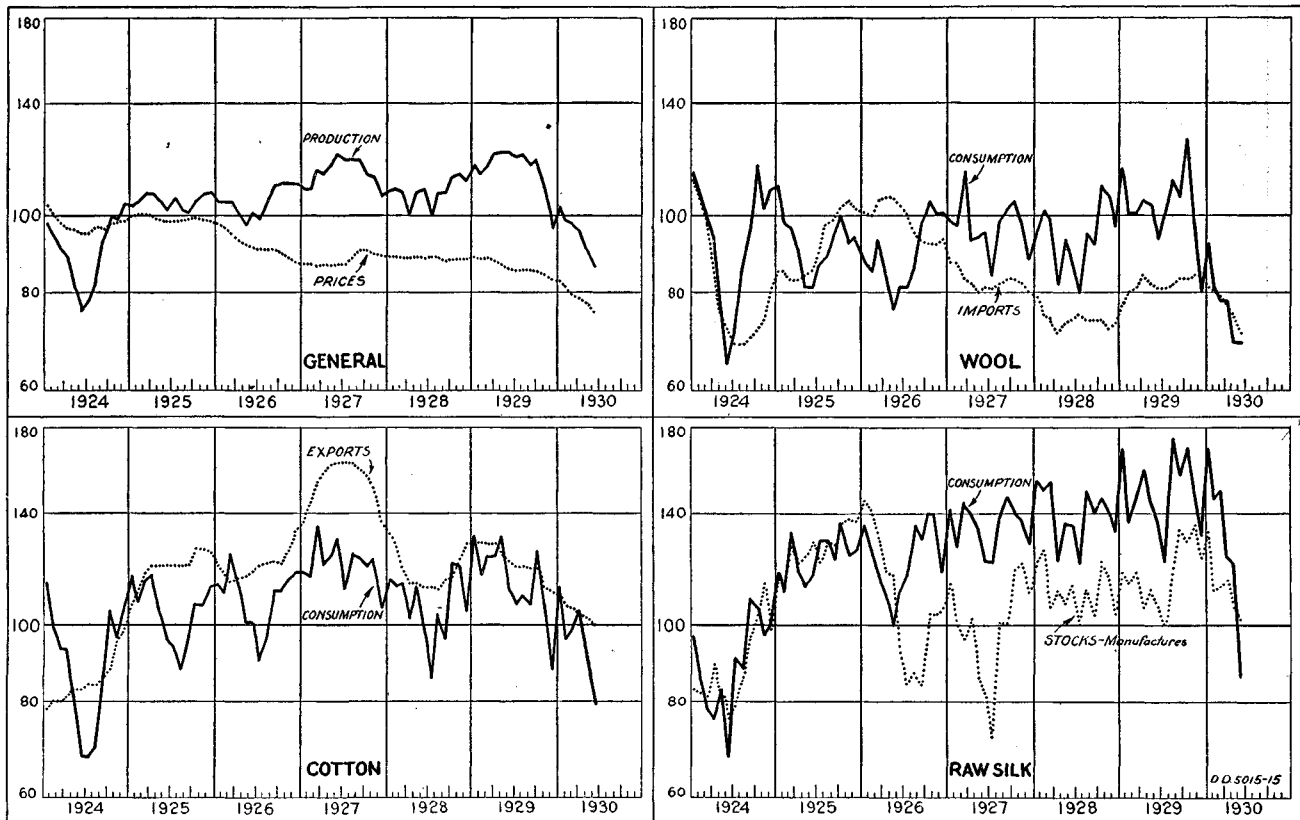
The consumption of cotton during June declined from the previous month and the corresponding

The production of cotton textiles in June was smaller than in either the previous month or the corresponding period of last year. Stocks of finished textiles, however, were much larger than in either comparative period. Unfilled orders, on the other hand, registered declines over the previous month and a year ago.

Billings for cotton finishers' goods during June were fewer than during May of this year or June, 1929. Orders for gray yardage likewise fell off from both comparative periods. Shipments and stocks at hand, although showing but slight change from the month of May, were well below the level of a year ago.

### THE TEXTILE INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. June, 1929, 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]



period last year. Exports of unmanufactured cotton continued to decline seasonally and were less than June, 1929. Stocks of cotton at mills and warehouses fell off seasonally from May but were considerably larger when compared with the month of June a year ago, this condition being true in the world visible supply.

Silk imports were considerably larger in June than in the month of May but were smaller than a year ago. For the calendar year to date imports of silk showed a decline of 27 per cent from the corresponding period of 1929. Deliveries of this commodity to consuming establishments during June were less than during the previous month and materially smaller than a year ago.

Rayon imports during June were smaller than the previous month and were only one-fifth as large as in June, 1929. The imports of unmanufactured fibers were materially larger than in May and the corresponding period a year ago. The spread of pyroxylin-coated textiles in June was much greater when compared with the month of May but was less than the same period last year. Shipments and unfilled orders for this commodity declined from both prior periods. Prices of cotton and cotton goods were uniformly lower than in May and June a year ago. Prices of raw wool at Boston showed but little change from the previous month but were generally less than in June, 1929.

## METALS

The production of pig iron during June declined from the preceding month and the month of June, 1929. For the first six months of the year, the production was 15 per cent lower than in the corresponding period of 1929.

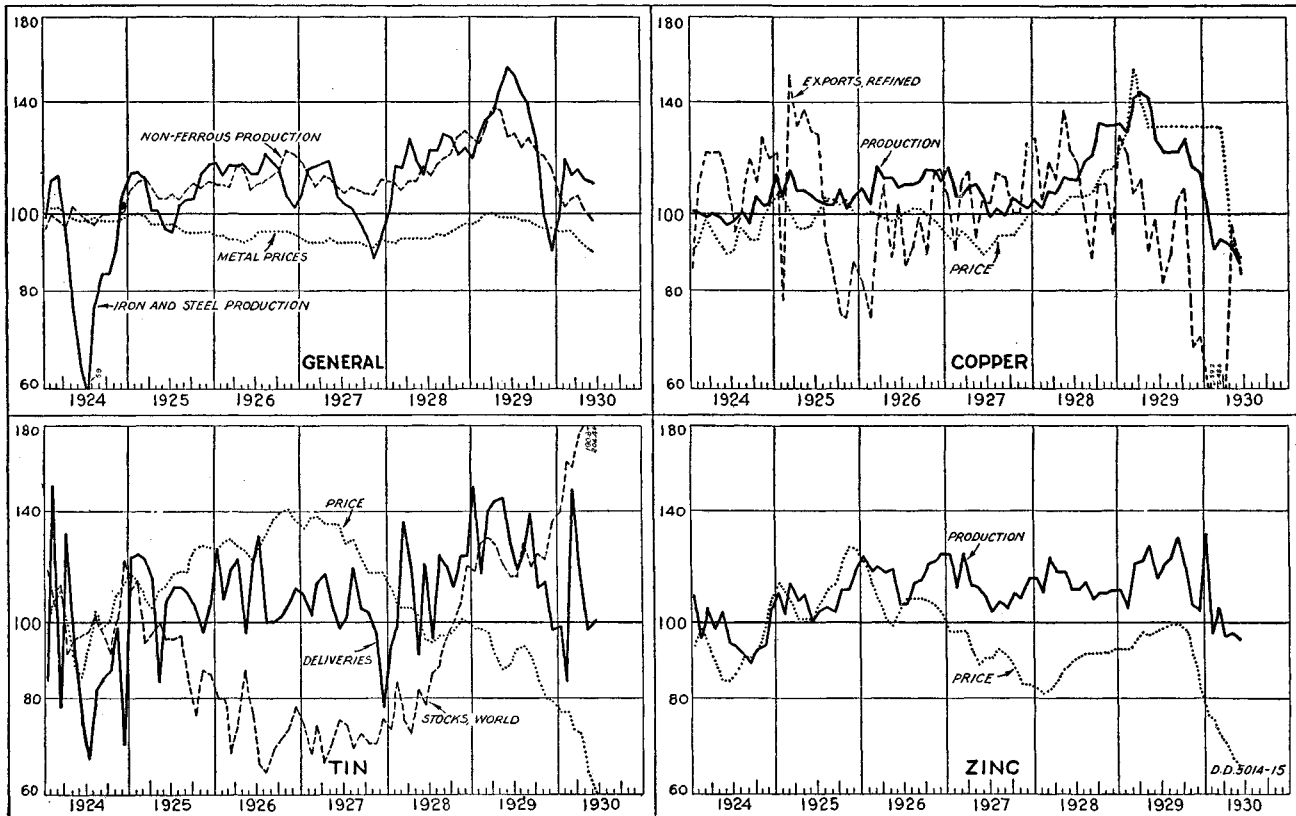
Steel ingot output likewise showed a decline from the preceding month and a year ago. For the first half of the year ingot production was 18 per cent lower than the same period of the preceding year. Unfilled steel orders at the end of June were slightly lower than at the end of May and were considerably smaller than at the end of June a year ago.

filled orders of steel barrels all declined from the month of May, 1930, and June, last year. Stocks of this commodity alone showed an increase over both prior periods. The output of steel sheets by independent mills registered a decline from the preceding month and June, 1929. Stocks of sheets in hands of manufacturers at the end of June were somewhat smaller than the month of May, but were considerably greater than a year ago. New orders for this type of material registered declines from both prior periods.

The output of malleable castings during June showed a decline from the previous month and was about half as large as a year ago, with shipments and new orders

## THE METAL INDUSTRIES

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



New orders for fabricated structural steel showed a loss when compared with the preceding month and June last year. Shipments of structural shapes for the first six months of 1930 registered an increase over the corresponding period of 1929. New orders for fabricated steel plates placed during June recorded an increase over the month of May, but were less than a year ago. New orders for steel boilers during the month of June were also greater than the preceding month but declined from the same period a year ago.

Orders for steel business furniture, including both the business group and shelving, showed declines in June from the preceding month and the corresponding period of 1929. The production, shipments, and un-

showing similar trends. The production and new orders of steel castings declined from May and were lower than during June, 1929. Track work output fell off slightly from the month of May and was lower than June a year ago.

Shipments of principal types of sanitary ware were lower than in either the preceding month or June, 1929. The production of copper, like the production of leading minerals, registered declines from both comparative periods. Stocks of refined copper, at the end of June, held in North and South America, were greater than at the end of the preceding period.

Wholesale prices for metals were uniformly lower than those ruling last month.



**FUELS**

The production of bituminous coal was smaller than in the past month and showed a loss when compared with June a year ago. The output of anthracite was lower than in either prior period. Wholesale prices of bituminous coal averaged lower than in either the preceding month, or the same period of last year. The prices, at wholesale, of anthracite showed similar trends when contrasted with comparative periods. The output of crude petroleum was smaller than in either the preceding month, or in June of last year. Total stocks of petroleum likewise declined from both comparative periods.

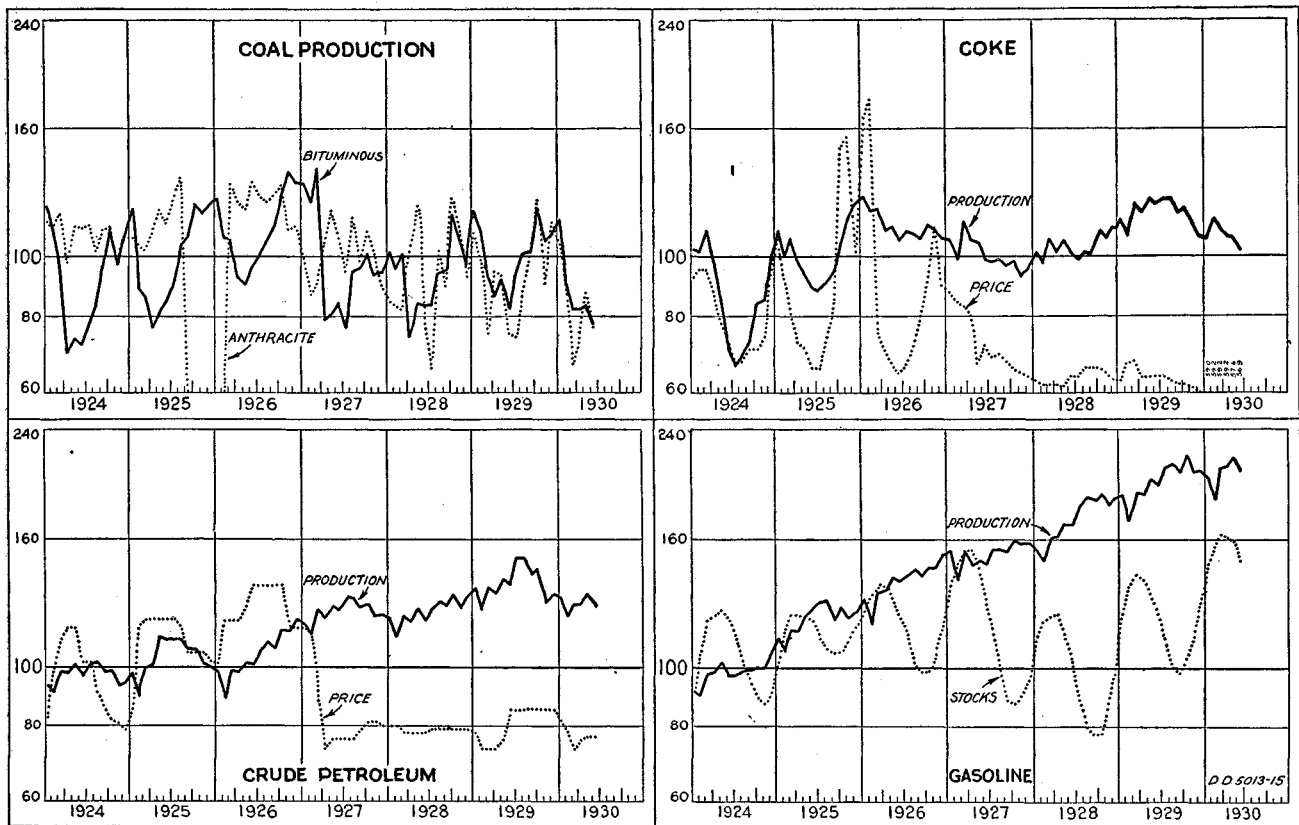
ings in June were considerably smaller than the month of May or June a year ago. Shipments alone showed an increase over May but were also lower than last year. The output, shipments, and stocks of inner tubes, in keeping with the trends of pneumatic casings, showed similar trends.

**HIDES AND LEATHER**

Imports of hides and skins during the month of June were less than those of the previous month or a year ago. The number of animals slaughtered under Federal inspection, reflecting the production of hides and skins, were fewer than during the month of May

**THE FUEL INDUSTRIES**

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



**AUTOMOBILES AND RUBBER**

Automobile production showed declines from both the month of May, 1930, and June, 1929, and for the year to date was considerably below the corresponding period of 1929. Exports of automobiles and trucks were smaller than the preceding month and the corresponding period a year ago. Canadian exports of passenger cars and trucks, although greater than during May, showed a decline from June, 1929.

Imports of crude rubber, including latex, showed a decline from both the preceding month and June, 1929, and was smaller for the cumulative period of January to June, 1930, as compared with the same period of 1929. The production and stocks of pneumatic cas-

for all types of animals. As compared with June of the preceding year, the number of cattle, calves, and swine slaughtered was more, while the number of sheep and lambs registered a decline.

The output of sole leather in June showed a loss from May but was greater than in June of the preceding year. For the first six months of the present year, the output of sole leather showed an increase over the corresponding period of 1929. Exports of sole and belting leather were greater than those of the previous month and June, 1929. The production of boots and shoes during June registered a decline from the month of May, and was well below the level of June a year ago.

### BUILDING AND CONSTRUCTION

The volume of new building in June, as measured by the value of contracts awarded for new building and engineering projects, was greater than both the preceding month and the corresponding period, a year ago. This was largely due to the increased valuation in the contracts awarded of industrial, educational, public, and semipublic buildings, and public works and utilities. Building costs in general showed but little change as compared with the month of May but were materially lower in all cases from June, a year ago. Fire losses in the United States were considerably smaller than for the preceding month and June, 1929.

of last year. New orders, although declining slightly from May, were well above the level of June, 1929. Unfilled orders were higher than May but when compared with last June, were materially lower.

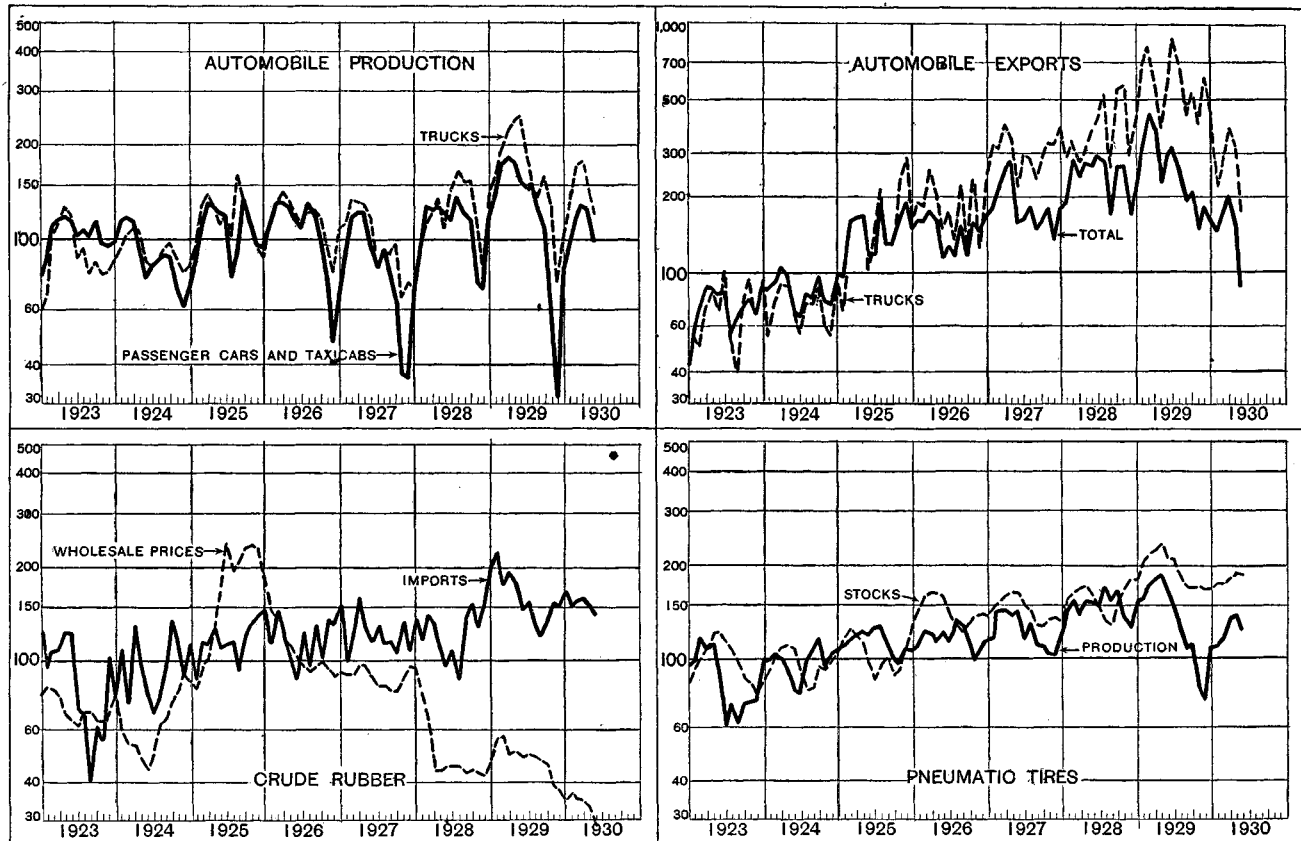
### STONE, CLAY, AND GLASS PRODUCTS

The production of common brick during June was greater than for both comparative periods. Shipments and unfilled orders for this commodity likewise registered upward trends when compared with previous periods.

Cement output fell off slightly from May but was much greater than a year ago. Shipments of cement

### THE AUTOMOBILE AND RUBBER INDUSTRIES

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



Canadian fire losses, while less than those for June, were in excess of the month of June, a year ago.

### LUMBER AND BUILDING EQUIPMENT

The production of redwood northern pine and walnut lumber in June exceeded that of May, but was lower than June, last year. The output of California white and sugar pine, northern pine, and northern hemlock, was lower than for both prior periods. Stocks of lumber were generally greater at the end of June than at the end of May, and a year ago. New orders for walnut lumber were greater than the preceding month, but were lower than a year ago. The production shipments and new orders of maple flooring were smaller than for either the preceding month or the corresponding period

denoting the increased roads and engineering project construction was greater than both prior periods. Stocks of cement and cement clinker, although lower than those held at the end of May, were greater than a year ago. Orders received, shipments and unfilled orders, of vitreous chinaware were less than those of the previous period, stocks alone exceeding those of May, 1930, and June, 1929.

### CHEMICALS

Receipts of turpentine and rosin in June declined from the preceding month and were lower than in June, 1929. Stocks of turpentine showed declines from both prior periods. Rosin stocks on the other hand, showed a marked increase over those held at the end of May.

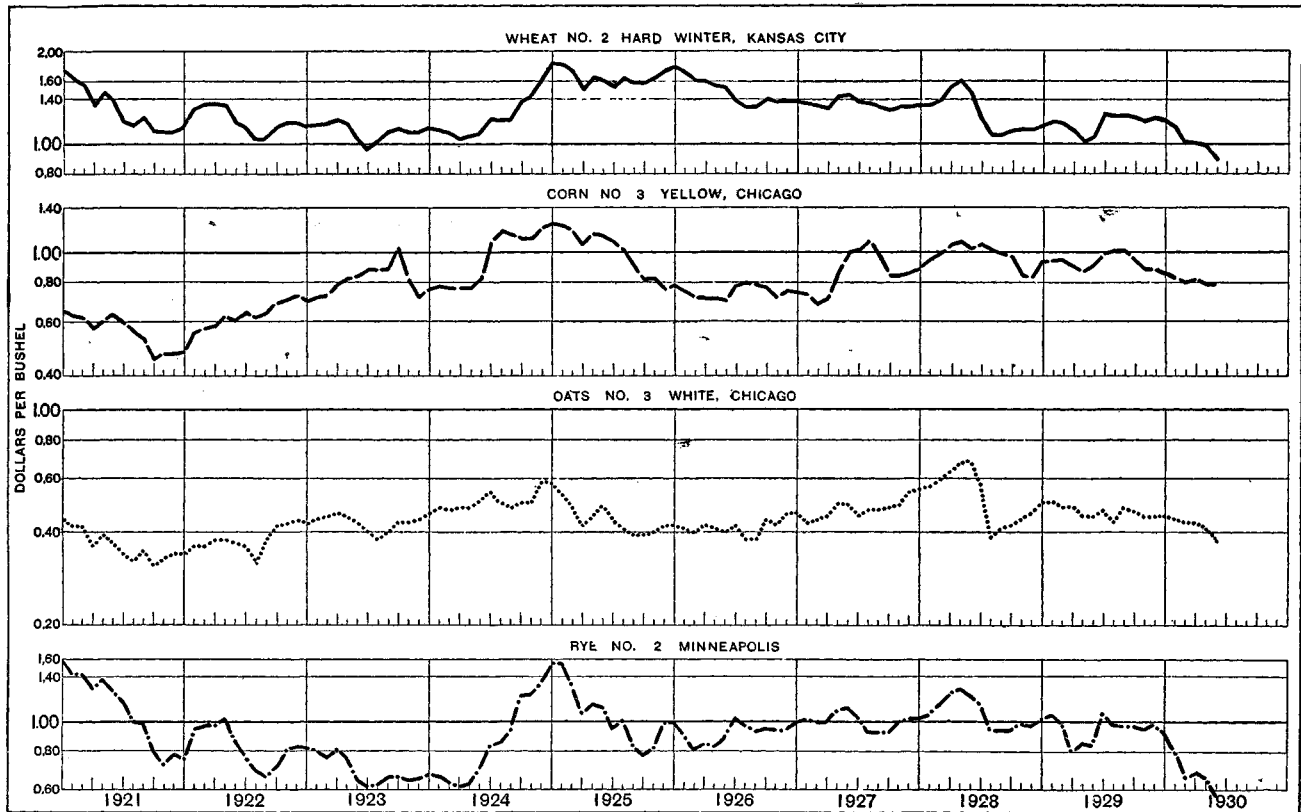
and a year ago. Turpentine prices showed declines from both comparative periods. The price of rosin, although advancing slightly over the price in May, was lower than in June, 1929. Nitrate production in Chile declined from the preceding month and the corresponding period, a year ago. Imports of this commodity showed declines from both prior periods. Crude arsenic production advanced slightly over May but was less than a year ago. Stocks of this chemical, held at the end of June, while less than May, were greater than last year. Refined arsenic production was greater than for either prior period. Stocks, although falling off from May, were greater than those

The visible supply of corn registered declines from both May and a year ago. Receipts of corn at principal centers were greater than the preceding month but less than last year. Shipments, while declining from May, were less than last year. The receipts of barley, oats, and rye were all less than May and a year ago. The visible supply of barley showed a decline, while the supply of rye and oats was greater than a year ago.

Receipts of cattle and calves at important centers declined from May, but were greater than during June, 1929. Shipments to consuming centers declined from both prior periods. Cold-storage holdings of

### MOVEMENT OF GRAIN PRICES

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



at the end of June, 1929. Exports of fertilizer were less than May, 1930, and June, a year ago.

### FOODSTUFFS AND TOBACCO

Receipts of wheat at principal markets during June greatly exceeded those of the previous month but were lower than June, 1929. Shipments to consuming centers, although declining from May, were 10 per cent greater than June, 1929. Exports of wheat and flour from the United States also exceeded those of May, 1930, and June, 1929. The visible supply of wheat in the United States showed a falling off from the month of May, but was greater than the supply at the end of June a year ago. Wheat prices at principal producing centers were generally lower than both comparative periods.

beef and veal, although declining from May, were greater than holdings at the end of June a year ago. Receipts and shipments of hogs declined from the preceding month and the corresponding period of last year. Holdings in cold storage of pork and pork products showed an increase over the holdings at the end of May but were less than a year ago. Receipts and shipments of sheep and lambs, while declining from the month of May, were considerably greater than June, 1929. Cold-storage holdings of mutton and lamb registered increases over both prior periods. Wholesale prices of meat products were uniformly lower than in either prior period.

The production of creamery butter during June registered an increase over the preceding month and the corresponding period a year ago.

Cold-storage holdings at the end of June were likewise greater than either prior period. Prices at New York, however, showed declines from both the preceding month and a year ago. Receipts of all types of cheese in June exceeded those of May, but declined from June, 1929. Cold-storage holdings were substantially greater than at the end of either prior period. Receipts of case eggs at principal centers declined from the preceding month and were lower than last year. Holdings of eggs in storage plants were greater than at the end of May and a year ago. Imports of sugar were considerably smaller than either previous period. Meltings at eight ports showed declines from both comparative periods. Stocks of sugar, reflecting imports, at the end of June, were smaller than those held at the end of the previous month or June, 1929. Coffee imports during June were greater than the preceding period and the month of June last year. Imports of tea showed increases over both comparative periods.

Exports of unmanufactured tobacco recorded a gain over both the months of May, 1930, and June, 1929. The consumption of cigarettes likewise showed similar changes. Cigar consumption was less than both prior periods. Exports of cigarettes, although much greater than the month of May, declined from June, 1929. The tobacco crop estimate for July 1 indicated a somewhat larger crop than that of last year.

#### TRANSPORTATION

The movement of goods by rail during June, as reflected by freight-car loadings, declined from the preceding month and the corresponding period of 1929, all classes of freight loadings participating in the decline. Shipments of locomotives during June were greater than in either the previous month or June a year ago. For the first six months shipments by manufacturers showed a gain of 31 per cent over the same period of 1929. Shipments and unfilled orders in June of freight cars declined from both the preceding month and a year ago.

#### BANKING AND FINANCE

Total bank debits in June registered a gain over the month of May, but declined materially from the same period of last year. For the first six months of 1930 bank debits showed a decline of 8 per cent. Loans

and discounts of Federal Reserve member banks at the end of June were greater than at the end of either the preceding month or June of last year. The Federal Reserve ratio showed a decline from the previous month but was higher than a year ago.

Interest rates on call and time money declined from the preceding month and were considerably lower than in June, 1929. New sales of life insurance in June, as measured in dollar value, registered increases over both the preceding month and the corresponding period in 1929. Dividend and interest payments paid during the month of June were greater than both prior periods. Increases were noted in the payments of dividends by industrial and miscellaneous companies, steam railroads, and street railways.

#### DISTRIBUTION MOVEMENT

Sales by principal chain stores and leading mail-order houses in June showed losses from the preceding month and June of last year. Restaurant sales likewise declined from both periods. Magazine advertising in June fell off from May, 1930, and June, 1929. Advertising in newspapers was also less than in either comparative period. Advertising by radio, although less than the preceding period, registered a gain over June, 1929. Mail transported by airplanes continues to show gains over a year ago.

#### GOLD, SILVER, AND FOREIGN EXCHANGE

Imports of gold were smaller than in any month of 1930 since February and show a decline of 55 per cent from June or last year. Domestic receipts of gold at the mint registered a gain over both the preceding month and June, 1929. Silver production recorded practically no change from the preceding month but was lower than a year ago. Silver imports were less than in May and June of last year.

Foreign exchange rates in June showed only slight change from the preceding month. The English pound, the Indian rupee, and the Canadian dollar averaged higher than in May, while the Argentine gold peso and the Brazilian milreis averaged lower. The principal decline from the preceding month was shown in Brazilian milreis. As compared with a year ago June, all currencies showed only slight change with the exception of the Swiss franc, Japanese yen, Canadian dollar, Argentine peso, and the Chilean paper peso.

## POPULATION OF UNITED STATES 1930—PRELIMINARY FIGURES

The Director of the Census announces that, according to a preliminary count made by local supervisors and summarized in the Census Bureau, the population of continental United States (comprising the 48 States and the District of Columbia) as of April 1, 1930, the date of the Fifteenth Census, was 122,698,190. These figures are subject to revision as the final count is completed, but it is not expected that any very considerable changes will be made. The total, it may be noted, agrees rather closely with an estimate for April 1, 1930, amounting to 122,957,000 which was made by the Census Bureau more than a year ago, on the basis of reported births, deaths, and net immigration.

Figures are also given for the various outlying territories and possessions of the United States (except the Philippine Islands, which were not included in the Fifteenth Census) and for persons in military and naval service, etc., abroad. The total population including these possessions amounted to 124,848,664, as compared with 107,508,855 in 1920. The population of the various territories and possessions in 1930 and 1920 is shown in the following table:

Area	1930	1920	Increase 1920-1930 <sup>1</sup>	
			Number	Per cent
Total.....	124,848,664	107,508,855	17,339,809	16.1
Continental United States.....	122,698,190	105,710,620	16,987,570	16.1
Alaska.....	58,758	55,036	3,722	6.8
Hawaii.....	368,336	255,912	112,424	43.9
Porto Rico.....	1,543,913	1,299,809	244,104	18.8
Guam.....	18,521	13,275	5,246	39.5
American Samoa.....	10,055	8,056	1,999	24.8
Panama Canal Zone.....	39,467	22,858	16,609	72.7
Virgin Islands.....	22,012	26,051	-4,039	-15.5
Military and naval service, etc., abroad.....	89,412	117,238	-27,826	-23.7

<sup>1</sup> A minus sign (-) denotes decrease.

As compared with the population of continental United States in 1920, which was 105,710,620, the 1930 figure represents an increase of 16,987,570, or 16.1 per cent. The absolute increase is larger than that shown for any previous decade, and the percentage of increase is higher than that shown for the decade 1910-1920, which was only 14.9 per cent. Allowance should be made, however, for the fact that the period between the census of 1910 and 1920 was less than a full decade, and that between the 1920 and 1930 census was more than a full decade. An increase of 16.1 per cent for 123 months (the time between January 1, 1920, and April 1, 1930) is equivalent to 15.7 per cent for exactly 10 years; and the 1920 increase for 116½ months (the time between April 15, 1910, and January 1, 1920) is equivalent to 15.4 per cent for 120 months. Making this adjustment, therefore, the rate of increase for the decade just completed is only slightly higher than that for the preceding decade.

The accompanying table gives the population, by States, in 1930 and 1920, with the increase (number and percentage) for the intervening decade.

More than one-quarter of the total increase in the United States was concentrated in two States; California, in the far West, with an increase of 2,245,148, and New York, in the East, with an increase of 2,234,276. Three other States, Michigan, Texas, and Illinois, each account for more than 1,000,000 of the increase. Pennsylvania gained more than 900,000, and Ohio and New Jersey each gained more than 870,000.

On a percentage basis California shows the highest increase, 65.5 per cent; and Florida the next highest, 51.4 per cent, followed by Michigan, with 32 per cent; Arizona, with 30.4 per cent; New Jersey, with 27.6 per cent; Texas, with 24.8 per cent; and North Carolina, with 23.9 per cent. Montana, with 12,557, or 2.3 per cent, fewer inhabitants in 1930 than in 1920, is the only State which shows a decrease, though Georgia shows an increase of only two-tenths of 1 per cent, and three other States, Vermont, Iowa, and South Carolina, increased less than 3 per cent.

State	1930	1920	Increase, 1920-1930	
			Number	Per cent
United States.....	122,698,190	105,710,620	16,987,570	16.1
New England:				
Maine.....	1,800,056	768,014	32,042	4.2
New Hampshire.....	465,293	443,063	22,210	5.0
Vermont.....	359,092	352,428	6,664	1.9
Massachusetts.....	4,253,646	3,852,356	401,290	10.4
Rhode Island.....	1,687,232	604,397	82,835	13.7
Connecticut.....	1,604,711	1,380,631	224,080	16.2
Middle Atlantic:				
New York.....	12,619,503	10,385,227	2,234,276	21.5
New Jersey.....	4,028,027	3,155,900	872,127	27.6
Pennsylvania.....	9,640,802	8,720,017	920,785	10.6
East North Central:				
Ohio.....	6,639,837	5,759,394	880,443	15.3
Indiana.....	3,225,600	2,930,390	295,210	10.1
Illinois.....	7,607,684	6,485,280	1,122,404	17.3
Michigan.....	4,842,280	3,668,412	1,173,868	32.0
Wisconsin.....	2,930,282	2,632,067	298,215	11.3
West North Central:				
Minnesota.....	2,566,445	2,387,125	179,320	7.5
Iowa.....	2,467,900	2,404,021	63,879	2.7
Missouri.....	3,620,961	3,404,055	216,906	6.4
North Dakota.....	682,448	646,872	35,576	5.5
South Dakota.....	690,755	636,547	54,208	8.5
Nebraska.....	1,378,900	1,296,372	82,528	6.4
Kansas.....	1,879,946	1,769,257	110,689	6.3
South Atlantic:				
Delaware.....	238,380	223,003	15,377	6.9
Maryland.....	1,629,321	1,449,661	179,660	12.4
District of Columbia.....	486,869	437,571	49,298	11.3
Virginia.....	2,419,471	2,309,187	110,284	4.8
West Virginia.....	1,728,510	1,463,701	264,809	18.1
North Carolina.....	3,170,287	2,559,123	611,164	23.9
South Carolina.....	1,732,567	1,683,724	48,843	2.9
Georgia.....	2,902,443	2,895,832	6,611	0.2
Florida.....	1,466,625	968,470	498,155	51.4
East South Central:				
Kentucky.....	2,623,668	2,416,630	207,038	8.6
Tennessee.....	2,608,759	2,337,885	270,874	11.6
Alabama.....	2,645,297	2,348,174	297,123	12.7
Mississippi.....	1,207,979	1,790,618	217,361	12.1
West South Central:				
Arkansas.....	1,853,981	1,752,204	101,777	5.8
Louisiana.....	2,094,496	1,798,509	295,987	16.5
Oklahoma.....	2,391,777	2,028,283	363,494	17.9
Texas.....	5,821,272	4,663,228	1,158,044	24.8
Mountain:				
Montana.....	536,332	548,889	12,557	2.3
Idaho.....	445,897	431,866	13,971	3.2
Wyoming.....	224,597	194,402	30,195	15.5
Colorado.....	1,035,043	939,629	95,414	10.2
New Mexico.....	427,216	360,350	66,866	18.6
Arizona.....	455,833	334,162	101,671	30.4
Utah.....	502,582	449,396	53,186	11.8
Nevada.....	90,981	77,407	13,574	17.5
Pacific:				
Washington.....	1,561,967	1,356,621	205,346	15.1
Oregon.....	952,691	783,389	169,302	21.6
California.....	5,672,009	3,426,861	2,245,148	65.5

<sup>1</sup> Figures revised since State announcement was issued.

<sup>2</sup> Decrease.

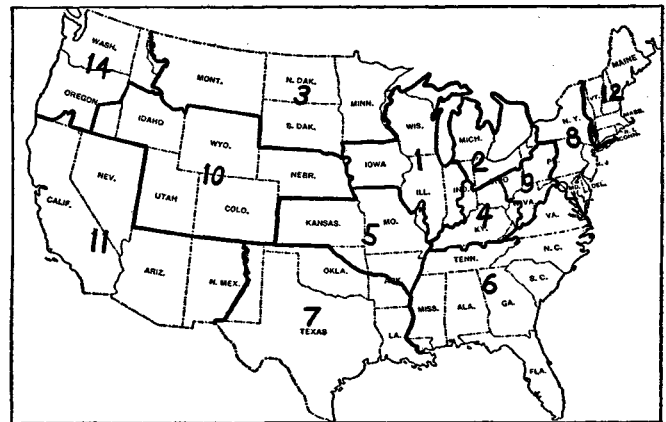


**PROSPECTIVE CAR LOADINGS, THIRD QUARTER OF 1930**

Commodity loadings by railroads in carload lots for the third quarter of 1930 are estimated by the regional advisory boards set up by the American Railroad Association at somewhat more than 6 per cent below the corresponding period of 1909. These estimates are compiled from detailed reports of committees representing shippers of the various commodities as first described in the August, 1927, issue of the Survey of Current Business, page 20, and are comparable with similar data published currently since that time. The boundaries of the various economic districts set up by these boards are shown in the accompanying chart.

The estimated decline from a year ago in total loadings is largely due to the decrease of 6 per cent in the loadings of coal and coke, 25 per cent in loadings of automobiles, trucks and parts, and 38 per cent in the loadings of citrus fruits, these items making up more than one-third of the total. Large decreases are also estimated in loadings of cottonseed and its products, poultry and dairy products, ore, lumber and forest products, iron and steel, machinery and boilers, brick and clay products, and agricultural implements and vehicles, each of these groups showing prospective declines of 8 per cent or more.

A decline in the anticipated car loadings for grain, gravel, sand and stone, lumber and its products, iron and steel, machinery and boilers, automobiles, trucks and parts, and ore and concentrates, is chiefly responsible for the decreased estimated loadings for the Great Lakes district, one of the leading industrial areas of the country. In the Allegheny district, another industrial area, more cars will be needed to care for increased loadings of cement, petroleum and its products, grain and grain products, lime and plaster, agricultural machinery and vehicles, other than automobiles.



**PROSPECTIVE CAR LOADINGS, THIRD QUARTER OF 1930  
COMPARED WITH ACTUAL LOADINGS, SAME QUARTER OF 1929**

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

Item No.	COMMODITY GROUPS	Number of cars			Number of cars			Number of cars			Number of cars		
		Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)	Actual 1929	Esti- mated 1930	Per cent inc. (+) or dec. (-)
1	Grain, all	527,760	532,609	+0.9	250	250	-----	7,762	9,470	+22.0	630	662	+5.1
2	Flour, meal, and other mill products	254,274	255,714	+0.6	7,233	7,233	-----	13,166	14,785	+12.3	1,637	1,801	+10.0
3	Hay, straw, and alfalfa	72,407	70,098	-3.2	604	604	-----	6,471	6,225	-3.8	521	469	-10.0
4	Cotton	73,667	72,385	-1.7	1,300	1,300	-----	-----	-----	-----	-----	-----	-----
5	Cottonseed and products, except oil	37,374	34,366	-8.0	4	4	-----	-----	-----	-----	-----	-----	-----
6	Citrus fruits	20,947	13,026	-37.8	90	90	-----	-----	-----	-----	-----	-----	-----
7	Other fresh fruits	137,471	151,946	+10.5	2,344	2,344	-----	14,436	17,323	+20.0	1,918	1,918	-----
8	Potatoes	66,781	73,601	+10.2	8,005	8,005	-----	22,885	29,750	+30.0	98	88	-10.0
9	Other fresh vegetables	75,758	79,436	+4.9	1,568	1,550	-1.2	12,162	13,378	+10.0	157	150	-4.5
10	Livestock	333,226	323,073	-3.0	1,474	1,327	-10.0	-----	-----	-----	1,813	1,813	-----
11	Poultry and dairy products	38,563	39,227	+1.7	77	79	+2.6	1,382	1,382	-----	-----	-----	-----
12	Coal and coke	2,410,372	2,280,511	-5.4	23,176	20,858	-10.0	324,982	320,433	-1.4	608,788	594,786	-2.3
13	Ore and concentrates	977,753	821,334	-16.0	390	390	-----	29,958	25,465	-15.0	-----	-----	-----
14	Gravel, sand, and stone	1,022,393	976,424	-4.5	21,455	20,450	-4.7	114,358	115,601	+1.0	71,474	72,689	+1.7
15	Salt	35,503	34,283	-3.4	40	40	-----	9,822	8,840	-10.0	-----	-----	-----
16	Lumber and forest products	930,515	805,071	-13.5	30,698	26,093	-15.0	31,044	31,044	-----	19,956	18,459	-7.5
17	Petroleum and petroleum products	659,866	670,778	+1.7	26,368	30,060	+14.0	75,249	81,268	+8.0	29,242	32,020	+9.5
18	Sugar, sirup, and molasses	57,277	61,177	+6.8	2,348	2,583	+10.0	12,811	13,234	+3.3	-----	-----	-----
19	Iron and steel	577,102	508,216	-11.9	7,724	6,952	-10.0	89,286	71,429	-20.0	256,709	237,456	-7.5
20	Machinery and boilers	60,039	51,460	-14.3	5,505	4,129	-25.0	14,949	11,219	-25.0	5,886	5,727	-2.7
21	Cement	261,208	267,235	+2.3	6,021	5,720	-5.0	68,298	68,298	-----	12,852	16,553	+28.8
22	Brick and clay products	183,040	154,406	-15.6	3,584	2,688	-25.0	13,420	10,334	-23.0	48,448	43,942	-9.3
23	Lime and plaster	65,373	61,566	-5.8	3,691	3,691	-----	12,674	11,661	-8.0	4,718	5,077	+7.6
24	Agricultural implements and vehicles, other than automobiles	30,538	27,394	-10.3	94	94	-----	-----	-----	-----	41	47	+14.6
25	Automobiles, trucks, and parts	250,490	187,073	-25.3	1,908	1,622	-15.0	8,250	5,940	-28.0	-----	-----	-----
26	Fertilizers, all kinds	72,259	71,524	-1.0	1,762	1,762	-----	12,433	12,893	+3.7	4,210	3,751	-10.9
27	Paper, paper board, and prepared roofing	98,902	96,995	-1.9	19,691	17,431	-11.5	21,737	23,258	+7.0	4,339	4,139	-4.6
28	Chemicals and explosives	31,672	30,239	-4.5	579	560	-3.3	9,353	8,811	-5.8	7,604	7,604	-----
29	Canned goods	57,789	55,349	-4.2	1,635	1,554	-5.0	15,175	13,840	-8.8	1,220	1,252	+2.6
	Total, all commodities listed	9,420,319	8,806,716	-6.5	179,618	169,463	-5.7	942,063	925,774	-1.7	1,082,261	1,050,403	-2.9

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





Table 2.—INDEXES OF MARKETINGS OF AGRICULTURAL AND FOREST PRODUCTS<sup>1</sup>

YEAR AND MONTH	Total agricultural	ANIMAL PRODUCTS						CROPS					FOREST PRODUCTS					
		Total	Wool	Livestock	Poultry and eggs	Dairy products	Fish	Total	Grains	Vegetables	Fruits	Cotton	Miscellaneous	Total	Lumber	Pulpwood	Gum	Distilled wood
Relative to 1923-1925 average																		
1920 mo. av.	86	71	66	89	75	71	91	86	82	75	78	80	138	82	80	98	79	112
1921 mo. av.	98	82	90	84	87	82	80	100	110	89	80	90	126	70	70	68	78	49
1922 mo. av.	98	93	120	92	94	93	84	99	117	103	88	87	91	90	90	91	88	88
1923 mo. av.	93	100	91	103	103	96	92	92	98	97	100	82	96	99	100	93	104	115
1924 mo. av.	104	104	126	104	101	103	96	104	114	101	101	99	98	97	96	106	100	88
1925 mo. av.	103	96	83	93	96	101	112	104	88	102	99	119	107	104	104	101	96	97
1926 mo. av.	108	96	106	90	102	101	124	109	89	102	113	125	116	98	88	92	99	101
1927 mo. av.	112	97	138	89	102	103	136	113	103	113	103	120	132	93	93	93	93	102
1928 mo. av.	116	99	132	91	103	102	139	117	120	111	112	118	116	88	87	97	79	90
1929 mo. av.	112	99	129	88	105	106	177	114	102	117	108	117	162	85	83	103	125	102
<b>1928</b>																		
January....	98	96	61	107	80	89	81	98	99	100	45	81	197	81	80	99	38	97
February...	83	94	48	101	89	87	106	82	108	102	43	56	106	87	88	83	26	91
March.....	79	97	49	92	118	97	160	78	112	106	44	61	40	96	97	102	25	103
April.....	62	95	61	83	130	101	137	59	66	91	47	59	25	96	95	111	77	91
May.....	76	108	195	90	139	115	156	72	84	136	94	57	24	101	98	120	140	85
June.....	58	116	378	83	106	147	168	52	56	164	75	25	24	95	93	96	172	84
July.....	89	108	387	78	92	138	154	87	147	107	164	28	23	87	88	64	170	80
August.....	113	97	195	79	80	117	170	115	186	83	165	45	119	89	88	82	161	78
September..	171	92	54	92	76	95	137	178	165	133	206	184	210	77	77	68	129	70
October....	239	102	35	95	86	89	153	252	174	151	266	353	213	87	84	108	128	93
November...	172	93	70	98	110	77	131	180	122	94	119	258	209	84	79	116	119	104
December...	147	92	55	95	126	78	119	152	124	69	70	206	196	76	71	111	122	104
<b>1929</b>																		
January....	111	96	34	102	85	95	87	113	100	94	72	100	243	82	78	123	41	104
February...	82	80	14	78	67	88	138	82	95	96	69	55	136	75	75	93	26	99
March.....	74	88	43	77	106	98	156	73	80	102	67	62	68	86	85	108	37	106
April.....	61	100	49	87	141	103	164	57	59	104	86	46	33	92	87	127	115	106
May.....	56	109	121	84	131	134	161	51	53	118	111	27	23	99	94	132	158	110
June.....	61	112	306	76	111	147	179	56	75	147	89	18	30	90	87	99	177	102
July.....	93	116	404	83	96	144	243	91	179	169	106	11	25	88	86	81	204	97
August.....	131	100	268	77	89	116	247	135	214	88	130	72	155	92	91	77	189	100
September..	170	99	128	96	83	94	283	177	117	145	173	218	286	80	79	74	157	90
October....	233	103	52	113	86	91	187	246	103	171	245	373	344	89	86	110	130	108
November...	149	95	63	96	128	81	154	155	69	91	93	234	296	81	77	113	142	101
December...	125	94	70	90	137	84	122	135	82	77	53	183	307	71	66	98	127	105
<b>1930</b>																		
January....	80	95	49	98	89	92	135	79	79	89	53	76	107	63	59	106	48	104
February...	65	84	38	81	85	87	155	63	81	93	55	41	66	67	63	107	27	86
March.....	60	98	42	81	117	100	187	53	62	103	53	42	43	74	69	127	41	97
April.....	56	101	64	83	144	107	207	51	59	95	56	39	44	79	72	136	101	88
May.....	61	110	143	81	138	135	192	56	62	137	72	29	52	80	72	138	175	77
June.....	52	117	413	79	112	149	185	50	41	151	58	14	3	74	68	117	171	65
July.....	90	118	545	77	109	148	180	87	180	113	124	6	2	70	66	80	195	62
August.....																		
September..																		
October....																		
November...																		
December...																		

<sup>1</sup> Weighted averages, compiled by the U. S. Department of Commerce, Bureau of the Census, representing 90 per cent of crops, 95 per cent of marketed livestock and their products, and 80 per cent of forest products. For details pertaining to the construction of these indexes as well as earlier data, see the July, 1928, issue of the *Survey*, pp. 18, 19, and 20. The index of total agricultural marketings is a composite of animal and crop marketings shown separately in this table.

Table 3.—INDEXES OF COMMODITY STOCKS AND UNFILLED ORDERS

YEAR AND MONTH	STOCKS, END OF MONTH <sup>1</sup>													UNFILLED ORDERS, END OF MONTH <sup>2</sup>									
	Grand total	Manufactured goods										Raw materials			Total	Textiles	Iron and steel	Transportation equipment	Lumber	Brick and glass			
		Total	Foodstuffs	Textiles	Iron and steel	Nonferrous metals	Lumber	Stone, clay, and glass	Paper and printing	Leather	Rubber	Chemicals and oils	Total	Foodstuffs							Textiles	Metals	Chemicals and oils
Relative to 1923-1925 average																							
1919 monthly av.	93	90	127	70	59	100	84	92	89	125	68	77	105	99	124	100	49	210	74	220	484	62	115
1920 monthly av.	86	84	118	59	84	151	100	84	115	125	68	77	105	99	143	101	66	101	109	104	211	33	43
1921 monthly av.	102	97	97	85	84	151	100	84	115	125	68	77	105	99	143	101	66	101	109	104	211	33	43
1922 monthly av.	95	87	84	100	76	94	89	98	87	121	82	77	100	100	116	103	77	108	125	111	118	83	78
1923 monthly av.	95	94	100	109	86	94	92	77	85	117	98	90	95	93	99	106	91	122	124	124	140	109	115
1924 monthly av.	102	103	104	96	104	115	103	105	112	95	96	104	101	103	92	103	111	87	82	85	86	93	95
1925 monthly av.	104	103	96	95	110	91	105	117	103	89	106	106	104	105	109	91	99	91	94	91	74	98	90
1926 monthly av.	115	107	90	115	114	101	113	132	64	85	157	107	121	127	137	84	96	85	84	81	88	91	76
1927 monthly av.	121	113	97	104	121	117	120	147	95	70	147	117	127	128	146	91	107	74	85	71	71	78	73
1928 monthly av.	123	117	104	128	141	119	107	159	135	71	150	111	127	144	122	98	112	76	72	80	62	78	71
1929 monthly av.	137	120	117	122	143	129	107	167	104	72	169	122	149	193	128	96	111	81	70	85	90	81	53
<b>1928</b>																							
May.....	117	121	103	137	147	118	109	163	142	69	170	111	114	141	98	82	95	74	72	72	73	79	77
June.....	109	118	118	134	140	120	94	160	153	71	162	103	102	126	81	74	93	75	67	75	69	84	75
July.....	106	119	126	129	133	119	104	157	155	71	145	96	96	123	67	87	91	77	68	75	68	91	85
August.....	108	116	117	125	131	121	105	148	156	72	134	96	102	136	66	92	93	75	66	75	60	88	74
September.....	116	112	105	118	130	125	104	135	137	73	130	102	119	145	95	116	108	75	69	75	60	84	73
October.....	133	112	93	113	135	123	103	121	139	74	149	108	149	157	149	133	139	72	73	75	62	69	59
November.....	138	115	87	118	143	125	107	144	133	75	156	112	154	155	170	126	136	74	72	76	49	84	68
December.....	142	122	97	129	147	125	113	163	132	77	164	117	156	163	173	97	136	71	72	83	35	62	61
<b>1929</b>																							
January.....	139	128	107	127	152	125	116	190	145	76	160	126	148	158	161	89	125	77	75	86	53	74	53
February.....	138	128	111	127	150	118	112	195	136	74	178	130	145	172	144	83	113	80	81	87	74	73	41
March.....	134	125	108	123	157	116	105	192	117	72	186	132	141	181	128	66	105	86	82	93	81	82	47
April.....	130	122	109	120	147	116	102	191	104	72	191	129	136	187	108	68	99	98	84	92	104	102	67
May.....	123	121	110	116	142	117	101	190	99	71	199	123	124	171	92	80	96	88	78	87	96	104	60
June.....	120	122	125	124	145	118	99	178	94	71	199	117	120	167	80	94	96	83	74	85	78	95	63
July.....	122	121	144	125	139	122	100	162	90	71	175	111	123	188	64	96	94	79	70	84	73	97	62
August.....	128	116	136	122	128	127	103	140	98	70	155	107	136	212	71	105	97	76	67	76	79	86	51
September.....	140	114	127	115	135	136	104	121	101	69	144	113	158	222	113	111	115	77	64	79	86	84	50
October.....	155	115	111	121	134	143	108	126	102	70	145	121	185	230	173	119	134	77	59	80	121	66	54
November.....	157	116	104	121	134	150	113	147	90	74	146	124	186	219	195	122	129	74	55	81	113	58	49
December.....	158	119	110	131	135	165	116	172	73	75	144	126	186	213	204	115	130	78	51	87	116	66	44
<b>1930</b>																							
January.....	151	122	105	125	147	178	118	186	72	75	144	130	172	198	189	100	118	80	55	90	118	69	41
February.....	148	126	110	120	158	178	117	198	79	75	148	140	164	196	173	94	111	79	54	89	107	72	44
March.....	142	128	105	120	147	185	114	198	92	76	191	141	152	185	154	83	104	82	52	93	107	78	46
April.....	135	124	101	139	152	190	111	194	94	76	156	134	142	174	139	92	100	78	44	87	112	74	49
May.....	131	124	105	122	154	195	108	193	107	79	158	134	135	171	123	97	97	78	44	80	136	80	47
June.....	125	125	118	124	148	200	103	192	113	81	156	128	125	153	112	112	94	75	42	77	128	80	49
July.....	130	127	127	124	154	205	107	199	109	80	152	127	132	178	105	108	93	76	42	76	126	79	49
August.....																							
September.....																							
October.....																							
November.....																							
December.....																							

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from data on 45 commodities covering stocks in the hands of manufacturers or at other visible points at the end of each month. Details covering construction and weightings are to be found on pp. 20 to 22 of this issue. This index represents a complete revision of the stocks index formerly published. No adjustment has been made for seasonal variations.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from data on 17 commodities, weighted according to the relative value added in manufacture in the years 1923 and 1925. In addition to the groups mentioned in this table, data are also included in the total covering paper, which, however, is not deemed representative of the paper group, since only one class of paper is included. Details as to weightings, sources, etc., are given in the January, 1928, issue (No. 77).



Table 4.—INDEXES OF WHOLESALE PRICES

[Base year in bold-faced type]

YEAR AND MONTH	DEPARTMENT OF LABOR INDEX <sup>1</sup>															DUN'S <sup>2</sup> (end of month)	BRAD- STREET'S <sup>2</sup> (end of month)		
	Total	Farm products	Foods	Industrial commodities									Raw materials	Semi-manufactured articles	Finished products				
				Hides and leather products	Textile products	Fuel and lighting	Metals and metal products	Building materials	Chemicals and drugs	House furnishing goods	Miscellaneous	All except farm and food products							
	Number of quotations																	Commodities	
	550	67	121	40	75	23	73	57	78	37	25	384	108	62	380			300	96
Relative to 1926																			
1913 monthly av.....	69.8	71.5	64.2	68.1	57.3	61.3	90.8	56.7	80.2	56.3	93.1	-----	68.8	74.9	69.4	64.3	70.9		
1914 monthly av.....	68.1	71.2	64.7	70.9	54.6	56.6	80.2	52.7	81.4	56.8	89.9	-----	67.6	70.0	67.8	64.8	68.9		
1915 monthly av.....	69.5	71.5	65.4	75.5	54.1	51.8	86.3	53.5	112.0	56.0	86.9	-----	67.2	81.2	68.9	67.6	77.4		
1916 monthly av.....	85.5	84.4	75.7	93.4	70.4	74.3	116.5	67.6	160.7	61.4	100.6	-----	82.6	118.3	82.3	80.3	93.3		
1917 monthly av.....	117.5	129.0	104.5	123.8	98.7	105.4	150.6	88.2	165.0	74.2	122.1	-----	122.6	150.4	109.2	110.5	123.8		
1918 monthly av.....	131.3	148.0	119.1	125.7	137.2	109.2	136.5	98.6	182.3	93.3	134.4	-----	135.8	153.8	124.7	121.9	145.2		
1919 monthly av.....	138.6	157.6	129.5	174.1	135.3	104.3	130.9	115.6	157.0	105.9	139.1	-----	145.9	157.9	130.6	123.2	145.6		
1920 monthly av.....	154.4	150.7	137.4	171.3	164.8	163.7	149.4	150.1	164.7	141.8	167.5	161.3	151.8	198.2	149.8	129.3	140.6		
1921 monthly av.....	97.6	88.4	90.6	109.2	94.5	96.8	117.5	97.4	115.0	113.0	109.2	104.9	88.3	96.1	103.3	89.1	87.2		
1922 monthly av.....	96.7	93.8	87.6	104.6	100.2	107.3	102.9	97.3	100.3	103.5	92.8	102.4	96.0	98.9	96.5	92.3	95.3		
1923 monthly av.....	100.6	98.6	92.7	104.2	111.3	97.3	109.3	108.7	101.1	108.9	99.7	104.3	98.5	118.6	99.2	100.8	103.5		
1924 monthly av.....	98.1	100.0	91.0	101.5	106.7	92.0	106.3	102.3	98.9	104.9	93.6	99.7	97.6	108.7	96.3	100.9	100.0		
1925 monthly av.....	103.5	109.8	100.2	105.3	108.3	96.5	103.2	101.7	101.8	103.1	109.0	102.6	106.7	105.3	100.6	104.6	108.0		
1926 monthly av.....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>		
1927 monthly av.....	95.4	99.4	96.5	107.9	95.7	86.5	98.2	93.3	96.6	98.2	89.9	93.7	96.5	96.9	94.5	99.4	99.4		
1928 monthly av.....	97.7	105.9	101.0	121.7	96.3	82.8	99.8	93.7	95.5	97.4	83.0	93.2	99.1	97.4	97.0	103.1	102.4		
1929 monthly av.....	96.5	104.9	99.7	109.2	93.7	81.6	104.4	97.1	94.4	96.9	80.5	92.6	97.5	96.5	96.2	101.0	97.3		
<b>1929</b>																			
January.....	97.2	105.9	98.8	113.6	96.4	82.5	103.6	96.6	95.9	96.6	80.5	93.4	98.7	97.3	96.5	102.9	100.5		
February.....	96.7	105.4	98.1	109.0	96.1	81.3	104.4	97.5	96.1	96.6	80.4	93.0	98.1	97.2	95.9	103.0	100.6		
March.....	97.5	107.1	98.1	108.3	96.1	80.6	106.4	98.8	95.6	96.5	80.0	93.2	98.9	99.1	96.5	101.6	99.6		
April.....	96.8	104.9	97.7	107.9	95.5	80.6	106.4	97.9	94.9	96.7	79.2	92.9	97.0	97.4	96.9	100.2	98.1		
May.....	95.8	102.2	97.7	106.8	94.2	81.1	105.2	96.8	94.2	96.7	79.6	92.5	95.3	95.1	96.4	98.5	96.4		
June.....	96.4	103.3	98.9	108.0	93.3	83.3	105.1	96.4	93.4	96.6	80.4	93.1	96.6	94.4	96.7	100.0	96.6		
July.....	98.0	107.6	102.8	109.2	92.8	82.0	105.0	96.7	93.4	97.2	81.3	92.9	99.1	96.0	97.8	101.9	97.8		
August.....	97.7	107.1	103.1	109.7	93.1	80.9	104.3	96.7	93.7	97.1	81.3	92.5	98.9	96.2	97.3	101.8	98.0		
September.....	97.5	106.6	103.2	110.8	93.1	81.1	104.1	97.5	93.9	97.1	81.7	92.7	98.9	97.6	97.0	101.9	98.3		
October.....	96.3	103.9	101.2	110.5	92.7	81.7	103.6	97.8	94.2	97.1	81.3	92.7	97.1	97.9	95.8	101.4	96.0		
November.....	94.4	101.1	98.8	108.4	91.5	81.7	102.3	96.0	94.0	97.1	80.1	91.7	94.8	95.6	94.2	100.2	94.7		
December.....	94.2	101.9	98.6	107.4	90.4	81.3	102.1	96.2	93.6	97.3	79.8	91.4	95.0	94.3	93.9	98.9	90.4		
<b>1930</b>																			
January.....	93.4	101.0	97.2	105.1	89.4	79.9	101.2	96.2	93.0	97.3	78.7	90.3	94.0	93.0	93.3	97.8	89.1		
February.....	92.1	98.0	95.5	103.9	88.3	78.8	100.9	95.7	92.3	97.0	78.5	89.6	91.8	92.1	92.6	95.9	86.9		
March.....	90.8	94.7	93.9	103.2	86.5	77.4	100.6	95.4	91.2	96.5	78.2	88.7	89.3	90.6	92.0	95.1	86.6		
April.....	90.7	95.8	94.6	102.7	85.5	77.9	98.8	94.7	91.0	96.2	78.5	88.3	89.8	87.9	91.9	94.2	84.7		
May.....	89.1	93.0	92.0	102.6	84.6	78.0	96.8	92.9	89.9	96.2	77.5	87.5	87.8	83.6	91.0	93.4	83.4		
June.....	86.8	88.9	90.5	102.4	82.2	76.4	95.4	90.0	88.9	96.2	74.5	85.7	84.8	82.0	88.9	91.0	81.7		
July.....	84.0	83.1	86.3	100.7	80.0	75.4	94.3	88.9	87.8	96.2	71.7	84.3	81.1	79.7	86.7	89.8	80.9		
August.....																			
September.....																			
October.....																			
November.....																			
December.....																			

<sup>1</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, based on monthly averages of 550 weekly quotations, arranged in 11 groups and also reclassified by state of manufacture with a grouping of all nonagricultural commodities, consisting of the total index minus the 67 quotations in the farm-products group. This index supersedes the index based on 1913 as 100, which was published in the August, 1927, issue (No. 72) and previous issues. In computing this new index, the price of each commodity is weighted by multiplying it by the estimated average quantity marketed in the years 1923 to 1925, or 1923 and 1925 in the case of most manufactured commodities, the census data being used for those years. Monthly data from 1925 appeared in the November, 1927, issue (No. 75), p. 24, except for data for state of manufacture, which appeared in the June, 1928, issue (No. 82), p. 23. Full description of the new index, with details on subgroups and on individual commodities, is contained in Bulletin 453 of the Bureau of Labor Statistics.

<sup>2</sup> Data compiled, respectively, by *Dun's Review* and *Bradstreet's* and recomputed to a 1926 base for comparison with the Department of Labor index; the data are shown as of the end of the month, instead of at the first of the month, as formerly. In its original form, *Dun's* price index is an aggregate of 300 quotations, each weighted by the amount "annually consumed by each inhabitant"; about half of the aggregate is represented by food products. *Bradstreet's* index is the aggregate of prices per pound of 96 commodities. Details by commodity groups are shown for each index in their respective journals.

Table 5.—COST OF LIVING, FARM, AND RETAIL PRICE INDEXES

[Base year in bold-faced type]

YEAR AND MONTH	COST OF LIVING <sup>1</sup>								FARM PRICES <sup>2</sup>							RETAIL FOOD PRICE <sup>3</sup>	RETAIL COAL PRICE <sup>4</sup>	
	Food	Shel-ter	Cloth-ing	Fuel and light			Sun-dries	All groups	Grains	Fruits and vegeta-bles	Meat ani-mals	Dairy and poultry products	Cotton and cot-ton-seed	Un-classified	All groups			
				Com-bined	Fuel	Light												Number of quotations
	Relative to July, 1914								Relative to 1909-1914 average (fiscal years)									Relative to 1913
								6	9	5	4	2	5	31				
1909-14 monthly av.....									<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>		
1913 monthly av.....									92	92	108	101	97	94	100	<b>100</b>	<b>100</b>	
1914 monthly av.....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	103	100	112	101	85	95	102	102	100	
1915 monthly av.....	100	100	103	102			100	101	120	83	104	99	78	95	100	101	99	
1916 monthly av.....	111	102	120	104			104	109	126	123	120	106	119	100	117	114	104	
1917 monthly av.....	146	105	143	126			117	131	217	202	173	134	187	130	176	146	117	
1918 monthly av.....	173	118	185	138			153	159	226	162	202	160	245	157	200	168	127	
1919 monthly av.....	186	129	205	144			164	172	231	189	206	182	247	162	209	186	150	
1920 monthly av.....	205	155	261	168			185	197	231	249	173	197	249	152	205	203	<sup>6</sup> 190	
1921 monthly av.....	156	169	166	183			184	167	112	148	108	151	101	90	118	153	192	
1922 monthly av.....	142	166	155	179			173	157	105	152	113	135	156	88	123	142	<sup>6</sup> 191	
1923 monthly av.....	146	173	170	180	197	146	173	161	114	136	106	147	216	101	134	146	194	
1924 monthly av.....	146	184	175	169	182	142	174	163	129	124	109	137	211	100	134	146	193	
1925 monthly av.....	157	180	174	167	181	140	175	168	156	160	139	143	177	92	147	157	<sup>7</sup> 192	
1926 monthly av.....	160	176	174	163	186	120	174	168	129	189	146	141	122	88	136	161	<sup>7</sup> 194	
1927 monthly av.....	155	169	171	163	184	122	173	164	128	155	139	138	128	83	131	155	190	
1928 monthly av.....	154	162	172	161	181	122	171	162	130	146	150	143	152	87	139	154	188	
1929 monthly av.....	157	159	168	160	180	120	169	161	121	136	156	145	145	88	138	157	187	
<b>1929</b>																		
September.....	161	160	168	159	180	120	169	163	131	160	156	146	146	85	141	161	188	
October.....	161	160	168	161	182	120	170	163	128	168	151	151	141	89	140	161	189	
November.....	160	159	168	162	183	120	170	163	118	159	144	157	132	90	136	160	189	
December.....	158	159	169	162	183	120	169	162	119	163	143	157	130	87	135	158	190	
<b>1930</b>																		
January.....	155	159	166	163	184	121	168	160	118	167	146	146	128	87	134	155	190	
February.....	153	158	164	162	183	121	168	159	115	168	150	136	121	84	131	153	190	
March.....	150	158	163	162	183	121	167	157	107	169	151	123	113	80	126	150	190	
April.....	151	157	162	161	182	121	167	158	110	187	146	124	120	78	127	151	189	
May.....	150	157	158	157	175	121	167	156	105	193	142	120	119	78	124	150	181	
June.....	148	156	157	156	174	121	167	155	106	193	141	114	115	79	123	148	181	
July.....									92	173	127	111	99	75	111	144	184	
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

<sup>1</sup> Index numbers of the cost of living, compiled by the *National Industrial Conference Board*, represent, up to March, 1922, retail prices on the first day of the month except food, which is the retail food index of the *U. S. Department of Labor, Bureau of Labor Statistics*, for the 15th of the preceding month. Beginning with March, 1922, all prices shown are as of the 15th of the month indicated. The index is weighted according to the estimated consumption of average wage earners before the war, on the following basis: Food, 43.1 per cent; shelter, 17.7 per cent; clothing, 13.2 per cent; fuel and light, 5.6 per cent; sundries, 20.4 per cent. Figures from 1914 to 1917 are based on July quotations; 1918 figures are for 2 months; 1919 for 3 months and thereafter monthly. Owing to different trends, the fuel and the light data have been segregated from 1923 forward and revised, the monthly data for 1923 to 1925 being shown in the June, 1926, issue of the *SURVEY* (No. 58), p. 24; segregation for previous years is not available and the fuel and light data previous to 1923 are not quite comparable with the revised figures following, which are 8 points lower than the original figures for those years on fuel and light. The cost-of-living indexes of the *U. S. Department of Labor*, now compiled only semiannually, are omitted.

<sup>2</sup> Compiled by the *Department of Agriculture, Bureau of Agricultural Economics*, as of the 15th of the month. These indexes are based upon prices received by farmers throughout the country for their respective crops and animal products, as collected by the department, and are weighted by the average annual marketings by farmers for the period 1919-23. For the detailed explanation of this index see August, 1925, monthly supplement to "Crops and Markets," published by the Department of Agriculture.

<sup>3</sup> The retail food price index compiled by the *U. S. Department of Labor, Bureau of Labor Statistics*, the prices of 22 articles of food being weighted according to their consumption in workingmen's families as reported by retail dealers in 51 of the largest cities as of the 15th of the month. Monthly data from 1913 appeared in Bulletin 396 of the *Bureau of Labor Statistics*, p. 12.

<sup>4</sup> The retail coal price index compiled by the *U. S. Department of Labor, Bureau of Labor Statistics*, is based on an unweighted average of quotations on Pennsylvania anthracite, white ash, chestnut, as of the 15th of each month in 51 cities. The annual figures from 1913 through 1920 are based on 2 quotations a year, on Jan. 15 and July 15; thereafter monthly averages are used.

<sup>6</sup> 8 months' average, February, March, April, and May missing.

<sup>7</sup> 11 months' average, August missing.

<sup>8</sup> 10 months' average, no quotations being available for other months.

Table 6.—WOOL\*

YEAR AND MONTH	RECEIPTS AT BOSTON <sup>1</sup>			IMPORTS :		CON-SUMPTION (in grease equivalent) <sup>3</sup>	STOCKS <sup>4</sup> (in grease equivalent, quarterly)			MACHINERY ACTIVITY <sup>5</sup>						
	Total	Do-mestic	For-ign	As im-ported	In grease equivalent		Total	Held by manu-fac-turers	Held by dealers	Looms			Sets of cards	Combs	Spinning spindles	
										Wide	Nar-row	Car-pet and rug			Wool-en	Wor-sted
Thousands of pounds										Per cent of active hours to total reported						
1913 monthly average	18,761	13,483	5,278	12,632	-----	-----	-----	-----	-----	75	73	68	79	77	77	74
1914 monthly average	27,906	15,894	12,012	21,557	-----	-----	-----	-----	-----	74	78	65	77	78	75	78
1915 monthly average	35,801	15,142	20,660	34,393	-----	-----	-----	-----	-----	73	73	72	84	78	85	74
1916 monthly average	36,683	17,100	19,583	37,432	-----	-----	-----	-----	-----	86	91	80	90	90	90	90
1917 monthly average	42,214	17,510	24,704	35,083	-----	-----	-----	-----	-----	87	88	74	94	90	93	85
1918 monthly average	41,956	15,275	26,682	37,811	-----	-----	492,114	206,669	207,008	85	84	60	91	86	90	81
1919 monthly average	39,918	17,825	22,093	37,158	-----	-----	652,258	227,236	215,737	71	72	57	84	83	83	79
1920 monthly average	22,839	8,809	14,030	21,635	-----	-----	554,183	220,339	255,015	64	70	67	70	75	68	74
1921 monthly average	28,589	11,977	16,613	26,722	-----	44,487	559,431	279,381	233,940	69	64	51	71	89	72	82
1922 monthly average	36,151	15,913	20,238	31,390	-----	54,163	478,761	290,023	188,738	68	65	77	89	91	87	79
1923 monthly average	34,759	12,095	22,664	32,854	-----	53,467	480,867	247,431	233,437	83	76	82	98	98	92	92
1924 monthly average	26,001	16,687	9,315	22,351	24,921	44,813	383,100	207,803	175,297	69	62	66	88	80	85	66
1925 monthly average	25,501	11,018	14,483	28,271	31,659	43,857	352,061	179,213	172,848	69	64	72	86	77	84	67
1926 monthly average	29,102	14,105	14,997	25,856	28,017	42,503	357,266	166,100	191,166	63	61	63	77	79	73	69
1927 monthly average	28,629	18,266	10,363	22,274	25,433	45,961	334,512	168,257	166,255	62	63	64	79	80	78	67
1928 monthly average	25,074	17,543	7,531	20,379	23,106	44,863	331,635	165,043	166,591	61	55	65	82	71	79	61
1929 monthly average	25,375	17,171	8,204	23,372	26,514	48,797	328,832	157,255	171,577	64	61	66	82	84	78	67
<b>1929</b>																
September	19,444	16,975	2,469	18,158	21,450	49,755	369,642	163,651	205,991	64	63	66	83	94	77	70
October	12,148	6,931	5,217	19,463	23,066	59,352	-----	-----	-----	65	66	71	85	91	78	72
November	12,714	8,299	4,415	19,510	23,021	46,694	-----	-----	-----	59	65	65	74	82	69	65
December	15,272	9,344	5,928	20,246	24,565	37,802	317,978	147,434	170,545	54	53	55	63	72	61	57
<b>1930</b>																
January	15,828	6,500	9,328	26,464	29,423	43,627	-----	-----	-----	53	50	51	63	79	62	55
February	12,166	5,012	7,154	18,498	20,221	38,330	-----	-----	-----	52	41	51	65	86	61	59
March	14,986	5,628	9,358	20,049	21,463	37,195	249,564	145,458	104,106	46	39	49	61	64	58	50
April	17,163	8,501	8,662	17,816	19,384	36,794	-----	-----	-----	45	41	49	61	60	58	43
May	28,649	18,937	9,712	15,484	16,810	32,641	-----	-----	-----	51	39	44	60	68	60	52
June	57,665	54,729	2,936	8,896	10,223	32,772	-----	-----	-----	53	48	36	60	72	62	56
July	76,915	72,313	4,602	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
August	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Textiles Section*, pp. 10, 11, 12, 14, 16, and 17.

<sup>1</sup> Receipts of wool at Boston by railroads and steamships compiled by the *Boston Chamber of Commerce* through January, 1925, and since that date by the *Boston Grain and Flour Exchange*. They comprise usually about two-thirds of all wool imported and about half of the domestic wool clip. All classes of wool are combined in these figures, without reduction to grease equivalent.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. The left-hand column totals wool of all classes in the condition imported, while the right-hand column shows the reduction to grease equivalent. Scoured carpet wool is converted to the grease basis, assuming a shrinkage of 40 per cent; other wools are converted from scoured to grease on basis of a shrinkage of 45 per cent.

<sup>3</sup> Consumption of wool by textile mills from *U. S. Department of Agriculture, Bureau of Agricultural Economics*, until April, 1922, when the compilation was transferred to the *U. S. Department of Commerce, Bureau of the Census*. These data reported by almost 600 manufacturers represent nearly 80 per cent of the industry, the figures from the American Woolen Company and from 10 to 20 other concerns not being included. The figures are reduced to grease equivalent by multiplying scoured wool by 2 and pulled wool by 1½. Further details as to classes of wool and districts are given in press releases.

<sup>4</sup> Stocks of wool held by about 600 manufacturers and about 400 dealers from the *U. S. Department of Agriculture, Bureau of Agricultural Economics*, until April, 1922, and thereafter by that bureau jointly with *U. S. Department of Commerce, Bureau of the Census*. Until the third quarter of 1920, the stock reports by manufacturers are practically complete, with about 600 firms reporting. Thereafter one large firm and a number of small firms, varying from 10 to 20, did not report, but estimates were made for them from the third quarter of 1920 through the third quarter of 1921, in order to make the data comparable with previous figures; these figures, however, are not comparable with the later data from the reduced number of firms, which represent about 85 per cent of manufacturers' stocks. Stocks in dealers' hands include U. S. Government stocks taken over during the war and finally disposed of shortly after the end of 1921. Stocks include wool, tops, and noils and are reduced to grease equivalent in the same manner as in the consumption report; further details as to classes of wool, etc., are given in press releases.

<sup>5</sup> Percentage of active wool machinery compiled by the *U. S. Department of Commerce, Bureau of the Census*, beginning with June, 1919. From October, 1918, through May, 1919, these data had been collected by the *U. S. Department of Agriculture*, while previous thereto they were compiled by the *National Association of Wool Manufacturers*. The 1913 figure is based on only one month (November figures as of December 1), while thereafter the averages are of quarterly data, until 1917, when monthly figures were started in the middle of the year. The 1917 averages are therefore based on 9 months' figures. Up to 1921 the data represent the percentage of active machines to total, and beginning with 1921 the percentage of active hours to total hours of plant operation. Figures on the old basis of active machines are still published in the press releases but are not much different from the more accurate active hour figures. Previous to October, 1922, these figures were originally given as of the first of the following month, representing the previous months' operations, but these have now been changed to show the activity for the month to which properly credited; where activity of over 100 per cent is shown, overtime was reported sufficient to offset all idle hours and leaves an excess. Details as to number of spindles, etc., are given in press releases. These data comprise practically all wool-consuming mills.

Table 7.—CLOTHING \*

YEAR AND MONTH	MEN'S AND BOYS' GARMENTS CUT <sup>1</sup>			OVERALLS <sup>2</sup>			HOSIERY <sup>3</sup>					KNIT UNDERWEAR <sup>4</sup>				
	Suits	Separate trousers	Overcoats	Cut	Net shipments	Un-filled orders, end of mo.	Production (all classes)	Net shipments	St'ks, end of mo.	New orders	Un-filled orders, end of mo.	Production	Net shipments	St'ks, end of mo.	New orders	Un-filled orders, end of mo.
	Thousands of garments			Thousands of dozen garments			Thousands of dozen pairs					Thousands of dozen garments				
1920 monthly average.....												986	<sup>5</sup> 765		<sup>6</sup> 168	<sup>7</sup> 837
1921 monthly average.....												846	770		994	1,840
1922 monthly average.....												1,046	1,070		1,309	2,992
1923 monthly average.....							<sup>4</sup> 3,834					1,170	1,230		1,157	3,807
1924 monthly average.....							3,352	3,331	6,259	3,410	5,755	<sup>7</sup> 1,108	<sup>7</sup> 1,038		<sup>7</sup> 1,119	2,456
1925 monthly average.....							3,812	3,758	5,771	3,888	7,394	1,154	<sup>5</sup> 1,156	<sup>5</sup> 1,106	<sup>5</sup> 1,221	3,002
1926 monthly average.....							3,522	3,620	6,703	3,639	6,077	1,029	1,020	1,243	965	2,175
1927 monthly average.....							3,749	3,780	7,781	3,909	5,960	1,062	1,104	1,331	1,124	2,364
1928 monthly average.....				309	291	147	3,436	3,513	8,364	3,551	4,578	1,098	1,110	1,404	1,095	1,967
1929 monthly average.....	2,453	2,495	575	345	311	159	3,589	3,607	7,944	3,617	4,288	1,180	1,189	1,474	1,200	2,019
<b>1928</b>																
May.....				327	286	150	3,462	3,312	9,030	3,682	4,794	1,148	1,019	1,709	1,028	2,164
June.....				314	275	151	3,292	3,386	9,011	3,573	4,900	1,113	998	1,761	894	2,053
July.....				295	289	161	2,786	2,963	8,916	2,836	4,711	881	942	1,658	852	1,947
August.....				245	319	153	3,474	3,735	8,656	3,207	4,079	1,098	1,306	1,570	1,236	1,896
September.....				332	313	150	3,255	3,755	8,128	3,810	3,957	1,016	1,402	1,370	1,213	1,696
October.....				373	312	162	3,852	4,166	7,849	4,342	3,888	1,297	1,514	1,228	1,483	1,645
November.....				303	267	215	3,810	4,144	7,699	4,751	4,609	1,147	1,146	1,164	1,143	1,577
December.....				246	234	214	3,006	3,362	7,522	3,388	4,403	951	873	1,210	819	1,508
<b>1929</b>																
January.....	2,848	2,532	435	333	280	225	3,611	3,241	7,564	3,345	4,237	1,049	948	1,271	1,447	2,009
February.....	2,963	2,443	463	340	307	212	3,206	3,076	6,970	2,928	4,191	1,077	995	1,310	1,356	2,358
March.....	2,932	2,669	475	377	352	194	3,753	3,722	8,215	3,789	4,269	1,251	1,166	1,368	1,330	2,501
April.....	2,304	2,670	296	361	315	189	3,651	3,507	8,022	3,991	4,680	1,274	1,112	1,523	1,071	2,444
May.....	2,303	2,813	394	334	317	158	3,835	3,672	8,430	4,116	5,089	1,316	1,168	1,679	1,088	2,349
June.....	2,560	2,691	591	313	285	120	3,548	3,571	8,434	3,516	4,847	1,187	1,126	1,735	1,157	2,293
July.....	2,645	2,647	756	335	317	185	3,245	3,234	8,420	2,974	4,480	1,091	1,064	1,797	891	2,103
August.....	2,616	2,637	901	374	360	113	3,552	3,673	8,356	3,586	4,299	1,152	1,382	1,689	1,149	1,870
September.....	2,173	2,490	926	386	352	142	3,586	4,046	7,902	4,038	4,160	1,098	1,532	1,416	1,459	1,783
October.....	2,067	2,511	877	414	348	138	4,255	4,427	7,736	4,521	4,139	1,414	1,564	1,295	1,405	1,620
November.....	1,935	2,025	501	329	271	120	3,770	4,047	7,628	3,747	3,736	1,227	1,219	1,258	1,150	1,513
December.....	2,091	1,810	290	246	226	112	3,054	3,063	7,648	2,848	3,327	1,020	991	1,345	893	1,383
<b>1930</b>																
January.....	2,522	2,293	307	319	289	147	3,474	2,742	8,308	2,662	3,035	1,109	944	1,436	1,199	1,632
February.....	2,336	2,179	335	321	304	117	3,189	2,711	8,814	2,598	2,852	1,128	981	1,530	1,041	1,677
March.....	2,294	2,363	352	326	297	116	3,046	2,886	8,993	2,747	2,642	1,192	1,044	1,590	1,036	1,658
April.....	1,981	2,247	216	285	273	112	2,935	2,865	8,724	2,920	2,470	1,148	998	1,731	896	1,549
May.....	1,923	2,218	203	260	248	89	2,840	2,838	9,205	2,993	2,683	1,025	1,003	1,759	1,070	1,607
June.....							2,811	2,810	10,400	2,935	2,776	1,023	873	1,837	911	1,634
July.....																
August.....																
September.....																
October.....																
November.....																
December.....																

\* Monthly data from 1920 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Textiles Section*, pp. 37, 38, and 48, except for men's and boys' garments, for which monthly data from 1924 appeared in the May, 1928, issue (No. 81), p. 48.

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 945 identical establishments. Details by materials are given in press releases.

<sup>2</sup> Compiled from reports to the U. S. Department of Commerce, Bureau of the Census, from approximately 250 establishments; further details by kind of overalls are given in press summaries. The data represent overalls, overall jackets, and one-piece overall suits, while additional data on children's play suits, work pants and breeches, blanket-lined and similar coats, sheep-lined coats, leather jackets and hunting, riding, and camp clothing are shown in the press summaries.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, as reported by 261 identical establishments, which produced 44 per cent of the total output of hosiery in 1925, according to the census of manufacturers. Further details are given in press releases.

<sup>4</sup> Data from U. S. Department of Commerce, Bureau of the Census, compiled from reports of approximately 150 establishments, which produced 61 per cent of the total output of knit underwear in 1925, according to the census of manufacturers, while stocks are from 70 to 83 establishments only. Further details as to classes given in press releases. Data previous to May, 1924, were compiled by the *Associated Knit Underwear Manufacturers of America*.

<sup>5</sup> 11 months' average.

<sup>6</sup> 6 months' average.

<sup>7</sup> 9 months' average.

Table 8.—TEXTILE WHOLESALE PRICES <sup>1</sup>

YEAR AND MONTH	COTTON		COTTON YARN		COTTON GOODS			WOOL (Boston) <sup>2</sup>		WORSTED YARN	DRESS GOODS	SUITING	SILK, RAW	SILK GOODS
	Price to producer, all grades <sup>3</sup>	Mid-dling, upland, New York	Carded, white, northern, mule spun, <sup>27/1</sup> , cones, Boston	Carded, single warp, 40/1s, southern spinning	Composite index <sup>4</sup>	Print cloth, 64 x 69, 38½ in., 5.35 yds. to lb., f. o. b. mill	Sheeting, 4/4 Trion, L.L. 36", 4 yds. to lb., New York	Territory, fine, staple, scoured	¼ blood combing grease, Ohio and Pennsylvania fleeces	2/32's, cross-bred stock, Boston	French serge, 39", at mill	Un-finished worsted, 13 oz., at mill	Japanese, 13-15, New York	Composite index <sup>4</sup>
1913 mo. av	\$.120	\$.128	\$.248		100	\$.053	\$.062	\$.57	\$.25	\$.78				
1914 mo. av	.104	.119	.218		97	.046	.056	.61	.26	.64				
1915 mo. av	.091	.102	.198		91	.041	.052	.71	.36	.79				
1916 mo. av	.137	.145	.297		122	.061	.072	.87	.41	1.05				
1917 mo. av	.220	.235	.449		187	.095	.119	1.59	.66	1.56			\$6.273	
1918 mo. av	.295	.318	.662		292	.159	.195	1.84	.76	2.11			6.960	
1919 mo. av	.299	.324	.596		272	.146	.168	1.74	.64	1.63			9.639	\$1.82
1920 mo. av	.310	.339	.703		323	.182	.211	1.66	.51	1.83			9.084	1.75
1921 mo. av	.125	.152	.331	\$.448	162	.077	.087	.85	.26	1.18			6.574	1.40
1922 mo. av	.193	.213	.397	.571	187	.086	.104	1.25	.42	1.41			7.643	1.44
1923 mo. av	.270	.294	.486	.643	213	.103	.123	1.41	.51	1.73			8.653	1.57
1924 mo. av	.268	.287	.475	.593	199	.091	.113	1.42	.53	1.69			2.195	6.248
1925 mo. av	.222	.235	.418	.558	188	.093	.104	1.40	.55	1.72			2.348	6.574
1926 mo. av	.151	.176	.358	.508	160	.076	.093	1.15	.46	1.44	\$1.03		2.005	6.195
1927 mo. av	.159	.176	.351	.491	157	.076	.093	1.10	.45	1.37	.99		1.912	5.443
1928 mo. av	.186	.200	.371	.499	163	.077	.092	1.16	.54	1.56	1.01		1.997	5.072
1929 mo. av	.177	.191	.358	.506	161	.075	.087	.97	.46	1.49	.98		1.962	4.933
<b>1928</b>														
September	.176	.185	.358	.501	160	.074	.089	1.14	.54	1.58	.99		2.008	5.096
October	.181	.196	.372	.495	163	.078	.090	1.10	.54	1.58	.98		2.008	5.145
November	.178	.199	.375	.511	164	.078	.090	1.12	.55	1.55	.98		2.008	5.047
December	.180	.205	.378	.506	165	.078	.091	1.14	.55	1.58	.98		2.008	4.998
<b>1929</b>														
January	.179	.202	.382	.510	165	.076	.090	1.12	.55	1.58	.98		2.008	4.998
February	.180	.202	.372	.512	163	.075	.089	1.09	.55	1.58	.98		2.008	5.096
March	.188	.212	.377	.527	164	.077	.089	1.05	.52	1.58	.98		2.008	4.998
April	.185	.201	.363	.510	164	.076	.089	1.04	.49	1.55	.98		2.008	5.145
May	.180	.195	.353	.499	162	.073	.087	1.00	.43	1.50	.98		2.008	4.777
June	.179	.188	.348	.499	159	.072	.084	.97	.42	1.45	.98		2.008	4.925
July	.178	.186	.348	.505	159	.073	.083	.93	.42	1.45	.98		1.996	4.876
August	.180	.187	.349	.510	160	.075	.086	.93	.43	1.45	.98		1.901	5.073
September	.182	.189	.357	.510	160	.076	.086	.92	.43	1.48	.98		1.901	5.122
October	.175	.186	.359	.503	160	.078	.087	.90	.43	1.48	.98		1.901	4.925
November	.162	.175	.346	.491	159	.076	.087	.88	.43	1.43	.98		1.901	4.679
December	.160	.173	.340	.494	154	.069	.084	.84	.41	1.40	.98		1.901	4.580
<b>1930</b>														
January	.158	.173	.323	.500	152	.068	.083	.81	.38	1.38	.98		1.838	4.630
February	.148	.157	.310	.486	150	.065	.079	.79	.36	1.35	.98		1.800	4.433
March	.138	.151	.297	.477	140	.062	.078	.77	.33	1.30	.93		1.756	4.531
April	.147	.163	.302	.480	138	.061	.076	.76	.31	1.25	.90		1.756	4.186
May	.145	.164	.290	.473	137	.061	.078	.77	.29	1.23	.90		1.756	3.940
June	.140	.145	.273	.461	134	.056	.075	.76	.31	1.20	.90		1.756	3.251
July														
August														
September														
October														
November														
December														

<sup>1</sup> Unless otherwise specified, all prices are averages of weekly quotations as compiled by the U. S. Department of Labor, Bureau of Labor Statistics. Monthly data from 1909 through 1926 on items in this table, if available, may be found in the Record Book of Business Statistics, Textiles Section, pp. 13, 14, 15, 23, 35, and 36, except on raw silk Japan, 13-15, New York, for which monthly data from 1917 were presented in the November, 1927, issue of the SURVEY (No. 75), p. 27.

<sup>2</sup> Averages of weekly quotations on representative grades in the Boston market, as compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics. <sup>3</sup> Price of cotton to the producer, given at the end of each month until December, 1923, since which month it is given as of the 15th of the month, is a weighted average of prices received by producers throughout the United States for all grades of cotton as compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics. The market price in New York, on the other hand, is quoted on a specific grade and includes handling and transportation charges.

<sup>4</sup> Fairchild cotton-goods index, compiled by the Daily News Record, represents average weekly wholesale quotations of 36 standard cloths in the New York market. <sup>5</sup> Fairchild silk-goods index, compiled by the Daily News Record, represents the arithmetic average price per yard at the end of each month in the New York market of 18 domestic numbers and 5 Japanese numbers, including most of the standard fabrics manufactured both in the United States and in Japan. Monthly data from 1919 are given on p. 138 of the August, 1928, issue, No. 84.

<sup>6</sup> Average for years 1911 to 1913, inclusive.

<sup>7</sup> Average for 10 months.

<sup>8</sup> Average for 6 months.

<sup>9</sup> Average for 9 months.

Table 9.—COTTON<sup>1</sup>

YEAR AND MONTH	PRODUCTION (500-pound bales) <sup>2</sup>	GINNINGS (total crop to end of month indicated) <sup>3</sup>	RECEIPTS INTO SIGHT	IMPORTS	EXPORTS (excluding linters)	CONSUMPTION	STOCKS (end of month)				
							Domestic			World visible <sup>4</sup>	
							Total	Mills	Warehouses	Total cotton	American cotton
Bales <sup>5</sup>											
1909-13 monthly average.....	13, 033, 235			17, 313	563, 612					3, 977, 335	2, 976, 202
1913 monthly average.....	14, 156, 486	13, 982, 811	1, 203, 092	18, 455	712, 326	465, 289	3, 085, 132	1, 359, 417	1, 725, 715	4, 349, 535	3, 061, 535
1914 monthly average.....	16, 134, 930	15, 905, 840	1, 035, 730	26, 283	506, 556	454, 064	3, 414, 853	1, 209, 177	2, 205, 675	4, 628, 711	3, 094, 377
1915 monthly average.....	11, 191, 820	11, 068, 173	1, 256, 604	33, 798	676, 868	500, 749	4, 898, 345	1, 552, 989	3, 345, 356	5, 920, 777	4, 473, 105
1916 monthly average.....	11, 449, 930	11, 363, 915	1, 186, 402	32, 064	558, 057	551, 701	4, 777, 800	1, 863, 668	2, 914, 132	4, 704, 844	3, 494, 011
1917 monthly average.....	11, 302, 375	11, 248, 242	959, 945	23, 103	364, 253	567, 984	4, 137, 287	1, 658, 513	2, 478, 774	3, 978, 899	2, 752, 066
1918 monthly average.....	12, 040, 532	11, 906, 480	920, 106	18, 781	330, 611	514, 712	4, 687, 250	1, 594, 578	3, 092, 672	4, 021, 720	2, 814, 722
1919 monthly average.....	11, 420, 763	11, 325, 532	1, 031, 256	29, 226	544, 352	493, 293	4, 935, 973	1, 430, 976	3, 504, 998	5, 065, 485	3, 614, 068
1920 monthly average.....	13, 439, 603	13, 270, 970	896, 699	49, 999	509, 289	486, 933	4, 792, 190	1, 453, 054	3, 339, 136	5, 662, 420	3, 909, 420
1921 monthly average.....	7, 953, 641	7, 977, 778	1, 014, 029	23, 158	532, 125	450, 565	6, 100, 426	1, 312, 862	4, 787, 564	6, 346, 620	4, 410, 286
1922 monthly average.....	9, 762, 069	9, 729, 306	1, 000, 802	31, 030	501, 278	507, 294	4, 706, 031	1, 447, 196	3, 258, 836	4, 950, 925	3, 152, 091
1923 monthly average.....	10, 139, 671	10, 170, 694	944, 260	31, 228	435, 203	543, 444	3, 853, 119	1, 480, 319	2, 372, 800	3, 503, 179	2, 152, 179
1924 monthly average.....	13, 627, 936	13, 639, 399	1, 119, 349	26, 754	554, 455	460, 139	3, 435, 371	1, 087, 880	2, 347, 490	3, 722, 885	2, 417, 302
1925 monthly average.....	16, 103, 679	16, 122, 516	1, 344, 384	26, 113	696, 832	536, 044	3, 991, 285	1, 283, 913	2, 707, 372	4, 579, 560	3, 264, 977
1926 monthly average.....	17, 977, 374	17, 755, 070	1, 424, 535	30, 232	743, 029	556, 971	5, 471, 631	1, 432, 843	4, 038, 787	5, 626, 734	4, 209, 484
1927 monthly average.....	12, 956, 043	12, 783, 112	1, 408, 410	34, 268	766, 562	617, 085	5, 757, 076	1, 605, 262	4, 151, 814	6, 732, 073	5, 240, 157
1928 monthly average.....	14, 477, 874	14, 296, 549	1, 294, 695	28, 673	711, 996	547, 673	4, 645, 980	1, 331, 593	3, 314, 387	5, 791, 407	4, 006, 574
1929 monthly average.....	14, 824, 862	14, 547, 791	1, 330, 872	37, 213	618, 145	587, 859	4, 766, 819	1, 427, 948	3, 338, 871	5, 924, 741	3, 880, 324
<b>1928</b>											
September.....	14, 439, 000	4, 961, 360	2, 077, 590	18, 508	809, 953	492, 307	3, 357, 791	720, 108	2, 637, 683	4, 114, 118	2, 563, 118
October.....	13, 993, 000	10, 162, 482	3, 982, 579	27, 840	1, 240, 702	616, 238	5, 827, 879	1, 195, 770	4, 632, 109	6, 197, 901	4, 644, 901
November.....	14, 133, 000	12, 560, 154	2, 942, 284	40, 291	1, 427, 772	611, 173	6, 790, 960	1, 566, 542	5, 224, 418	7, 130, 058	5, 438, 058
December.....	14, 478, 000	13, 144, 333	2, 357, 135	39, 630	1, 057, 075	533, 301	6, 970, 652	1, 733, 930	5, 236, 722	7, 765, 517	5, 899, 517
<b>1929</b>											
January.....		13, 888, 972	1, 126, 215	54, 939	788, 595	668, 286	6, 383, 477	1, 768, 165	4, 615, 312	7, 606, 856	5, 509, 856
February.....			637, 760	39, 625	613, 394	594, 720	5, 606, 452	1, 744, 229	3, 862, 223	7, 226, 096	5, 043, 096
March.....		14, 296, 549	742, 692	37, 124	555, 986	631, 669	4, 906, 621	1, 729, 998	3, 176, 623	6, 749, 152	4, 469, 152
April.....			559, 119	84, 621	447, 838	631, 802	4, 131, 033	1, 606, 412	2, 524, 621	6, 052, 806	3, 679, 806
May.....			331, 987	42, 486	313, 003	668, 650	3, 321, 608	1, 475, 837	1, 845, 771	5, 268, 387	3, 000, 387
June.....			221, 936	26, 113	299, 136	569, 414	2, 664, 444	1, 287, 740	1, 376, 704	4, 475, 721	2, 301, 721
July.....		86, 974	126, 203	21, 369	237, 507	547, 165	2, 036, 988	1, 052, 128	934, 800	3, 651, 078	1, 693, 078
August.....	15, 543, 000	1, 568, 434	823, 360	24, 793	226, 018	558, 113	2, 189, 387	802, 200	1, 387, 187	3, 458, 476	1, 629, 476
September.....	14, 825, 000	5, 903, 265	2, 430, 663	23, 974	725, 876	545, 649	4, 016, 887	792, 028	3, 224, 859	4, 380, 816	2, 651, 816
October.....	14, 915, 000	10, 891, 940	4, 183, 751	19, 815	1, 251, 300	640, 798	6, 672, 477	1, 360, 557	5, 311, 920	6, 676, 760	4, 981, 760
November.....	15, 009, 000	12, 853, 166	2, 681, 923	35, 502	1, 048, 700	544, 150	7, 513, 779	1, 671, 829	5, 841, 950	7, 452, 874	5, 643, 874
December.....	14, 919, 000	13, 456, 787	2, 104, 849	36, 190	910, 321	453, 892	7, 758, 670	1, 844, 248	5, 914, 422	8, 097, 864	5, 959, 864
<b>1930</b>											
January.....		14, 176, 936	840, 256	51, 474	728, 737	577, 235	7, 236, 867	1, 830, 096	5, 406, 771	8, 058, 563	5, 575, 563
February.....			416, 984	23, 643	402, 074	495, 204	6, 670, 248	1, 811, 639	4, 858, 609	7, 853, 697	5, 149, 697
March.....		14, 547, 791	465, 810	28, 279	477, 678	508, 576	5, 951, 740	1, 762, 627	4, 189, 113	7, 339, 206	4, 612, 206
April.....			456, 787	67, 397	349, 762	532, 382	5, 303, 690	1, 667, 394	3, 636, 296	6, 659, 166	3, 975, 166
May.....			343, 210	53, 328	208, 796	473, 917	4, 868, 706	1, 531, 346	3, 337, 360	6, 335, 306	3, 688, 306
June.....			159, 699	9, 551	185, 053	405, 181	4, 462, 383	1, 357, 394	3, 104, 989	5, 951, 222	3, 352, 222
July.....		77, 956		4, 161	176, 435	278, 835	4, 060, 583	1, 183, 167	2, 877, 416	5, 229, 606	2, 916, 606
August.....	14, 362, 000										
September.....											
October.....											
November.....											
December.....											

<sup>1</sup> Receipts into sight compiled by *New Orleans Cotton Exchange*; imports and exports from *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*; consumption, ginnings, and domestic stocks from *U. S. Department of Commerce, Bureau of the Census*. Linters are not included in the statistics in this table. Yearly figures represent averages for the calendar year except for ginnings and production, in which case totals for the crop year are shown (not an average). Monthly data from 1909 through 1926 on items in this table, if available, may be found in the *Record Book of Business Statistics, Textiles Section*, pp. 18 to 27.

<sup>2</sup> The yearly figures from the *U. S. Department of Commerce, Bureau of the Census*, represent the total ginnings for the year expressed in 500-pound bales (not a monthly average). The monthly figures represent the forecast of the probable crop as estimated by the *U. S. Department of Agriculture, Bureau of Agricultural Economics*, on the 1st day of the months shown.

<sup>3</sup> Figures for September are to Sept. 25 only, prior to 1924. December figures cover ginnings through Dec. 13 only. January figures for all years cover ginnings through Jan. 16, and March figures cover all ginnings of the crop. Yearly figures represent total ginnings for the cotton crop harvested in that year (not a monthly average).

<sup>4</sup> These figures, from the *Commercial and Financial Chronicle*, represent world visible supply on the Saturday nearest the end of the month, covering European ports, United States port and interior, Egypt, India, and quantities afloat.

<sup>5</sup> All bales are running bales counting round as half bales, except for imports, which are given in equivalent 500-pound bales.



Table 10.—COTTON MANUFACTURING \*

YEAR AND MONTH	SPINDLE ACTIVITY <sup>1</sup>				FINISHED COTTON GOODS <sup>1</sup>						FINE COTTON GOODS <sup>(2)</sup>	COTTON CLOTH <sup>4</sup>		MILL DIVIDENDS (quarterly)	
	Active spindles	Total spindles hours	Per spindle in place	Ratio to capacity	Billings	Orders, gray yardage	Shipments	Stocks, end of month	Activity	Un-filled orders, end mo.	Production (New Bedford)	Imports	Exports	Fall River <sup>5</sup>	New Bedford <sup>6</sup>
	Thous.	Millions of hours	Hours	Per cent	Thousands of yards		Cases		Per cent	Days	Pieces	Thous. of square yards		Thousands of dollars	
1913 mo. av.	30,559											3,880	38,890	\$519	\$547
1914 mo. av.	30,748											5,189	27,207	311	470
1915 mo. av.	31,136											3,563	43,195	284	653
1916 mo. av.	32,293											5,834	51,688	512	746
1917 mo. av.	33,400											5,441	63,718	1,054	1,471
1918 mo. av.	33,525										7 434,188	2,737	45,348	1,512	1,603
1919 mo. av.	33,878										383,523	4,146	56,920	1,208	1,681
1920 mo. av.	33,807				<sup>8</sup> 52,787	<sup>8</sup> 39,431	<sup>8</sup> 25,543	<sup>8</sup> 39,920	<sup>8</sup> 38	<sup>8</sup> 6.7	329,571	11,732	68,229	2,521	2,238
1921 mo. av.	33,052	<sup>9</sup> 7,532	<sup>9</sup> 206	<sup>9</sup> 91.5	<sup>10</sup> 85,386	<sup>10</sup> 90,054	<sup>10</sup> 44,935	<sup>10</sup> 36,226	<sup>10</sup> 65	<sup>10</sup> 9.4	354,274	<sup>12</sup> 7,148	45,959	779	1,365
1922 mo. av.	33,026	7,725	209	93.5	<sup>11</sup> 94,016	<sup>11</sup> 95,509	<sup>11</sup> 49,102	<sup>11</sup> 44,937	<sup>11</sup> 66	<sup>11</sup> 9.9	385,770	11,872	48,958	762	1,500
1923 mo. av.	34,681	8,292	222	98.9	95,098	91,504	48,116	46,166	68	9.5	438,761	18,248	38,710	882	1,258
1924 mo. av.	31,136	6,689	177	78.5	77,650	76,105	41,863	43,139	58	5.9	366,360	14,782	39,818	705	942
1925 mo. av.	32,642	7,883	208	92.9	78,756	76,558	43,691	39,640	60	5.8	421,059	9,104	45,276	418	981
1926 mo. av.	32,352	8,086	215	95.4	81,214	78,565	47,352	39,641	64	6.1	403,020	5,057	42,775	290	726
1927 mo. av.	32,547	8,704	237	104.7	84,458	81,710	49,428	38,243	70	5.8	480,868	5,250	46,670	299	567
1928 mo. av.	29,962	7,727	216	95.3	75,100	74,299	46,563	37,829	62	4.8	261,318	5,108	44,865	232	358
1929 mo. av.	30,406	8,325	238	104.7	79,795	75,198	48,716	36,433	64	5.1	432,113	5,098	46,209	221	255
<b>1929</b>															
May	30,987	9,164	261	110.9	88,707	79,228	54,247	35,618	71	5.2	526,971	6,527	46,261		
June	30,632	8,160	232	104.8	78,964	65,462	45,674	35,487	60	5.1	465,658	4,880	44,730	225	280
July	30,397	7,757	222	100.3	75,582	69,475	44,809	37,299	57	4.9	408,659	5,175	50,412		
August	30,237	8,130	234	97.7	75,845	69,168	45,238	36,320	60	4.9	485,437	3,927	42,359		
September	30,038	7,881	226	104.0	73,116	67,991	43,586	35,062	61	4.6	381,760	3,972	42,274	226	234
October	30,135	9,004	258	108.7	81,549	78,806	46,173	37,635	65	3.9	454,524	5,936	43,709		
November	29,649	7,812	226	100.9	63,663	57,971	38,616	37,634	55	3.8	390,501	5,080	35,720		
December	29,070	6,770	196	88.2	61,816	54,172	36,521	38,220	50	3.6	367,706	4,508	34,657	198	258
<b>1930</b>															
January	29,198	8,173	236	100.3	63,457	71,723	41,793	35,428	57	4.3	420,190	4,455	39,153		
February	28,927	7,091	205	97.7	64,271	57,834	37,014	32,967	62	4.2	356,334	3,505	32,045		
March	28,898	7,350	214	92.8	66,246	60,526	39,459	32,528	59	4.2	402,322	3,781	36,171	348	254
April	28,860	7,503	219	96.3	65,364	56,641	34,308	40,741	56	2.9	351,580	5,076	36,821		
May	28,374	6,729	197	83.6	59,384	48,699	39,307	34,571	47	2.6		4,299	38,523		
June	27,642	5,779	169	76.3	50,933	39,249	32,986	34,477	41	2.0			35,868	330	254
July															
August															
September															
October															
November															
December															

\* Monthly data from 1909 through 1926 on items in this table, if available, may be found in the *Record Book of Business Statistics, Textiles Section*, pp. 29 to 34, 39, and 40.

<sup>1</sup> Data from U. S. Department of Commerce, Bureau of the Census, representing total cotton spindles active in textile mills during the month. The capacity percentage takes into account working days, on a single-shift basis, exclusive of holidays. Details by States are given in press releases.

<sup>2</sup> Compiled by the National Association of Finishers of Cotton Fabrics, from reports of 33 out of 59 members in July, 1929. The number of reporting members changed in November, 1920, to 35 out of 59; in December, 1921, to 34 out of 59; in November, 1922, 32 out of 57; in November, 1923, 31 out of 51; in January, 1925, 29 out of 51; in March 1925, 28 out of 51; in April, 1925, 29 out of 51; in October, 1926, 28 out of 50; in February, 1929, 27 out of 49; in October, 1928, 28 out of 49; and in November, 1929, 25 out of 52, members. This covers work done outside of regular textile mills. In the statistics given above white goods and dyed goods each comprise regularly about 40 per cent of billings and orders, and printed goods about 20 per cent. Details by Federal reserve districts and classes of goods are given in the association's reports. The goods are billed as completed, hence billings approximate production.

<sup>3</sup> Data on fine cotton goods, from the *Fine Cotton Goods Exchange*, are reported by 24 identical mills in the New Bedford district, representing about 50 per cent of the fine cotton goods industry in New England and from 20 to 30 per cent throughout the United States. Data on sales are no longer published as not strictly comparable with production figures.

<sup>4</sup> Imports and exports of cotton cloth from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Exports of cotton cloth include duck and other cloth, bleached, unbleached, and colored. Beginning with January, 1921, the figures are reported in square yards instead of linear yards, as formerly, and are probably slightly smaller than in the corresponding linear-yard measurement. Imports include bleached and unbleached, colored, dyed, printed, and woven figured cloths.

<sup>5</sup> Dividends paid by cotton mills in Fall River in quarter ending in the month given, comprising about 38 mills, are compiled by G. M. Haffords & Co. Yearly figures are quarterly averages.

<sup>6</sup> Dividends paid by New Bedford cotton mills in quarter ending in the month given, compiled from records comprising about 28 mills, supplied by Sanford & K' Yearly figures are quarterly averages.

<sup>7</sup> 9 months' average, April to December, inclusive.

<sup>8</sup> 6 months' average, July to December, inclusive; previous data not available.

<sup>9</sup> 5 months' average, August to December, inclusive; previous data not available.

<sup>10</sup> 11 months' average, January to November, inclusive.

<sup>11</sup> 11 months' average, February to December, inclusive.

<sup>12</sup> 9 months' average, January to September, inclusive.

Table 11.—COTTON TEXTILES AND BUTTONS

YEAR AND MONTH	CARDER SALES YARN <sup>1</sup>			COTTON TEXTILES <sup>2</sup>					CLOTH PRINTING <sup>3</sup>		FRESH-WATER PEARL BUTTONS <sup>4</sup>		BUTTONS		SHELLS		TAGUA NUTS
	Pro-duction	Stocks, end of month	Unfilled orders, end of month	Pro-duction	New orders	Ship-ments	Stocks, end of month	Unfilled orders, end of month	Pro-duction	Stocks, end of month	Pro-duction	Stocks, end of month	Product of Philippines	All other	Mother of pearl	All other	
	Thousands of pounds			Thousands of yards					Ratio to capacity	Thousands of gross		Thousands of pounds					
										Imports <sup>5</sup>							
1922 mo. av.											46.1	12,562			484	90	2,281
1923 mo. av.											46.0	13,874		18	517	160	2,873
1924 mo. av.											33.4	14,011	85	18	615	136	2,632
1925 mo. av.											44.0	12,489	60	21	457	115	3,172
1926 mo. av.				219,024	226,117	220,815	257,103	278,644			46.7	11,969	83	10	587	376	2,155
1927 mo. av.	<sup>6</sup> 15,682	<sup>6</sup> 9,887	<sup>6</sup> 27,597	277,853	275,206	271,801	214,840	454,800	<sup>7</sup> 56,177		49.8	9,799	60	7	543	377	2,388
1928 mo. av.	17,879	11,609	34,127	296,925	299,166	292,321	414,015	358,851			47.2	10,880	77	11	543	199	1,944
1929 mo. av.	18,369	8,442	37,903	293,949	285,022	288,176	381,272	410,087	75,202	83,078	48.7	11,021	56	27	743	732	2,219
<b>1929</b>																	
January	18,311	8,836	43,246	342,806	317,078	345,354	389,195	440,585	82,259	80,212	46.4	11,306	30	36	331	283	3,084
February	18,718	8,765	42,722	292,873	340,709	309,118	372,950	472,176	78,307	81,206	52.9	11,249	70	160	691	240	2,383
March	23,373	8,323	43,476	297,994	358,333	325,633	345,311	504,876	92,544	79,361	52.9	11,034	46	4	526	35	1,921
April	18,269	8,446	40,345	283,878	202,520	277,098	352,091	430,298	88,635	82,106	52.6	11,114	66	14	649	40	2,390
May	17,941	8,760	37,609	341,370	278,335	326,121	367,340	382,512	85,894	78,184	51.1	11,244	53	18	381	45	1,899
June	20,272	8,785	32,650	285,928	228,244	252,008	401,260	358,748	72,808	78,492	50.3	11,336	51	13	390	506	1,407
July	13,211	8,901	32,472	234,439	262,889	252,779	382,920	368,858	60,902	87,397	40.9	11,170	50	16	832	86	1,537
August	19,639	8,185	32,175	307,538	312,635	326,398	364,060	355,095	69,315	87,918	45.5	10,951	52	9	632	212	3,053
September	17,122	7,423	35,833	268,611	371,485	287,628	345,043	438,952	66,766	88,864	46.6	10,836	64	26	1,073	116	2,264
October	18,199	7,173	40,749	283,064	222,196	265,450	362,657	395,698	82,724	87,446	48.1	10,686	66	6	828	52	3,015
November	22,013	7,842	37,785	345,146	222,911	276,377	431,426	342,232	64,727	84,924	48.4	10,635	59	6	1,355	7,042	2,013
December	13,364	9,865	35,776	243,735	302,934	214,148	461,013	431,018	57,548	80,825	48.7	10,694	64	17	1,225	124	1,667
<b>1930</b>																	
January	17,571	10,773	35,056	323,287	292,034	331,481	452,819	391,571	60,091	73,239	42.3	9,700	64	261	866	32	1,149
February	13,086	11,775	36,165	266,849	243,861	274,543	445,125	360,889	60,939	72,642	49.3	9,698	71	5	443	516	477
March	13,707	12,487	39,072	261,403	292,249	265,675	440,853	387,463	72,634	77,763	48.3	9,838	63	5	531	69	1,186
April	15,485	13,116	34,457	257,243	223,225	253,360	444,736	357,328	72,721	84,808	47.1	9,878	59	6	171	104	1,607
May	11,678	13,439	30,186	275,801	184,473	270,056	450,481	271,745	58,588	85,381	42.4	9,790	44	16	570	925	1,317
June	10,968	13,559	27,632	198,539	129,947	182,652	466,368	219,040	47,608	82,856	41.1	10,056	107	18	271	377	1,242
July	11,049	13,742	26,469	165,850	180,147	176,689	455,529	222,498									
August																	
September																	
October																	
November																	
December																	

<sup>1</sup> Compiled by the *Cotton Textile Institute* from weekly reports, the production figures being combined into the monthly totals on the basis of either 4 or 5 weeks, June and September being 5-week months, while stocks and unfilled orders are for the Saturday nearest the end of the month. The figures for 1927 are not strictly comparable owing to the progressive addition of reporting firms, June and July reports being from about 100 mills each week, August and September from 118 mills with about 1,400,000 spindles in place, October and most of November from 134 mills with about 1,700,000 spindles in place, and beginning with the week ended November 26 from 141 mills with about 1,950,000 spindles in place, these latter mills representing about 70 per cent of the spindle capacity of the industry. These reports include only yarn made for sale to other mills, yarn used by the same mill in further manufacture being excluded.

<sup>2</sup> Compiled by the *Association of Cotton Textile Merchants of New York* from weekly, biweekly, and monthly reports of 46 commission houses and of several additional mills through the *Cotton Textile Institute*, representing mills manufacturing 23 groups of textile constructions, as follows, new groups added since the beginning of 1926 being marked with the date of inauguration of their statistics: Class A sheetings, Class B sheetings, Class C sheetings, print cloths narrower than 36 inches, print cloth 36 inches and wider, pajama checks, drills 40 inches and narrower, 4-leaf clothing twills, pocketing twills, jeans (gray cloth only), osnaburgs, heavy-warp sateens, drills, twills, sheetings, and sateens wider than 40 inches, denims, chambrays, chevots and plaids, gingham, wide brown sheetings (compiled entirely by the *Cotton Textile Institute* beginning with July, 1927, with additional mills reporting), print cloth fancies (beginning March, 1926), carded broadcloth (beginning July, 1926), cotton flannels for the mitten trade (beginning July, 1926), flat ducks (beginning October, 1927), tobacco cloths (beginning October, 1927), and miscellaneous print cloths (beginning October, 1927). The 2 latter groups are compiled by the *Cotton Textile Institute*, which, beginning with August, 1927, has collected data from additional mills in other groups to add to the reports. Therefore, the data beginning with the latter part of August are not comparable with previous totals on account of the great increase in reporting firms as well as the addition of 3 groups in October representing about 10 per cent of the total. Each group is further subdivided by kinds and sizes in the association's reports. New orders and shipments are computed from the other figures. The mills reporting are believed to represent over 60 per cent of the industry and are located chiefly in the South.

<sup>3</sup> Compiled by the *Cotton Textile Institute* from reports of from 15 to 18 mills finishing print cloths, both job printers, i. e., those printing cloths not of their own manufacture, and corporation printers, i. e., those both manufacturing and printing. These statistics, therefore, overlap somewhat the data of the *National Association of Finishers of Cotton Fabrics*, as they include corporation printers, which the association statistics omit, and exclude white and dyed goods, which the association statistics cover in addition to printed goods. The machines included in these reports represent from 68 to 74 per cent of the total printing machines. Cotton and rayon mixtures are included in these data, and the institute's reports present details by kind of cloth and use. Stocks represent printed yardage, both in cases and open stock.

<sup>4</sup> Compiled by the *National Association of Button Manufacturers* from reports of 17 firms representing 95.2 per cent of the machine capacity of the association members, except prior to July, 1922, when 16 firms reported on stocks, and there has been a further variation in the production reports; but being on a percentage basis, they are comparable. Stocks are as of the last Saturday of the month. Monthly data from 1922 through 1926 may be found in the *Record Book of Business Statistics, Textile Section*, page 47.

<sup>5</sup> Compiled by the *United States Department of Commerce, Bureau of Foreign and Domestic Commerce*, representing the imports of buttons, and unmanufactured button stock.

<sup>6</sup> 7 months' average.

<sup>7</sup> 5 months' average.

<sup>8</sup> 11 months' average.

Table 12.—SILK, RAYON, OTHER TEXTILES, AND FUR\*

YEAR AND MONTH	SILK							RAYON			OTHER TEXTILES						FUR	
	Im-ports <sup>1</sup>	Deliv-eries <sup>2</sup>	Stocks, end of month		Machinery activity <sup>3</sup>			Im-ports <sup>1</sup>	Stocks, imported, end of month <sup>1</sup>	Price, wholesale <sup>5</sup>	Elastic web-bing <sup>4</sup>	Fibers (un-mnfd.)	Bur-laps	Pyroxylin-coated textiles <sup>7</sup> (artificial leather)				Sales by deal-ers <sup>8</sup>
			At ware-houses <sup>1</sup>	At mfg.-plants <sup>3</sup>	Broad looms	Nar-row looms	Spin-ning spin-dies							Ship-ments	Imports <sup>1</sup>	Pyrox-ylin spread		
	Thous. of lbs.	Bales	Per cent of active hours to total			Thous. of lbs.	Dolls. per lb.	Thous. of dolls.	Long tons	Thous. of lbs.	Thous. of linear yds.	Thous. of dolls.						
1919 mo. average...	4,627							96	15	\$4.77								
1920 mo. average...	3,305	18,568	51,312					154	263	4.66								
1921 mo. average...	4,361	27,887	21,315	15,283				306	385	2.67								
1922 mo. average...	4,872	30,635	32,350	15,176	59.3	42.1	62.6	174	320	2.80								
1923 mo. average...	5,163	29,868	33,367	18,484	73.5	55.1	72.5	326	818	2.80								
1924 mo. average...	5,050	30,592	37,464	20,051	72.5	47.8	69.5	143	268	2.11								
1925 mo. average...	6,400	41,779	44,819	27,732	88.7	59.5	97.9	583	645	2.00								
1926 mo. average...	6,472	41,796	36,814	24,043	84.8	62.3	88.5	839	1,863	1.81								
1927 mo. average...	7,195	45,948	46,768	22,078	87.0	55.9	78.6	1,353	1,485	1.49								
1928 mo. average...	7,356	47,584	44,707	24,524	94.5	52.6	64.3	1,061	2,947	1.50	\$1,394							
1929 mo. average...	8,180	51,646	53,839	25,747	100.2	61.8	65.2	1,367	2,750	1.24	1,513							
<b>1929</b>																		
May.....	8,599	49,121	39,898	24,623	101.0	74.2	65.3	1,589	2,423	1.30	1,725	26,300	71,649	5,245	4,563	3,531	12,522	
June.....	7,596	46,504	47,425	23,162	100.7	67.8	63.1	1,782	2,902	1.23	1,473	21,182	51,216	4,615	4,007	2,910	8,546	
July.....	7,858	51,624	42,596	20,985	99.7	65.1	63.8	858	2,802	1.15	1,357	20,469	41,526	4,331	3,509	2,805	8,135	
August.....	9,620	59,704	48,408	25,854	101.9	65.5	65.2	990	2,747	1.15	1,399	25,048	74,698	4,294	3,540	2,468	11,335	
September.....	8,811	53,274	55,104	29,594	100.7	63.1	66.8	1,044	2,451	1.15	1,419	22,210	33,568	3,812	3,315	2,599	11,434	
October.....	9,396	57,489	64,129	28,200	102.6	58.1	66.9	1,540	2,538	1.15	1,600	26,613	42,067	3,875	3,529	2,403	8,187	
November.....	8,227	50,562	76,452	29,726	101.2	57.4	66.2	1,083	2,536	1.15	1,413	30,554	41,952	2,783	2,516	2,045	4,163	
December.....	9,164	44,159	90,772	27,017	98.3	54.1	64.5	1,162	3,082	1.15	1,149	24,950	45,738	2,460	2,050	1,747	2,262	
<b>1930</b>																		
January.....	7,346	57,683	76,264	29,100	105.6	59.6	67.0	1,159	3,087	1.15	1,444	30,262	73,098	3,098	2,786	2,373	2,968	
February.....	6,644	49,852	68,646	24,591	109.7	56.2	69.3	954	3,061	1.15	1,421	23,640	71,053	3,093	2,708	2,404	7,667	
March.....	6,103	50,863	57,773	24,728	111.1	57.7	69.2	928	3,093	1.15	1,496	33,312	52,854	3,474	3,111	2,332	8,327	
April.....	6,047	41,584	53,704	25,280	101.3	57.2	68.8	908	3,111	1.15	1,347	23,126	54,863	4,033	3,445	2,421	8,362	
May.....	3,622	40,823	35,477	23,200	87.9	52.8	59.1	487	2,956	1.15	1,300	19,322	47,699	3,693	3,227	2,370	7,692	
June.....	4,622	29,396	28,450	22,489	79.0	61.1	58.0	383		1.15	1,169	24,163	43,235	3,932	2,820	2,333	5,455	
July.....		39,948	35,565	20,734						.95								
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

\* Monthly data from 1909 through 1926 on items in this table, if available, and monthly averages from 1913 through 1918 on all imports and rayon data may be found in the *Record Book of Business Statistics, Textiles Section*, pp. 41 to 47.

<sup>1</sup> Imports of silk, of unmanufactured fibers, burlaps, and of rayon, as well as stocks of rayon in bonded customs warehouses, from *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. Silk imports are a total of unmanufactured silk, including raw silk, cocoons, and waste. Unmanufactured fibers include flax, hemp, jute, lute, kapok, manila, New Zealand flax, sisal, etc. Rayon imports are a total of yarns, threads, and filaments.

<sup>2</sup> Deliveries of raw silk from principal warehouses in New York City, indicating approximate consumption by mills, and stocks at these warehouses are from the *Silk Association of America*. A bale of silk averages about 133 pounds, but varies considerably according to origin of the bale. Details by sources are given in the association's report. The delivery figures are computed by the association from the data on stocks and trade figures on imports through New York and Pacific ports, allowing time for Pacific imports to reach New York.

<sup>3</sup> Computed from data reported by the *Silk Association of America*, covering from 35 to 60 per cent of the silk manufactures and throwsters, averaging about 45 per cent for most of the year 1924. Owing to the varying number of mills reporting, the original figures have been prorated up to 100 per cent, by dividing the stocks reported by the percentage of the trade which they are estimated to represent. The maximum reporting capacity (60 per cent in April and May, 1923), coming immediately after a month of minimum reporting capacity (35 per cent in March, 1923), indicates, in the close correspondence of these prorated totals, that the prorating shows the situation quite accurately.

<sup>4</sup> Compiled by the *Silk Association of America* from manufacturers representing about 50 per cent of the industry. The figures represent the percentage of active hours to the total hours normally worked, and are weighted averages of each section of the silk industry, for which details are given in the association's monthly reports, i. e., New Jersey, Pennsylvania, New England, and all other.

<sup>5</sup> Compiled by the *Silk Association of America*, representing average price of bleached rayon, 150 denier, A grade, in the New York market.

<sup>6</sup> Compiled by the *Webbing Manufacturers Exchange* from reports of 19 manufacturers. From 1920 through August, 1928, data were collected from 8 manufacturers and shown in thousands of yards in the February, 1928, and previous issues of the *SURVEY*.

<sup>7</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from reports of from 10 to 16 establishments, the number gradually increasing until 1928, when these 16 establishments had a monthly capacity on a 24-hour basis of 11,113,074 yards, based on 26 working days. These data represent products manufactured by spreading nitrocellulose or pyroxylin preparations upon gray goods. Further details as to values, etc., are given in press summaries.

<sup>8</sup> Compiled by the *American Fur Merchants' Association*, representing sales of fur to garment manufacturers, retailers, etc., principally in New York City, but also in other places in the United States and Canada.

<sup>9</sup> 10 months' average, March to December, inclusive, except for pyroxylin unfilled orders, where a different 10 months' average is used, January and October figures not being available.

<sup>10</sup> 8 months' average.

Table 13.—COAL\*

YEAR AND MONTH	BITUMINOUS										ANTHRACITE								
	Production		Ex-ports <sup>(2)</sup>	Consumption					Stocks, end of mo., held by consumers <sup>(9)</sup>	Prices			Production <sup>(1)</sup>	Ex-ports <sup>(2)</sup>	St'ks end of mo., in yds. of dealers <sup>(12)</sup>	Prices			
	United States <sup>(1)</sup>	Canada <sup>(3)</sup>		By ves-sels c'ring ports <sup>(4)</sup>	By electric power plants <sup>(5)</sup>	By rail-roads <sup>(6)</sup>	By coke plants			Mine average (spot) <sup>(10)</sup>	Wholesale, composite, mine run <sup>(11)</sup>	Retail composite, 38 cities <sup>(11)</sup>				Wholesale, composite, chest-nut <sup>(11)</sup>	Retail, composite, chest-nut <sup>(11)</sup>		
	Thous. of short tons	Thous. of long tons	Thousands of short tons					Dollars per short ton			Thous. of short tons	Thous. of long tons	No. of days' sup.	Dolls. per long ton	Dolls. per short ton				
1913 monthly average	39,870	-----	1,499	642	-----	-----	-----	-----	-----	-----	\$1.23	-----	\$5.44	7,627	346	-----	-----	\$7.92	
1914 monthly average	35,225	-----	1,150	606	-----	-----	-----	-----	-----	-----	1.14	-----	5.72	7,569	319	-----	-----	7.89	
1915 monthly average	36,886	-----	1,397	620	-----	-----	-----	-----	-----	-----	1.12	-----	5.58	7,416	295	-----	-----	7.86	
1916 monthly average	41,877	-----	1,581	656	-----	-----	-----	-----	-----	-----	1.85	-----	5.61	7,298	347	-----	-----	8.21	
1917 monthly average	45,983	-----	1,774	574	-----	-----	-----	-----	-----	-----	3.25	-----	7.09	8,301	447	-----	-----	9.28	
1918 monthly average	48,282	-----	1,663	461	-----	-----	-----	-----	57,900	-----	2.58	-----	7.80	8,236	370	36	-----	10.05	
1919 monthly average	38,822	1,160	1,497	604	2,816	-----	-----	40,400	-----	-----	2.59	-----	8.00	7,341	370	31	-----	11.89	
1920 monthly average	47,389	1,412	2,866	780	3,094	9,451	-----	29,933	-----	-----	5.04	-----	11.26	7,467	402	20	-----	15.04	
1921 monthly average	34,660	1,255	1,721	629	2,632	7,644	3,099	44,250	-----	-----	2.55	-----	10.68	7,539	348	44	-----	15.22	
1922 monthly average	35,189	1,263	924	343	2,848	8,006	4,528	38,583	-----	-----	3.64	-----	10.21	4,557	197	12	-----	15.11	
1923 monthly average	47,047	1,416	1,596	379	3,247	9,123	7,030	49,000	-----	-----	2.77	\$4.822	10.33	7,778	379	20	\$13.885	15.35	
1924 monthly average	40,307	1,136	1,272	332	3,130	8,161	5,415	49,000	-----	-----	2.08	4.213	9.18	7,327	299	54	13.911	15.31	
1925 monthly average	43,338	1,095	1,299	362	3,352	8,119	6,211	187	44,400	-----	2.06	4.116	9.07	5,151	237	42	13.788	15.17	
1926 monthly average	47,781	1,373	2,624	576	3,443	8,428	6,906	242	42,714	-----	2.21	4.314	9.33	7,036	300	39	13.767	15.35	
1927 monthly average	43,147	1,452	1,340	340	3,491	7,952	6,176	240	62,867	-----	1.99	4.264	9.28	6,675	247	52	13.298	14.99	
1928 monthly average	41,729	1,463	1,203	320	3,446	7,742	6,345	268	44,467	-----	1.80	4.031	8.94	6,279	248	48	13.001	14.87	
1929 monthly average	43,805	1,436	1,312	319	3,744	7,807	7,210	309	37,520	-----	1.79	3.953	8.85	6,387	254	50	12.886	14.83	
<b>1930</b>																			
January	49,778	1,630	953	283	4,006	8,210	6,588	312	37,700	-----	1.86	3.982	9.11	7,038	271	35	13.033	15.00	
February	39,555	1,185	835	263	3,418	7,117	6,248	281	-----	-----	1.79	3.951	9.04	6,157	262	-----	13.033	15.00	
March	35,773	1,130	726	278	3,442	7,376	6,841	309	33,100	-----	1.74	3.911	9.32	4,551	149	31	13.033	15.00	
April	35,860	907	858	292	3,255	6,804	6,645	295	-----	-----	1.71	3.901	8.84	4,916	123	36	12.887	14.99	
May	35,954	1,115	1,488	278	3,297	6,690	6,572	290	-----	-----	1.67	3.902	8.53	5,947	186	-----	12.441	14.33	
June	33,714	1,128	1,394	276	3,191	-----	6,155	268	32,200	-----	1.67	3.892	8.54	5,183	144	57	12.251	14.32	
July	34,715	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.71	3.891	8.65	5,658	-----	-----	12,336	14.53	
August	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Fuels, Automobiles, and Rubber Section* pp. 11 to 16.

<sup>1</sup> Production figures, calculated from shipments from the mine and representing complete production except for small quantities used at the mines, compiled by U. S. Department of Commerce, Bureau of Mines.

<sup>2</sup> Compiled by Department of Trade and Commerce, Dominion Bureau of Statistics, including bituminous, subbituminous, and lignite. Previous to 1919 these data comprised sales, colliery consumption, and coal used by operators, and thereafter the tonnage representing output of all mines.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce; bunker coal on vessels engaged in the foreign trade is not included.

<sup>4</sup> Coal loaded for consumption by outgoing vessels at principal ports compiled by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>5</sup> Compiled by the U. S. Department of the Interior, Geological Survey, representing fuel consumption by all plants producing electric power, mainly central stations. Coal consumption in central stations alone shown in April, 1925, issue (No. 44), p. 29, and by street railways, manufacturing plants, and reclamation projects in March, 1925, issue (No. 43), p. 28.

<sup>6</sup> Compiled by the Interstate Commerce Commission from reports of 174 Class I railroads. Consumption by switching and terminal engines is not included. It is stated that about 3 per cent would be added to the figures by such inclusion. About 2 per cent of the coal consumed on railroads in 1923 was anthracite.

<sup>7</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines, by applying to the coke production figures the average amount of coal used in making both by-product and beehive coals.

<sup>8</sup> Compiled by the Department of Trade and Commerce, Dominion Bureau of Statistics, presenting complete figures for Canada.

<sup>9</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines, representing stocks in the hands of commercial consumers and retail dealers at the end of each month, but does not include coal for steamship fuel, on lake docks, in transit, and in householders' bins. The figures for 1918 were taken on three different dates, from actual canvasses, while the later figures are based upon reports from a selected list of 5,000 consumers whose stocks in 1918 bore a known relation to the known total stocks. Data for 1918 and 1919 are averages of 1 month, for 1920, 3 months, for 1921, 4 months, for 1922 and 1923, 6 months, for 1924 and 1925 each 8 months, for 1926, 2 months, for 1925 and 1926, 3 months, and for 1927, 7 months.

<sup>10</sup> Average mine price of spot coal in 14 representative bituminous fields weighted by the production in each field, compiled by the *Coal Age*; about 20 per cent of the output of bituminous coal is sold spot, while about 55 per cent is sold on future contracts, and 25 per cent of the output is not sold commercially.

<sup>11</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics. Wholesale price of bituminous coal is monthly average based on run of mine as reported by 28 firms, f. o. b. city, while the retail price is average consumers' price on the 15th of the month, of lump, egg, nut, and mine run, averaged according to the month's shipments. Anthracite wholesale prices are monthly averages for chestnut coal as reported by 15 firms, f. o. b. city, while retail prices are unweighted quotations on Pennsylvania anthracite, white ash chestnut, on the 15th of the month. From 1913 through 1919 the retail averages for both bituminous and anthracite are for January 15th and July 15th only.

<sup>12</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines, from reports of about 500 retail dealers, calculated to show the number of days' supply at the current rate of consumption. Averages cover 1 month in 1918 and 1919, 3 months in 1920, 4 in 1921, 5 in 1922 and 1925, 8 in 1923, 1926, 1927, 1928, and 1929, and 2 in 1924.

<sup>13</sup> 6 months' average, January, May, June, August, November, and December missing.

<sup>14</sup> 8 months' average.

<sup>15</sup> 11 months' average, August missing.

<sup>16</sup> 10 months' average, January and February missing in 1926 and November and December in 1925.

Table 14.—IRON ORE AND PIG IRON\*

YEAR AND MONTH	MAN-GA-NESE ORE	IRON ORE <sup>1</sup>							PIG IRON								
	Imports <sup>2</sup> (manganese content)	Shipments from mines	Receipts		Consumption by furnaces	Stocks, end of month			Production			Furnaces in blast, end of month <sup>3</sup>		Wholesale prices <sup>4</sup>			
			Lake Erie ports and furnaces	Other ports		Total	At furnaces	On Lake Erie docks	United States <sup>5</sup>		Canada <sup>6</sup>	Furnaces	Capacity	Foundry, No. 2, northern (Pittsburgh)	Basic (valley furnace)	Composite pig iron <sup>7</sup>	
									Total	Merchant iron <sup>8</sup>							Total
Thousands of long tons													Number	Long tons per day	Dollars per long ton		
1909-13 mo. av. . . . .	21	180											252	74,487	\$15.60		\$15.21
1913 mo. av. . . . .	29	216	4,089	3,230	826			7,530					268	84,005	16.01	\$14.71	15.42
1914 mo. av. . . . .	24	113	2,668	2,091	565			7,246					187	62,418	13.90	12.87	13.52
1915 mo. av. . . . .	26	112	3,860	3,127	732			7,244					230	83,539	14.87	13.74	14.15
1916 mo. av. . . . .	48	110	5,395	4,282	1,082			6,282					319	106,775	21.07	19.76	20.31
1917 mo. av. . . . .	52	81	5,208	4,033	1,128			7,278					338	106,498	41.45	38.98	39.99
1918 mo. av. . . . .	41	66	5,096	3,976	1,089	5,290	33,455	25,523	8,234	3,209	863	89	352	106,562	34.44	32.50	34.38
1919 mo. av. . . . .	28	40	3,931	3,073	833	3,903	31,325	23,546	7,779	2,549	650	68	241	81,918	30.28	27.68	29.92
1920 mo. av. . . . .	51	106	4,877	3,736	1,104	4,531	29,753	21,211	8,542	3,035	824	81	287	97,644	44.88	42.25	43.80
1921 mo. av. . . . .	33	26	1,858	1,296	546	2,030	33,330	24,512	8,818	1,379	246	50	105	44,040	25.16	21.74	24.06
1922 mo. av. . . . .	31	95	3,551	2,643	873	3,355	33,751	25,642	8,109	2,240	472	32	181	75,197	26.93	24.20	25.00
1923 mo. av. . . . .	16	231	4,920	3,639	1,230	5,191	31,059	24,438	6,621	3,338	805	73	277	109,080	28.15	25.81	27.15
1924 mo. av. . . . .	19	171	3,552	2,631	887	3,833	31,639	25,076	6,563	2,592	621	49	203	84,772	22.50	20.24	21.87
1925 mo. av. . . . .	23	183	4,507	3,225	1,237	4,564	30,422	24,319	6,103	3,034	659	48	216	99,750	21.66	19.58	21.32
1926 mo. av. . . . .	29	213	4,880	3,524	1,305	4,863	29,860	23,863	5,998	3,256	750	63	221	106,545	20.63	18.55	21.06
1927 mo. av. . . . .	25	218	4,259	3,046	1,170	4,411	32,245	26,281	5,964	3,019	741	59	195	98,415	19.75	17.70	19.35
1928 mo. av. . . . .	17	204	4,498	3,079	1,371	4,735	29,799	24,062	5,738	3,153	636	86	192	103,695	18.88	16.67	18.32
1929 mo. av. . . . .	27	262	5,434	3,813	1,564	5,304	29,610	24,577	5,033	3,524	730	91	203	114,835	19.99	18.19	19.15
<b>1929</b>																	
May . . . . .	29	276	9,549	6,753	2,526	5,980	19,146	15,275	3,871	3,898	793	81	219	126,150	20.26	18.38	19.27
June . . . . .	51	244	10,174	6,985	2,805	5,677	23,701	19,619	4,082	3,717	717	90	218	122,590	20.26	18.50	19.35
July . . . . .	48	301	10,671	7,509	3,127	5,808	28,697	24,245	4,452	3,785	746	100	216	121,965	20.26	18.50	19.27
August . . . . .	33	298	10,807	7,518	3,284	5,779	33,831	28,720	5,111	3,756	690	113	210	119,130	20.26	18.50	19.18
September . . . . .	13	247	9,547	6,619	2,710	5,362	38,125	32,360	5,765	3,498	635	99	205	116,405	20.26	18.50	19.00
October . . . . .	25	270	7,989	6,052	2,267	5,366	41,135	34,770	6,365	3,588	685	91	203	113,600	20.26	18.50	19.03
November . . . . .	24	269	3,951	3,119	1,661	4,701	41,500	35,010	6,490	3,181	683	87	177	98,450	20.26	18.50	19.10
December . . . . .	15	286	9	14	None.	4,076	37,646	31,503	6,143	2,837	724	83	157	88,250	20.26	18.50	19.10
<b>1930</b>																	
January . . . . .	38	293	None.	None.	None.	4,101	33,528	27,674	5,854	2,827	613	87	172	96,370	20.26	18.50	19.08
February . . . . .	22	203	None.	None.	None.	4,062	29,475	23,939	5,536	2,839	555	71	179	102,250	20.26	18.50	18.99
March . . . . .	30	301	None.	None.	None.	4,628	24,877	19,785	5,092	3,246	645	76	185	106,080	20.26	18.50	18.77
April . . . . .	26	313	108	10	None.	4,576	20,285	15,950	4,335	3,182	617	72	183	104,770	20.26	18.50	18.75
May . . . . .	30	291	6,979	3,987	2,100	4,715	21,325	17,072	4,253	3,233	619	81	180	103,425	20.26	18.50	18.66
June . . . . .	31	292	8,650	5,755	2,697	4,288	25,700	21,087	4,613	2,934	630		160	92,590	20.26	18.50	18.55
July . . . . .			8,587	6,346	2,515				5,023	2,640	564		144	83,645	19.86	18.10	86.22
August . . . . .																	
September . . . . .																	
October . . . . .																	
November . . . . .																	
December . . . . .																	

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 11 to 20.

<sup>1</sup> Data on iron ore from the *Lake Superior Iron Ore Association*, except imports. Shipments represent movement of ore through the upper lake ports, including not only tonnage passing through the Sault Ste. Marie canals but also that from ports on Lake Michigan, thus representing over 85 per cent of the total iron ore mined. Receipts at ports other than on Lake Erie are mostly at Chicago and vicinity and Detroit, the details by ports being shown in the monthly reports of the association, which also give by districts the consumption data. Furnaces reporting vary in number from 319 to 341 and beginning with June, 1922, reports from 15 Canadian furnaces are included. Averages are based on the full 12 months of the year.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. Imports of manganese ores exclude ores imported from Cuba since September, 1922, which are shown only in the raw state, but included those ores prior to that date, when they were combined with the manganese content of imported ores.

<sup>3</sup> Pig-iron production and blast-furnace data, in the United States, comprising practically the entire output, except that made with charcoal, from the *Iron Age*.  
<sup>4</sup> Compiled from data reported by the *Iron Age* by subtracting the figures on pig iron produced by steel mills from the total pig-iron production figures, thus obtaining data on the total output of merchant pig iron.

<sup>5</sup> Data on Canadian pig-iron production compiled by *Canadian Department of Trade and Commerce, Dominion Bureau of Statistics*, comprising complete production.

<sup>6</sup> Wholesale prices, except composite average, are averages of weekly quotations taken from *U. S. Department of Labor, Bureau of Labor Statistics*.

<sup>7</sup> The composite pig-iron price, compiled by the *American Metal Market*, is the average of daily prices of 10 tons of iron distributed as follows: 1 ton each of Bessemer valley; No. 2 foundry valley; No. 2 X foundry at Philadelphia and at Buffalo; No. 2 foundry at Cleveland and at Chicago; 2 tons each of basic valley and No. 2 Southern foundry at Cincinnati.

<sup>8</sup> 9 months' average, April to December, inclusive.

Table 15.—CRUDE STEEL AND COKE\*

YEAR AND MONTH	STEEL INGOTS		U. S. STEEL CORPORATION <sup>1</sup>		STEEL PRICES				COKE					
	Production		Unfilled orders, end of month	Earnings	Steel billets, Bessemer (Pittsburgh) <sup>4</sup>	Structural steel beams (Pittsburgh) <sup>4</sup>	Iron and steel <sup>5</sup>	Composite finished steel <sup>6</sup>	Production		Exports <sup>9</sup>	Wholesale price		
	United States <sup>1</sup>								Canada <sup>7</sup>	United States <sup>7</sup>			Canada <sup>8</sup>	Connellsville <sup>10</sup>
	Total	Ratio to capacity	Thous. of long tons	Thous. of dollars	Dolls. per long ton	Dolls. per pound	Dolls. per long ton	Dolls. per pound			Beehive	By-product		
		Thous. of long tons	Per cent	Thous. of long tons	Thous. of dollars	Dolls. per long ton	Dolls. per pound	Dolls. per long ton	Dolls. per pound	Thous. of short tons		Thous. of long tons	Dolls. per short ton	
1909-13 monthly average			4,785	\$10,370	\$23.93			\$0.0171			73	\$2.09		
1913 monthly average	2,523		5,907	11,432	25.79	\$0.0151	\$26.32	.0172	2,799	1,060	73	2.30		
1914 monthly average	1,902		4,115	5,972	20.08	.0118	22.92	.0152	1,945	935	49	1.79		
1915 monthly average	2,607		5,189	10,866	22.44	.0128	24.76	.0163	2,292	1,173	67	1.89		
1916 monthly average	3,450		106	9,722	27,798	.0253	40.50	.0280	2,955	1,589	87	3.61		
1917 monthly average	3,635		130	10,716	24,608	.0374	70.10	.0446	2,764	1,870	105	8.15		
1918 monthly average	3,588		140	8,635	16,613	.0300	56.68	.0379	2,540	2,167	126	6.00		
1919 monthly average	2,808		77	5,995	11,966	.0252	50.32	.0332	1,587	2,095	53	4.75		
1920 monthly average	3,407		92	10,022	14,724	.0284	65.59	.0363	1,709	2,570	68	10.79		
1921 monthly average	1,602		56	5,331	7,727	.0204	40.74	.0269	462	1,646	23	3.65		
1922 monthly average	2,881		41	5,648	8,461	.0173	37.86	.0231	714	2,379	38	7.42		
1923 monthly average	3,624		74	6,009	14,971	.0242	44.55	.0295	1,615	3,133	92	5.55		
1924 monthly average	3,068		54	3,993	12,760	.0224	40.86	.0284	857	2,832	49	3.53		
1925 monthly average	3,678		63	4,324	13,795	.0200	38.83	.0268	946	3,326	123	71	4.09	
1926 monthly average	3,911	94	65	3,922	16,588	.0196	38.27	.0264	1,041	3,698	159	73	4.14	
1927 monthly average	3,617	76	76	3,397	13,687	.0186	36.41	.0253	601	3,657	165	60	3.21	
1928 monthly average	4,155	85	103	3,852	16,100	.0187	35.49	.0250	374	4,026	192	82	2.79	
1929 monthly average	4,526	89	115	4,161	21,555	.0192	36.49	.0254	501	4,456	223	92	2.78	
<b>1929</b>														
September	4,528	92	99	3,903	21,184	35.00	.0195	36.50	.0254	504	4,413	220	98	2.70
October	4,534	86	116	4,087	22,066	35.00	.0190	36.27	.0251	470	4,610	233	126	2.70
November	3,521	69	94	4,125	18,367	35.00	.0190	36.04	.0250	413	4,321	224	98	2.69
December	2,903	59	82	4,417	15,952	34.60	.0190	35.95	.0250	345	4,181	222	111	2.64
<b>1930</b>														
January	3,796	70	115	4,469	15,404	34.00	.0190	35.64	.0246	309	4,196	225	101	2.59
February	4,078	85	107	4,480	16,108	33.00	.0180	35.24	.0243	281	4,004	204	75	2.60
March	4,300	83	117	4,571	18,104	33.00	.0180	35.01	.0243	291	4,394	224	58	2.60
April	4,154	80	103	4,354	16,114	33.00	.0180	34.48	.0239	302	4,246	213	73	2.60
May	4,025	74	92	4,059	16,571	32.50	.0180	33.84	.0235	241	4,266	210	78	2.53
June	3,440	69		3,968	14,377	31.00	.0170	33.53	.0233	261	3,954	198	68	2.50
July	2,933	56		4,022		31.00	.0165	33.25	.0229	262				2.52
August														
September														
October														
November														
December														

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 21, 22, 25, and 26, and *Fuels, Automobiles, and Rubber Section*, pp. 17 and 18.

<sup>1</sup> Yearly figures represent the monthly averages of total production of all companies as compiled annually by the *American Iron and Steel Institute*. The institute reported up to 1923 monthly production figures for 30 companies which produced 84.4 per cent of the total output of the country in 1920, 87.48 per cent in 1921, and 84.16 per cent in 1922. In order to make the monthly figures comparable they have been calculated to a 100 per cent production each year on the basis of the above percentages. The figures since 1922 are calculated on the basis of reports from companies which produced 95.35 per cent of the total production in 1922, 94.34 per cent in 1923, 84.43 per cent in 1924, 94.50 per cent in 1925, 95.01 per cent in 1926, and 94.63 per cent in 1927, the total computations to 100 per cent being made by the *American Iron and Steel Institute*. Data for 1928 are prorated on the 1927 percentage. The capacity figures used in computing the ratio between actual production and capacity are based upon the annual capacity as of Dec. 31, 1927, of 58,627,910 long tons of Bessemer and open-hearth steel ingots, the figure for a year earlier being 67,230,350 tons. Beginning with 1927, crucible and electric ingots are excluded, but these items represented only a fraction of 1 per cent of the total.

<sup>2</sup> Production of steel in Canada, representing complete figures, compiled by *Department of Trade and Commerce, Dominion Bureau of Statistics*.

<sup>3</sup> Unfilled orders of steel and earnings reported by *United States Steel Corporation*.

<sup>4</sup> Average of weekly prices from *U. S. Department of Labor, Bureau of Labor Statistics*.

<sup>5</sup> Average of weekly prices compiled by the *Iron Trade Review*, on the following 14 products: Pig iron, billets, slabs, sheet bars, wire rods, steel bars, plates, structural shapes, black, galvanized and blue annealed sheets, tin plates, wire nails, and black pipe. Pig iron average, in turn, is an average of 14 different quotations.

<sup>6</sup> The figures for composite finished steel compiled by the *American Metal Market* represents the daily average price per pound of steel products weighted as follows: 2½-pound bars, 1½-pound plates, 1½-pound shapes, 1½-pound pipe, 1½-pound wire nails, 1-pound galvanized sheets, and ½-pound tin plate.

<sup>7</sup> Production figures, representing complete production, compiled by *U. S. Department of Commerce, Bureau of Mines*.

<sup>8</sup> Compiled by the *Canadian Department of Trade and Commerce, Dominion Bureau of Statistics*, presenting complete figures for Canada.

<sup>9</sup> Exports from the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*.

<sup>10</sup> Compiled by *U. S. Department of Labor, Bureau of Labor Statistics*, representing beehive furnace coke (range of prompt and future) at Connellsville ovens.



Table 16.—FABRICATED STEEL PRODUCTS \*

YEAR AND MONTH	FABRICATED STRUCTURAL STEEL <sup>1</sup>				FABRICATED STEEL PLATE <sup>2</sup>			STEEL BOILERS <sup>3</sup>		STEEL FURNITURE <sup>4</sup>						IRON AND STEEL <sup>5</sup>		IRON, STEEL, AND HEAVY HARDWARE SALES <sup>6</sup>	Rel. to Jan. 1921
	New orders		Shipments		New orders			New orders		Business group			Shelving			Exports, total	Imports, total		
	Com-puted total	Ra-tio to ca-pac-ity	Com-puted total	Ra-tio to ca-pac-ity	Total		Storage tanks	Number	Thous. of sq. feet	Ship-ments	New orders	Un-filled orders, end mo.	Ship-ments	New orders	Un-filled orders, end mo.	Exports, total	Imports, total		
					Quan-tity	Ra-tio to ca-pac.													
	Short tons	Per cent	Short tons	Per cent	Short tons	Per cent	Short tons												
1919 mo. av.....	143,640	54																	
1920 mo. av.....	149,040	54																	
1921 mo. av.....	99,050	35																	
1922 mo. av.....	194,560	64																	
1923 mo. av.....	203,580	65			48,489	60	25,285												
1924 mo. av.....	220,050	68	222,495	68	29,028	36	10,413			1,936	1,909	1,256	567	466	374	150,580	38,868	137	
1925 mo. av.....	248,394	72	249,840	72	32,127	37	8,261			2,236	2,279	1,541	557	578	483	146,881	69,836	143	
1926 mo. av.....	241,200	67	267,900	74	42,826	52	14,614			2,619	2,616	1,694	611	612	639	180,587	77,803	167	
1927 mo. av.....	254,375	66	237,813	63	41,476	52	17,581	1,592	1,483	2,592	2,563	1,586	605	613	671	181,748	46,025	191	
1928 mo. av.....	273,992	71	260,517	68	44,401	56	20,230	1,639	1,474	2,920	2,998	2,180	775	800	742	238,583	49,132	195	
1929 mo. av.....	320,833	83	299,033	78	42,755	54	11,571	1,544	1,622	2,837	2,836	2,294	944	963	908	252,696	47,276	214	
<b>1929</b>																			
January.....	273,350	71	281,050	73	32,805	41	11,055	1,075	1,252	3,661	3,945	2,593	902	1,100	819	274,296	45,573	192	
February.....	265,650	69	238,700	62	58,684	74	16,093	1,042	1,196	3,288	3,109	2,419	974	919	766	259,711	45,333	175	
March.....	358,050	93	277,200	72	57,628	72	21,951	1,466	1,558	2,975	2,931	2,354	1,110	1,146	802	270,925	39,888	217	
April.....	334,950	87	304,150	79	42,063	53	9,984	1,706	1,769	2,895	2,933	2,389	1,131	1,095	766	277,580	43,936	226	
May.....	342,650	89	311,850	81	47,715	60	10,087	1,751	2,145	2,824	2,937	2,406	989	1,121	897	261,516	54,445	230	
June.....	346,500	90	288,750	75	45,918	58	6,890	1,685	1,823	2,544	2,553	2,325	920	959	934	247,811	46,397	220	
July.....	350,350	91	304,150	79	48,968	62	14,963	2,052	2,075	2,659	2,590	2,241	867	939	999	270,532	51,275	223	
August.....	361,900	94	338,800	88	39,702	51	11,150	1,859	1,782	2,483	2,418	2,171	890	931	1,041	242,856	61,547	240	
September.....	319,550	83	315,700	82	41,653	53	15,189	1,910	1,957	2,314	2,294	2,054	843	880	1,019	222,408	46,346	229	
October.....	342,650	89	350,350	91	32,099	39	8,786	1,712	1,871	2,918	2,842	2,059	979	928	1,075	247,646	49,502	243	
November.....	227,150	59	284,900	74	42,295	53	9,033	1,239	1,160	2,631	2,900	2,345	860	801	950	241,829	44,045	207	
December.....	319,550	83	265,650	69	23,535	30	3,669	1,029	880	2,782	2,583	2,166	856	735	824	215,242	39,022	169	
<b>1930</b>																			
January.....	252,000	63	244,000	61	50,076	64	7,432	942	1,082	2,891	2,886	1,862	675	725	706	225,090	34,710	160	
February.....	284,000	71	288,000	72	28,332	36	7,865	873	939	2,550	2,370	1,683	683	759	782	197,426	35,830	149	
March.....	248,000	62	280,000	76	38,051	48	6,593	972	1,262	2,727	2,627	1,590	812	839	808	238,333	49,284	177	
April.....	236,000	59	304,000	76	39,473	50	8,460	1,017	1,070	2,427	2,524	1,680	815	796	782	208,640	45,358	183	
May.....	296,000	74	280,000	70	30,306	38	9,222	1,283	1,330	2,342	2,310	1,651	752	725	754	196,120	46,081	180	
June.....	276,000	69	300,000	75	35,014	46	9,741	1,350	1,522	2,123	2,006	1,265	705	699	746	169,392	34,755		
July.....	284,000	71	304,000	76															
August.....																			
September.....																			
October.....																			
November.....																			
December.....																			

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 27, 28, 32, 33, and 35.

<sup>1</sup> Fabricated structural steel data compiled by the *Bridge Builders and Structural Society* up to April, 1922, and since then by *U. S. Department of Commerce, Bureau of the Census*, including reports from the *Central Fabricators' Association*. Percentages of capacity calculated from reports of the *Bridge Builders and Structural Society* up to April, 1922, and applied to estimated total capacity each year based on a special annual survey by the *Bureau of the Census*. Beginning with April, 1922, reports received from 242 firms (and in addition 30 firms now out of business) with a total capacity of 245,140 tons in 1922, 253,020 tons in 1923, 266,155 tons in 1924, 286,675 tons in 1925, 291,315 tons in 1926, 312,895 tons in 1927, and 322,960 tons in 1928 have been prorated to the estimated total capacity of the United States, 304,000 tons in 1922 and 312,000 tons in 1923, 320,000 tons in 1924, 347,000 in 1925, 360,000 tons in 1926, 375,000 tons in 1927, and 385,000 tons in 1928, for comparison with previous figures. Monthly data from 1922 comparable to figures in this table and revising the figures shown in the *Record Book of Business Statistics* appeared in the March, 1929, issue (No. 91), p. 18.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from reports of 36 identical firms, including reports from the *American Erectors Association*. Reports from most of the larger fabricators are included in the figures. Data for other classifications included in the total, covering refinery, tank cars, gas holders, blast furnaces, and miscellaneous, including stacks and ladles, but not separately shown, are given in press releases.

<sup>3</sup> Compiled by *U. S. Department of Commerce, Bureau of the Census*, from reports of 72 firms, estimated to represent about 90 per cent of the capacity of the industry. Data for classifications included in these totals, covering the principal types of stationary and marine boilers, are given in press releases. Details for the first 5 months of 1927 appeared in July, 1927, issue (No. 71), p. 22.

<sup>4</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, including reports from the *National Association of Steel Furniture Manufacturers*, and comprising data from 33 companies in the "business group" and 15 companies manufacturing shelving, comprising the entire industry, with few exceptions. The "business group" includes sections, counters, office and vault verticals, safes and interiors, desks and tables, and small miscellaneous articles, exclusive of lockers.

<sup>5</sup> Iron and steel exports and imports from the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. The exports prior to 1922 are based on the group of pig iron and rolled products as used in the *Iron Trade Review*, comparable each month back to 1913. Beginning with January, 1922, all commodities are given in quantities in the export reports, and thus a grand total can be presented, which is not more than about 5 per cent larger, on the average, than the data for the comparable items. Imports are identical throughout the period, with a few minor exceptions.

<sup>6</sup> Data on the value of sales by jobbers of hardware, compiled by *American Steel and Heavy Hardware Association*, comprising reports from about 75 firms, estimated to represent about 10 per cent of the entire iron, steel, and heavy hardware jobbing trade, including iron, steel, motor accessories, and other heavy hardware. Monthly data from 1922 appeared in March, 1927, issue (No. 67), p. 26.

<sup>7</sup> 4 months' average, September to December, inclusive; previous data not available.

Table 17.—STEEL SHEETS, BARS, BARRELS, AND WASHERS \*

YEAR AND MONTH	SHEETS—BLACK, BLUE, GALVANIZED, AND FULL FINISHED <sup>1</sup>						STEEL BARRELS <sup>2</sup>					LOCK WASHERS <sup>(3)</sup>	COLD FIN. STEEL BARS <sup>(4)</sup>	
	Production		Stocks, end of month		Shipments	New orders	Unfilled orders, end of month	Production		Shipments	Stocks, end of month			Unfilled orders, end of month
	Total	Ratio to capacity	Total	Unsold				Total	Ratio to capacity			Number of barrels	Per cent	
	Short tons	Per cent	Short tons			Number of barrels	Per cent	Number of barrels		Thous. of dols.	Short tons			
1919 mo. av.	117,520	62.7	72,963	17,061	114,869	142,209	376,334							
1920 mo. av.	171,489	72.7	111,906	5,590	172,161	140,844	689,853							
1921 mo. av.	85,409	34.9	106,175	46,989	87,702	75,329	232,551	17.4	172,371		6,360,859			
1922 mo. av.	190,864	76.5	108,709	28,703	182,519	203,869	346,449	34.0	384,723		666,110			
1923 mo. av.	222,660	79.7	129,728	35,336	230,823	213,583	450,750	38.8	446,344		1,034,755			
1924 mo. av.	219,836	74.2	122,955	42,115	209,329	225,024	368,147	393,800	393,535	49,845	756,963			
1925 mo. av.	293,499	92.8	137,863	45,702	266,156	273,281	530,869	503,888	504,364	52,614	1,169,763			
1926 mo. av.	287,288	90.4	162,234	50,085	282,835	269,361	530,595	549,045	548,904	47,865	1,448,140			
1927 mo. av.	273,940	85.3	159,419	48,980	262,681	279,558	448,963	552,547	552,063	55,658	1,291,056	\$232	34,031	
1928 mo. av.	328,996	96.5	163,739	54,821	315,008	316,219	577,827	616,482	616,977	53,708	1,186,575	261	42,076	
1929 mo. av.	323,948	100.2	171,500	56,320	321,491	316,648	620,462	694,856	692,947	58,846	1,299,549	309	47,002	
<b>1928</b>														
May.....	349,367	95.6	166,711	54,047	326,324	250,316	527,477	696,281	694,843	58,585	1,257,117	282	39,431	
June.....	311,629	94.3	151,606	50,702	308,741	318,902	526,798	712,779	717,496	53,868	1,159,756	287	39,542	
July.....	267,685	82.2	161,933	55,280	278,310	333,357	550,468	647,844	645,881	55,831	1,232,412	257	39,943	
August.....	329,396	92.8	154,461	51,636	324,691	254,397	498,023	677,313	675,600	57,544	1,064,358	282	42,993	
September.....	318,907	101.0	146,832	44,519	322,876	370,936	539,960	593,255	595,640	55,059	996,820	257	43,893	
October.....	369,243	103.5	150,600	49,800	354,925	344,614	525,161	656,021	661,009	50,071	823,872	269	50,867	
November.....	358,402	104.8	174,028	63,014	307,790	346,041	565,739	563,647	568,353	45,365	957,117	255	46,902	
December.....	302,182	95.1	191,429	66,750	296,687	323,421	592,094	551,113	549,913	46,465	1,357,443	221	40,045	
<b>1929</b>														
January.....	391,404	109.9	198,874	63,739	362,229	438,390	652,602	558,492	548,581	56,376	1,661,710	290	50,276	
February.....	326,468	109.7	188,441	61,058	325,848	389,496	706,955	567,398	563,532	60,242	1,543,846	317	52,934	
March.....	364,202	115.2	189,050	63,397	363,648	464,297	791,615	742,165	743,407	59,000	1,470,258	353	62,179	
April.....	375,256	115.2	175,306	54,142	377,274	398,206	835,801	771,584	775,481	55,103	1,269,044	370	60,486	
May.....	393,430	115.8	167,869	48,334	392,336	279,783	713,568	836,532	834,699	56,936	1,215,972	373	58,768	
June.....	337,841	110.4	163,607	52,274	347,989	307,911	676,568	774,853	779,567	52,222	1,548,999	397	51,181	
July.....	323,905	98.1	154,854	47,103	344,676	337,222	658,155	790,175	782,411	59,986	1,372,697	391	49,910	
August.....	366,734	109.7	143,323	34,436	365,649	282,107	570,613	806,574	809,860	56,700	1,205,659	320	46,747	
September.....	302,490	97.7	154,928	43,886	301,330	274,568	522,803	665,531	653,890	64,917	1,071,150	298	40,889	
October.....	319,660	95.3	169,390	63,174	291,135	258,810	478,038	629,976	638,681	56,212	901,621	263	39,296	
November.....	204,071	65.8	178,736	71,680	207,200	134,391	395,696	572,621	567,257	61,576	993,601	159	27,648	
December.....	181,916	60.0	173,619	72,611	178,575	234,599	443,127	624,365	618,003	66,883	1,340,028	175	23,705	
<b>1930</b>														
January.....	291,529	77.6	191,532	73,948	241,677	382,182	558,412	650,764	643,120	74,527	1,606,286	287	35,845	
February.....	275,952	83.9	201,609	75,771	241,441	203,315	517,215	648,709	643,324	79,912	1,592,982	295	37,745	
March.....	289,658	73.7	192,317	75,847	275,235	299,764	524,230	842,186	856,451	65,647	1,897,913	315	36,487	
April.....	308,988	84.0	208,374	81,671	291,601	300,086	526,827	769,061	766,617	68,091	1,691,461	310	38,557	
May.....	274,220	73.3	204,102	85,585	266,436	204,589	461,756	731,087	736,147	63,031	1,454,601	290	33,010	
June.....	205,675	58.8	200,589	83,988	212,930	187,412	431,324	651,559	638,358	76,232	1,290,412	228	27,388	
July.....	186,206	50.4	202,682	82,708	194,767	207,400	432,298							
August.....														
September.....														
October.....														
November.....														
December.....														

\* Monthly data from 1919 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 23, 24, and 34.

<sup>1</sup> Compiled by the *National Association of Flat Rolled Steel Manufacturers*, representing almost all the independent sheet manufacturers ranging in capacity from 59 per cent in 1921 to 75 per cent in 1925, the total capacity of the hot mills in the United States being given by the association as 365,000 short tons at the end of 1921 and 464,000 tons in April, 1928.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from the reports of 30 identical establishments, operating 35 plants, except for figures on percentage of capacity operated prior to October, 1926, which were compiled by the *Steel Barrel Manufacturers' Institute*, from 14 to 23 members of the institute, no data being collected from November, 1923, to November, 1924, inclusive.

<sup>3</sup> Compiled by the *Commercial Lock Washer Statistical Bureau* from reports of 7 firms.

<sup>4</sup> Compiled by the *Cold Finished Steel Bar Institute*, from reports of 8 manufacturers, estimated to represent from 60 to 70 per cent of the industry.

<sup>5</sup> Due to change in capacity rating, increasing the rated capacities by about 11 per cent, the percentage ratios beginning with September, 1927, are not comparable with previous ratios.

<sup>6</sup> 6 months' average.

Table 18.—IRON AND STEEL CASTINGS\*

YEAR AND MONTH	MALLEABLE CASTINGS <sup>1</sup>				STEEL CASTINGS <sup>2</sup>								TRACK WORK <sup>3</sup>	OHIO FOUNDRY IRON <sup>4</sup>				
	Production		Shipments	New orders	Production				New orders					Meltings		Total stocks, end of mo.	Rechts. of iron	
	Total	Ratio to capacity			Total	Ratio to capacity	Rail-road	Miscellaneous	Total	Ratio to capacity	Rail-road	Miscellaneous	Production	Actual	Ratio to normal			
	Short tons	Per cent	Short tons		Per cent	Short tons		Per cent	Short tons		Long tons	Per cent of normal meltings						
1921 mo. average.....													7,791	51.8				
1922 mo. average.....													12,183	51.8	93	37		
1923 mo. average.....	71,111	62.3	67,998	55,563					97,304	75	46,540	50,764	17,639	20,502	73.8	89	58	
1924 mo. average.....	57,477	48.4	56,125	55,539					83,414	62	43,090	40,324	12,781	19,622	67.6	85	52	
1925 mo. average.....	66,100	55.3	66,181	62,563					81,779	60	35,304	46,475	14,283	18,632	77.8	91	66	
1926 mo. average.....	64,716	56.6	62,645	59,398	94,988	68	35,585	59,404	86,640	62	33,745	52,895	16,417	17,660	81.9	91	71	
1927 mo. average.....	58,064	53.8	57,291	56,066	80,734	56	30,888	49,846	76,910	53	32,009	44,901	13,386	15,397	81.9	99	73	
1928 mo. average.....	64,956	67.9	62,728	63,241	85,156	58	30,964	54,192	83,352	57	32,489	50,864	11,637	16,170	98.6	136	101	
1929 mo. average.....	68,738	71.4	68,179	65,490	112,969	78	48,039	64,930	111,670	77	49,825	61,845	13,510	20,417	104.2	123	102	
<b>1928</b>																		
May.....	67,903	70.7	65,823	63,847	93,333	63	36,599	56,734	86,796	59	34,995	51,801	14,141	13,857	103.3	150	106	
June.....	67,090	69.9	66,737	61,071	91,746	62	30,742	61,004	72,107	49	22,597	49,510	13,716	19,382	105.0	147	99	
July.....	60,290	63.1	60,084	60,964	78,648	53	27,501	51,147	66,992	45	20,483	46,509	11,776	19,967	103.0	127	107	
August.....	68,606	72.1	66,962	66,128	87,742	60	27,157	60,585	81,286	55	25,171	56,115	11,040	12,932	103.4	129	99	
September.....	62,665	66.3	61,736	61,163	75,761	51	25,311	50,450	82,762	56	35,234	47,528	10,767	14,586	90.2	131	90	
October.....	70,054	73.4	63,510	65,780	87,952	60	29,471	58,481	78,860	54	26,736	52,124	9,493	20,112	103.9	134	104	
November.....	63,569	66.8	63,346	59,664	82,385	56	30,799	51,586	84,742	58	34,545	50,197	8,379	17,249	91.6	130	95	
December.....	59,428	63.4	56,867	61,182	82,119	56	26,484	55,635	96,318	65	43,928	52,390	11,061	14,284	78.5	124	85	
<b>1929</b>																		
January.....	73,125	77.7	77,231	76,787	93,413	64	35,689	57,724	124,313	85	64,809	59,504	10,344	19,710	104.2	126	105	
February.....	73,875	77.1	71,093	77,976	97,568	67	40,282	57,286	115,639	79	58,903	56,736	12,180	23,037	103.3	121	107	
March.....	83,365	87.7	81,063	86,744	115,163	79	49,562	65,601	130,836	90	60,743	70,093	14,927	20,662	108.8	133	107	
April.....	83,744	88.1	80,968	80,777	121,941	84	53,458	68,483	144,616	99	75,625	68,991	16,815	23,703	113.1	122	102	
May.....	81,641	83.7	80,527	76,949	127,189	87	58,636	68,553	113,329	78	44,919	68,410	16,333	23,588	114.6	118	112	
June.....	72,232	74.9	72,346	65,315	116,221	80	54,154	62,067	95,201	65	34,947	60,254	14,838	21,214	110.6	131	105	
July.....	70,600	73.5	69,618	61,358	118,100	81	51,989	66,111	103,356	71	37,731	65,625	13,844	19,508	105.3	131	99	
August.....	69,173	70.6	69,824	62,541	121,238	83	53,328	67,910	101,777	70	38,986	62,791	14,818	18,670	109.1	120	113	
September.....	59,087	61.2	62,571	52,647	106,995	73	44,609	62,382	86,584	59	33,463	53,121	12,962	20,081	102.5	130	100	
October.....	65,526	66.7	58,733	61,164	120,937	83	50,012	70,835	136,208	94	72,432	63,776	12,902	23,855	115.6	117	112	
November.....	46,459	47.7	46,487	40,145	110,297	76	49,994	60,303	97,888	67	41,361	56,527	11,326	17,196	90.0	109	84	
December.....	46,029	47.3	47,689	43,475	106,569	73	34,667	71,902	90,287	62	33,980	56,307	10,826	13,782	73.5	118	73	
<b>1930</b>																		
January.....	61,381	61.6	57,820	58,009	109,296	76	48,292	61,004	101,728	70	42,502	59,226	11,830	15,419	82.4	129	88	
February.....	65,942	67.4	59,971	61,606	107,897	75	44,652	63,245	114,727	80	55,310	59,417	12,524	16,012	90.2	145	101	
March.....	63,464	64.6	65,164	60,915	113,737	79	47,813	65,924	122,658	85	54,063	68,595	13,096	15,778	94.8	126	87	
April.....	61,898	63.1	60,749	54,564	110,903	77	45,463	65,440	93,200	65	35,457	57,743	13,508	20,101	99.0	125	96	
May.....	62,035	53.6	60,884	54,685	105,242	73	43,341	61,901	91,307	63	42,051	49,256	12,779	16,703	85.2	131	91	
June.....	39,526	40.2	43,966	33,961	90,985	63	32,793	58,192	61,358	43	13,714	47,644	10,553					
July.....	31,099	31.1	32,422	34,731	79,029	55	26,060	52,969	57,923	40	14,908	43,248	8,774					
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

\* Monthly data from 1920 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 28 to 31.

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, representing reports from 130 identical establishments, covering most of the industry. New orders, however, are furnished by only 122 firms.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 130 identical firms, including reports collected through the *Steel Founders' Society*. These firms have a monthly capacity of 147,400 tons, at present representing over 80 per cent of the capacity of the industry for commercial castings (as distinguished from castings used in further manufacture in the same plant), of which 67,700 tons is usually devoted to railway specialties and represents the complete capacity of that branch, while 79,700 tons is generally devoted to miscellaneous castings. New orders for 1925 were 6 per cent larger than the production of direct steel castings manufactured for sale and interplant transfer by steel works and rolling mills and represented 93 per cent of the total of these direct steel castings and of steel castings manufactured in the foundry and machine-shop industry, according to the census of manufacturers for 1925. Railway specialties include such items as bolsters, sidearms, draft arms, couplers, and cast-steel car wheels. Owing to reports from additional firms, these figures represent revisions of those shown in the *Record Book of Business Statistics, Metals and Machinery Section*. The revisions in detail appeared in the March, 1928, issue (No. 79), p. 20, including annual averages from 1913 through 1920.

<sup>3</sup> Compiled by the *American Iron and Steel Institute* and covers the production of T-rail track of 60 pounds per yard and heavier, including all special or fabricated T-rail track work (switches, switch stands, frogs, crossings, guard rails, and appurtenances) of carbon steel, manganese steel, and other metals for both domestic and export use. Monthly figures are available only from the beginning of 1925.

<sup>4</sup> Compiled by the *Ohio State Foundrymen's Association*, from reports of from 40 to 70 gray iron foundries in Ohio. Owing to the varying capacity of the firms reporting each month, from 17,000 to 32,000 tons, the data on stocks and receipts have been converted to a percentage basis for better comparison. Details as to class of receipts and stocks are shown in the association's reports.

<sup>5</sup> 10 months' average.

Table 19.—CAST-IRON PRODUCTS

YEAR AND MONTH	CAST-IRON BOILERS AND RADIATORS <sup>1</sup>												GAS-FIRED BOILERS <sup>1</sup>						
	Round Boilers				Square Boilers				Radiators				Shipments	Pro-duction	Stocks, end of mo.				
	Pro-duction	Ship-ments	New orders	Stocks, end of mo.	Pro-duction	Ship-ments	New orders	Stocks, end of mo.	Pro-duction	Ship-ments	New orders	Stocks, end of mo.							
	Thousands of pounds								Thous. of sq. feet of heating surface				Dollars	Thousands of B. t. u.					
1923 mo. av.	16,848	16,177	-----	-----	17,652	16,641	-----	-----	12,670	11,939	-----	-----	-----	-----	-----	-----	-----	-----	
1924 mo. av.	18,126	17,339	-----	-----	18,753	17,354	-----	-----	12,623	12,304	-----	-----	-----	-----	-----	-----	-----	-----	
1925 mo. av.	19,526	18,935	-----	-----	20,903	20,480	-----	-----	13,486	13,769	-----	-----	-----	-----	-----	-----	-----	-----	
1926 mo. av.	19,444	20,412	20,917	93,973	20,596	21,561	22,729	97,756	14,519	14,349	16,325	43,024	191,112	-----	-----	-----	-----	-----	
1927 mo. av.	20,445	18,900	18,844	103,668	23,189	21,455	20,973	103,818	14,786	13,503	13,717	52,775	225,233	-----	-----	-----	-----	-----	
1928 mo. av.	13,171	13,547	13,141	83,989	28,315	27,978	28,156	155,875	13,362	13,457	14,006	65,811	221,995	179,461	161,998	801,559	-----	-----	
1929 mo. av.	11,380	12,163	11,027	79,101	22,805	21,853	21,204	155,915	10,594	10,617	10,787	61,934	296,559	236,575	239,172	876,427	-----	-----	
<b>1927</b>																			
September	22,733	22,311	20,340	113,561	29,682	30,687	25,112	111,499	17,453	17,304	15,768	58,887	-----	-----	-----	-----	-----	-----	
October	19,865	25,734	25,917	104,301	24,758	31,156	30,400	110,647	14,088	18,156	19,683	55,030	-----	-----	-----	-----	-----	-----	
November	14,437	19,972	17,740	99,284	22,575	29,156	24,812	101,990	11,251	17,540	16,154	49,302	-----	-----	-----	-----	-----	-----	
December	10,023	13,185	11,346	95,453	18,265	21,637	16,781	97,619	11,539	13,193	11,772	53,793	-----	-----	-----	-----	-----	-----	
<b>1928</b>																			
January	9,037	11,009	11,511	79,400	24,743	19,292	18,230	120,522	12,581	10,661	9,990	48,714	96,589	86,892	132,733	846,845	-----	-----	
February	13,341	10,620	10,566	81,894	29,068	18,099	19,466	131,341	14,774	9,357	12,139	54,353	128,824	103,250	165,901	880,423	-----	-----	
March	15,631	10,407	11,238	87,666	36,544	16,474	17,006	151,678	18,039	7,994	8,792	64,467	177,859	147,845	217,385	923,617	-----	-----	
April	12,452	9,280	9,554	90,529	28,994	15,787	15,582	164,514	13,651	7,541	8,928	70,845	161,976	119,354	161,317	983,786	-----	-----	
May	14,232	12,166	14,888	91,098	34,790	20,268	29,021	181,972	16,513	9,730	13,572	77,926	162,167	122,843	164,434	993,425	-----	-----	
June	12,094	13,071	14,765	89,728	31,238	25,165	29,779	188,078	13,363	11,065	12,394	79,549	230,250	182,195	135,711	960,656	-----	-----	
July	10,581	12,302	12,950	87,993	19,541	28,247	32,164	179,539	11,388	13,285	14,844	78,279	266,627	224,098	125,000	852,822	-----	-----	
August	12,881	14,422	12,551	86,141	38,693	36,212	31,809	182,367	15,914	16,951	15,753	77,267	288,954	239,048	168,547	778,337	-----	-----	
September	13,655	17,021	14,504	82,931	26,760	41,989	36,527	167,063	13,770	18,092	16,533	72,902	395,265	322,000	169,376	622,687	-----	-----	
October	17,953	22,621	19,819	78,349	30,098	52,505	53,522	145,051	12,853	23,062	23,394	63,082	351,367	274,760	187,196	596,143	-----	-----	
November	16,846	17,362	13,252	77,785	26,770	36,328	28,502	135,889	10,825	19,219	16,931	54,776	250,315	202,868	233,073	598,518	-----	-----	
December	9,345	12,281	12,096	74,352	12,542	25,368	26,268	122,487	6,870	13,932	14,798	47,572	153,744	128,380	83,300	581,451	-----	-----	
<b>1929</b>																			
January	11,248	9,605	8,224	77,015	32,938	17,888	15,866	136,986	14,512	9,407	8,998	52,599	115,100	88,463	202,075	704,041	-----	-----	
February	12,488	7,676	7,071	80,880	31,631	14,269	13,111	153,759	14,354	7,316	7,315	59,721	129,966	100,888	186,770	706,569	-----	-----	
March	12,248	7,208	6,151	86,526	28,429	11,476	11,844	170,212	13,182	6,116	6,062	66,903	239,879	171,048	177,375	825,707	-----	-----	
April	10,184	8,603	7,920	87,971	20,414	12,264	13,616	177,755	10,653	6,443	8,238	71,284	262,914	202,358	350,409	916,004	-----	-----	
May	11,212	9,682	9,143	89,104	19,410	14,946	15,034	181,998	10,641	7,900	8,178	74,067	190,295	149,555	298,794	939,481	-----	-----	
June	10,578	10,171	9,059	89,437	16,119	17,458	18,421	179,900	9,364	9,226	9,603	74,189	285,223	213,780	271,330	1,197,768	-----	-----	
July	8,997	13,553	14,490	84,027	11,598	22,927	26,039	169,044	6,756	11,729	13,621	69,277	315,696	254,856	248,993	1,115,865	-----	-----	
August	12,189	15,092	13,916	81,162	19,014	28,757	27,242	159,661	10,365	13,665	14,267	65,792	486,659	365,280	235,877	951,598	-----	-----	
September	11,602	18,263	16,936	74,254	20,766	34,671	36,481	145,716	9,545	14,980	15,680	59,794	549,424	459,124	306,158	885,625	-----	-----	
October	15,407	23,487	19,583	66,509	32,819	43,185	35,715	135,030	12,299	18,214	16,148	53,715	522,400	427,629	317,234	808,223	-----	-----	
November	11,430	12,162	10,652	66,476	23,521	24,382	23,109	134,117	8,634	12,501	12,648	49,500	273,092	241,285	187,095	764,098	-----	-----	
December	8,972	10,453	9,184	65,555	17,398	20,010	17,972	126,800	6,821	9,905	8,681	46,371	188,063	164,635	87,949	702,144	-----	-----	
<b>1930</b>																			
January	10,356	7,304	6,366	67,836	20,033	13,836	13,345	132,837	9,253	6,047	6,276	49,717	118,418	100,030	215,939	845,210	-----	-----	
February	10,659	5,516	5,158	78,404	21,355	10,191	10,415	143,638	9,222	4,433	4,845	54,589	111,401	91,644	188,190	917,929	-----	-----	
March	9,858	4,935	4,805	78,787	21,008	8,854	10,613	155,335	8,518	3,912	5,085	59,064	175,912	151,380	182,837	856,070	-----	-----	
April	9,934	5,853	4,988	76,232	21,988	9,433	8,923	173,605	7,898	4,259	4,411	62,747	323,434	259,442	169,086	715,889	-----	-----	
May	8,398	5,898	5,368	78,908	15,567	11,249	11,047	177,674	7,639	5,047	5,331	65,309	184,795	155,282	251,027	840,004	-----	-----	
June	7,103	6,342	6,874	79,605	14,493	14,384	16,044	177,376	5,873	6,154	7,296	65,034	312,950	260,123	367,022	933,478	-----	-----	
July	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
August	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the *National Boiler and Radiator Manufacturers' Association*, from reports of 30 firms, 15 reporting on cast-iron radiators and 25 reporting on cast-iron boilers (both round and square), both estimated to represent over 90 per cent of the industry. The data for 1923 and 1924 are not available by months.

<sup>2</sup> Compiled by the *Gas Heating Boiler and Furnace Association* from reports of 8 manufacturers of industrial gas-fired heating boilers, estimated to represent about 75 per cent of the industry. The annual shipments for 1925, 1926, and 1927 include furnaces as well as boilers, but furnaces form only a small proportion of the total.

Table 20.—HOUSEHOLD MACHINERY, FUEL PULVERIZERS AND PUMPS \*

YEAR AND MONTH	VACUUM-CLEANERS <sup>1</sup>	WATER-SOFTENING APPARATUS <sup>2</sup>	WATER SYSTEMS <sup>3</sup>	PUMPS			PATENTS GRANTED <sup>6</sup>			PULVERIZED FUEL EQUIPMENT <sup>7</sup>									
				Domestic <sup>4</sup>		Steam, power, and centrifugal <sup>5</sup>			Total, all classes	Agricultural implements	Internal-combustion engines	Central system			Unit system				
				Pitcher, hand, and wind-mill	Power, horizontal type	New orders	Shipments	Un-filled orders, end of mo.				Water-tube boilers	Fire-tube boilers	Marine boilers and kilns	Water-tube boilers	Fire-tube boilers	Marine boilers and kilns		
				Shipments				Thousands of dollars			Number			Number of pulverizers					
Number	Number of units			Thousands of dollars			Number			Number of pulverizers									
1919 monthly av.....						\$1,882	\$1,462	\$6,076	3,073	68	65								
1920 monthly av.....						2,674	2,543	12,653	3,097	65	73								
1921 monthly av.....						1,072	1,468	5,974	3,157	57	55								
1922 monthly av.....						1,406	1,254	4,631	3,201	49	49								
1923 monthly av.....	84,692					1,679	1,753	5,430	3,220	49	59								
1924 monthly av.....	75,297					1,212	1,260	1,252	3,550	52	58								
1925 monthly av.....	79,821					1,452	1,394	2,676	3,871	61	63								
1926 monthly av.....	88,786	1,446	7,198			1,582	1,552	3,273	3,729	53	51								
1927 monthly av.....	86,551	1,510	8,404			1,432	1,400	3,261	3,478	51	65								
1928 monthly av.....	84,955	1,349	9,824			1,500	1,447	3,236	3,531	41	53								
1929 monthly av.....		1,330	10,619			1,704	1,737	4,027	3,777	51	56								
<b>1928</b>																			
May.....	89,661	1,480	10,583			41,701	2,311	1,428	1,518	3,239	4,248	56	63						
June.....	75,631	1,235	11,487			46,281	2,355	1,505	1,640	3,088	4,275	24	42						
July.....	57,702	1,218	10,935			40,316	2,254	1,460	1,553	2,984	3,107	44	59						
August.....	65,164	1,402	11,248			50,689	2,531	1,579	1,520	3,023	3,390	29	48						
September.....	89,222	1,187	10,200			42,538	2,017	1,405	1,369	3,056	3,039	40	42						
October.....	96,528	1,505	11,367			42,315	2,732	1,708	1,634	3,128	4,323	59	67						
November.....	90,427	1,125	9,871			37,563	2,093	2,084	1,494	3,714	3,494	39	63						
December.....	114,272	928	8,053			44,330	2,124	1,424	1,593	3,538	3,309	34	54						
<b>1929</b>																			
January.....	71,335	1,080	7,935			50,723	2,265	1,695	1,481	3,800	3,835	47	51						
February.....	86,507	1,506	6,450			48,135	2,085	1,432	1,578	3,659	3,127	41	48						
March.....	123,650	1,510	9,322			48,081	1,988	1,878	1,608	3,912	3,357	42	50						
April.....	124,882	1,604	11,030			44,922	2,841	2,175	1,740	4,343	4,267	62	54						
May.....	116,192	1,444	12,348			40,915	2,528	1,772	1,886	4,058	3,861	62	50						
June.....	87,951	1,228	13,031			39,898	2,989	2,014	1,715	4,364	3,591	51	39						
July.....	62,750	1,177	12,268			39,586	2,768	1,778	1,849	4,282	4,054	53	92						
August.....	92,537	1,581	14,200			52,451	2,902	1,819	1,978	4,115	3,533	51	55						
September.....		1,484	12,600			48,039	2,262	1,628	1,774	4,053	3,081	51	44						
October.....		1,450	12,254			41,566	2,532	1,868	1,934	3,981	4,462	63	86						
November.....		1,068	8,758			35,062	1,786	1,533	1,535	3,975	3,519	43	40						
December.....		831	7,237			37,849	1,601	1,580	1,763	3,787	4,634	49	62						
<b>1930</b>																			
January.....		1,240	8,307			44,389	1,449	1,437	1,330	3,842	3,163	40	42	1		5	52	6	1
February.....		1,141	7,881			49,127	1,965	1,362	1,410	3,794	3,592	38	57	2		1	29	2	1
March.....		1,391	8,930			42,936	2,562	1,465	1,483	3,825	3,349	56	81	2		2	16	3	6
April.....		1,554	10,104			35,986	2,396	1,467	1,558	3,722	4,645	60	73			1	31	3	8
May.....		1,279	11,598			38,958	2,628	1,535	1,641	3,605	3,932	49	59	3		2	30		7
June.....		752	10,853			29,361	3,018	1,291	1,644	3,250	7,670	109	144	1			15		6
July.....											3,452	51	52	2		3	12		1
August.....																			
September.....																			
October.....																			
November.....																			
December.....																			

\* Monthly data from 1913 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 43 to 46.

<sup>1</sup> Compiled by the *Vacuum Cleaner Manufacturers' Association* from companies representing about 90 per cent of the industry.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from reports of 21 manufacturers, covering domestic water-softening apparatus. Values of shipments are given in press releases and appeared in the November, 1927, issue (No. 75), p. 27.

<sup>3</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from reports of 32 manufacturers. Details by classes are given in press releases.

<sup>4</sup> Compiled through 1926 by the *Federal Reserve Bank of Chicago*, covering 22 firms in 1922 and 1923 and 19 firms thereafter. Beginning with 1927, these data have been compiled by the *U. S. Department of Commerce, Bureau of the Census*, from practically the same number of firms. Details by classes, showing units and values as between domestic and foreign shipments, are shown in monthly press releases.

<sup>5</sup> Compiled from data furnished by the *Hydraulic Society*, the original figures being prorated to compare with reports from 23 identical firms beginning with April, 1925. The number of members reporting gradually increased from 14 in 1919, representing about two-thirds of the 1925 membership, until the full 23 companies reported. These totals are believed to represent about two-thirds of the industry, and in 1923 these shipments represented about 23 per cent of the total production of all pumps and pumping machinery according to the census of manufactures. Details are given in the association's reports as to single steam pumps, duplex steam pumps, power pumps, centrifugal pumps, and reciprocating deep-well pumps.

<sup>6</sup> Patents granted compiled from the official records on file in the *U. S. Department of Commerce, U. S. Patent Office, Division of Publications*; inasmuch as patents are granted on Tuesdays only, the number of patents shown for a given month represents the total of either four or five Tuesdays. Monthly data from 1913 appeared in April, 1923, issue (No. 20), p. 48, except for internal-combustion engines, which appeared in June, 1923, issue (No. 22), p. 52. Agricultural implements patents fall within the official classification of "Agricultural implements; planters, harrows and diggers, plows, harvesters, scattering unloaders, and threshing implements."

<sup>7</sup> Compiled by the *Department of Commerce, Bureau of the Census*, from reports of 12 manufacturers, and represent practically the entire industry. Statistics are shown in greater detail in monthly press releases.

<sup>8</sup> 11 months' average.

Table 21.—INDUSTRIAL MACHINERY \*

YEAR AND MONTH	FOUNDRY EQUIPMENT <sup>1</sup>			STOKERS <sup>2</sup>		MACHINE TOOLS <sup>3</sup>			ELECTRIC HOISTS <sup>4</sup>			ELECTRIC OVERHEAD CRANES <sup>5</sup>			WOODWORKING MACHINERY <sup>6</sup>				
	New orders	Shipments	Un-filled orders, end of month	Sales (new orders)		New orders	Shipments	Un-filled orders, end mo.	New orders		Shipments		Shipments	New orders	Un-filled orders, end of month	New orders	Cancellations	Un-filled orders, end of month	Shipments
				Number	Total h. p.				Qty.	Value	Qty.	Value							
	Relative to average shipments, 1922-1924					Relative to average shipments, 1922-1924			No. of hoists	Dollars	Thousands of dollars						No. of machines		
1919 mo. av.				234	52,733	261													\$1,233
1920 mo. av.				183	65,920	202													1,777
1921 mo. av.	35.7			73	27,262	38						\$574	\$226		\$772	\$67	\$1,899		883
1922 mo. av.	93.1			130	60,409	77						316	575		1,415	30	2,494	1,304	1,122
1923 mo. av.	132.5			122	60,871	134						881	764		1,709	52	3,705	1,659	1,514
1924 mo. av.	104.7			94	42,857	94						785	742		1,460	47	2,681	1,515	1,144
1925 mo. av.	132.6	127.0	160.1	112	46,111	150	7,153	7,290	311	\$167,929	\$154,073	812	898		1,661	33	2,502	1,601	1,141
1926 mo. av.	141.1	143.9	170.0	113	45,519	162	167	294	300	160,016	165,089	977	974	\$4,036	1,555	30	1,925	1,584	1,210
1927 mo. av.	124.2	136.2	208.8	115	40,300	188	139	227	274	134,982	128,358	776	665	2,626	1,253	15	1,377	1,292	1,020
1928 mo. av.	173.3	156.9	311.6	124	42,391	237	204	418	437	203,998	188,661	594	633	1,872	1,413	35	1,814	1,351	1,002
1929 mo. av.	196.8	189.8	396.8	143	49,965	281	285	684	513	258,514	249,612	1,024	1,218	4,484	1,560	33	2,121	1,595	1,124
<b>1928</b>																			
September	170.0	129.7	529.5	161	65,060	265	205	441	447	228,510	172,986	464	713	2,188	1,639	26	2,265	1,413	1,050
October	185.0	254.3	462.6	100	27,219	284	221	504	405	209,594	202,829	806	775	2,165	1,585	140	2,035	1,666	1,170
November	197.8	264.0	403.9	116	30,938	290	242	563	522	258,867	215,863	701	725	2,189	1,295	21	1,838	1,502	985
December	166.5	234.6	333.8	102	49,212	274	245	596	475	188,693	211,815	623	559	2,092	1,360	36	1,792	1,353	957
<b>1929</b>																			
January	180.5	177.3	336.1	97	42,392	292	255	676	533	253,194	213,663	852	1,383	2,547	1,949	50	2,367	1,420	998
February	197.0	214.8	321.2	80	31,554	336	303	702	750	346,810	201,404	586	1,173	3,285	1,893	57	2,579	1,490	1,003
March	209.4	197.5	414.4	117	42,432	334	329	687	595	285,465	247,348	773	1,919	4,300	1,850	29	2,839	1,560	1,179
April	172.6	220.3	363.4	141	48,749	320	311	718	508	246,673	232,483	748	1,194	4,587	1,718	30	2,582	2,130	1,420
May	177.7	217.0	323.8	174	60,772	334	301	721	541	268,043	262,641	1,122	1,457	4,786	1,623	40	2,382	1,798	1,233
June	177.3	172.7	300.8	203	67,322	292	296	722	600	283,170	269,978	1,091	1,189	5,047	1,678	27	2,445	1,612	1,056
July	219.3	182.1	368.7	186	65,197	259	278	694	504	249,447	290,141	1,146	1,157	5,118	1,691	18	2,369	1,767	1,232
August	229.5	150.8	411.1	199	54,929	298	277	693	437	264,888	339,881	1,060	1,165	5,193	1,748	25	2,130	1,974	1,386
September	216.3	176.8	480.8	155	45,685	241	257	709	423	230,543	281,439	1,048	701	4,879	1,297	15	1,829	1,555	1,129
October	245.3	214.1	492.5	178	56,108	322	315	697	461	231,372	233,215	1,322	1,142	4,699	1,251	47	1,461	1,568	1,246
November	128.6	152.2	445.4	107	39,469	179	251	629	412	214,661	224,647	1,162	1,405	4,933	1,009	35	1,257	1,186	852
December	208.0	201.9	473.2	79	44,976	166	243	561	392	227,897	198,500	1,380	734	4,429	1,013	20	1,208	1,074	754
<b>1930</b>																			
January	160.1	223.6	395.6	53	13,198	182	183	565	369	194,832	220,678	977	406	3,765	1,111	12	1,347	967	759
February	196.4	169.6	424.7	73	22,648	170	214	541	387	184,502	222,107	773	832	3,836	1,120	64	1,488	934	536
March	164.1	194.5	411.1	89	32,403	181	227	454	402	200,167	232,968	1,059	851	3,525	950	46	1,101	1,290	833
April	122.8	217.4	291.0	108	35,903	179	234	407	432	220,132	206,013	825	882	3,739	716	31	763	1,026	603
May	92.7	149.4	179.3	96	31,956	135	197	355	337	179,103	191,685	880	596	3,490	779	11	785	723	577
June	102.1	160.5	166.7	151	47,803	126	176	282	265	128,197	181,049	956	741	3,249	836	10	705	913	615
July				150	37,761	91	128	235	217	122,978	147,503								
August																			
September																			
October																			
November																			
December																			

\* Monthly data from 1919 through 1926 on items on this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 40 to 42.

<sup>1</sup> Compiled by the *Foundry Equipment Manufacturers' Association* from reports of from 11 to 20 members, said to represent 65 to 70 per cent of the foundry equipment industry. The principal products are molding machines, sand-cutting machines, sand-blast machines, tumbling barrels, sand-mixing machines, cupolas, ladles, core-making machines, etc. The reports for each month are related to the average shipments of the reporting firms for 1922 to 1924 and are thus comparable, despite the difference in number of reporting firms. The association reports give detailed index numbers by sizes of firms but no numerical data.

<sup>2</sup> Stoker sales through December 1922, from the *Stoker Manufacturers' Association*, said to represent approximately 99 per cent of the industry; beginning with January, 1923, from reports to U. S. Department of Commerce, Bureau of the Census, from 13 manufacturers, representing practically the entire industry (15 prior to August, 1924, when 4 establishments consolidated into 2). Press releases show segregation as to installation under fire-tube or water-tube boilers.

<sup>3</sup> Compiled by the *National Machine Tool Builders' Association*, including quantity reports from between 50 and 60 firms, said to represent about one-third of the industry. This index based on average monthly shipments for the years 1922 to 1924 as 100, covers gross new orders, shipments, and unfilled orders at the end of the month. The association reports give detailed index numbers by sizes of firms but no numerical data. Detailed shipments data, since discontinued, appeared on p. 55 of the April, 1924, issue (No. 32).

<sup>4</sup> Compiled by the *Electric Hoist Manufacturers' Association* from the reports of 9 firms.

<sup>5</sup> Compiled by the *Electric Overhead Crane Institute*, from reports of 11 manufacturers, estimated to cover 98 per cent of the output of electric overhead cranes for factories, etc. Monthly data from January, 1925, appeared in the March, 1927, issue (No. 67), p. 26.

<sup>6</sup> Compiled by the *Association of Manufacturers of Wood Working Machinery* from reports of its members, averaging about 23 each month and varying from 20 to 27. The total shipments for 1925 represented 48 per cent of the value of woodworking machinery produced that year, according to the census of manufactures. The products comprised in this classification include band and scroll saws, band mills, band rip and resaws, borers, circular cut-off saws, circular resaws, circular rip saws, combination saws, dovetailers, gainers, grinders, hand planers and glue jointers, lathes, molders, mortisers, planers and matchers, sanders, sash and door machines, shapers, surfacers, tenoners, wheel machines, and woodworkers, besides miscellaneous woodworking machinery.

<sup>7</sup> 3 months' average.

<sup>8</sup> 6 months' average.

Table 22.—ENAMELED WARE<sup>1</sup>

YEAR AND MONTH	BATHS				LAVATORIES			SINKS			MISCELLANEOUS			TOTAL SMALL WARE <sup>2</sup>
	Shipments	Stocks, end mo.	New orders	Unfilled orders, end mo.	Shipments	Stocks, end mo.	New orders	Shipments	Stocks, end mo.	New orders	Shipments	Stocks, end mo.	New orders	Unfilled orders, end mo.
Number of pieces														
1913 monthly av....	39,831				47,754			53,428			31,555			
1914 monthly av....	42,450				49,527			57,789			34,655			
1915 monthly av....	46,977				55,769			70,626			29,367			
1916 monthly av....	51,181				65,230			74,293			40,887			
1917 monthly av....	33,172		<sup>3</sup> 21,980		44,888		<sup>3</sup> 30,063	48,419		<sup>3</sup> 29,197	22,201		<sup>3</sup> 15,176	
1918 monthly av....	19,432	60,530	21,514		32,620	132,369	34,322	32,846	145,329	33,422	23,331	77,034	25,427	
1919 monthly av....	34,625	41,684	69,872	123,163	45,768	138,791	73,612	54,584	124,873	88,018	28,383	79,129	42,671	283,860
1920 monthly av....	51,441	20,951	35,107	326,490	51,438	43,302	53,438	60,231	66,333	57,502	31,062	47,410	27,691	952,334
1921 monthly av....	41,510	75,324	40,911	49,907	58,169	109,318	56,315	66,458	111,764	64,577	33,640	89,394	31,803	180,320
1922 monthly av....	74,814	41,768	93,033	137,628	91,512	79,507	117,222	95,327	93,336	124,179	45,531	68,400	60,981	406,291
1923 monthly av....	90,396	35,439	97,316	253,957	110,479	56,408	121,891	114,146	59,188	127,919	57,913	51,260	63,290	913,480
1924 monthly av....	95,629	71,193	98,758	168,542	110,283	143,788	106,353	120,381	154,896	115,485	70,658	111,138	65,700	480,920
1925 monthly av....	110,460	106,995	115,841	104,126	127,356	217,056	131,741	129,233	266,823	133,381	62,289	171,306	58,535	250,646
1926 monthly av....	99,595	156,620	103,581	71,230	113,773	236,642	115,065	113,638	283,031	115,666	50,003	151,371	52,364	162,217
1927 monthly av....	94,267	156,297	95,572	41,972	104,305	229,945	106,019	109,496	268,582	111,251	46,978	133,968	46,532	112,930
1928 monthly av....	93,029	147,317	101,733	74,290	105,435	191,339	114,107	109,764	241,190	118,861	46,556	119,900	46,885	197,334
1929 monthly av....	78,088	179,872	80,166	50,321	93,031	219,563	94,624	96,316	275,833	98,243	37,993	134,433	38,918	173,002
<b>1928</b>														
May.....	125,522	135,793	127,780	136,238	141,458	183,173	139,110	143,791	239,678	145,004	53,353	113,088	55,012	342,397
June.....	119,297	120,723	113,017	121,061	131,623	173,898	138,113	128,298	227,929	128,368	48,221	111,141	47,197	315,920
July.....	111,067	113,430	101,603	101,560	120,600	164,830	104,262	122,593	213,539	116,236	48,550	110,330	41,605	274,135
August.....	103,878	122,167	96,876	68,263	114,070	161,276	102,140	116,497	216,338	96,830	54,003	95,958	41,692	174,072
September.....	86,342	134,749	76,074	53,303	94,383	168,211	89,126	101,777	216,255	99,749	44,910	103,509	44,707	155,483
October.....	93,174	147,656	90,665	44,842	99,250	180,651	91,575	111,740	230,725	110,396	46,129	116,110	43,899	129,154
November.....	68,783	165,738	72,677	45,561	79,218	195,323	81,693	89,309	242,837	92,490	44,159	125,108	37,852	130,873
December.....	58,425	175,104	63,756	39,182	71,607	207,940	68,293	73,623	258,426	74,700	34,971	128,259	28,838	118,100
<b>1929</b>														
January.....	69,415	188,738	66,991	35,073	81,701	230,527	80,614	93,321	276,037	86,866	41,197	137,588	42,036	111,258
February.....	66,221	207,324	73,997	42,556	80,420	255,596	88,671	79,162	304,051	88,647	33,974	141,960	37,136	171,204
March.....	82,897	215,000	99,039	54,746	94,321	278,137	107,878	97,429	318,069	107,127	36,152	149,013	40,050	151,113
April.....	93,894	208,512	99,070	58,015	104,199	273,284	114,819	109,748	312,209	128,629	40,544	147,990	45,588	183,072
May.....	94,452	197,472	89,944	49,870	104,471	257,245	102,187	108,081	313,022	111,580	35,616	145,277	33,781	174,981
June.....	89,388	181,677	82,349	41,644	101,900	246,575	92,709	102,709	298,739	94,446	42,061	142,411	41,817	154,243
July.....	99,705	162,694	119,670	61,118	108,077	223,657	140,109	114,051	273,463	138,064	44,762	133,265	54,131	214,996
August.....	101,050	152,349	116,532	74,973	125,920	192,213	146,983	120,018	254,210	142,536	48,554	126,626	53,402	259,787
September.....	77,374	152,107	58,574	55,984	96,210	172,442	72,088	103,097	233,532	83,672	37,205	119,359	28,924	207,826
October.....	65,530	162,465	56,855	47,525	85,889	176,319	71,967	93,446	243,409	78,600	38,630	123,220	34,254	174,176
November.....	50,417	166,397	46,374	41,776	66,951	173,570	56,899	68,675	243,685	63,073	28,557	123,138	27,606	152,527
December.....	46,715	163,728	52,592	40,568	66,300	155,189	60,575	65,947	234,340	55,271	27,642	122,228	26,074	120,843
<b>1930</b>														
January.....	40,967	173,523	32,558	29,774	53,122	163,283	40,836	58,343	251,446	49,776	24,288	112,355	23,009	86,492
February.....	46,204	179,512	64,732	49,637	60,604	166,257	101,866	62,531	269,193	91,417	25,519	117,074	29,113	161,842
March.....	59,887	179,910	68,672	56,420	81,226	170,666	85,929	79,997	248,198	83,457	33,284	145,345	36,638	167,528
April.....	60,072	182,616	55,366	51,740	74,526	176,181	66,905	75,176	260,237	70,101	34,212	145,544	33,791	152,304
May.....	59,554	181,903	49,226	41,412	72,171	192,197	59,967	75,123	261,556	62,189	35,096	132,563	31,456	122,626
June.....	52,353	182,192	54,833	43,918	62,521	197,056	64,802	61,270	261,491	62,175	27,334	132,146	27,268	126,144
July.....														
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, beginning with January, 1922, representing complete production as reported by 22 manufacturers, including the membership of the Enamelled Sanitary Ware Manufacturers Association, until its dissolution in February, 1928, after which all firms reported direct to the Bureau of the Census. A few small firms were unable to furnish complete reports prior to January, 1924. Data prior to 1922 are totals of the association reports, estimated to represent about 98 per cent of the industry at that time. Monthly data from 1917 through 1926 may be found in the Record Book of Business Statistics, Metals and Machinery Section, pp. 36 to 39.

<sup>2</sup> Small ware includes lavatories, sinks, and miscellaneous.

<sup>3</sup> 9 months' average, April to December, inclusive; previous data not available.



Table 23.—COPPER AND WIRE CLOTH\*

YEAR AND MONTH	COPPER									WIRE CLOTH <sup>4</sup>					
	Production <sup>1</sup>			World <sup>1</sup> production, blister	Domes- tic ship- ments, refined <sup>1</sup>	Exports, refined <sup>2</sup>	Stocks, end mo. <sup>1</sup> (N. and S. America)		Price, ingots, electro- lytic (N. Y.) <sup>3</sup>	Pro- duc- tion	Ship- ments	Stocks, end of mo.	New orders	Un- filled orders, end mo.	Make and hold orders, end mo.
	Mine	Smelter	Refined (N. and S. America)				Refined	Blister							
	Short tons									Doll. per lb.	Thousands of square feet				
1913 monthly average.	51,487	51,020				38,593			\$0.1527						
1914 monthly average.	47,851	47,922				35,003			.1360						
1915 monthly average.	62,003	57,834				28,362			.1703						
1916 monthly average.	83,578	80,327				31,906			.2720						
1917 monthly average.	78,976	78,588				46,194			.2718						
1918 monthly average.	79,584	79,522				30,398			.2481						
1919 monthly average.	50,514	53,601	77,300			21,413	297,928		.1869						
1920 monthly average.	51,023	50,378	69,615		52,179	25,888	270,151		.1746						
1921 monthly average.	19,667	23,938	44,766		25,605	26,178	337,989	206,377	.1250						
1922 monthly average.	41,154	47,131	65,736	79,554	45,829	30,326	188,211	177,928	.1338						
1923 monthly average.	61,564	69,478	96,990	112,971	61,293	33,859	120,427	244,509	.1442						
1924 monthly average.	66,115	74,872	108,361	121,624	62,782	45,692	128,918	241,659	.1303	358	418	1,062		401	
1925 monthly average.	70,176	78,944	112,692	128,406	69,264	44,212	82,726	248,213	.1404	438	418	1,140		323	
1926 monthly average.	72,709	82,014	120,038	133,374	75,181	39,244	73,390	266,704	.1380	491	468	1,070		356	
1927 monthly average.	69,165	80,721	123,042	141,196	68,737	43,625	96,728	254,895	.1292	455	420	1,236	398	278	383
1928 monthly average.	75,754	88,341	135,654	159,706	81,955	45,897	66,119	234,833	.1457	436	409	1,127	393	290	438
1929 monthly average.	83,850	98,272	150,988	178,034	93,284	40,359	88,789	250,992	.1811	455	414	1,037	415	373	553
<b>1929</b>															
January	86,325	101,151	154,472	178,783	100,135	52,523	62,749	245,210	.1660	461	412	1,064	376	302	486
February	84,735	95,234	141,385	167,090	98,771	49,896	55,213	241,085	.1773	411	305	1,077	410	325	494
March	93,698	107,253	163,561	192,792	105,860	43,745	52,968	242,341	.2126	473	439	1,085	1,172	789	743
April	94,902	110,313	161,285	196,820	99,051	45,842	57,494	253,509	.1950	509	441	1,137	247	497	689
May	93,392	108,961	161,784	192,589	93,743	36,949	70,412	262,229	.1778	536	518	1,120	262	495	618
June	82,354	95,339	156,447	174,586	95,258	40,852	83,140	251,481	.1778	456	404	1,084	244	249	568
July	79,229	94,690	153,513	174,507	98,720	33,876	97,729	239,470	.1778	438	461	1,049	345	405	507
August	78,885	91,735	148,648	173,430	96,970	36,811	104,372	241,678	.1778	498	434	978	302	211	480
September	79,402	92,538	134,343	174,135	98,043	42,978	94,751	253,519	.1778	373	394	928	333	242	435
October	82,575	97,405	152,840	175,360	105,729	44,502	88,401	254,786	.1778	422	417	933	454	257	499
November	75,934	94,861	145,376	170,585	68,979	27,524	126,919	258,192	.1778	441	367	973	504	302	570
December	74,772	89,789	138,203	165,728	58,150	28,807	171,320	268,406	.1778	437	377	1,021	336	402	546
<b>1930</b>															
January	67,838	84,451	132,374	155,848	69,932	24,808	203,404	270,209	.1778	486	437	1,051	435	246	485
February	59,196	74,094	121,195	140,083	61,879	24,427	233,123	264,249	.1778	423	351	1,099	423	303	561
March	61,216	78,514	127,064	148,944	73,644	20,034	256,020	266,561	.1778	421	395	1,108	342	243	564
April	60,450	76,777	124,531	145,595	50,017	24,796	301,338	269,623	.1562	418	395	1,130	453	220	555
May	60,238	75,936	132,183	148,788	75,760	40,186	308,646	265,106	.1276	401	359	1,145	378	252	540
June	56,743	69,155	124,821	145,797	71,887	34,960	316,762	253,834	.1205	370	395	1,107	360	232	565
July	54,249		123,179	143,615	75,436		322,039	242,212	.1102	373	347	1,118	378	279	525
August															
September															
October															
November															
December															

\* Monthly data from 1909 through 1926 on items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 48 to 50.

<sup>1</sup> Compiled by the *American Bureau of Metal Statistics*, except mine production prior to January, 1921, and smelter production prior to 1923, for which the annual data of the *U. S. Department of the Interior, Geological Survey*, have been used for monthly averages, and refined production, shipments, and all stocks from 1919 through 1923, compiled by the *Copper Export Association*. Data on mine production represent practically complete primary production of copper in the United States, the 1924 data representing 99 per cent of the annual total reported by the *Geological Survey*. World production of blister copper includes the smelter output of the United States, Mexico, Canada, Chile, Peru, Japan, Australia, Europe (in part), Belgian Congo, and Rhodesia. These countries produced about 95 per cent of the world's production in 1922; 96 per cent in 1923; 97 per cent in 1924 and 1925, and 98 per cent in 1926. Smelter production data are based on the production of blister copper by smelters in the United States from both domestic and imported ores, also from some scrap copper. Refined production data represent the total output of primary refined copper by refiners in North and South America. Domestic shipments (as distinguished from export) represent the movement of refined copper to the United States from 12 refineries located in both North and South America. Stocks of blister copper represent holdings in both North and South America, including copper "in process." Stocks of refined represent holdings at refineries in North and South America.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*, representing refined copper in pigs, ingots, bars, old and scrap, pipes, tubes, plates, sheets, and wire, except insulated wire and cable.

<sup>3</sup> Price of ingot copper, electrolytic, New York, based on averages of daily transaction compiled by the *Engineering and Mining Journal-Press*.

<sup>4</sup> Compiled by the *Wirecloth Manufacturers' Association*, from reports of 8 manufacturers of brass and bronze wire endless belts for paper manufacturers, and estimated to represent from 80 to 90 per cent of the industry. Details by sizes are given in the association's report. Make and hold orders are special goods made up and held until called for by the paper mills; the goods included in this item are not included in any other items in the table except production.

<sup>5</sup> 9 months' average. <sup>6</sup> 10 months' average. <sup>7</sup> 8 months' average, January, February, April, and May missing. <sup>8</sup> 11 months' average, January missing.

Table 24.—ELECTRICAL PRODUCTS

YEAR AND MONTH	ELECTRIC GOODS (qty.) <sup>1</sup>	ELECTRICAL PORCELAIN <sup>2</sup>			LAMINATED PHE-NOLIC PROD-UCTS <sup>3</sup>	ELECTRIC MOTORS <sup>4</sup> (direct current)		POWER SWITCHING EQUIPMENT <sup>5</sup>		OUTLET BOXES AND COVERS <sup>6</sup>	VULCAN-IZED FIBER <sup>7</sup>		INDUS-TRIAL RE-FLECTORS <sup>8</sup>	ELECTRICAL TRADE <sup>9</sup>					
		Shipments				1 to 200 H. P.		New orders			Ship-ments	Ship-ments		Consump-tion	Sales	Delinquent accounts			
	New orders	Stand-ard	Special	High tension	Ship-ments	New orders	Ship-ments	In-door	Out-door	Thous. of pieces			Thous. of dolls.			Thous. of lbs.	Units	Dollars	No. of firms
	Thous. of dolls.	Dollars													Number of pieces	Thous. of dolls.	Thous. of lbs.	Units	Dollars
1921 mo. av.																\$226,106	1,518		
1922 mo. av.	\$162,472															202,557	1,625		
1923 mo. av.	215,925															201,689	1,497		
1924 mo. av.	211,139	<sup>10</sup> \$71,607	<sup>10</sup> \$217,346	<sup>11</sup> \$131,171												186,770	1,518		
1925 mo. av.	228,059	125,447	153,779	35,091	\$723,692											196,747	1,547		
1926 mo. av.	245,522	90,371	151,503	43,497	661,358	\$844,597	\$871,130	\$105,453	\$224,972	<sup>12</sup> 1,457,461	\$902	2,879	<sup>13</sup> 147,498	179,179	1,499				
1927 mo. av.	231,681	77,036	142,807		651,948	781,250	770,695	94,612	299,873	2,254,198	743	2,404	127,886	187,018	1,518				
1928 mo. av.	257,430	90,949	129,441	512,259	1,023,517	828,500	773,240	135,555	367,594	2,732,919	621	2,740	128,301	170,897	1,333				
1929 mo. av.	322,539	111,118	157,200	<sup>12</sup> \$73,704	1,371,679	987,509	868,767	169,728	453,555	2,532,133	821	3,342	141,276	168,597	1,195				
<b>1928</b>																			
September...	264,466	112,210	129,587	493,067	1,243,476	957,093	781,472	118,301	281,502	2,915,560	568	2,362	126,151	140,637	1,220				
October.....		128,255	148,999	539,810	1,365,690	926,133	950,707	108,478	313,285	3,123,321	649	2,971	156,243	162,564	1,245				
November....		152,143	146,476	518,956	1,139,205	759,337	744,127	120,494	297,449	3,071,288	585	2,731	163,491	150,278	1,139				
December... 282,226		92,359	129,835	440,079	1,062,194	915,057	782,401	115,532	317,078	1,784,587	577	2,748	128,077	169,029	1,099				
<b>1929</b>																			
January.....		141,065	128,299	485,502	1,247,653	735,875	724,498	155,569	390,866	3,273,963	767	3,531	149,046	124,671	1,037				
February....		102,547	144,025	652,211	1,372,745	1,013,394	779,650	127,807	304,866	2,168,723	759	2,974	137,291	159,913	1,128				
March..... 322,425		105,716	185,908	735,865	1,299,437	942,665	703,848	162,578	521,874	2,688,191	828	3,006	134,751	207,896	1,351				
April.....		109,558	148,280	632,025	1,409,532	1,258,364	922,220	200,564	400,397	3,005,179	812	3,144	126,948	199,949	1,279				
May.....		110,326	159,785	679,579	1,477,523	854,349	1,038,218	246,171	460,749	2,931,583	827	3,693	153,716	189,067	1,285				
June..... 340,863		101,013	172,704	667,099	1,456,335	1,098,864	883,821	133,418	598,645	2,114,582	814	3,470	130,413	168,724	1,223				
July.....		139,240	168,066	632,172	1,732,023	811,575	854,986	208,495	520,058	2,587,786	878	3,489	124,466	146,166	1,027				
August.....		97,631	165,385		1,915,381	1,082,845	853,961	169,384	605,273	2,719,688	1,029	3,803	157,473	174,438	1,176				
September... 338,170		135,487	171,668		1,514,902	916,794	806,813	181,078	400,343	2,542,931	883	3,411	131,720	128,059	1,117				
October.....		123,222	176,323		1,644,570	1,214,044	1,089,590	175,077	503,226	2,850,984	942	4,013	179,068	167,129	1,392				
November....		109,258	144,652		772,482	921,543	860,552	130,408	371,592	2,036,381	718	2,999	137,942	172,495	1,152				
December... 288,696		58,354	121,308		617,565	999,790	907,048	146,189	384,769	1,465,610	599	2,576	132,476	184,652	1,170				
<b>1930</b>																			
January.....		135,413	127,830		819,629	910,301	800,654	159,869	464,069	2,448,375	723	2,770	130,369	240,428	1,486				
February....		87,952	116,754		773,205	878,612	755,074	135,513	346,035	1,921,846	613	2,492	106,021	233,176	1,465				
March..... 298,733		69,511	136,901		959,513	942,556	833,183	155,095	465,117	1,949,055	614	2,405	108,210	223,048	1,526				
April.....		69,308	127,295		910,651	931,822	875,083	191,277	476,943	2,217,558	622	2,759	107,040	203,572	1,493				
May.....		80,368	111,941		868,399	633,088	776,081	128,303	448,802	1,512,111	517	2,144	109,977	215,001	1,449				
June..... 276,756		72,825	116,935		925,006	935,040	673,415			1,702,958	541	1,967	134,783	157,821	1,066				
July.....														141,162	1,106				
August.....																			
September...																			
October.....																			
November....																			
December...																			

<sup>1</sup> Data compiled by the U. S. Department of Commerce, Bureau of the Census, from quarterly reports by 86 manufacturers of electrical goods. The data include non-electrical items made by electrical manufacturers and represented 60 per cent of the output of the electrical industry in 1925, according to the census of manufacturers. Quarterly data from 1922 through 1929 may be found in the Record Book of Business Statistics, Metals and Machinery Section, p. 47.

<sup>2</sup> Compiled by the National Electrical Manufacturers' Association, from reports of 12 firms estimated to produce 50 to 60 per cent of all standard porcelain (8 firms) 15 to 20 per cent of special porcelain (12 firms), and 10 per cent of high-tension porcelain (3 firms), except that beginning with July, 1927, a much larger proportion of the high-tension output is included.

<sup>3</sup> Compiled by the National Electrical Manufacturers' Association. This product is sold mostly in sheets, tubes, and cut panels and includes some material for noiseless automobile gears.

<sup>4</sup> Compiled by the National Electrical Manufacturers' Association, and comprise large power direct current electric motors of from 1 to 200 horsepower, inclusive, built in general purpose motor, frames including control equipment sold with motors. The data are estimated to represent about 85 per cent of the output of these kinds of motors.

<sup>5</sup> Compiled by the National Electrical Manufacturers' Association from reports of 11 firms estimated to represent about 90 per cent of the output of this product.

<sup>6</sup> Compiled by the National Electrical Manufacturers' Association from reports of 6 firms estimated to represent 75 per cent of the output of this product.

<sup>7</sup> Compiled by the National Electrical Manufacturers' Association. Shipments are exclusive of intercompany sales. Consumption represents total vulcanized fiber paper, both sheet and tube.

<sup>8</sup> Compiled by the National Electrical Manufacturers' Association from reports of 5 companies estimated to represent 85 per cent of the output of the product. Details by kind of reflector and wattage are given in the association's monthly reports. The reflectors shown here are only for industrial use, but most of them can be used either indoors or outdoors.

<sup>9</sup> Compiled by the National Electrical Credit Association from reports to its constituent regional associations by electrical manufacturers and jobbers. Monthly data from 1921 appeared in the May, 1924, issue (No. 33), p. 206.

<sup>10</sup> 6 months' average.

<sup>11</sup> 5 months' average.

<sup>12</sup> 7 months' average.

<sup>13</sup> 9 months' average.

<sup>14</sup> 11 months' average, February to December, inclusive.

Table 25.—ELECTRICAL PRODUCTS<sup>1</sup>

YEAR AND MONTH	POWER CABLES	FLEXIBLE CORDS		ELECTRICAL PORCELAIN			WELDING SETS		PANEL B'DS AND CABINETS	NON-METALLIC CONDUITS	ELECTRIC FURNACES	MANFD MICA		RADIO EQUIPMENT <sup>1</sup>							
	Shipments	Shipments	Stocks, end of month	Shipments			New orders		Shipments (qty.)	Shipments	New orders	Shipments	Unfilled orders end mo.	Stocks, dealers', end of quarter							
				Glazed nail knobs	Un-glazed nail knobs	Tubes	Single operat.	Multiple operat.						Receiving sets	Loud speakers	Batteries	Socket power units	Tubes			
	Thousands of feet			Thousands of pieces			Units		Thous. of dols.	Thous. of feet	Kilo-watts	Thousands of dollars	Number of pieces								
1926 mo. av.							134	11													
1927 mo. av.							135	15	\$812	9,487				\$80,635	\$72,483	\$338,433	\$46,543	\$580,825	\$38,011		
1928 mo. av.	2,003	43,938	45,171	3,423	1,830	1,904	236	25	1,261	7,445	5,344	\$273	\$285	73,082	59,501	244,078	24,576	595,981	38,109		
1929 mo. av.	2,267	46,056	52,972	4,064	2,233	1,717	319	8	1,466	6,686	7,249	262	276	94,337	102,528	183,117	5,708	851,490	85,739		
<b>1929</b>																					
May	1,986	48,324	55,771	4,160	3,202	2,025	387	8		8,242	6,562	303	302								
June	2,112	40,588	66,831	3,794	1,998	1,746	296	9	1,192	6,684	6,237	252	294	61,149	63,604	137,479	5,207	554,113	60,064		
July	2,366	45,114	58,486	8,301	2,426	3,330	282	5		7,320	6,932	254	326								
August	2,411	50,538	57,202	2,794	1,968	1,870	296	7		6,364	5,114	274	275								
September	2,676	45,422	55,980	4,146	2,250	1,729	341	9	1,650	6,954	4,105	263	235	98,705	109,728	171,535	5,196	848,353	86,624		
October	3,288	51,840	52,459	4,404	1,605	1,645	302	7		8,015	7,208	274	206								
November	2,297	43,897	48,305	3,797	2,121	1,439	248	7		6,180	3,218	179	167								
December	2,087	33,916	58,239	1,750	1,186	717	247	9	1,735	4,727	2,991	149	224	142,676	161,127	220,262	5,145	1,247,487	125,311		
<b>1930</b>																					
January	1,627	40,280	48,494	4,454	2,309	1,627	256	1		6,110	8,630	227	219								
February				2,701	1,863	1,291	280	5		4,383	4,015	206	230								
March				3,146	1,232	1,093	251	5	1,285	8,505	2,620	199	196								
April				2,930	1,400	928	261	9		7,660	12,458	241	178								
May				3,292	2,211	1,266	274	1		4,021	16,062	195	166								
June				2,464	1,524	1,140				4,021	3,665	162	137								
July																					
August																					
September																					
October																					
November																					
December																					

<sup>1</sup> Compiled by the *National Electrical Manufacturers' Association*, except for data on radio equipment. Data on paper-insulated, lead-covered power cables are reported by 9 companies, representing about 90 per cent of the industry, details by voltage being given in the association reports. Data on flexible cords are reported by 16 companies, representing about 75 per cent of the industry; details by sizes are presented in the association's reports. Data on electrical porcelain are furnished by 14 companies, representing about 75 per cent of the industry; details by package sizes, with price range and averages, are presented in the association's reports. Data on welding sets are furnished by 6 companies, representing about 90 per cent of the industry; no monthly figures are available for 1926. Details of single-operator variable voltage sets by ampere capacities are presented in the association's reports as well as the total ampere capacity of the multiple operator constant-potential sets. Data on panelboards and cabinets are reported by 9 companies, representing about 80 per cent of the industry from January, 1927, to March, 1928, and by 15 companies representing 85 per cent for March, 1928, and by 25 companies representing 95 per cent up to the present time. Data on nonmetallic conduits are furnished by 10 companies, representing about 90 per cent of the industry. Electric-furnace data are reported by 9 companies, representing about 90 per cent of the industry; these furnaces are for industrial use only, and are shown in number and value, classified, in the association's reports. Data on manufactured mica are reported by 6 companies, representing about 90 per cent of the industry.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*, in cooperation with the *National Electrical Manufacturers' Association*, from reports of about 7,500 retail dealers each quarter. Further details and segregation by States are shown in press releases. Similar data covering jobbers' stocks are also given in press releases of the bureau.

<sup>3</sup> 6 months' average.

<sup>4</sup> 11 months' average.

<sup>5</sup> 10 months' average.

<sup>6</sup> Average for 2 quarters.

NUMBER OF ELECTRIC FANS SOLD<sup>1</sup>

YEAR	Domestic	Export	YEAR	Domestic	Export
1916	270,604	31,860	1923 <sup>2</sup>	657,570	42,609
1917	386,314	44,231	1924 <sup>2</sup>	639,617	65,698
1918	576,934	43,749	1925 <sup>2</sup>	881,025	37,676
1919	583,964	48,631	1926 <sup>2</sup>	744,053	46,394
1920	704,494	103,757	1927 <sup>2</sup>	610,610	52,964
1921	494,740	36,801	1928 <sup>2</sup>	596,787	55,313
1922 <sup>2</sup>	547,454	41,899	1929 <sup>2</sup>	781,932	57,360

<sup>1</sup> Compiled by the *National Electrical Manufacturers' Association, Fan Motor Section*.

<sup>2</sup> For "fan-year" ending Sept. 30 of year indicated.

Table 26.—TIN, ZINC, AND LEAD \*

YEAR AND MONTH	TIN <sup>1</sup>				ZINC <sup>2</sup>						LEAD <sup>3</sup>							
	Deliveries	Stocks, end of month		Imports, bars, blocks, etc.	Price, Straits (New York) <sup>4</sup>	Retorts in operation, end of month	Production (total primary)	Stocks at refineries, end mo.	Ore shipments, Joplin district	Ore stocks, Joplin district, end mo.	Price, prime western (St. Louis) <sup>5</sup>	Production	Ore shipments		Receipts in U. S. ore	Stocks, U. S. and Mexico, end mo.	Price, pig, de-silverized (New York) <sup>5</sup>	
		World visible	U. S.										Joplin district	Utah				
	Long tons				Dolls. per lb.	Number	Short tons				Dolls. per lb.	Short tons				Dolls. per lb.		
1913 mo. av. ....	3,658	12,377	1,854	3,880	\$0.4432	105,684	28,890	40,659	22,449	-----	\$0.0550	-----	3,936	-----	-----	-----	\$0.0437	
1914 mo. av. ....	3,475	14,907	1,700	3,536	.3570	94,468	29,420	20,095	20,139	-----	.0506	-----	3,464	-----	-----	-----	.0386	
1915 mo. av. ....	4,063	15,208	2,079	4,302	.3866	156,568	40,793	14,253	23,530	-----	.1306	-----	3,734	-----	-----	-----	.0467	
1916 mo. av. ....	4,685	18,586	3,331	5,137	.4348	204,693	55,621	17,598	28,996	-----	.1264	-----	4,496	-----	-----	-----	.0686	
1917 mo. av. ....	4,823	18,803	2,284	5,344	.6165	136,639	55,798	53,721	33,546	-----	.0873	-----	5,264	-----	-----	-----	.0879	
1918 mo. av. ....	4,862	13,894	286	5,302	.8680	123,033	43,160	41,241	29,362	-----	.0789	-----	5,561	-----	-----	-----	.0750	
1919 mo. av. ....	2,692	12,890	1,630	3,337	.6554	100,830	38,250	37,485	33,622	-----	.0699	-----	5,683	-----	-----	-----	.0576	
1920 mo. av. ....	4,260	19,726	3,322	4,689	.5036	89,737	39,981	40,443	46,461	-----	.0775	-----	7,800	38,938	-----	-----	.0796	
1921 mo. av. ....	2,156	19,697	2,351	2,016	.3000	36,623	17,968	79,394	26,192	-----	.0466	31,381	5,700	21,181	30,692	-----	.0454	
1922 mo. av. ....	4,788	24,683	2,482	5,016	.3258	57,007	31,140	36,385	44,426	68,063	.0572	39,436	7,805	32,152	36,317	-----	.0573	
1923 mo. av. ....	5,846	21,740	2,667	5,745	.4271	84,634	44,267	20,422	58,126	58,649	.0669	44,768	7,522	43,349	44,231	-----	.0727	
1924 mo. av. ....	5,344	21,254	3,251	5,422	.5020	76,748	44,654	39,226	60,965	42,003	.0634	51,980	8,336	48,459	47,755	102,046	.0810	
1925 mo. av. ....	6,371	19,538	2,890	6,386	.5790	87,062	49,244	15,720	67,767	25,521	.0762	56,503	10,774	67,586	53,902	100,706	.0902	
1926 mo. av. ....	6,504	15,386	2,164	6,424	.6530	87,105	53,211	20,501	70,072	23,544	.0734	59,012	10,865	65,532	56,503	116,069	.0842	
1927 mo. av. ....	6,041	14,925	2,101	5,929	.6437	79,561	51,129	37,560	57,420	29,602	.0624	57,273	8,675	68,529	55,010	156,878	.0676	
1928 mo. av. ....	6,572	18,393	2,763	3,498	.5046	66,505	51,633	44,336	49,782	44,550	.0603	54,261	8,224	71,151	53,195	160,439	.0631	
1929 mo. av. ....	7,426	25,481	2,947	7,449	.4519	66,140	52,568	48,930	51,067	38,700	.0651	57,665	8,367	80,952	54,862	163,836	.0683	
<b>1928</b>																		
September.....	6,885	19,924	3,508	8,222	.4807	61,965	49,361	47,915	41,429	48,474	.0625	55,167	9,326	65,353	51,978	155,482	.0645	
October.....	6,475	20,907	4,598	8,048	.4901	59,832	50,259	46,068	41,165	53,209	.0625	58,118	10,514	71,887	55,610	152,746	.0650	
November.....	7,145	22,067	3,603	6,221	.5085	61,544	50,260	46,542	49,246	51,013	.0626	58,021	9,102	91,538	55,660	156,879	.0639	
December.....	7,155	24,563	2,428	5,250	.5021	61,544	50,591	45,441	79,308	25,760	.0635	57,225	10,374	67,395	53,953	161,460	.0650	
<b>1929</b>																		
January.....	8,795	24,237	2,611	9,498	.4916	63,698	50,501	46,887	48,777	27,309	.0635	58,607	6,097	71,412	53,881	156,182	.0665	
February.....	6,750	26,402	3,307	7,325	.4937	68,127	47,733	42,275	50,848	24,535	.0635	48,254	8,929	71,282	50,954	160,597	.0685	
March.....	8,175	26,632	2,550	7,435	.4885	68,015	55,008	39,320	72,206	20,969	.0646	59,298	13,329	101,763	57,197	158,149	.0745	
April.....	8,435	26,353	3,603	8,838	.4597	70,455	55,203	36,233	54,821	26,448	.0666	62,476	11,615	75,935	57,449	156,888	.0719	
May.....	8,480	24,765	3,464	8,902	.4392	70,533	57,475	35,482	37,961	40,957	.0662	62,119	8,424	96,688	58,140	162,255	.0700	
June.....	7,455	23,751	3,820	7,150	.4426	69,703	52,532	38,832	60,119	47,458	.0669	57,579	8,491	76,003	53,542	173,612	.0700	
July.....	6,865	23,789	3,087	5,621	.4640	69,911	54,447	45,336	48,995	39,813	.0677	56,924	5,373	66,083	54,865	173,549	.0680	
August.....	7,185	26,400	2,858	9,737	.4665	59,408	55,798	49,064	63,127	42,876	.0680	53,316	7,808	92,668	54,365	175,641	.0675	
September.....	8,120	24,556	2,479	7,712	.4538	69,468	51,994	53,856	45,084	43,832	.0680	56,807	7,461	75,927	54,623	168,707	.0689	
October.....	6,515	25,580	2,720	6,201	.4235	67,636	54,513	59,592	48,810	44,622	.0674	61,813	7,588	77,693	58,364	167,192	.0687	
November.....	6,595	25,171	2,050	5,818	.4022	58,723	48,411	64,855	42,418	57,943	.0624	59,760	8,850	89,545	51,674	161,671	.0629	
December.....	5,740	28,140	2,820	5,253	.3979	57,999	47,292	75,430	39,641	47,637	.0567	55,025	6,434	76,421	53,286	151,586	.0625	
<b>1930</b>																		
January.....	5,815	29,032	3,081	7,079	.3691	59,457	52,026	86,277	38,031	29,313	.0523	48,308	2,847	87,569	47,862	149,403	.0625	
February.....	4,940	33,581	3,626	5,460	.3867	57,929	44,645	88,433	35,095	25,531	.0518	51,362	3,477	69,489	49,009	140,845	.0624	
March.....	8,675	32,972	3,566	8,589	.3681	51,300	48,136	93,475	51,611	21,950	.0493	56,541	6,770	66,473	57,441	144,414	.0566	
April.....	6,780	36,595	5,687	8,209	.3607	50,038	44,450	97,086	27,214	28,486	.0484	51,765	2,450	64,966	49,388	-----	.0554	
May.....	5,710	39,771	6,767	8,829	.3213	52,072	44,578	102,775	52,454	20,602	.0464	53,656	5,100	77,372	49,530	-----	.0552	
June.....	5,885	42,611	7,728	6,793	.3030	52,428	43,473	109,578	41,819	19,553	.0444	5,975	-----	55,801	47,692	-----	.0541	
July.....	6,130	41,950	6,786	-----	.2081	46,030	40,038	117,381	-----	-----	.0435	-----	-----	45,194	-----	-----	.0525	
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

\* Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Metals and Machinery Section*, pp. 52 to 59, except for price of Straits tin, which appeared in the June, 1928, issue (No. 82), p. 23.

<sup>1</sup> Deliveries and stocks of tin from *New York Metal Exchange*. Stocks in the United States are at port warehouses in New York at the end of the month, while deliveries are from these warehouses and indicate approximate consumption. The world visible supply at the end of the month includes stocks in the United States, in Europe, and afloat. Imports of tin in bars, blocks, etc., from *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*.

<sup>2</sup> Production and stocks at refineries at end of month of total primary zinc and retorts in operation at end of month from *American Zinc Institute*. Ore shipments and stocks at Joplin district mines at end of month from the *Joplin Globe*. The Joplin or Tri-State district includes parts of Kansas, Missouri, and Oklahoma, and produces about 65 per cent of zinc ore mined in the United States. Shipments are recorded as loaded at mines by buyers for shipment to smelters.

<sup>3</sup> Production of crude lead (amount extracted from Mexican ore deducted), receipts of lead in United States ore, shipments of lead ore from Utah, and total subscribers' stocks in the United States and Mexico of ore, matte, base bullion, and refined lead, including antimonial, reported by the *American Bureau of Metal Statistics*. Shipments of lead ore from mines of the Joplin district from the *Joplin Globe*. Utah shipments are from the Park City, Bingham, and Tintic districts and represent totals for 4 weeks, with a fifth week added in certain months, this accounting for most of the larger fluctuations. Details by districts are given in the bureau's reports.

<sup>4</sup> Compiled by the *American Metal Market*, representing average weekly price of Straits tin at New York.

<sup>5</sup> Averages of daily prices from the *Engineering and Mining Journal-Press*.

<sup>6</sup> 5 months' average, August to December, inclusive.

Table 27.—MISCELLANEOUS METAL PRODUCTS AND OIL BURNERS

YEAR AND MONTH	BABBITT METAL <sup>1</sup>			GALVANIZED SHEET METAL WARE <sup>2</sup>				ENAMELED SHEET METAL WARE <sup>3</sup>	PORCELAIN ENAMELED FLATWARE <sup>4</sup>				OIL BURNERS <sup>5</sup>				
	Consumption			Pails and tubs		Other			New orders		Shipments		Shipments, total	Stocks, end of month	New orders	Un-filled orders, end of month	
	Total apparent	Direct by producers	Sale to consumers	Production	Shipments	Production	Shipments		Quantity	Ratio to capacity	Quantity	Ratio to capacity					
	Thousands of pounds			Dozens of pieces					Thous. of sq. feet	Per cent	Thous. of sq. feet	Per cent	Number of burners				
1924 monthly average.....																	
1925 monthly average.....	5,752	1,177	4,575						6,789	653	6,257	652					
1926 monthly average.....	5,495	1,282	4,213	119,159	118,806	44,675	43,291		5,884	47	6,329	51					
1927 monthly average.....	5,009	1,092	3,917	139,060	140,680	35,423	35,097	326,411	6,092	48	6,402	50					
1928 monthly average.....	4,973	1,028	3,945	149,635	146,950	42,952	40,118	349,313	5,914	51	6,001	52					
1929 monthly average.....	5,428	1,248	4,180	135,401	137,273	45,101	43,030	375,342					6,812	6,354	6,818	2,722	
<b>1928</b>																	
May.....	4,607	1,028	3,578	177,170	155,561	39,206	35,143	348,661	5,628	47	6,924	58					
June.....	4,731	1,106	3,625	141,448	144,385	48,038	44,833	299,078	5,477	49	5,322	47					
July.....	4,693	900	3,793	114,343	121,415	61,688	47,856	277,684	4,457	40	4,665	41					
August.....	4,756	939	3,817	127,797	142,487	37,846	44,377	358,811	6,233	55	5,495	49					
September.....	5,308	999	4,309	150,845	139,183	55,850	50,606	352,484	6,551	58	6,108	54					
October.....	5,796	1,191	4,605	153,813	152,258	56,469	54,596	417,387	7,428	66	7,700	68					
November.....	5,630	1,274	4,357	131,792	103,290	33,553	34,012	328,875	6,839	61	6,602	59					
December.....	4,986	837	4,149	112,923	102,802	36,042	23,567	322,339	5,101	45	5,153	46					
<b>1929</b>																	
January.....	6,093	1,217	4,876	151,106	165,745	40,649	36,896	427,871					3,037	4,494	3,508	1,322	
February.....	5,720	1,025	4,696	151,019	170,813	60,471	43,329	390,577					3,113	4,442	3,201	1,410	
March.....	6,466	1,346	5,120	211,252	211,516	50,055	49,549	449,425					4,137	4,898	4,510	1,783	
April.....	6,046	1,189	4,857	165,155	171,722	55,778	55,632	463,577					3,903	5,880	4,596	2,476	
May.....	5,479	1,230	4,249	176,622	150,501	43,370	38,597	352,885					4,474	6,097	4,529	2,531	
June.....	5,928	1,107	4,821	98,857	104,762	37,479	35,334	337,375					5,146	6,496	6,962	4,347	
July.....	5,361	1,313	4,048	105,454	109,841	42,384	44,117	290,532					6,520	7,739	6,854	4,681	
August.....	5,433	1,435	3,997	107,004	108,461	53,250	54,860	385,162					10,663	8,403	11,081	5,099	
September.....	5,225	1,337	3,888	113,698	120,297	46,594	52,970	338,169					13,723	7,900	12,633	4,009	
October.....	5,519	1,512	4,007	129,282	135,197	45,117	49,511	371,292					15,037	7,480	13,346	2,318	
November.....	4,522	1,316	3,206	102,400	90,684	32,951	30,123	305,714					7,213	6,486	6,661	1,766	
December.....	3,343	949	2,394	112,962	107,733	33,114	25,441	391,523					4,780	5,938	3,933	919	
<b>1930</b>																	
January.....	4,408	1,003	3,405	145,588	154,731	33,982	29,165	332,146					3,469	5,445	3,481	931	
February.....	3,427	901	2,526	119,739	129,853	35,121	31,536	331,915					2,954	6,349	3,479	1,456	
March.....	5,052	1,012	4,039	135,178	135,602	37,963	38,160	341,372					3,376	6,568	3,182	1,262	
April.....	3,868	1,030	2,839	131,015	120,552	44,058	44,276	318,431					3,923	6,386	3,718	1,057	
May.....	3,933	707	3,225	113,645	107,496	44,405	43,483	290,617					5,901	6,883	7,294	2,450	
June.....	3,703	1,156	2,547	89,932	82,956	40,646	33,140	247,861					5,305	8,563	5,256	2,473	
July.....																	
August.....																	
September.....																	
October.....																	
November.....																	
December.....																	

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 31 firms, comprising a large part of the industry. Consumption is calculated from sales by manufacturers and consumption by those firms (among them several important railroad systems) which consume their own production. These figures include all white-base friction bearing metals.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 12 firms, including data from the Sheet Metal Ware Association. The galvanized ware included here is the product resulting from dipping made-up shapes in molten zinc and not utensils of galvanized sheets. It is classified as follows: (a) Pails and tubs include well buckets, cement pails, sap pails, stock pails, fire pails, water pails, and washtubs, but not pails for shipping food or candy, food-container pails, etc. (b) Other galvanized ware includes steel baskets (but not wash boilers), ash and garbage cans, stable and street-cleaning cans, coal hods (including japanned hods), feed-measures, dry measures (including japanned), refrigerator pans, watering pots, oil and gasoline cans, chamber pails, and ash and garbage-can covers.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 18 manufacturers, comprising approximately 80 per cent of the industry. These reports include cooking, household, and hospital utensils having a vitreous coat on a steel sheet or iron base, and exclude equipment such as stoves, heaters, signs, etc. Details by class (white, gray, or colored), giving values, are shown in monthly press releases.

<sup>4</sup> Compiled by the Porcelain Enamel Manufacturers Association, from reports of 11 manufacturers of porcelain flatware, such as kitchen table tops, tub covers, outdoor advertising signs (of which 3 classes these figures are estimated to represent about 85 per cent of the industry's capacity), refrigerator linings, stove parts, etc. (for which classes these figures are estimated to represent from 70 to 75 per cent of the industry's capacity outside of stove and refrigerator manufacturers with their own enameling plants). The unit of measurement for these operations is the number of square feet of sheet metal passed through the furnace once.

<sup>5</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 50 manufacturers whose output represents 60 per cent of the total for the industry in 1927. Details, by class, are shown in monthly press releases of the bureau.

<sup>6</sup> 4 months' average.

Table 28.—AUTOMOBILES\*

YEAR AND MONTH	PRODUCTION <sup>1</sup>						EXPORTS <sup>2</sup>						GENERAL MOTORS CORP. <sup>3</sup>				
	United States			Canada			United States			Canada			Sales				
	Total	Pas-senger cars	Taxi-cabs	Trucks	Total	Pas-senger cars	Trucks	Complete or chassis			Complete or chassis			To dealers, inc. Canadian and overseas	United States		
								Total	Pas-senger cars	Trucks	Total	Pas-senger cars	Trucks		To consumers	To dealers	
Number of cars																	
1913 mo. av. . . . .	40,417	38,458	-----	1,958	-----	1,460	-----	2,241	2,157	84	-----	500	-----	-----	-----	-----	-----
1914 mo. av. . . . .	47,421	45,307	-----	2,115	-----	1,510	-----	2,147	1,861	286	-----	468	-----	-----	-----	-----	-----
1915 mo. av. . . . .	80,828	74,661	-----	6,167	-----	3,245	-----	5,330	3,489	1,841	-----	1,123	-----	-----	-----	-----	-----
1916 mo. av. . . . .	134,809	127,132	-----	7,678	-----	4,638	-----	6,737	5,160	1,577	-----	1,048	-----	-----	-----	-----	-----
1917 mo. av. . . . .	156,162	145,483	-----	10,680	-----	7,885	-----	6,686	5,480	1,207	-----	791	-----	-----	-----	-----	-----
1918 mo. av. . . . .	97,557	78,620	-----	18,938	-----	6,257	-----	3,937	3,078	859	-----	694	4 226	-----	-----	-----	-----
1919 mo. av. . . . .	161,133	138,138	-----	22,995	-----	6,661	-----	6,894	5,595	1,299	1,912	1,633	279	-----	-----	-----	-----
1920 mo. av. . . . .	185,612	158,797	-----	26,816	-----	6,970	-----	14,304	11,876	2,428	1,918	1,506	412	-----	-----	-----	-----
1921 mo. av. . . . .	133,069	121,093	-----	11,976	-----	5,091	2 297	3,203	2,579	623	894	775	118	-----	-----	-----	-----
1922 mo. av. . . . .	212,015	189,515	-----	22,499	8,504	7,909	596	6,520	5,566	954	3,163	2,950	214	38,064	-----	-----	-----
1923 mo. av. . . . .	336,168	302,060	-----	34,108	12,203	10,769	1,434	12,658	10,586	2,072	5,827	4,790	1,037	66,546	-----	-----	-----
1924 mo. av. . . . .	300,212	265,490	-----	34,722	11,271	9,814	1,457	14,894	12,015	2,279	4,721	3,657	1,064	48,945	-----	-----	-----
1925 mo. av. . . . .	355,486	310,646	618	44,223	13,498	11,298	2,200	25,244	20,359	4,885	6,182	4,834	1,349	69,659	-----	-----	-----
1926 mo. av. . . . .	358,411	314,822	510	43,079	17,061	13,738	3,323	25,452	19,878	5,573	6,194	4,469	1,725	102,904	-----	-----	-----
1927 mo. av. . . . .	283,444	244,264	447	38,733	14,921	12,236	2,686	32,016	23,229	8,787	4,785	3,325	1,460	130,229	-----	-----	-----
1928 mo. av. . . . .	363,230	317,392	559	43,279	20,199	16,395	3,803	42,329	30,756	11,573	6,646	4,664	1,981	150,901	-----	-----	-----
1929 mo. av. . . . .	446,535	380,818	1,466	64,252	21,941	17,292	4,650	44,977	28,539	16,438	8,476	5,405	3,071	158,272	-----	-----	-----
<b>1929</b>																	
January . . . . .	401,037	345,545	2,064	53,428	21,501	17,164	4,337	37,665	24,631	13,034	8,971	5,640	3,331	127,580	73,989	95,441	-----
February . . . . .	466,418	404,063	2,108	60,247	31,287	25,584	5,703	55,058	35,253	19,805	10,849	7,694	3,155	175,148	110,148	141,222	-----
March . . . . .	585,455	511,577	2,079	71,799	40,621	32,833	7,788	76,382	51,504	24,878	15,528	10,194	5,334	220,391	166,942	176,510	-----
April . . . . .	621,910	535,878	1,686	84,346	41,901	34,392	7,509	64,437	47,732	16,705	6,586	4,164	2,422	227,718	173,201	176,634	-----
May . . . . .	604,691	514,863	1,318	88,510	31,559	25,129	6,430	39,913	28,417	11,496	9,561	5,727	3,834	220,277	169,034	175,873	-----
June . . . . .	545,932	451,371	1,378	93,183	21,492	16,511	4,981	50,976	34,106	16,870	8,219	5,346	2,873	200,754	154,437	163,704	-----
July . . . . .	500,840	424,944	1,054	74,842	17,461	13,600	3,861	55,545	29,082	26,463	7,319	4,732	2,587	189,428	147,079	157,111	-----
August . . . . .	498,628	440,780	1,040	56,808	14,214	11,037	3,177	42,829	22,123	20,706	7,629	4,901	2,721	168,185	-----	-----	-----
September . . . . .	415,912	363,471	865	51,576	13,817	10,710	3,107	33,919	20,934	12,985	6,641	4,293	2,348	146,483	-----	-----	-----
October . . . . .	380,017	318,462	868	60,687	14,523	8,975	5,548	32,443	20,931	11,512	9,637	5,635	4,002	122,104	-----	-----	-----
November . . . . .	217,573	167,846	1,646	48,081	9,424	7,137	2,287	25,815	13,929	11,886	5,905	3,522	2,383	60,977	-----	-----	-----
December . . . . .	120,007	91,011	1,483	27,513	5,495	4,426	1,069	24,741	13,831	10,910	4,866	3,015	1,851	40,222	-----	-----	-----
<b>1930</b>																	
January . . . . .	275,374	236,145	572	38,657	10,388	8,856	1,532	28,169	15,293	12,876	2,953	1,317	1,636	106,509	74,167	94,458	-----
February . . . . .	346,940	296,461	1,022	49,457	15,548	13,021	2,527	25,482	18,732	6,750	4,237	2,498	1,739	126,196	88,742	110,904	-----
March . . . . .	401,313	335,720	1,389	64,204	20,730	17,165	3,565	31,090	22,129	8,961	6,308	5,029	1,279	135,930	123,781	118,081	-----
April . . . . .	443,038	374,913	565	67,560	24,257	20,872	3,385	35,238	23,777	11,461	3,272	2,304	968	150,661	142,004	132,365	-----
May . . . . .	417,406	362,522	514	54,370	24,672	21,251	3,421	26,542	16,876	9,666	3,024	2,131	893	147,483	131,817	136,169	-----
June . . . . .	335,475	289,245	459	45,771	15,090	12,194	2,896	15,437	10,101	5,336	3,670	2,240	1,430	97,440	97,318	87,595	-----
July . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	79,976	80,147	70,716	-----
August . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

\*Monthly data from 1909 through 1926 for items in this table, if available, may be found in the *Record Book of Business Statistics, Fuels, Automobiles, and Rubber Section*, pp. 35 to 43.

<sup>1</sup> Monthly domestic automobiles production data beginning July, 1921, represent practically complete production or factory sales as compiled by the U. S. Department of Commerce, Bureau of the Census, including total membership of the *National Automobile Chamber of Commerce*. Foreign assemblies are included in these figures. Annual figures through 1921 represent production as compiled by the *National Automobile Chamber of Commerce* from the principal producers, covering close to 90 per cent of the industry, from quarterly reports of other member companies, and from annual figures of small nonmember companies, covering the balance of the industry. Canadian figures have been furnished by the *Department of Trade and Commerce, Dominion Bureau of Statistics*, since January, 1926. Monthly data from 1913 appeared in June, 1927, issue (No. 70), p. 22, except for Canadian passenger cars, for which data prior to 1922 were compiled by *Babson's Statistical Organization* from reports of companies estimated to represent 90 per cent of the output, and which appeared in April, 1923, issue (No. 80), p. 18. Taxicabs included with passenger cars prior to 1925.

<sup>2</sup> Automobile exports compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>3</sup> Data supplied by the *General Motors Corporation* to show the relation between sales by the company to retail dealers and by these dealers to users. These data are based on sales of Chevrolet, Pontiac, Oldsmobile, Oakland, Buick, and Cadillac cars, the Chevrolet commercial cars and trucks, and cars, trucks, and tractors not now manufactured, including through April, 1925, the G. M. C. trucks, which were then transferred to another manufacturing unit. Monthly data from 1922 appeared in the July, 1926, issue (No. 59), p. 25.

<sup>4</sup> 9 months' average, April to December, inclusive.

<sup>5</sup> 6 months' average, July to December, inclusive.

Table 29.—MOTOR VEHICLES

YEAR AND MONTH	New passenger-car registrations <sup>1</sup>	AUTOMOBILE FINANCING <sup>2</sup>					ELECTRIC INDUSTRIAL TRUCKS AND TRACTORS <sup>3</sup>		AUTO-MOBILE RIMS <sup>4</sup>	AUTOMOBILE ACCESSORIES <sup>5</sup>				FIRE-EXTINGUISHING EQUIPMENT <sup>6</sup>		
		Wholesale dealers	Total consumers	New cars	Used cars	Unclassified	Shipments		Production	Shipments				Shipments		
							Domes-tic, total	Ex-ports		Original equip-ment	Re-place-ment parts	Ac-cessories	Service equip-ment	Motor vehi-cles	Hand types	
		Number of cars	Thousands of dollars					Number of vehicles		Thous. of rims	Relative to January, 1925				Number	
1922 mo. av. ....								1,358								
1923 mo. av. ....								1,929								
1924 mo. av. ....								1,822								
1925 mo. av. ....	245,315						109	11	2,167	156	120	153	124	128	51,581	
1926 mo. av. ....	262,983						110	8	2,017	139	124	131	156	127	51,210	
1927 mo. av. ....	218,628						94	11	1,668	151	135	112	155	120	49,049	
1928 mo. av. ....	261,107						110	12	2,020	199	155	103	144	110	46,443	
1929 mo. av. ....	323,361	\$135,193	\$90,825	\$39,014	\$5,354		155	13	1,908	199	154	86	173	114	50,737	
<b>1928</b>																
May.....	351,450						101	13	2,186	215	183	113	157	107	55,033	
June.....	317,069						102	14	2,429	200	150	110	140	97	48,123	
July.....	324,120						92	15	2,210	203	148	112	120	105	48,897	
August.....	329,674						90	6	2,319	230	176	147	148	125	47,490	
September.....	271,821						113	5	2,316	218	185	122	140	143	42,193	
October.....	284,939						114	20	2,115	200	184	91	141	139	49,128	
November.....	211,736						126	6	1,213	163	149	78	122	126	41,954	
December.....	154,600						136	17	1,101	164	131	73	120	100	41,596	
<b>1929</b>																
January.....	219,760	\$35,890	73,167	48,677	20,734	3,755	133	19	1,835	212	141	77	173	90	45,608	
February.....	235,590	47,920	90,489	61,737	24,596	4,157	131	3	2,265	243	136	69	192	76	47,376	
March.....	377,802	61,097	141,076	96,639	37,816	6,822	201	10	2,613	275	148	85	224	107	55,303	
April.....	481,675	74,714	171,932	116,812	47,249	7,871	181	13	2,730	287	174	91	227	108	58,696	
May.....	454,132	72,099	183,581	125,097	50,831	7,653	202	9	2,575	278	169	91	200	118	54,420	
June.....	386,398	63,217	178,984	121,842	50,206	6,936	185	16	2,184	231	150	90	186	120	51,929	
July.....	432,609		180,205	125,005	49,078	6,122	163	5	1,897	205	152	92	170	131	62,266	
August.....	376,882		162,895	111,665	45,652	5,578	144	10	1,570	193	169	88	170	116	63,806	
September.....	304,359		138,718	94,240	39,310	5,168	151	7	2,110	186	173	84	147	122	51,197	
October.....	288,782		126,248	80,746	41,784	3,718	134	33	1,647	160	166	91	147	118	47,840	
November.....	183,616		94,932	58,597	32,340	3,995	110	8	597	78	139	83	115	134	36,078	
December.....	138,732		80,089	48,847	28,574	2,668	124	27	879	34	132	90	119	127	34,330	
<b>1930</b>																
January.....	180,094	52,363	72,998	45,027	25,527	2,445	123	17	1,601	135	137	79	135	91	43,651	
February.....	211,645	61,163	84,757	52,750	29,095	2,912	106	7	1,653	141	131	66	151	82	47,096	
March.....	298,904	76,574	120,873	70,292	41,474	3,107	109	14	2,062	167	139	67	175	94	44,168	
April.....	357,064	84,229	144,891	93,405	48,461	3,026	101	5	2,340	175	150	74	180	94	57,862	
May.....	345,031	82,803	145,346	93,507	48,488	3,298	125	19	2,010	153	137	78	165	95	57,000	
June.....	260,861	64,915	141,889	89,939	48,688	3,261	63	32	1,338	119	131	71	128	103	48,783	
July.....							99	9	1,449							
August.....																
September.....																
October.....																
November.....																
December.....																

<sup>1</sup> Compiled by R. L. Polk & Co., showing the number of new cars registered each month. Data for 1925 cover all but 3 States, estimates being made for these States, which in the aggregate have only 2 per cent of the country's automobile population, while in 1928 all States except Mississippi are included (no estimates being made for Mississippi) and beginning with 1927 all States are shown complete. The company's reports show data by makes of car and by States and counties.

<sup>2</sup> Compiled by the Department of Commerce, Bureau of the Census, from reports of 455 automobile-financing establishments. Some of the smaller establishments found it impossible to segregate their operations, their totals being shown in the unclassified group. Wholesale financing represents the financing of dealers' stocks of cars, while the other items represent customers' financing. Information as to the number of cars financed each month is shown in detail in monthly press releases.

<sup>3</sup> Compiled by U. S. Department of Commerce, Bureau of the Census, representing shipments of electric industrial trucks and tractors by 9 leading manufacturers, comprising the greater part of the industry.

<sup>4</sup> Compiled by the Tire and Rim Association of America, from reports of 46 firms representing practically the entire industry. The figures include motor cycle, balloon, high-pressure truck, and millimeter rims approved and branded by the association after inspection and are given in detail by kinds and sizes in the association reports. Monthly data from January, 1922, appeared in April, 1927, issue (No. 68), p. 23.

<sup>5</sup> Sales of automobile accessories and parts shipped to customers by 75 members of the Motor and Accessory Manufacturers' Association, the relative numbers being based on value, with January, 1925, as 100.

<sup>6</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 39 companies, representing practically the entire industry. Further details by classes are given in press releases. Data compiled by Fire Extinguisher Exchange from January, 1922, through September, 1923, in May, 1924, issue (No. 33), p. 81.



Table 30.—CRUDE PETROLEUM

YEAR AND MONTH	PRODUCTION <sup>1</sup>	STOCKS <sup>2</sup> (end of month)					IMPORTS <sup>4</sup>	CONSUMPTION <sup>5</sup> (run to stills) <sup>6</sup>	REFINERY OPERATIONS <sup>7</sup>	PRICE KANS.-OKLA. AT WELLS <sup>8</sup>	OIL WELLS COMPLETED <sup>9</sup>	MEXICO <sup>10</sup>		VENEZUELA <sup>11</sup>			
		East of California			California <sup>3</sup>							Production	Exports	Production	Exports		
		Grand total	Tank farms and pipe lines	Refineries	Light	Heavy											
Thousands of barrels											P. c. ca-pac.	Dolls. per barrel	Number of wells	Thousands of barrels			
1913 monthly average.....	20,704	104,962	104,962				1,415			\$0.934	1,592						
1914 monthly average.....	22,147	123,709	123,709				1,409			.798	1,389						
1915 monthly average.....	23,425	145,914	145,914				1,512			.583	763						
1916 monthly average.....	25,064	144,556	144,556				1,733	20,583		1.258	1,565						
1917 monthly average.....	27,943	133,883	128,201	11,364			2,511	26,261		1.775	1,383						
1918 monthly average.....	29,661	117,412	103,886	13,540			3,145	27,169		2.196	1,487						
1919 monthly average.....	31,531	124,961	110,026	14,935			4,402	30,127		2.279	1,747						
1920 monthly average.....	36,911	150,069	133,115	16,954			8,848	36,160		3.408	2,024						
1921 monthly average.....	39,349	179,888	159,237	20,651			10,447	36,947		1.704	1,218	16,117	14,356	119	83		
1922 monthly average.....	46,461	278,605	245,673	32,610			10,609	41,726		1.806	1,445	15,190	15,072	183	150		
1923 monthly average.....	61,034	326,682	294,659	32,190	10,811	10,484	6,835	48,437		1.439	1,357	12,465	11,301	350	276		
1924 monthly average.....	59,495	386,896	347,320	39,575	39,132	51,708	6,481	53,643		1.446	1,212	11,640	10,808	754	681		
1925 monthly average.....	63,645	305,273	273,878	31,395	43,462	71,666	5,152	61,660	81	1.675	1,380	9,626	8,043	1,641	1,524		
1926 monthly average.....	64,240	282,323	247,405	34,918	35,985	87,374	5,032	64,939	80	1.883	1,580	7,535	6,727	3,102	2,852		
1927 monthly average.....	75,094	318,634	281,025	37,609	25,690	91,659	4,865	69,070	79	1.284	1,204	5,343	4,035	5,370	4,549		
1928 monthly average.....	75,123	368,088	325,934	42,154	18,444	95,568	6,647	76,108	79	1.203	1,044	4,179	2,772	9,008	8,385		
1929 monthly average.....	83,800	381,068	335,029	46,039	32,564	105,176	6,576	82,309	79	1.233	1,301	3,613	2,242	11,382	10,384		
<b>1929</b>																	
May.....	84,415	379,542	330,984	48,558	29,934	102,177	7,552	84,420	81	1.158	1,200	3,635	2,923	12,088	10,275		
June.....	83,403	379,089	331,786	47,303	32,667	103,660	6,591	84,400	83	1.300	1,318	3,648	2,961	12,101	10,564		
July.....	91,327	383,343	335,232	48,111	34,430	105,646	6,122	85,919	81	1.300	1,426	3,906	2,483	10,793	10,731		
August.....	92,288	386,677	339,679	46,998	37,685	108,362	5,800	86,733	81	1.300	1,669	4,091	2,511	11,394	10,897		
September.....	87,269	386,662	341,557	45,105	40,433	110,010	6,953	84,099	80	1.300	1,438	3,986	2,586	11,338	10,146		
October.....	88,099	384,502	339,639	44,863	42,041	111,076	5,766	88,390	79	1.300	1,556	3,085	2,395	11,591	10,718		
November.....	78,161	380,393	336,158	44,235	41,571	110,718	4,535	81,061	75	1.300	1,407	3,400	1,923	11,252	11,235		
December.....	80,339	381,391	335,084	46,307	41,044	106,499	5,887	80,663	72	1.300	1,060	3,926	1,705	12,182	11,929		
<b>1930</b>																	
January.....	79,453	379,826	335,318	44,508	41,868	107,123	5,450	80,163	71	1.229	1,060	3,719	1,517	11,518	10,781		
February.....	74,427	381,306	335,728	45,578	44,241	107,739	4,321	72,414	71	1.181	969	3,271	1,648	10,899	10,266		
March.....	77,384	380,007	334,082	45,925	44,710	107,414	4,827	80,253	71	1.110	1,090	3,491	2,085	11,920	10,821		
April.....	77,175	379,875	332,487	47,388	44,166	105,636	5,781	80,434	73	6.163	1,151	3,319	1,902	11,724	11,018		
May.....	80,176	378,919	331,429	47,490	42,912	105,560	4,984	83,647	73	1.178	1,233	3,350	2,429	10,918	11,133		
June.....	76,513	377,822	331,050	46,772	41,045	105,276	5,767	80,747	73	1.178	1,197			11,361	11,221		
July.....										1.178							
August.....																	
September.....																	
October.....																	
November.....																	
December.....																	

<sup>1</sup> Production data, compiled by U. S. Department of Commerce, Bureau of Mines, represent output transported from field of production, excluding oil consumed at locality of production or not transported therefrom, which has comprised only 1 or 2 per cent of the total production since 1919. Details by States and fields are given in monthly press releases. Monthly data from 1917 to 1920 given in December, 1922, issue (No. 16), p. 48, for 1921 and 1922 in August, 1923, issue (No. 24), p. 77.

<sup>2</sup> Compiled by U. S. Department of Commerce, Bureau of Mines, consolidating work formerly carried on by the Bureau of Mines and the Geological Survey under the Department of the Interior. Tank-farm stocks include total stocks at pipe lines and tank farms, producers' stocks in California and imported oil held outside refineries through December, 1924; since then California stocks are not included. Refinery stocks since January, 1925, represent only the stocks at refineries east of California. Prior to January, 1923, the figures on tank-farm stocks included topped oil and imported oil at refineries, but the duplication between this item and the total stocks at refineries was slight. This old method of securing figures showed totals about 2 per cent greater than those secured by the new method used in 1923. Adjustments have been made in figures of some of the earlier years to represent approximate net stocks for comparison with later figures. Refineries' stocks include both imported and domestic oil. The number of days' supply is calculated from the tank-farm and pipe-line stocks and from current consumption, but because of the incompleteness of stocks' data this item is no longer computed. Monthly data on stocks from 1917 to 1919 appeared in December, 1922, issue (No. 16), p. 48; from 1920 to 1922 in July, 1923, issue (No. 23), p. 50; on days' supply from 1921 to August, 1923, issue (No. 24), p. 77.

<sup>3</sup> Includes producers' and refineries' stocks, light crude having a specific gravity of 20° and above and heavy crude a specific gravity below 20°; heavy crude data include a large amount of manufactured fuel oil, for which reason California figures can not be combined with data for the country east of California.

<sup>4</sup> Imports of crude petroleum are as compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Beginning with February, 1923, topped oil has been generally excluded from the imports; on this basis imports for February, 1923, were 5,069,000 barrels instead of 6,199,000 barrels, as reported, and to which previous month's figures are comparable.

<sup>5</sup> Consumption by refiners, taken as amount of crude oil run to stills at refineries, compiled by the U. S. Department of Commerce, Bureau of Mines.

<sup>6</sup> Wholesale price of Kansas-Oklahoma crude oil at wells is average for the month as compiled by the U. S. Department of Labor, Bureau of Labor Statistics.

<sup>7</sup> Number of oil wells completed compiled by U. S. Department of Commerce, Bureau of Mines, from reports by American Petroleum Institute and Oil and Gas Journal.

<sup>8</sup> Compiled by the Mexican Government, Secretary of Industry, Commerce and Labor, Petroleum Department, and published in the Boletín del Petróleo. Current figures are from O'Shaughnessy's South American Oil Reports and are used in this table until government figures become available. Data on exports cover crude petroleum and all derivatives therefrom. All data have been converted from cubic meters to the comparable barrel basis.

<sup>9</sup> Compiled by the Minister of the Interior of the United States of Venezuela and published annually on a monthly basis in Memoria del Ministerio de Fomento. Current figures are from O'Shaughnessy's South American Oil Reports and are used in this table until revised by government figures. All data have been converted from toneladas to a comparable barrel basis.

<sup>10</sup> Average of 7 months, June to December, inclusive.

Table 31.—GASOLINE AND KEROSENE

YEAR AND MONTH	GASOLINE								KEROSENE OIL						
	Production <sup>1</sup>		Exports <sup>2</sup>	Consumption <sup>1</sup>	Stocks, end of month <sup>1</sup>		Prices		Retail distribution, 41 States <sup>3</sup>	Production <sup>1</sup>	Exports <sup>2</sup>	Consumption <sup>1</sup>	Stocks at refineries, end of month <sup>1</sup>	Price, f. o. b. refineries, Pa. <sup>3</sup>	Retail distribution, 13 States <sup>6</sup>
	Raw (at refineries)	Natural gas (at plants)			Total at refineries	Natural-gas gasoline	Whole-sale, motor, N. Y. <sup>3</sup>	Retail, tank wagon, 50 cities <sup>4</sup>							
	Thousands of barrels								Dollars per gal.		Thousands of barrels				Dollars per gal.
1913 mo. average		48	234												
1914 mo. average		85	323												
1915 mo. average		130	223												
1916 mo. average	4,085	205	706						2,888	1,696					
1917 mo. average	5,656	432	825	4,693	7,8,033				3,426	1,306	2,067	12,411			
1918 mo. average	7,084	561	1,110	6,209	9,196				3,622	974	2,870	9,648			
1919 mo. average	7,853	698	738	6,815	11,248				4,646	1,943	2,766	7,157			
1920 mo. average	9,688	763	1,272	8,434	11,059				4,603	1,728	2,757	9,035			
1921 mo. average	10,225	893	1,058	8,960	15,018				3,859	1,486	2,461	9,584			
1922 mo. average	12,306	1,004	1,149	10,659	18,834			303,435	4,576	1,776	2,905	7,180			27,488
1923 mo. average	14,922	1,620	1,678	13,062	28,249			\$0.181	4,661	1,682	2,921	6,498			28,718
1924 mo. average	17,777	1,853	2,354	15,417	35,319			.166	5,002	1,818	3,059	7,855			30,406
1925 mo. average	21,633	2,192	2,553	18,655	38,142	7,369		.191	4,974	1,756	3,331	9,498			32,043
1926 mo. average	24,978	2,692	3,540	21,818	39,654	515		.199	5,147	1,835	3,178	7,721			32,185
1927 mo. average	27,536	3,221	3,592	24,815	40,692	789		.188	4,676	1,607	3,124	8,426			32,093
1928 mo. average	31,412	3,527	4,383	27,374	33,762	603		.174	4,946	1,821	3,020	8,269			32,706
1929 mo. average	36,245	4,356	4,990	31,042	40,753	899		.176	4,763	1,651	3,109	8,511			
<b>1929</b>															
January	34,335	3,983	4,506	22,962	40,669	741		.178	4,700	1,896	2,956	8,865			30,673
February	31,264	3,736	3,797	22,741	45,729	821		.170	4,435	1,582	3,519	8,210			30,023
March	34,829	4,324	4,609	27,495	48,224	995		.170	4,515	1,872	2,976	7,855			30,844
April	34,636	4,264	4,518	32,019	47,039	1,166		.170	4,434	1,620	3,156	7,497			34,197
May	36,270	4,343	5,217	34,117	44,648	1,391		.190	4,902	1,454	3,200	7,742			34,388
June	35,606	4,250	5,699	33,163	41,991	1,356		.190	4,928	1,761	2,547	8,348			31,266
July	37,855	4,417	5,975	36,860	37,880	1,156		.190	4,406	1,281	2,684	8,797			35,213
August	38,510	4,507	5,509	37,759	33,788	893		.188	5,111	2,034	3,189	8,689			
September	37,152	4,574	4,244	34,193	33,222	661		.166	4,667	1,101	3,387	8,864			
October	39,663	4,912	5,896	32,816	35,042	490		.165	5,379	2,237	3,136	8,865			
November	37,350	4,504	3,952	31,502	37,780	514		.165	4,829	1,302	3,040	9,366			
December	37,464	4,457	5,890	26,881	43,132	604		.165	4,848	1,676	3,513	9,039			
<b>1930</b>															
January	36,654	4,410	5,291	25,731	49,676	611		.165	4,489	1,938	2,997	8,571			
February	33,949	4,248	4,809	26,509	53,229	672		.158	4,398	1,198	3,205	8,565			
March	37,727	4,576	5,735	31,029	55,239	673		.143	4,752	1,730	3,118	8,455			
April	38,157	4,429	5,662	34,549	54,435	709		.151	4,435	1,529	3,240	8,068			
May	39,293	4,521	4,864	36,497	54,046	920		.163	4,317	816	3,181	8,384			
June	37,537	4,269	6,955	35,902	50,225	928		.163	4,026	1,782	2,323	8,354			
July								.163							
August															
September															
October															
November															
December															

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines. Data covering production and stocks of natural-gas gasoline represent total production and stocks of this product, both blended and unblended, the amount blended being included with the production, consumption, and stock data covering the refinery product. The figures showing output of natural-gas gasoline include amount run from California fields through pipe lines. Stocks of gasoline at refineries include marketers' stocks beginning with June, 1923, while consumption figures since that time take account of this change in stocks.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Gasoline exports include gasoline and all other naphtha, less exports to the Philippine Islands to agree with data by the Bureau of Mines.

<sup>3</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics. Gasoline price represents average price of motor gasoline delivered in drums to garages in New York City.

<sup>4</sup> Compiled by the Oil and Gas Journal from reports of 50 representative cities as of the end of month indicated. Data were previously shown as of first of month. Monthly data from 1923 appeared in the March, 1928, issue (No. 79), p. 21.

<sup>5</sup> Retail distribution of gasoline compiled by the American Petroleum Institute, from reports of gasoline-tax collection by 41 States, including District of Columbia, but excluding Connecticut, Illinois, Maryland, Massachusetts, New Jersey, New York, Vermont, and West Virginia. Details for certain States for 1921 through 1923 may be found on pp. 52 and 53 of the June, 1924, issue of the SURVEY (No. 34), data from 1922 through 1924 in the May, 1925, issue (No. 45), p. 28, and data through 1925 in the March, 1926, issue (No. 55), p. 27. These earlier totals are not comparable with those now published owing to the smaller number of States included. Prior to May, 1925, the earliest date for which the 41 States can be shown complete, the totals for 21 States have been prorated for comparison to the basis of 41 States, based on the proportion shown in the period from May, 1925, through December, 1926. Data for California, Montana, Pennsylvania, and Tennessee are only available quarterly and have been divided by 3 to secure corresponding monthly figures.

<sup>6</sup> Retail distribution of kerosene, collected from the tax statistics of Arkansas, Colorado, Florida, Georgia, Louisiana, Kansas, Michigan, Minnesota, Nebraska, North Dakota, Oklahoma, South Carolina, and South Dakota by the American Petroleum Institute. No figures are available for Louisiana in 1922, but they have been assumed as 3 per cent lower than the corresponding 1923 figures, in order to permit a total for identical States. Details by States for 1922 and 1923, except Louisiana, with partial reports for 1921, appeared in the June, 1924, issue of the SURVEY (No. 34), p. 51, and data for 1924 and 1925 in the May, 1926, issue (No. 57), p. 28. Owing to the addition of Louisiana figures and the exclusion of estimates for Indiana, the totals presented here do not agree with those previously published.

<sup>7</sup> 6 months' average, July-December, inclusive.

Table 32.—OTHER PETROLEUM PRODUCTS

YEAR AND MONTH	GAS AND FUEL OILS					LUBRICATING OIL				ASPHALT			COKE <sup>1</sup>		WAX <sup>1</sup>		
	Production <sup>1</sup>	Consumption			Stocks at refineries, end of month <sup>1</sup>	Price, Okla., 24-26 at refineries <sup>2</sup>	Production <sup>1</sup>	Consumption <sup>1</sup>	Stocks at refineries, end of month <sup>1</sup>	Price, cylinder, 600D tank cars, Pa. <sup>3</sup>	Production	Stocks, refineries, end of month <sup>1</sup>	Imports <sup>4</sup>	Production	Stocks, refineries, end of month <sup>1</sup>	Production	Stocks, refineries, end of month
		By ves-sels <sup>2</sup>	By electric power plants <sup>5</sup>	By rail-roads <sup>4</sup>													
	Thousands of barrels					Dolls. per bbl.	Thousands of barrels			Dolls. per gal.	Thousands of short tons			Thous. of pounds			
1913 monthly av					\$0.902							18					
1914 monthly av		7 217			.663							12					
1915 monthly av		297			.513							12					
1916 monthly av	9,254	461			.871	1,239				60		12	34			32,182	
1917 monthly av	12,923	492			1.525	1,496	8 833	7 2,917		62	7 78	16	45	7 11		40,100	6 108,402
1918 monthly av	14,527	550			1.885	1,670	1,152	3,425		51	91	10	47	17		42,095	172,976
1919 monthly av	15,134	1,169	7 865		1.120	1,680	1,133	3,825		75	97	9	50	37		38,936	241,895
1920 monthly av	17,582	2,192	1,094		2.622	2,078	1,229	3,267		108	74	11	48	23		45,100	181,567
1921 monthly av	19,174	2,256	1,004	2,831	.687	1,741	1,004	5,552		101	113	11	51	62		36,240	240,072
1922 monthly av	21,243	2,641	1,100	3,107	.951	1,942	1,294	5,492		158	134	10	59	58		38,500	223,741
1923 monthly av	23,957	3,137	1,224	3,928	.920	2,177	1,438	5,659	\$0.224	194	129	12	56	24		33,887	178,060
1924 monthly av	26,706	3,611	1,386	4,165	.959	2,292	1,510	6,230	.289	212	123	13	64	60		40,041	109,465
1925 monthly av	30,416	3,569	854	4,112	1.099	2,588	1,715	6,879	.284	223	145	10	83	191		49,215	106,409
1926 monthly av	30,433	3,888	783	4,093	1.294	2,691	1,881	7,481	2.264	244	195	12	83	254		53,818	152,473
1927 monthly av	32,736	4,171	565	4,057	.978	2,643	1,806	7,792	.251	285	212	13	95	317		48,696	187,067
1928 monthly av	35,603	4,269	597	4,194	.726	2,888	1,931	7,985	.236	275	240	10	119	375		52,512	105,640
1929 monthly av	37,325	4,357	871	4,414	.731	2,863	1,956	8,150	.342	286	239	10	151	540		52,506	174,092
<b>1928</b>																	
September	37,104	4,053	612	4,371	.650	2,833	1,995	7,742	.236	306	203	5	119	402		50,428	85,417
October	37,029	4,558	619	4,871	.650	2,979	2,122	7,830	.240	320	210	12	125	404		54,546	92,814
November	35,871	4,235	632	4,490	.650	2,748	1,763	7,921	.246	244	228	9	131	419		56,665	103,949
December	37,493	4,188	848	4,440	.625	2,993	1,730	8,340	.271	170	236	12	132	437		54,685	110,344
<b>1929</b>																	
January	36,838	3,915	939	4,476	.625	2,945	1,521	8,649	.299	188	229	13	138	405		58,885	123,521
February	34,331	4,252	860	4,233	.638	2,503	1,751	8,534	.289	208	236	9	127	388		50,027	140,053
March	37,456	4,183	743	4,467	.675	2,943	1,581	8,853	.293	228	250	3	129	402		56,372	158,404
April	37,533	4,179	647	4,242	.665	2,899	2,442	8,527	.363	283	249	6	131	445		57,976	170,687
May	38,570	4,704	600	4,263	.631	3,005	2,322	8,370	.405	315	236	4	142	471		53,783	179,139
June	37,338	4,544	616	4,170	.675	2,928	2,446	7,869	.400	327	247	14	154	498		52,714	188,764
July	37,980	4,503	794	4,477	.695	2,936	2,167	7,524	.988	386	243	3	158	564		46,171	191,298
August	39,011	4,734	820	4,326	.744	3,143	2,268	7,478	.238	379	247	20	169	608		53,377	190,878
September	37,468	4,424	1,079	4,375	.775	2,852	2,054	7,589	.369	365	231	13	161	649		44,513	183,714
October	38,974	4,540	1,083	4,961	.838	2,885	1,378	8,021	.365	356	227	17	172	672		56,377	189,094
November	36,134	4,110	1,173	4,564	.863	2,555	1,858	8,117	.335	247	234	7	155	688		50,775	185,559
December	36,261	4,100	1,112	4,413	.920	2,765	1,716	8,269	.362	188	240	10	171	745		49,104	187,990
<b>1930</b>																	
January	33,213	4,223	1,095	4,556	.950	2,880	1,288	8,956	.351	191	244	5	146	741		52,360	206,249
February	31,185	4,065	706	41065	.913	2,727	1,525	9,289	.345	181	261	3	140	756		50,960	213,487
March	32,111	4,077	633	4,328	.805	3,120	2,122	9,561	.345	210	288	7	161	786		61,320	232,241
April	32,236	4,234	590	4,025	.788	3,193	2,116	9,649	.343	273	293	1	151	817		54,040	241,853
May	33,961	4,657	607	4,064	.744	3,185	2,394	9,578	.340	337	317	4	170	866		45,920	248,524
June	31,092	4,041	611		.675	2,920	1,772	9,742	.284	337	312		163	891		43,680	249,748
July									.210								
August																	
September																	
October																	
November																	
December																	

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines, representing practically complete data for the refineries prior to January, 1925, but since then gas and fuel oil stocks cover only stocks of east California. The consumption data for gas and fuel oils and lubricating oil are calculated from production, exports, and changes in stocks. For lubricating oil stocks, data include marketers' stocks beginning with June, 1923, while consumption since that time takes account of this change in stocks. Figures on asphalt, coke, and wax relate only to the by-products of petroleum.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, covering loading of vessels for foreign trade at principal clearing ports. Monthly data covering the period 1913-1923 appeared in the October, 1923, issue (No. 26), p. 61.

<sup>3</sup> Compiled by the U. S. Department of the Interior, U. S. Geological Survey, representing consumption by all plants producing electric power, but mainly central stations; consumption in central stations alone shown in April, 1925, issue (No. 44), p. 29, and by street railways, manufacturing plants, and reclamation projects in March, 1925, issue (No. 43), p. 28.

<sup>4</sup> Compiled by the Interstate Commerce Commission from reports of 174 steam railroads of Class I, not including switching and terminal companies, and excluding fuel used in switching locomotives. Monthly data from 1921 appeared in January, 1926, issue (No. 53), p. 23.

<sup>5</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, representing average of weekly prices. Lubricating oil covers quotations of cylinder oil, Pennsylvania, 600D; filtered in tank cars at refinery, and monthly data from 1923 may be found in the November, 1927, issue (No. 75), p. 27.

<sup>6</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, representing imports of foreign native asphalt. Imports have been reduced from original data in long tons.

<sup>7</sup> 6 months' average, July to December, inclusive.

<sup>8</sup> 5 months' average, August to December, inclusive.

<sup>9</sup> 11 months' average, July omitted.

Table 33.—CRUDE AND SCRAP RUBBER

YEAR AND MONTH	CRUDE RUBBER														RECLAIMED RUBBER (quarterly) <sup>1</sup>		SCRAP RUBBER (quarterly)		
	World shipments <sup>(2)</sup>	Imports <sup>3</sup> (including latex)	Consumption <sup>1</sup> (quarterly)		Domestic stocks, end of quarter <sup>1</sup>				World stocks, end of month <sup>4</sup>					Wholesale price, smoked sheets, N. Y. <sup>5</sup>	Production	St'ks, end of quarter	Stocks at reclaimers	Consumption by reclaimers	
			Total	For tires	Total	Manufacturers	Dealers	Afloat	Total	Producing countries	European countries	United States	Plantation, afloat						
	Long tons														Dolls. per lb.	Long tons			
1921 mo. av.	24,663	15,449	38,572	31,280	83,994			29,671					83,668		31,038	\$0.164	8,539		11,509
1922 mo. av.	31,800	25,090	63,546	51,801	85,935	65,982	19,953	39,523					82,099		42,284	.174	13,447		17,211
1923 mo. av.	34,398	25,762	68,739	55,238	85,450	66,885	18,565	33,589	131,770	25,329	66,441		46,973		46,973	.296	17,384		22,002
1924 mo. av.	35,101	27,338	75,445	62,916	59,458	46,829	12,629	40,026	188,822	21,238	53,657	64,273	49,654	.261	19,018	8,217	37,496		26,415
1925 mo. av.	43,006	33,054	88,468	74,247	45,960	37,467	8,493	48,811	135,983	17,882	11,473	47,902	58,726	.719	30,906	8,662	61,963		39,770
1926 mo. av.	51,232	34,445	82,436	70,414	61,301	50,704	10,597	43,565	184,308	22,781	29,415	61,974	70,139	.485	41,986	14,969	72,096		54,074
1927 mo. av.	50,183	35,519	85,682	72,797	88,627	72,701	15,926	42,862	255,701	27,236	68,371	93,394	66,699	.376	43,181	19,544	59,675		55,547
1928 mo. av.	54,389	36,388	101,712	87,085	83,119	68,141	14,978	47,054	227,525	23,124	44,148	88,127	72,125	.223	51,967	17,116	60,676		65,580
1929 mo. av.	71,951	46,985	107,289	90,451	94,065	62,447	31,635	48,455	263,610	35,550	46,150	93,363	89,379	.205	51,231	18,800	68,689		70,730
<b>1928</b>																			
January	48,134	39,108							276,670	27,453	69,594	110,243	69,380	.400					
February	48,579	33,664							269,572	25,649	66,268	108,955	68,700	.326					
March	46,887	40,611	95,273	80,871	112,103	91,700	20,403	35,572	260,991	22,353	61,478	114,060	63,100	.266	51,112	16,317	61,299		64,069
April	36,114	37,935							245,185	19,223	57,174	113,083	55,706	.188					
May	43,889	31,059							227,536	20,116	48,243	105,357	53,820	.188					
June	40,927	27,764	95,220	81,323	87,771	77,132	10,639	38,478	212,527	20,664	42,365	90,198	59,300	.194	51,109	15,459	51,518		65,387
July	52,831	31,258							208,789	21,578	39,269	83,242	64,700	.192					
August	58,345	31,204							201,078	21,828	35,755	68,995	74,500	.193					
September	48,338	39,838	108,167	93,173	68,729	54,428	14,301	43,492	198,481	17,687	35,243	68,851	76,700	.182	52,823	14,963	61,016		66,298
October	43,748	44,072							177,776	15,489	27,966	66,421	67,900	.187					
November	91,860	36,624							222,795	29,110	22,328	61,957	109,400	.182					
December	93,019	43,519	108,189	92,972	63,871	49,302	14,569	70,672	228,904	36,343	24,095	66,166	102,300	.179	52,825	21,724	68,869		66,567
<b>1929</b>																			
January	79,177	57,586							230,935	33,038	30,255	76,342	101,300	.201					
February	74,311	64,286							244,340	36,254	30,778	90,058	87,250	.239					
March	71,644	50,610	118,280	102,091	95,110	65,615	29,495	51,336	262,676	32,955	33,484	100,537	95,700	.244	53,552	17,727	59,135		71,001
April	73,547	55,730							266,379	30,731	36,789	107,659	91,200	.211					
May	66,345	51,186							252,867	35,242	37,143	97,192	83,290	.214					
June	61,390	41,828	128,149	111,068	95,519	70,598	24,921	42,719	245,553	36,336	37,135	92,062	80,020	.206	57,760	16,446	61,429		74,292
July	71,562	44,338							255,247	39,131	37,168	95,536	83,412	.213					
August	70,532	37,851							259,804	36,802	45,016	90,769	87,217	.206					
September	77,997	34,814	104,646	87,060	82,509	51,979	30,530	47,413	270,784	37,753	54,417	84,362	94,252	.202	53,977	18,806	78,942		75,123
October	73,853	38,454							279,515	37,902	63,929	88,483	89,200	.196					
November	68,303	43,901							287,547	34,200	72,259	92,219	88,869	.166					
December	74,748	43,232	78,082	61,584	103,120	61,595	41,595	52,350	307,670	36,260	75,432	105,138	90,840	.160	39,635	22,220	75,251		52,502
<b>1930</b>																			
January	77,291	47,904							334,809	36,915	82,417	120,649	94,828	.150					
February	74,909	42,998							358,095	41,095	87,321	131,748	97,931	.158					
March	70,347	45,254	93,481	77,280	137,410	82,223	55,187	53,928	373,097	41,725	93,232	141,843	96,297	.153	42,437	19,519	64,968		51,919
April	63,127	45,648							378,052	43,176	100,729	148,272	85,875	.150					
May	72,485	42,994							378,972	41,923	105,035	146,179	85,835	.142					
June		40,382							383,677	39,300	109,892	151,485	83,000	.124					
July														.115					
August																			
September																			
October																			
November																			
December																			

<sup>1</sup> Data compiled by the Rubber Association of America (Inc.) from reports of about 285 members and nonmembers representing the principal manufacturers, importers, and reclaimers in this field. It should be noted that these consumption and production data represent quarterly, not monthly, totals, while stock figures are shown as of the end of the quarterly period indicated, and annual averages in these columns are of quarterly, not monthly, data.

<sup>2</sup> Compiled by the World Rubber Position, a British publication. Details of shipments by countries are given in the publication, as well as amounts retained by the principal importing countries.

<sup>3</sup> Imports of rubber, including latex, into the United States compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>4</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, from basic data on producing countries (Para, Singapore, and Penang) and on European countries (London, Liverpool, Amsterdam, and Antwerp) supplied by the Rubber Growers Association (British), on domestic stocks supplied by the Rubber Association of America and prorated from 95 to 100 per cent, and on stocks of plantation rubber afloat from the World's Rubber Position.

<sup>5</sup> Compiled by the Rubber Trade Association and representing averages of daily spot prices for rubber, standard-quality ribbed smoked sheets in the New York market. Monthly data from 1915 may be found in the Marketing of Crude Rubber by the U. S. Department of Commerce, pp. 14 and 15.

<sup>6</sup> 7 months' average, June to December, inclusive.

Table 34.—TIRES AND RUBBER-PROOFED FABRICS

YEAR AND MONTH	AUTOMOBILE TIRES <sup>1</sup>														RUBBER-PROOFED FABRICS <sup>2</sup>						
	Pneumatic tires				Inner tubes				Solid tires and cushions				Raw material consumed		Production				Calendered rubber clothing		
	Production	Stocks, end of month	Shipments		Production	Stocks, end of month	Shipments		Production	Stocks, end of month	Shipments		Fabrics	Crude rubber	Total	Auto fabrics	Clothing fabrics	All other	Production	Net orders	
			Dom.	Exp.			Dom.	Exp.			Dom.	Exp.									
Thousands														Thousands of pounds		Thousands of yards				Number of coats and sundries	
1921 mo. av.	1,821	4,321	1,905	43	2,261	4,632	2,292	29	36	232	44	2	6,696	17,922	1,528	456	756				
1922 mo. av.	2,573	4,896	2,436	81	3,189	6,081	3,055	58	66	195	57	4	9,257	27,301	2,026	799	696				
1923 mo. av.	2,843	5,666	2,697	89	3,768	7,354	3,630	71	59	254	57	5	9,861	30,601	2,648	1,317	640				
1924 mo. av.	3,234	5,426	3,048	91	4,424	7,490	4,174	84	58	198	52	5	11,868	37,821	2,085	927	526	652			
1925 mo. av.	3,811	5,920	3,604	116	5,171	8,318	4,964	105	65	170	62	7	14,025	46,033	1,999	657	765	577			
1926 mo. av.	3,857	8,158	3,600	93	4,793	13,110	4,411	66	48	188	42	5	13,830	43,170	2,444	697	1,230	517			
1927 mo. av.	4,045	8,272	3,850	168	4,391	11,805	4,463	100	48	170	42	5	14,832	42,916	3,156	780	1,833	543			
1928 mo. av.	4,878	8,808	4,482	169	5,015	11,549	4,715	110	43	155	40	4	18,520	50,035	3,456	758	1,803	896	98,963	65,940	
1929 mo. av.	4,580	11,226	4,511	194	4,582	11,924	4,624	125	32	126	32	2	17,390	49,916	4,223	906	2,041	1,280	81,566	59,256	
<b>1928</b>																					
September	5,101	7,324	5,191	168	5,327	10,158	5,245	121	43	151	42	2	17,797	55,351	4,966	780	3,179	1,007	92,588	108,156	
October	5,495	8,640	4,096	191	5,197	11,464	4,138	108	47	153	43	3	20,295	58,302	5,914	609	4,009	1,296	106,005	75,482	
November	4,556	9,434	3,539	209	4,198	11,820	3,618	133	36	151	34	3	17,037	48,819	4,173	701	2,447	1,025	93,080	45,876	
December	4,204	10,218	3,201	242	3,888	12,087	3,466	178	32	152	28	3	15,373	41,604	2,348	567	984	797	76,014	36,363	
<b>1929</b>																					
January	5,042	10,284	4,721	248	4,888	11,539	5,271	160	32	151	31	2	19,779	54,161	2,828	686	989	1,153	58,130	31,437	
February	5,184	11,621	3,750	212	5,077	12,749	3,815	143	30	147	30	2	20,327	57,559	3,028	811	1,118	1,099	59,825	30,286	
March	5,639	12,264	4,804	227	5,600	13,313	4,889	164	36	143	38	2	21,238	61,335	3,952	878	1,730	1,344	77,740	32,967	
April	5,913	12,697	5,242	229	5,726	13,601	5,220	153	39	139	40	3	23,620	65,673	4,000	917	1,889	1,194	91,193	02,490	
May	6,109	13,386	5,185	204	5,745	14,196	5,146	133	40	135	40	3	23,302	66,028	4,860	919	2,387	1,554	100,706	78,972	
June	5,478	13,468	5,288	153	5,234	14,056	5,115	98	40	133	38	3	20,359	56,861	4,409	1,199	1,948	1,262	87,530	98,444	
July	4,856	11,872	5,723	168	4,634	12,249	5,993	91	39	129	39	2	18,126	52,249	4,260	1,188	1,864	1,208	89,871	60,921	
August	4,354	10,669	5,667	217	4,385	10,618	6,028	109	32	118	40	3	15,803	45,459	5,085	1,349	2,419	1,317	96,281	37,906	
September	3,568	9,656	4,330	168	4,152	10,068	4,562	125	28	111	34	2	13,469	39,981	5,507	1,120	3,063	1,324	93,444	49,940	
October	3,689	9,633	3,520	199	4,000	10,242	3,629	122	35	111	34	2	13,707	41,775	6,118	778	3,618	1,720	99,588	76,194	
November	2,703	9,701	2,500	168	2,835	10,276	2,679	105	31	117	23	2	10,269	31,186	4,395	540	2,547	1,308	75,392	95,423	
December	2,441	9,470	2,448	142	2,787	10,245	2,620	103	28	122	19	2	8,677	26,728	2,291	488	921	882	49,093	16,095	
<b>1930</b>																					
January	3,589	9,539	3,348	178	3,685	10,163	3,778	107	25	127	20	2	14,559	42,108	3,281	966	1,239	1,076	56,949	31,638	
February	3,645	9,929	3,150	206	3,707	10,429	3,344	126	22	128	19	2	13,767	40,379	3,441	885	1,475	1,081	64,934	39,568	
March	3,891	1,010	3,587	186	3,953	10,543	3,682	99	19	123	22	2	14,656	43,911	3,570	727	1,632	1,211	78,858	97,612	
April	4,518	10,461	3,886	186	4,408	11,028	3,769	109	17	117	23	2	17,264	51,152	4,029	1,368	1,590	1,071	86,471	89,862	
May	4,574	10,745	3,960	213	4,428	11,082	3,940	119	17	108	23	1	17,437	52,130	3,775	1,239	1,333	1,205	75,719	110,520	
June	4,098	10,622	4,050	185	3,960	10,889	4,082	131	17	107	18	2	15,034	45,706					55,411	21,249	
July																					
August																					
September																					
October																					
November																					
December																					

<sup>1</sup> Compiled by the Rubber Association of America, representing reports from 75 per cent of the industry on pneumatic casings in 1923 and 78 per cent in 1925, according to the Census of Manufactures; 79 per cent and 80 per cent, respectively, on inner tubes and 76 per cent in both years on solid tires. Prior to September, 1921, when an important manufacturer dropped out, a larger percentage of the industry was covered, the 1921 totals representing 80 per cent of the casings output reported by the Census of Manufactures and 85 per cent of the output of inner tubes. Crude-rubber consumption in 1925 represented 73 per cent of that reported by the census of manufacturers in that year for manufacturers of rubber tires. Export shipments in 1925 represented 85 per cent of the total official exports for both casings and inner tubes and 72 per cent for solid tires. In 1923 the proportions were slightly smaller in each case. The number of reporting firms increased from 36 in November, 1920, to a maximum of 66 in 1922, while from 1923 to the early part of 1925 the number ranged between 50 and 60, in the latter part of 1925 between 45 and 50, and in 1926 and 1927 between 40 and 45. The decrease in number of firms is stated to be due largely to cessation of business on nominal production. Data comprise all kinds of tires, including millimeter sizes. Stocks represent domestic tires in factory and in transit to or at warehouses, branches, or in possession of dealers on consignment basis, i. e., all tires still owned by manufacturers as a domestic stock. Shipments include only tires forwarded to purchasers and not those forwarded to warehouses, branches, or on a consignment basis. Solid and cushion tires include plain-tread solid tires, the nonskid-tread type termed "cushion" by some manufacturers and also hollow-center or cellular-construction tires of both the pressed-on and demountable types. Details by kind, type, and size are given in the association's reports, as well as distribution of domestic shipments between original equipment and other sales, of fabric consumption as between kind of material and of casings and of rubber consumption as between kind of tires. Monthly data from January, 1922, appeared in the June, 1927, issue (No. 70), p. 21.

<sup>2</sup> Compiled by the Rubber Association of America from reports of from 3 to 8 companies on automobile fabrics each month, representing 48 per cent of the production of automobile fabrics in 1923 and 31 per cent in 1925, according to the Census of Manufactures, and from 10 to 14 manufacturers of other fabrics representing 62 per cent of other fabrics in 1925. Total fabrics reported by these manufacturers represented 62 per cent of all rubberized fabrics in 1923 and 47 per cent in 1925. Raincoat fabrics include both single and double texture fabrics, while all other fabrics include hospital and sanitary sheetings, shoe proofings, cretonne and percale apron materials and sundries and miscellaneous proofings, for which details are presented in the association's reports. The report on automobile fabrics also gives details by kind and by purposes of shipment. Data on calendered rubber clothing represents black-surface rubber clothing and sundries such as black-rubber raincoat caps, ice aprons, and such heavy-duty material. Details as to men's rubber coats, boys' rubber coats, flat rubber sundries, and made-up rubber sundries are given in the association's reports. Reports include 7 manufacturers' monthly data for 1928 appeared in the April, 1929, issue of the Survey of Current Business, No. 92, p. 22.

<sup>3</sup> 4 months' average, September to December, inclusive.

Table 35.—OTHER RUBBER PRODUCTS

YEAR AND MONTH	RUBBER HEELS <sup>1</sup>					RUBBER SOLES <sup>1</sup>					MECHANICAL RUBBER GOODS <sup>2</sup>				RUBBER BANDS <sup>4</sup>	RUBBER FLOORING <sup>5</sup>
	Pro-duction	Shipments			Stocks, end of month	Pro-duction	Shipments			Stocks, end of month	Shipments			Shipments		
		To shoe man-ufacturers	To repair trade	For ex-port			To shoe man-ufacturers	To repair trade	For ex-port		Total	Belting	Hose		All other <sup>3</sup>	
	Thousands of pairs										Thousands of dollars				Thous. of lbs.	Thous. of sq. ft.
1923 monthly av..	15,243	9,889	4,172		33,962											
1924 monthly av..	15,523	10,412	4,751		33,110						\$4,051	\$1,084	\$1,731	\$1,236		
1925 monthly av..	17,248	10,765	5,727	6 719	40,569	6 1,940	6 1,603	6 295	6 15	6 2,584	5,406	1,526	2,069	1,812		
1926 monthly av..	15,276	8,899	5,614	770	48,590	1,021	799	146	35	3,129	6,399	1,710	2,422	2,267		
1927 monthly av..	16,692	8,514	6,958	912	43,823	2,264	1,551	662	85	3,659	5,719	1,480	2,225	2,014	7 190	
1928 monthly av..	19,598	9,752	7,844	950	48,727	3,137	1,873	916	204	4,529	5,759	1,407	2,131	2,223	194	584
1929 monthly av..	19,344	12,009	7,064	1,032	45,257	2,875	2,273	589	64	5,713	6,231	1,515	2,316	2,400	210	565
<b>1928</b>																
May.....	21,597	8,897	7,559	884	52,387	3,519	1,855	894	120	4,558	6,274	1,352	2,667	2,255	177	661
June.....	18,763	9,166	9,022	864	50,569	3,321	1,977	948	41	4,687	6,126	1,568	2,298	2,260	192	717
July.....	17,620	12,070	7,372	457	49,679	3,168	1,897	808	55	5,067	5,157	1,396	1,795	1,966	173	477
August.....	21,289	11,642	9,244	729	49,511	3,461	2,209	917	46	5,633	6,306	1,888	2,068	2,360	193	533
September.....	21,451	9,207	9,199	875	49,751	2,725	1,703	893	29	5,501	5,393	1,412	1,731	2,250	186	754
October.....	21,932	9,813	9,580	1,262	50,111	2,297	1,655	958	328	5,212	5,837	1,387	2,026	2,424	216	559
November.....	18,686	8,602	7,921	1,317	48,691	2,649	1,906	885	63	4,723	5,201	1,203	1,811	2,186	201	566
December.....	15,811	7,321	5,586	1,108	50,903	2,771	1,730	805	143	4,534	5,271	1,198	1,964	2,109	188	623
<b>1929</b>																
January.....	19,975	12,867	6,809	1,001	50,649	3,876	2,934	861	156	4,274	6,033	1,305	2,378	2,350	219	418
February.....	18,979	10,196	6,737	1,479	50,010	2,869	2,217	755	24	4,077	6,135	1,413	2,271	2,452	240	432
March.....	17,226	8,798	7,925	1,230	49,571	2,746	1,262	705	34	4,243	7,013	1,546	2,753	2,735	288	603
April.....	17,256	11,028	6,506	1,072	47,209	2,601	1,967	623	23	4,184	7,035	1,668	2,730	2,636	231	596
May.....	19,541	12,552	7,604	1,054	44,969	2,916	2,361	635	32	3,997	7,188	1,798	2,643	2,748	205	733
June.....	20,007	12,262	8,256	926	44,581	2,502	3,185	522	17	3,843	6,792	1,613	2,658	2,521	187	525
July.....	19,315	13,785	6,337	794	44,243	1,295	1,372	163	70	2,895	6,306	1,645	2,355	2,305	192	566
August.....	23,095	14,942	8,025	1,098	43,960	2,948	2,548	517	78	3,319	6,792	1,940	2,196	2,656	196	598
September.....	21,702	13,645	7,859	1,054	42,958	2,841	2,185	618	47	3,316	5,906	1,490	1,964	2,452	189	630
October.....	22,386	13,746	7,994	920	42,109	3,502	2,676	647	90	3,443	5,887	1,477	2,135	2,274	216	543
November.....	17,863	11,653	6,571	801	41,286	3,400	2,676	576	109	3,421	4,932	1,203	1,830	1,899	170	517
December.....	14,781	8,639	4,148	956	41,544	3,003	2,372	449	88	3,545	4,751	1,086	1,895	1,770	189	618
<b>1930</b>																
January.....	15,470	10,989	5,106	1,049	40,528	3,496	3,261	491	138	3,227	5,169	1,150	2,034	1,984	226	459
February.....	14,172	8,837	6,511	1,031	38,250	2,338	1,973	392	56	3,171	5,376	1,281	2,190	1,905	230	530
March.....	15,439	8,458	7,189	956	36,541	2,582	2,055	407	54	3,349	5,981	1,379	2,500	2,101	248	533
April.....	17,762	9,201	4,641	1,096	37,618	2,593	1,956	380	28	3,272	5,989	1,309	2,593	2,087	197	570
May.....	15,603	7,431	5,221	776	38,595	1,939	1,506	332	27	3,019	6,163	1,310	2,703	2,150	211	615
June.....											5,318	1,238	2,199	1,881	177	
July.....																
August.....																
September.....																
October.....																
November.....																
December.....																

<sup>1</sup> Compiled by the Rubber Association of America, from reports of from 13 to 16 manufacturers each month, who made 63 per cent of the total output of rubber heels for sale as such, in 1925, according to the census of manufacturers. Only salable heels are included, none so imperfect as to result in their being reclaimed. Details by kinds of soles and heels are presented in the association's reports. Stocks include merchandise constituting domestic stock in factory, and in transit to, or at, warehouses, branches, or in possession of dealers on consignment basis, and represent all merchandise still owned by manufacturers as domestic stocks. Shipments include only stock forwarded to a purchaser and exclude goods forwarded to a warehouse, branch, or on a consignment basis.

<sup>2</sup> Compiled by the Rubber Association of America from reports of 11 manufacturers whose shipments in 1925 represented 78 per cent of the total output of rubber belting and 70 per cent of the output of rubber hose, measured in value, according to the census of manufacturers. Details by classes are shown in the association's reports.

<sup>3</sup> Includes tubing, packing, mats and matting (except tiling), molded goods, lathe-cut goods, and miscellaneous, but excludes jar rings, tapes, and thread.

<sup>4</sup> Compiled by the Rubber Association of America from reports of 8 manufacturers estimated to represent 80 per cent of the industry. Details by kinds of packages are given in the association's reports.

<sup>5</sup> Compiled by the Rubber Association of America from reports of 10 manufacturers. The data include individually cut tile and other types of rubber flooring whether in sheet form or not, such as Fullman-car tiling, but exclude regular corrugated, knobbed, and perforated mats and matting, automobile mats, etc. Details by widths are given in the association's reports.

<sup>6</sup> 8 months' average, April through December.

<sup>7</sup> 3 months' average, October through December.

Table 36.—HIDES AND SKINS

YEAR AND MONTH	INSPECTED SLAUGHTER <sup>1</sup>							IMPORTS <sup>2</sup>					STOCKS, END OF MONTH <sup>3</sup>				WHOLE-SALE PRICES <sup>4</sup>		
	United States				Canada			Total hides and skins	Calf-skins	Cattle hides	Goat-skins	Sheep-skins	Total hides and skins	Cattle hides	Calf and kip skins	Sheep and lamb skins	Green, salted, packers' heavy native steers (Chicago)	Calfskins, country No. 1 (Chicago)	
	Cattle	Calves	Swine	Sheep	Cattle and Calves	Swine	Sheep and Lambs												
	Thousands of animals							Thousands of pounds										Dolls. per pound	
1909-13 monthly av	582	160	2,850	1,201	45	139	42	42,854	6,815	19,160	8,199	5,289							
1913 monthly av	563	141	2,711	1,186	43	188	38	41,490	6,372	18,629	7,473	5,684							
1914 monthly av	596	152	3,198	1,018	44	218	33	46,350	5,576	25,671	6,321	5,495							
1915 monthly av	596	152	3,198	1,018	44	218	33	53,856	4,076	34,053	6,607	6,257							
1916 monthly av	692	197	3,590	995	54	193	35	60,526	5,221	33,683	8,686	8,461							
1917 monthly av	863	262	2,826	779	61	174	29	52,589	2,466	30,890	7,409	6,999							
1918 monthly av	986	288	3,435	860	74	189	32	30,158	632	18,421	5,197	4,372							
1919 monthly av	841	331	3,484	1,058	79	194	51	62,070	5,380	33,940	11,138	7,086							
1920 monthly av	717	338	3,168	915	69	149	55	42,520	2,928	22,944	6,684	6,896	435,477	340,339	63,139	32,916	.312	.368	
1921 monthly av	634	317	3,249	1,084	60	186	54	29,004	3,995	15,016	5,260	3,821	430,897	339,548	58,414	32,935	.139	.149	
1922 monthly av	723	349	3,593	911	69	161	50	45,931	4,627	27,040	6,745	5,381	355,025	275,293	52,281	27,452	.181	.160	
1923 monthly av	764	375	4,445	961	68	188	42	44,298	4,058	24,331	7,154	6,342	337,392	288,589	46,485	22,319	.166	.157	
1924 monthly av	799	411	4,406	999	75	243	43	29,713	3,426	15,468	4,353	4,837	267,533	222,046	29,878	15,601	.147	.184	
1925 monthly av	821	446	3,587	1,000	81	220	41	30,203	2,401	13,899	6,807	5,138	270,370	220,282	33,218	16,870	.160	.202	
1926 monthly av	848	429	3,386	1,080	91	208	46	30,715	3,767	12,538	7,300	4,948	284,318	229,340	37,319	17,659	.141	.174	
1927 monthly av	793	407	3,636	1,074	96	212	52	37,262	3,673	19,770	6,775	4,779	239,262	187,562	32,302	19,399	.195	.197	
1928 monthly av	706	390	4,143	1,124	93	212	53	42,146	3,783	22,957	7,564	5,272	245,041	202,236	24,129	18,676	.238	.274	
1929 monthly av	694	378	4,037	1,170	93	196	61	42,956	3,818	22,135	8,341	5,444	254,176	215,677	26,172	20,661	.170	.190	
<b>1929</b>																			
January	736	369	5,738	1,150	71	249	35	38,679	2,608	21,456	5,911	5,060	262,326	219,274	23,636	19,416	.205	.219	
February	569	311	4,478	953	57	206	21	31,919	1,951	16,195	7,841	3,785	249,563	210,760	21,595	17,208	.153	.171	
March	632	409	3,645	1,006	74	215	21	34,063	1,462	16,161	8,768	4,892	240,740	203,947	20,265	16,528	.145	.187	
April	662	460	3,761	1,119	105	208	19	39,505	3,379	16,155	10,869	6,406	246,359	206,248	22,058	18,053	.149	.183	
May	676	427	3,798	1,202	110	187	17	38,643	5,096	14,122	9,882	6,301	246,330	201,176	26,068	19,086	.149	.179	
June	636	344	3,756	1,108	93	161	25	41,509	6,559	17,450	8,309	6,824	250,025	196,202	32,525	21,298	.168	.186	
July	706	363	3,597	1,255	105	159	55	49,910	5,636	24,259	9,361	6,849	248,549	194,453	30,951	23,145	.181	.199	
August	726	388	3,130	1,298	99	160	77	47,956	4,900	28,137	7,692	4,405	253,415	202,564	28,141	22,710	.188	.198	
September	753	365	3,104	1,317	98	142	93	51,903	3,178	29,132	8,893	7,336	253,680	203,304	27,071	23,305	.196	.204	
October	839	398	3,857	1,365	120	207	178	48,489	4,886	28,264	6,434	5,091	259,050	208,910	27,596	22,544	.186	.197	
November	731	358	4,499	1,159	114	234	135	50,958	3,542	28,227	9,838	5,032	270,188	220,779	27,573	21,836	.164	.179	
December	658	346	5,083	1,091	71	221	50	41,932	2,624	26,060	6,293	3,350	269,892	220,509	26,584	22,799	.160	.174	
<b>1930</b>																			
January	713	374	5,001	1,225	68	207	31	39,094	2,953	19,145	6,728	5,473	269,925	221,718	25,480	22,727	.163	.176	
February	561	329	4,034	1,187	57	168	20	35,116	2,318	18,885	6,067	3,715	265,248	216,251	25,626	23,371	.148	.164	
March	615	388	3,392	1,358	74	168	24	40,097	2,408	21,169	9,670	2,971	268,158	218,308	25,478	24,372	.142	.156	
April	635	455	3,480	1,387	100	162	27	50,966	2,815	31,007	7,827	6,186	290,286	218,530	25,538	26,218	.140	.159	
May	690	421	3,823	1,370	108	174	23	54,900	5,720	26,839	12,271	6,284	281,523	223,025	30,006	28,492	.143	.169	
June	654	356	3,689	1,295	81	159	36	37,407	3,505	13,992	10,016	7,626	286,666	224,209	30,034	32,423	.152	.175	
July																	.141	.165	
August																			
September																			
October																			
November																			
December																			

<sup>1</sup> Data for the United States compiled by the U. S. Department of Agriculture, Bureau of Animal Industry, representing animals slaughtered under Federal inspection, which according to the 1919 census amounted to 68 per cent of all hogs slaughtered in that year, 82 per cent of cattle and calves, and 91 per cent of sheep and lambs. The data in number of animals are given here as indications to hide output. Monthly data from 1909 appeared in the August, 1927, issue (No. 72), p. 138. Data for Canada compiled by Dominion Bureau of Statistics, and cover all slaughter under Canadian inspection. Monthly data on Canadian slaughter from 1913 appeared in the February 1927, issue (No. 66), p. 23.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from returns from packers, tanners, dealers, importers, and manufacturers, and represent practically complete returns from the leather industry. As given in the detailed monthly reports, which can be obtained upon request from the Bureau of the Census, the returns for hides and skins are expressed in numbers of hides and skins. For the above summary these have been reduced to pounds on the basis of the average weights of each class. The detailed reports also show the various kinds of skins held and where located as between tanners, dealers, etc.

<sup>4</sup> Data from U. S. Department of Labor, Bureau of Labor Statistics, representing average monthly prices.

<sup>5</sup> 4-year monthly average, 1910-1913.

<sup>6</sup> 4 months' average, September to December, inclusive.



Table 37.—LEATHER AND LEATHER PRODUCTS

YEAR AND MONTH	SOLE AND BELTING LEATHER						UPPER LEATHER					SHOES					GLOVES	
	Production		Stocks, end of month <sup>1</sup>		Ex-ports <sup>2</sup>	Price, sole, oak, secured backs (Boston) <sup>3</sup>	Pro-duction <sup>4</sup>	Stocks, end of month <sup>1</sup>		Ex-ports <sup>2</sup>	Chrome calf black "B" grade composite price, 6 centers	Pro-duction <sup>4</sup>	Ex-ports <sup>2</sup>	Wholesale prices <sup>4</sup>			Pro-duction (cut) <sup>4</sup>	
	Sole only <sup>1</sup>	Total <sup>2</sup>	In process	Fin-ished				In process	Fin-ished					Men's black calf blucher (Boston)	Men's dress welt tan calf oxford (St. Louis)	Wo-men's black kid, dress welt lace oxford		
	Thous. of backs, bends, and sides	Thousands of pounds				Dols. per lb.	Thousands of square feet				Dols. per sq. ft.	Thousands of pairs		Dollars per pair			Dozen pairs	
1913 mo. av.					2,605	\$0.44							842	\$3.11				
1914 mo. av.					4,310	.47					24,389	827	3.17					
1915 mo. av.					6,751	.50						1,412	3.25					
1916 mo. av.					7,540	.64						1,623	3.71					
1917 mo. av.					3,657	.83						1,237	4.75					
1918 mo. av.	1,653				2,229	.80						1,100	5.63					
1919 mo. av.	1,876				10,222	.91					27,602	1,780	7.60					
1920 mo. av.	1,535	23,742	114,810	161,673	1,869	.86	42,344	142,136	400,906			1,408	8.95					
1921 mo. av.	1,499	25,657	111,217	193,528	1,198	.55	57,986	164,216	423,021			23,898	746	7.00				
1922 mo. av.	1,478	24,557	100,679	186,434	1,300	.52	72,963	166,770	428,169	10,416		26,990	450	6.51				
1923 mo. av.	1,561	27,411	107,144	171,631	1,452	.51	78,019	158,852	387,376	9,228		29,260	612	6.43			197,593	
1924 mo. av.	1,220	21,665	88,429	149,508	1,872	.45	64,118	133,758	358,168	11,264		26,102	526	6.25			187,580	
1925 mo. av.	1,240	22,431	87,081	126,856	1,611	.48	63,407	140,367	305,637	11,392		26,963	550	6.39			197,072	
1926 mo. av.	1,135	21,859	80,148	95,006	1,122	.44	69,681	152,301	292,108	11,739		27,043	476	6.40			208,039	
1927 mo. av.	1,319	24,734	86,171	63,855	818	.49	67,420	148,432	258,144	12,355		28,634	459	6.43			217,882	
1928 mo. av.	1,345	24,340	86,651	65,911	849	.64	67,527	143,632	251,747	11,297	\$0.441	28,696	361	6.75	\$4.92	\$4.25	212,658	
1929 mo. av.	1,210	23,730	80,987	70,200	829	.53	69,831	142,135	235,393	9,358	.395	30,117	357	6.75	4.85	4.25	261,396	
<b>1929</b>																		
January	1,284	23,891	77,989	81,537	1,054	.59	66,424	138,500	249,468	10,998	.423	27,246	423	6.75	4.85	4.25	214,826	
February	1,102	20,989	78,607	81,482	729	.57	62,954	136,749	249,739	9,364	.405	27,707	367	6.75	4.85	4.25	240,116	
March	1,140	22,191	79,524	78,772	1,336	.55	66,132	133,335	249,373	11,991	.394	30,900	435	6.75	4.85	4.25	256,691	
April	1,185	23,119	79,487	76,444	1,080	.49	65,152	130,430	246,992	10,818	.397	29,382	372	6.75	4.85	4.25	258,301	
May	1,144	22,879	80,606	72,070	1,149	.49	63,653	134,079	241,783	10,208	.393	29,159	333	6.75	4.85	4.25	263,933	
June	1,244	25,103	79,153	70,616	758	.49	66,425	135,198	235,156	8,491	.388	28,120	357	6.75	4.85	4.25	262,703	
July	1,176	24,161	80,641	68,538	832	.51	71,323	141,207	230,871	9,267	.393	30,223	320	6.75	4.85	4.25	255,711	
August	1,300	25,501	80,587	66,276	782	.52	82,954	147,678	216,406	7,736	.393	36,445	291	6.75	4.85	4.25	292,545	
September	1,178	23,460	81,574	61,974	539	.54	70,054	147,478	209,520	8,264	.393	34,831	321	6.75	4.85	4.25	285,094	
October	1,302	25,665	82,679	60,044	583	.55	80,473	147,328	217,384	9,007	.388	37,191	426	6.75	4.85	4.25	318,041	
November	1,226	23,901	83,922	63,451	600	.55	69,750	170,067	233,599	8,378	.385	27,723	342	6.75	4.85	4.25	284,929	
December	1,235	23,894	84,197	64,084	500	.52	72,672	143,576	244,428	7,776	.385	22,475	294	6.75	4.85	4.25	213,861	
<b>1930</b>																		
January	1,359	25,444	84,624	65,846	757	.50	68,296	146,077	246,185	8,763	.385	26,534	290	6.75	4.85	4.25	265,407	
February	1,239	23,552	84,709	67,452	430	.49	63,220	144,022	249,806	8,320	.380	25,898	189	6.75	4.85	4.25	280,143	
March	1,293	24,551	84,300	69,876	579	.49	68,997	139,865	256,867	10,375	.379	28,625	293	6.75	4.85	4.25	264,372	
April	1,332	24,854	85,760	69,805	450	.47	63,027	138,975	256,155	8,684	.372	29,001	175	6.75	4.85	4.25	251,140	
May	1,340	24,355	85,495	72,724	669	.46	60,699	141,190	255,738	11,481	.371	24,512	302	6.75	4.85	4.25	240,495	
June	1,312	23,542	74,799	77,946	849	.44	59,408	141,506	262,621	8,765	.371	23,825	257	6.75	4.85	4.25	237,377	
July						.46					.371			6.75	4.85	4.25		
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Prior to July, 1922, these figures were compiled by the *Tanners' Council*. Since July, 1922, they have been compiled by the *U. S. Department of Commerce, Bureau of the Census*, representing practically the entire industry. Hence the figures from July, 1922, on are not directly comparable with those for preceding months.

<sup>2</sup> Based on figures compiled by the *U. S. Department of Commerce, Bureau of the Census*. The data embrace returns from packers, tanners, dealers, importers, and manufacturers. Data on leather have been converted to pounds or square feet on the basis of the average weights of each class from original detailed reports in skins, sides, backs, butts, pounds, etc., which may be obtained from the Bureau of the Census on request. Stocks in process represent leather in process of tanning, which takes several months to complete, while finished stocks are those completely tanned.

<sup>3</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. The exports under sole and belting cover sole leather only, while under upper leather are included cattle, calf, goat, sheep and lamb, and patent. Exports of shoes include men's and boys', women's and children's boots and shoes but exclude slippers, athletic shoes, sandals, and other leather footwear.

<sup>4</sup> Compiled by the *U. S. Department of Labor, Bureau of Labor Statistics*, representing average monthly prices at tanneries in 6 principal centers.

<sup>5</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from over 1,000 firms each month, comprising almost the entire industry. Figures for the years 1914, 1919, and 1921 are those reported by the census of manufacturers for those years. Monthly data from November, 1921, appeared in May, 1924, issue (No. 33), p. 97. Further details as to classes given in press releases and details by States are given twice a year.

<sup>6</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, by 206 identical factories (including data in earlier months for 1 factory now out of business), representing 87 per cent of the leather-glove industry, according to the census of manufacturers, 1921. Details by classes are given in monthly press releases.

<sup>7</sup> Average for last 4 months of year.

<sup>8</sup> Average for last 6 months of year.

Table 38.—NEWSPRINT PAPER

YEAR AND MONTH	NEWSPRINT PAPER												Price roll, f. o. b. mill <sup>1</sup>	
	Production			Consumption by publishers	Shipments			Stocks, end of month			Imports	Exports		
	United States <sup>2</sup>		Canada <sup>3</sup>		United States <sup>4</sup>	United States <sup>2</sup>	Canada <sup>3</sup>	At mills		At publishers				In transit to pubs.
	Total	Ratio to capacity	Total	United States <sup>2</sup>				Canada <sup>3</sup>	United States <sup>2</sup>	Canada <sup>3</sup>	United States <sup>4</sup>	United States <sup>2</sup>		Canada <sup>3</sup>
	Short tons	Per cent	Short tons											Dolls. per cwt.
1913 monthly average												18,320	12,233	\$2.25
1914 monthly average												26,990	24,382	2.25
1915 monthly average												30,701	20,384	2.05
1916 monthly average												39,019	38,601	2.70
1917 monthly average	113,251			113,858			38,998		124,789			46,593	45,026	3.35
1918 monthly average	105,024		61,251	110,248	106,049	62,083	24,035	13,325	154,952	41,155		49,689	50,425	3.41
1919 monthly average	114,543		67,284	142,091	114,880	67,922	23,929	12,597	155,185	40,983		52,311	55,203	3.88
1920 monthly average	125,997		72,931	148,760	125,215	72,563	23,324	10,682	144,712	52,006		60,822	59,469	6.00
1921 monthly average	102,103		67,339	147,957	102,172	66,930	29,940	17,033	188,797	28,211		66,042	62,969	5.00
1922 monthly average	120,641		90,028	170,738	121,035	90,499	22,837	10,572	171,121	36,657		85,772	79,960	3.69
1923 monthly average	123,750		105,519	151,179	123,111	104,793	22,207	14,745	175,797	40,601		109,070	94,830	3.89
1924 monthly average	122,548		112,750	136,829	122,505	112,063	29,357	19,789	176,855	33,942		113,103	101,615	3.83
1925 monthly average	127,527		126,851	148,897	127,862	127,096	26,867	22,454	152,733	32,205		120,702	116,805	3.70
1926 monthly average	140,352		156,811	166,780	140,399	156,562	16,662	13,881	148,043	36,194		154,223	144,332	3.50
1927 monthly average	123,791	79	173,912	172,998	122,877	171,896	24,843	30,052	216,726	43,820		165,589	156,822	3.25
1928 monthly average	117,913	82	198,425	177,241	116,449	199,919	35,201	40,999	196,650	46,078		179,578	183,882	3.25
1929 monthly average	115,547	80	227,214	190,244	117,032	219,590	27,213	26,520	186,486	50,040		201,742	209,220	3.25
<b>1928</b>														
September	102,821	74	186,396	169,625	107,834	197,532	35,687	43,800	191,287	48,229		164,648	170,840	3.25
October	122,415	81	217,290	189,240	121,729	222,430	36,380	37,018	188,980	45,289		200,362	214,228	3.25
November	123,646	90	223,645	207,056	122,761	233,924	34,691	26,254	187,223	53,674		201,416	196,187	3.25
December	115,049	84	208,484	185,626	115,033	215,133	34,469	19,139	195,822	52,624		207,727	213,162	3.25
<b>1929</b>														
January	123,822	85	212,191	183,502	120,263	209,020	38,003	21,406	197,480	45,982		196,882	195,047	3.25
February	103,644	77	187,200	170,864	108,375	186,395	35,642	25,536	188,595	48,050		165,331	174,469	3.25
March	114,586	79	218,147	198,722	120,003	119,739	30,534	24,045	174,750	45,673		182,994	244,167	3.25
April	118,679	82	221,784	189,986	121,548	220,270	27,102	25,741	166,089	46,724		178,076	162,381	3.25
May	123,504	82	245,644	200,826	124,840	247,449	25,778	23,893	154,948	51,425		206,036	214,342	3.25
June	113,407	81	225,055	192,424	114,558	233,920	24,602	24,199	161,318	48,716		202,398	219,895	3.25
July	111,578	77	229,045	173,375	112,616	227,502	23,603	28,993	191,647	44,781		210,497	199,692	3.25
August	120,868	80	225,873	172,239	118,789	224,254	25,656	29,785	205,532	44,676		209,901	217,638	3.25
September	108,155	80	227,665	193,045	107,495	226,623	26,490	30,742	190,331	52,535		196,123	201,250	3.25
October	122,009	81	251,914	207,218	122,040	252,591	26,573	30,064	188,570	51,864		221,010	232,441	3.25
November	113,729	81	252,046	205,814	116,725	253,219	23,549	28,891	198,550	61,525		221,078	229,142	3.25
December	112,583	80	230,008	194,907	117,131	234,100	19,023	24,946	220,024	58,524		230,579	230,171	3.25
<b>1930</b>														
January	124,851	86	206,305	176,172	124,262	202,008	18,778	29,154	231,879	48,925		198,620	199,773	3.25
February	112,394	83	189,154	171,889	110,714	178,691	20,552	39,598	224,155	47,174		154,138	163,204	3.25
March	113,328	80	207,485	187,594	109,686	208,629	24,004	38,661	210,054	42,915		187,513	225,252	3.25
April	109,967	78	228,048	199,485	109,346	221,050	24,546	45,948	197,621	44,690		186,025	159,802	3.25
May	118,093	80	237,681	248,638	114,702	239,034	27,924	44,409	199,363	46,702		207,605	225,251	3.25
June	108,398	80	213,634	229,910	106,883	212,670	29,507	45,229	200,651	36,274		206,927	194,322	3.25
July	102,840	73	216,978		103,018	209,511	29,284	52,862						3.25
August														
September														
October														
November														
December														

<sup>1</sup> Newsprint prices are averages of wholesale weekly prices of roll newsprint f. o. b. mill from U. S. Department of Labor, Bureau of Labor Statistics.

<sup>2</sup> Data on production, shipments, and mill stocks of newsprint in the United States prior to May, 1923, from the Federal Trade Commission; since then from the Newsprint Service Bureau, covering almost the entire industry.

<sup>3</sup> Production, shipments, and mill stocks of newsprint, comprising practically the total production of Canada, furnished by the Newsprint Service Bureau; exports from Department of Trade and Commerce, Dominion Bureau of Statistics. Monthly data from 1920 appeared in June, 1922, issue (No. 10), p. 49.

<sup>4</sup> Consumption, publishers' stocks, and stocks in transit, compiled by the Federal Trade Commission through May, 1923, have been compiled since then by the American Newspaper Publishers' Association from reports of about 422 publishers who were included in the 600 reporting to the Federal Trade Commission and had on hand on May 31, 1923, a total of 133,312 tons of paper as against 176,347 tons held by those reporting to the Federal Trade Commission on that date. Monthly data on newsprint paper from 1920 appeared in June, 1922, issue (No. 10), pp. 45-47.

<sup>5</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Prior to Sept. 1, 1916, imports include only paper valued at not above 2.5 cents per pound; from Sept. 1, 1916, to Apr. 24, 1920, not above 5 cents per pound; and from Apr. 24, 1920, to date not above 8 cents per pound.

<sup>6</sup> Annual averages are slightly larger than computations from monthly figures owing to receipt of annual instead of monthly reports from a few small firms.

Table 39.—BOOK PAPER AND PRINTING

YEAR AND MONTH	BOOK PAPER <sup>1</sup>								BOOK PUBLICATION <sup>2</sup>		SALES BOOKS <sup>3</sup>		PRINTING <sup>4</sup>	BLANK FORMS <sup>5</sup>
	Production		Shipments	Stocks, end of month	New orders		Unfilled orders, end of month		American manufacture	Imported books	New orders	Shipments	Activity	New orders
	Actual	Ratio to capac.			Coated	Uncoated	Coated	Uncoated						
	Short tons	Per cent	Short tons		Per cent of normal production		Days' production		Number of editions	Thousands of books		Relative to 1923	Thous. of sets	
1917 monthly av....	74,357	-----	72,958	36,845	-----	-----	-----	-----	728	110	-----	-----	-----	-----
1918 monthly av....	70,763	-----	71,464	29,622	-----	-----	-----	-----	695	75	-----	-----	-----	-----
1919 monthly av....	76,232	-----	76,665	31,643	-----	-----	-----	-----	648	67	10,046	9,850	-----	-----
1920 monthly av....	92,039	-----	91,895	23,719	-----	-----	-----	-----	621	81	9,592	11,118	-----	-----
1921 monthly av....	60,499	-----	59,353	36,234	-----	-----	-----	-----	581	113	7,665	8,264	-----	-----
1922 monthly av....	81,827	-----	82,037	38,221	-----	-----	-----	-----	604	116	10,779	10,083	98	-----
1923 monthly av....	93,466	-----	92,355	46,439	-----	-----	-----	-----	626	113	11,344	11,488	100	-----
1924 monthly av....	102,509	-----	102,814	48,851	86	96	10	14	611	144	10,988	11,260	100	-----
1925 monthly av....	107,038	-----	106,236	58,870	82	92	9	12	667	131	11,991	11,916	101	27,145
1926 monthly av....	112,182	-----	112,054	62,354	86	93	8	13	681	137	11,931	11,967	100	31,529
1927 monthly av....	110,963	84	110,335	71,212	82	84	9	9	733	113	12,133	11,931	103	34,524
1928 monthly av....	125,578	88	124,932	80,890	83	81	10	8	708	155	12,400	12,329	107	50,952
1929 monthly av....	136,209	96	134,907	77,208	87	83	10	8	699	150	12,317	12,640	112	60,741
<b>1928</b>														
September.....	117,374	86	120,895	82,403	81	80	10	7	835	261	11,837	11,976	105	50,114
October.....	132,633	87	133,429	81,579	83	86	10	8	933	160	13,958	14,605	113	67,957
November.....	126,001	90	124,615	82,395	84	80	10	7	765	104	12,730	13,080	112	59,429
December.....	122,221	87	122,221	82,395	77	82	7	6	797	264	11,123	12,462	114	63,614
<b>1929</b>														
January.....	131,999	95	132,791	79,099	81	82	10	8	508	150	12,861	12,167	117	54,165
February.....	122,015	92	126,286	74,353	94	87	9	9	681	113	11,762	11,984	126	53,306
March.....	136,657	93	139,253	71,399	104	91	10	9	914	201	12,317	12,414	124	63,633
April.....	138,024	95	139,404	71,399	89	84	10	10	718	108	12,718	12,176	123	62,074
May.....	138,024	92	137,034	74,255	86	80	10	9	601	135	12,748	12,154	123	70,169
June.....	129,743	94	130,132	74,255	84	82	9	8	695	125	12,332	12,445	101	58,687
July.....	130,768	91	130,245	74,908	82	81	10	9	501	131	11,476	13,737	103	57,225
August.....	138,614	93	136,951	77,248	85	77	9	8	819	177	12,839	13,631	103	54,054
September.....	135,842	103	135,434	78,020	87	86	10	8	739	57	12,977	12,226	107	56,428
October.....	154,860	104	138,290	79,580	89	92	11	8	807	134	13,834	14,147	108	75,622
November.....	144,020	105	139,123	85,946	82	84	8	7	873	235	12,108	12,785	102	66,464
December.....	133,939	98	133,939	85,946	83	75	8	6	537	228	9,832	11,819	103	57,063
<b>1930</b>														
January.....	148,672	103	144,509	91,103	87	87	11	7	449	156	13,028	11,993	110	55,321
February.....	121,911	100	124,349	90,192	90	87	11	8	514	251	11,684	11,587	108	63,793
March.....	132,833	-----	125,574	98,309	93	83	10	8	790	338	12,347	12,176	108	72,340
April.....	136,869	101	126,604	110,106	89	86	11	7	646	241	11,664	12,237	107	54,901
May.....	124,551	93	122,094	117,813	67	73	10	6	621	147	11,730	10,967	104	68,630
June.....	115,832	87	111,662	120,169	-----	-----	-----	-----	-----	-----	12,688	12,540	-----	64,544
July.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10,903	10,572	-----	-----
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the *American Paper and Pulp Association*, beginning with June, 1923, figures previous to that date having been compiled by the *Federal Trade Commission*, representing practically complete production. Owing to variations in the number of reporting firms, beginning with June, 1923, the data on production and stocks have been computed by link relatives, based on identical firms from the previous month. Shipments during this period have been computed by applying to the computed production figures the ratio of shipments to production of the firms reporting. Data on new orders and unfilled orders are compiled from weekly reports of a smaller number of mills, 28 on coated paper and 10 on uncoated. Unfilled orders show the average number of days which orders on hand will need for completion.

<sup>2</sup> Compiled by the *Publishers' Weekly*. Imported books are those of foreign manufacture, catalogued and marketed by American publishers. Between 10 and 15 per cent of the books manufactured in America are new editions, the remainder being new books, while about 95 per cent of the books manufactured in this country are by American authors. Annual averages from 1913 through 1916 appeared in the August, 1927, issue (No. 72), p. 58.

<sup>3</sup> Compiled by the *Sales Book Manufacturers' Association* from reports of 11 manufacturers, estimated to represent 90 per cent of the industry east of the Rocky Mountains. The sales books included are those commonly known as duplicate and triplicate books used by retail stores in recording their sales; all sizes and styles are included, but not interchangeable covers and accessories. Monthly data on new orders from 1919 appeared in the July, 1926, issue (No. 59), p. 24.

<sup>4</sup> Compiled by the *United Typothetae of America*, representing the activity of job printing plants in 52 cities in 30 States, based on the productive hours of each department, the departments being weighted by their relative importance. Monthly data from 1922 appeared in the November, 1927, issue (No. 75), p. 25.

<sup>5</sup> Compiled by the *Continuous Fold Printers Association*, from reports of 7 firms, representing from 80 to 90 per cent of the industry and presenting data on new orders of continuously printed and folded forms, such as invoices, bills of lading, etc., used by railroads, steamship lines, banks and commercial concerns. The association's reports show number and value of orders and number of parts, divided as between railroad and steamship forms and commercial and bank forms. Monthly data from 1925 appeared in the May, 1928, issue (No. 81), p. 48.

<sup>6</sup> 11 months' average, February to December, inclusive.

Table 40.—PAPER BOARD AND BOXES

YEAR AND MONTH	BINDERS' BOARD <sup>1</sup>		BOX BOARD <sup>2</sup>										PAPER-BOARD SHIPPING BOXES <sup>3</sup>					
	Production	Short tons	Operation		Production	New orders	Unfilled orders, end of month	Consumption, waste paper	Shipments	Stocks, end of month	Stocks of waste paper, end mo.		Operating time			Production		
			Thous. of inch-hours	Per ct. capac.							At mills	In transit and unshipped purchases	Total	Corrugated	Solid fiber	Total	Corrugated	Solid fiber
	Short tons										Per cent of normal			Thousands of square feet				
1921 mo. av.	1,569			101,861						31,667			50	45	65			
1922 mo. av.	2,256			147,745						28,967			70	66	81	251,842	174,543	77,299
1923 mo. av.	2,675			170,490						45,031			79	79	79	288,976	211,654	77,322
1924 mo. av.	2,314	8,442	81.0	185,627	185,788	98,370	176,854	185,411	50,271	162,097	45,383	74	72	79	316,286	231,190	85,095	
1925 mo. av.	2,712	8,352	80.6	197,788	197,970	102,502	185,638	197,702	54,472	172,962	43,508	78	78	75	356,980	274,516	82,464	
1926 mo. av.	3,067	8,636	84.4	210,743	208,857	99,800	201,829	210,162	56,509	153,773	52,090	80	81	77	394,527	303,822	90,705	
1927 mo. av.	2,474	8,063	75.4	206,444	206,353	99,798	197,956	206,761	48,570	144,716	49,016	75	75	76	407,823	315,405	92,418	
1928 mo. av.	2,972	8,743	73.1	229,399	230,393	87,029	214,258	228,359	49,201	138,236	53,103	77	75	80	435,755	337,327	98,429	
1929 mo. av.	2,796	9,085	75.8	246,575	242,466	82,562	232,388	245,721	60,503	163,646	94,346	82	84	78	495,700	393,726	101,974	
<b>1928</b>																		
January	2,547	8,095	69.5	205,795	201,923	82,657	194,378	198,360	50,035	158,427	62,191	69	67	75	317,988	227,280	90,708	
February	4,382	8,249	70.7	214,730	219,153	88,748	198,573	212,412	51,590	145,823	60,048	77	75	84	424,107	326,430	97,677	
March	3,626	9,089	72.0	232,437	250,663	96,439	214,527	242,739	41,845	145,961	47,332	80	78	85	447,457	348,835	98,622	
April	3,450	8,549	73.2	230,785	223,302	88,057	216,967	231,519	41,632	137,380	47,561	74	72	80	429,507	327,815	101,692	
May	3,720	8,958	73.8	247,183	230,184	76,372	225,297	240,834	47,255	131,390	46,385	72	69	80	425,895	323,493	102,402	
June	2,705	8,630	71.1	236,099	236,077	80,834	211,107	229,901	55,818	134,577	43,490	76	74	83	447,118	341,291	105,827	
July	2,153	8,335	71.4	206,246	211,152	82,325	194,261	209,412	51,044	137,068	62,066	72	71	75	424,551	335,732	88,819	
August	3,092	9,564	75.4	237,776	241,228	84,726	218,429	233,885	50,150	121,529	48,118	79	77	84	464,255	364,756	99,499	
September	2,431	8,645	77.1	231,324	242,028	89,907	223,009	236,004	47,788	120,857	53,354	79	78	80	455,931	359,553	96,378	
October	2,644	9,827	77.9	253,180	250,744	83,979	245,734	254,530	46,062	132,712	73,245	88	89	83	477,926	374,342	103,584	
November	2,196	9,096	77.9	245,713	252,859	94,969	228,247	241,524	49,450	140,583	49,992	82	82	79	478,609	370,302	108,307	
December	2,718	7,884	67.5	211,516	205,408	95,329	200,572	204,184	57,738	152,529	43,457	71	72	68	435,718	348,090	87,628	
<b>1929</b>																		
January	3,172	9,549	78.5	257,909	246,845	89,643	243,404	251,812	58,661	141,389	49,115	78	78	77	451,172	352,021	99,151	
February	2,581	8,661	77.1	233,103	233,832	89,936	222,019	233,284	59,067	130,890	54,132	84	85	80	494,105	383,191	110,914	
March	2,917	9,642	79.1	263,252	269,179	98,016	246,660	263,038	57,065	142,026	51,531	86	86	85	510,680	398,777	111,903	
April	2,994	9,496	77.9	256,486	256,400	99,610	236,150	252,622	58,295	147,427	67,736	82	83	79	492,272	387,596	104,676	
May	3,491	9,641	79.1	266,484	251,625	88,048	249,880	263,684	62,541	150,250	53,157	82	83	79	490,117	386,241	103,876	
June	3,092	9,013	76.9	233,164	223,723	73,330	232,060	236,147	61,747	156,352	55,543	85	87	74	506,830	406,908	99,922	
July	2,828	9,228	75.7	244,318	244,510	76,091	214,574	242,696	62,779	170,745	62,967	80	82	82	481,762	384,885	96,877	
August	3,443	9,806	77.5	265,063	269,951	80,634	256,339	267,039	61,268	171,218	59,480	89	91	82	550,170	448,920	101,250	
September	2,903	8,745	77.7	242,032	249,553	85,866	231,029	245,957	59,394	175,279	87,700	89	91	82	544,276	434,351	109,925	
October	2,682	9,707	76.7	269,611	269,884	84,237	254,163	270,929	60,331	186,806	70,020	91	93	86	574,171	457,425	116,746	
November	1,882	8,690	74.4	241,780	218,499	66,725	230,046	238,447	60,967	193,534	51,650	79	81	72	485,306	387,935	97,371	
December	1,661	6,844	58.6	185,699	175,586	58,612	172,336	182,999	63,949	197,841	49,012	63	66	55	367,533	296,457	71,076	
<b>1930</b>																		
January	2,261	8,772	75.0	237,344	244,536	69,940	223,288	233,812	66,498	180,055	54,142	74	75	72	468,548	369,950	98,598	
February	2,054	8,972	82.4	221,314	213,251	62,134	216,717	221,447	66,438	179,497	54,577	77	78	75	508,222	404,516	103,706	
March	1,898	8,643	73.3	230,679	226,770	58,591	229,909	229,625	67,492	192,957	54,629	77	80	69	500,061	414,746	85,315	
April		8,581	72.7	245,167	249,848	66,868	230,993	241,458	72,071	181,125	51,950	75	78	65	502,462	410,812	91,650	
May		8,378	71.5	240,187	234,405	63,237	232,581	238,099	74,908	185,972	34,919	74	76	68	483,965	390,884	93,081	
June		7,842	69.1	221,525	221,526	58,866	210,793	225,336	70,904	184,451	38,241	73	74	69	498,165	393,130	105,035	
July																		
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Compiled by the Binders Board Manufacturers' Association, from reports of 6 firms (including in previous years firms since consolidated or out of business), the association's output representing 84 per cent of the total output of the industry in 1925, according to the census of manufacturers.

<sup>2</sup> Compiled by U. S. Department of Commerce, Bureau of the Census, from reports of 89 identical manufacturers each month, including figures from the members of the Paperboard Industries Association, formerly included in the Box Board Association, prorated from weekly reports. These box board data included all paper board of more than 0.009-inch thickness, such as strawboard, chip board, news board, etc., used for making boxes. Similar paper board designed for making specialties and boards of less than 0.009-inch thickness are not classed as box board. Capacity data are determined by the number of working days in each month, Sundays and holidays excluded. The data almost completely cover the box-board industry.

<sup>3</sup> Data from the Paperboard Industries Association, comprising the former National Container Association, which in turn had merged the statistical activities of the Container Club and the National Association of Corrugated and Fiber Box Manufacturers, who formerly reported separately. 30 identical companies report corrugated board data and 11 plants report solid fiber data. Data for the former individual associations, extending back to 1919 for the Container Club, are given in the August, 1923, issue (No. 24), but are not comparable with data shown here, as the former National Association of Corrugated and Fiber Box Manufacturers reported in their totals single face board (used principally for wrapping purposes), which is excluded from the tabulation above. Monthly data for 1921 and 1922 on the present basis, including relative prices of finished board and raw materials, appeared in the November, 1923, issue (No. 27), p. 89. The production of boxes is measured by the area of board passing through the box machines.

Table 41.—WRAPPING, FINE, AND TOTAL PAPER<sup>1</sup>

YEAR AND MONTH	WRAPPING PAPER				WRITING (FINE) PAPER				ALL OTHER GRADES			TOTAL PAPER			
	Production		Shipments	Stocks, end of month	Production		Shipments	Stocks, end of month	Production	Shipments	Stocks, end of month	Production		Shipments	Stocks, end of month
	Actual	Ratio to ca-pac.			Actual	Ratio to ca-pac.						Actual	Ratio to ca-pac.		
			Short tons	Per cent			Per cent	Per cent	Short tons	Per cent	Short tons			Per cent	
1917 mo. av. ....	60,626	-----	57,946	53,551	24,030	-----	23,578	32,500	70,658	69,422	41,093	493,304	-----	238,113	
1918 mo. av. ....	59,500	-----	60,588	37,664	30,668	-----	30,495	29,308	77,757	78,619	29,308	504,294	-----	189,240	
1919 mo. av. ....	57,851	-----	58,993	54,702	28,647	-----	28,902	36,845	76,085	76,394	37,500	515,861	-----	238,999	
1920 mo. av. ....	69,324	-----	68,573	26,013	32,444	-----	32,544	29,268	98,627	97,095	36,594	533,278	-----	181,910	
1921 mo. av. ....	54,300	-----	53,213	55,465	20,207	-----	19,900	37,377	70,426	70,453	49,044	409,398	-----	239,697	
1922 mo. av. ....	69,689	-----	68,375	61,228	30,088	-----	29,859	36,630	102,758	102,640	47,488	552,748	-----	235,371	
1923 mo. av. ....	85,320	-----	81,866	67,370	31,341	-----	30,511	43,913	90,630	89,570	53,279	594,996	-----	278,239	
1924 mo. av. ....	84,639	-----	83,470	108,635	30,810	-----	30,512	50,278	92,752	95,767	57,811	618,946	-----	345,203	
1925 mo. av. ....	90,615	-----	93,822	99,577	37,410	-----	37,345	50,650	99,737	99,127	62,855	690,114	-----	353,290	
1926 mo. av. ....	89,582	-----	90,416	68,741	38,259	-----	38,035	51,571	102,790	102,755	74,312	693,346	-----	330,267	
1927 mo. av. ....	90,596	85	88,122	75,621	37,226	91	37,321	50,564	99,825	99,455	70,436	668,829	82	341,254	
1928 mo. av. ....	93,698	87	92,605	93,141	38,230	87	37,775	53,499	102,379	101,962	67,211	706,576	85	379,147	
1929 mo. av. ....	88,883	83	89,267	87,143	38,996	89	38,755	49,489	102,613	101,680	58,293	727,872	-----	355,124	
<b>1928</b>															
May.....	97,793	87	94,761	96,802	40,904	87	40,863	53,791	107,475	105,705	71,569	751,619	83	393,406	
June.....	90,577	84	89,309	98,344	38,225	84	38,875	53,155	104,725	104,977	71,006	711,686	82	407,687	
July.....	88,477	86	94,228	92,467	33,984	80	34,562	53,156	95,469	96,056	70,578	651,529	77	396,122	
August.....	100,779	89	100,174	93,340	39,331	84	38,938	53,535	110,677	109,154	74,438	735,099	83	396,137	
September.....	83,582	84	86,173	91,977	34,885	80	34,885	53,361	100,138	102,437	70,140	670,124	81	381,356	
October.....	96,907	85	94,900	93,416	39,680	84	39,839	53,788	112,529	115,565	61,340	757,344	83	372,565	
November.....	91,249	87	91,286	93,203	37,463	88	36,676	54,418	102,703	101,483	63,578	726,775	87	377,735	
December.....	90,979	81	88,159	96,123	35,263	80	33,817	55,805	93,374	91,785	62,015	668,402	79	388,545	
<b>1929</b>															
January.....	101,604	81	100,690	95,288	38,228	93	40,522	50,934	106,157	104,445	62,902	759,719	91	384,887	
February.....	87,082	89	86,298	93,107	37,789	90	38,885	49,849	100,337	102,634	60,605	684,699	86	372,623	
March.....	91,746	86	96,700	86,596	41,348	93	43,788	47,373	104,355	102,091	53,205	751,944	86	346,172	
April.....	91,286	85	91,377	86,075	41,819	94	40,564	50,213	104,506	102,278	55,486	750,800	88	348,570	
May.....	94,302	85	92,227	87,733	41,660	90	42,368	49,488	111,182	107,735	58,932	713,012	87	358,727	
June.....	87,191	85	86,406	88,091	38,513	90	37,897	50,103	100,897	100,098	59,875	710,713	84	358,673	
July.....	84,093	79	85,775	86,233	37,624	85	36,608	47,583	100,503	101,783	57,592	751,102	83	352,788	
August.....	91,849	83	90,655	87,104	38,943	84	39,644	46,840	105,055	104,638	58,009	760,392	86	356,125	
September.....	83,356	84	83,939	86,518	36,166	88	34,936	48,058	97,715	97,209	58,515	703,266	89	343,843	
October.....	89,021	80	93,650	82,491	41,830	91	40,868	48,830	113,260	114,395	56,189	790,591	89	346,032	
November.....	86,196	84	86,196	82,458	38,746	91	36,809	50,749	99,192	97,863	57,500	723,663	88	347,229	
December.....	78,872	77	77,295	84,025	35,281	83	32,176	53,848	88,194	84,974	60,700	634,568	78	345,819	
<b>1930</b>															
January.....	84,693	79	86,133	82,616	41,234	92	42,099	54,573	98,057	95,211	63,546	734,851	87	501,495	
February.....	77,226	78	78,771	81,074	39,170	95	38,347	55,385	95,950	102,526	59,728	686,285	87	497,458	
March.....	88,639	90	86,732	80,311	42,560	97	40,006	57,930	90,489	87,437	62,771	698,578	92	390,817	
April.....	86,561	88	87,060	80,421	41,133	87	38,088	58,337	96,160	92,072	66,858	715,875	81	412,339	
May.....	85,346	86	84,322	81,414	38,688	79	38,031	60,226	92,442	92,528	66,773	699,308	77	429,058	
June.....	77,138	84	79,375	79,207	33,854	74	29,995	64,091	93,149	88,119	71,803	648,896	78	435,681	
July.....															
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Data to May, 1923, from the Federal Trade Commission, representing practically complete production; beginning June, 1923, production compiled from reports of the American Paper and Pulp Association and prorated to represent complete production on the following percentages calculated on the production in the last seven months of 1923, as compared with the total for that period derived from the Federal Trade Commission reports and the census of manufactures: Wrapping paper, 57 per cent; fine paper, 80 per cent; "All other grades," comprising bag, tissue, hanging, felts and building and other paper, 65 per cent. Total paper figures are the aggregate of the three previous production or stock columns plus, up to May, 1923, the figures on newsprint, book paper, and paper board as compiled by the Federal Trade Commission, and, after May, 1923, the figures on book paper compiled by the American Paper and Pulp Association, the figures on newsprint as compiled by the Newsprint Service Bureau, and the figures on box board as compiled by the U. S. Department of Commerce, Bureau of the Census, except that from June through October, 1923, when these latter figures were not compiled, the paper-board figures of the American Paper and Pulp Association have been used, prorated up to complete production by the percentages which they bore to the box-board figures in 1924, or 60 per cent on production and 73 per cent in stocks. Stock figures represent paper at mills only. Shipment data for wrapping and writing paper beginning June, 1923, have been compiled by applying to the prorated production figures the relation of shipments to production of reporting mills, the shipments for "all other grades" being prorated at 65 per cent. The capacity ratio for total paper is computed by the American Paper and Pulp Association on firms reporting directly to that association and is therefore based on a somewhat smaller proportion of the industry than the other total figures.

<sup>2</sup> 5 months' average, September to December, inclusive.

Table 42.—WOOD PULP AND PAPER PRODUCTS

YEAR AND MONTH	WOOD PULP										ABRASIVE PAPER AND CLOTH <sup>1</sup>		ROPE PAPER SACKS <sup>2</sup>
	Mechanica <sup>3</sup>					Chemical					Shipments		
	Production <sup>3</sup>	Con- sumption and shipments <sup>3</sup>	Stocks, end of month <sup>3</sup>	Im- ports <sup>4</sup>	Production <sup>3</sup>	Con- sumption and shipments <sup>3</sup>	Stocks, end of month <sup>3</sup>	Im- ports <sup>4</sup>	Price, sulphite, un- bleached <sup>5</sup>	Do- mestic	Foreign	Ship- m'ts	
1909-1913 monthly average.....				16,463				25,521					
1913 monthly average.....				13,991				31,130	\$2.23				
1914 monthly average.....	106,824			18,105	129,325			38,092	2.16				
1915 monthly average.....				14,505				32,860	2.12				
1916 monthly average.....	125,678		112,145	21,876	160,572		25,855	35,104	3.81				
1917 monthly average.....	120,589	117,804	145,567	23,256	159,375	157,797	44,799	33,231	4.81				
1918 monthly average.....	108,617	109,817	131,170	15,457	158,008	158,930	33,671	32,728	3.84				
1919 monthly average.....	120,817	120,660	154,251	16,854	161,247	160,375	53,725	36,147	3.52	68,150	9,171		
1920 monthly average.....	131,525	132,308	120,079	19,429	185,780	185,536	33,720	56,096	6.58	78,363	11,695		
1921 monthly average.....	105,668	106,214	166,889	15,895	127,786	127,467	53,411	42,196	3.50	47,957	4,379	100	
1922 monthly average.....	123,495	127,802	136,664	17,984	165,198	166,438	52,518	86,869	2.56	72,394	8,836		
1923 monthly average.....	131,073	131,266	95,900	25,007	185,253	200,642	62,472	89,745	2.97	86,916	10,943		
1924 monthly average.....	145,727	139,796	195,007	20,493	199,140	200,793	58,492	106,400	2.58	79,002	10,165		
1925 monthly average.....	142,464	143,569	225,804	27,591	205,785	206,147	41,335	111,044	2.68	86,891	12,435		
1926 monthly average.....	154,083	153,495	204,065	25,313	222,937	223,597	42,089	118,971	2.87	84,634	13,565		
1927 monthly average.....	132,473	137,560	190,693	20,467	215,666	215,181	40,232	119,181	2.64	81,665	16,050		
1928 monthly average.....	133,827	136,436	152,378	20,907	215,261	215,827	43,361	124,460	2.52	90,859	18,580	99	
1929 monthly average.....	133,629	138,886	130,903	22,789	229,033	228,570	37,009	134,649	2.54	89,023	20,630	94	
<b>1929</b>													
January.....	149,772	144,205	130,209	25,832	236,636	235,170	41,366	151,240	2.45	96,056	17,753	103	
February.....	126,171	125,598	130,797	14,228	213,582	216,544	38,134	117,876	2.45	86,037	21,457	96	
March.....	147,640	136,880	141,557	16,481	231,836	231,526	37,638	85,074	2.45	101,845	22,194	90	
April.....	162,042	142,920	160,875	23,314	233,742	234,638	36,150	123,757	2.45	98,394	24,642	83	
May.....	166,375	148,251	178,963	21,044	241,354	242,254	34,112	121,989	2.49	95,224	26,040	81	
June.....	142,915	136,669	185,209	24,014	225,940	223,016	36,188	153,956	2.53	90,355	16,696	96	
July.....	122,946	136,695	171,535	18,724	221,388	220,714	35,940	161,185	2.60	88,566	11,400	85	
August.....	111,878	145,432	137,982	24,731	237,762	235,310	37,354	142,502	2.60	100,924	20,564	101	
September.....	102,202	133,514	106,669	20,666	218,980	219,842	35,796	134,533	2.60	99,221	17,819	95	
October.....	122,923	146,600	88,762	27,020	245,072	244,992	35,916	145,878	2.60	91,782	24,238	115	
November.....	122,166	140,240	70,688	21,223	227,996	225,444	37,554	144,178	2.60	69,103	24,134	102	
December.....	126,523	129,623	67,588	36,186	214,068	212,880	37,962	133,250	2.60	50,771	20,628	86	
<b>1930</b>													
January.....	142,617	144,498	65,706	28,423	237,226	237,442	36,786	171,463	2.60			103	
February.....	136,898	131,389	71,215	39,105	223,178	220,216	37,414	178,802	2.60			96	
March.....	163,392	135,389	99,218	27,329	238,578	230,144	42,416	101,961	2.60			92	
April.....	158,709	132,728	123,002	20,634	231,504	223,354	44,710	92,525	2.55			90	
May.....	162,911	136,293	147,710	17,432	231,134	225,362	44,622	100,246	2.48			80	
June.....	138,997	124,770	159,294	18,534	211,620	205,862	45,306		2.48			87	
July.....									2.48				
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Data compiled by the *Abrasive Paper and Cloth Manufacturers' Exchange*, estimated to represent 90 per cent of the industry. The totals given include the shipments of garnet, emery, flint, and artificial (silicon, carbide, and aluminous oxide) paper, cloth, and combinations. Figures are stated in equivalent reams 9 by 11 inches in size. The data submitted show that in 1919 the total shipments were made up of the following approximate percentages: Garnet 39, emery 8, flint 32, and artificial 20 per cent. Details are given in the association's reports.

<sup>2</sup> Compiled by the *Rope Paper Sack Manufacturers' Association*, comprising 15 manufacturers, said to represent approximately 95 per cent of the industry. Rope paper sacks are bags or sacks made principally of old rope and used for flour, cement, lime, plaster, etc., but the figures presented here include only flour and meal sacks and are thus on a different basis from those formerly included.

<sup>3</sup> Data on production, consumption, and shipments by mills and stocks from the *Federal Trade Commission* to May, 1923, representing practically complete production; thereafter compiled from reports of the *American Paper and Pulp Association* prorated to represent complete production on the following percentages calculated on the production in the last 7 months of 1923 as compared with the total for that period derived from the Federal Trade Commission reports and the Census of Manufactures: Mechanical pulp, 65 per cent; chemical pulp, 50 per cent.

<sup>4</sup> Imports from the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*.

<sup>5</sup> Price of sulphite domestic wood pulp is monthly average from *U. S. Department of Labor, Bureau of Labor Statistics*.

<sup>6</sup> 12 months' average July, 1921, to June, 1922. Numerical data not furnished by the association.

Table 43.—BUILDING COSTS AND HOUSING

YEAR AND MONTH	BUILDING MATERIAL PRICES <sup>1</sup> (1st of mo.)		INDEXES OF CONSTRUCTION COSTS							CONSTRUCTION VOLUME <sup>2</sup>	PLUMBING FIXTURES <sup>7</sup>	FIRE LOSSES		REAL ESTATE MARKET ACTIVITY <sup>10</sup>	CANADIAN CONSTRUCTION <sup>11</sup>			
	Frame house	Brick house	Factory building costs <sup>3</sup>	Construction costs <sup>3</sup>	Frame	Brick, wood frame <sup>4</sup>	Brick, steel frame <sup>4</sup>	Reinforced concrete <sup>4</sup>	Construction costs <sup>5</sup>			Wholesale price, 6 pieces	United States and Canada <sup>8</sup>			Canada only <sup>9</sup>	Rel. to 1926	Thous. dolls.
	Relative to 1913		Rel. to 1914	Relative to 1913								Rel. to 1913	Dollars			Thous. of dollars		Rel. to 1926
1913 mo. av.	100	100	100	100.0	100	100	100	100	100	100	\$67.58					\$32,013		
1914 mo. av.			100	88.6	12 97	12 100	12 98	12 98	99	97			2,027			20,163		
1915 mo. av.				92.6	12 99	12 103	12 101	12 102	100	95			1,139			6,993		
1916 mo. av.				147.4	12 109	12 114	12 122	12 120	114	108			1,707			8,276		
1917 mo. av.				181.2	12 134	12 140	12 155	12 147	152	91			1,674			7,070		
1918 mo. av.				189.2	12 164	12 171	12 179	12 171	175	63			2,651			8,320		
1919 mo. av.				198.5	12 212	12 219	12 209	12 210	198	86			1,934			15,836		
1920 mo. av.				251.3	12 269	12 284	12 257	12 264	247	47			2,281			21,300		
1921 mo. av.			179	201.8	12 196	12 216	12 201	12 207	200	89			2,499			20,011		
1922 mo. av.	182	186	170	174.5	12 190	12 196	12 185	12 188	184	135			3,646			27,654		
1923 mo. av.	207	209	202	214.1	209	219	212	210	201	157	126.45		2,885			26,188		
1924 mo. av.	201	203	198	215.4	205	218	210	206	202	163	119.84		2,777	96.0		23,022		
1925 mo. av.	196	197	195	206.7	202	210	202	200	199	177	112.81		2,548	104.2		24,831		
1926 mo. av.	195	195	197	208.0	204	213	199	201	197	180	107.64		2,742	100.0		31,079		
1927 mo. av.	187	188	193	206.3	205	214	197	200	200	188	104.27		1,889	92.7		34,913		
1928 mo. av.	178	183	191	206.8	204	213	197	200	199	197	100.35		2,023	87.9		39,336		
1929 mo. av.	177	182	190	207.0	204	214	197	201	203	196	98.91		35,185	3,197		48,054		
<b>1929</b>																		
May	177	182	190	205.2	204	214	197	201	203	211	98.16		32,129	2,551	88.6	64,860		
June	176	181	190	205.7	204	214	197	201	203	231	97.54		33,606	3,079	82.3	72,420		
July	177	182		204.8	204	214	197	200	202	218	97.94		31,986	5,027	85.6	57,941		
August	177	182		205.9	204	214	197	201	203	239	98.84		30,447	3,776	86.7	58,622		
September	176	182	190	207.6	205	214	197	201	201	259	98.97		29,249	2,040	79.8	46,959		
October	178	183		206.3	205	215	198	202	202	233	99.20		31,652	3,777	85.8	57,084		
November	178	182		208.5	206	215	198	202	201	235	100.58		29,062	3,864	80.6	45,376		
December	177	181	192	209.5	204	214	197	201	202	169	100.58		39,726	4,081	75.2	32,549		
<b>1930</b>																		
January	178	182		209.0	204	214	197	202	203	131	100.55		42,344	5,100	75.0	37,530		
February	178	182		206.5	204	215	198	203	203	114	103.69		43,207	2,412	74.5	28,464		
March	177	181	189	206.8	202	213	196	201	203	131	104.51		42,964	3,783	70.3	24,263		
April	173	176		207.2	202	213	196	200	201	146	105.46		43,551	2,331	73.0	48,779		
May	177	181		205.9	201	213	196	200		176	105.99		38,415	3,941	73.5	46,862		
June	175	179	189	203.4	198	212	193	198			99.25		31,818	3,266		54,728		
July				201.0	197	211	193	197						2,560		37,374		
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Building material price indexes representing the relative cost of building materials entering into the construction of a 6-room frame house and a 6-room brick house, from the U. S. Department of Commerce, Bureau of Standards, Division of Building and Housing, and Bureau of the Census, are based on prices paid for material by contractors in some 60 cities of the United States. The prices are weighted by the relative importance of each commodity in the construction of a 6-room house.

<sup>2</sup> This index number, furnished through the courtesy of the Athertham Construction Co., is designed to show the relative changes in the cost of constructing a standard concrete factory building. The company believes that the year 1914 gives a normal base and that July, 1920, with an index number of 265, represented the peak of costs. Beginning with June, 1923, the Morton C. Tuttle Co. has also prepared an index on a similar basis, with practically identical results. These index numbers are given as of the first day of the month.

<sup>3</sup> The construction cost index, computed by the Engineering News Record, is based upon the costs of steel (structural shapes, Pittsburgh base), cement (f. o. b. Chicago exclusive of bags), lumber (southern pine, New York base), and the rates paid common labor in the steel industry through 1920, after which common labor rates are averages reported from about 20 cities by correspondents of the Engineering News Record. The prices are weighted on the basis of the total production of steel, cement, and lumber, and the total supply of common labor. Monthly data from 1914 appeared in June, 1923, issue (No. 22), p. 52. These index numbers are given as of the first day of the month.

<sup>4</sup> Compiled by the American Appraisal Company and represent construction costs for each month as based upon material and labor costs prevailing in the United States, weighted in accordance with cost percentages determined from buildings of each type actually constructed. Details by districts and description of method of compilation may be found in the American Appraisal News for January, 1925, p. 9. Quarterly data, 1920 to 1923, inclusive, appeared in October, 1925, issue of the SURVEY (No. 50), p. 26.

<sup>5</sup> Compiled by the Associated General Contractors of America, combining indexes of wages and materials in the proportion of 40 per cent for wages and 60 per cent for materials, believed to be the average of all types of construction. The wage figures are those reported for hod carriers and common labor by the National Board of Builders' Exchange for 12 cities: Atlanta, Baltimore, Boston, Chicago, Cincinnati, Cleveland, Detroit, Los Angeles, New York, Philadelphia, San Francisco, and St. Louis. The material prices are averages for the same 12 cities as compiled by the Engineering News Record for the following materials: Sand, gravel, crushed stone, Portland cement, common brick, lumber (all weighted equally), hollow tile (weighted one-half), and structural and reinforcing steel (both together weighted one-half). Monthly figures from 1921 were given in the May, 1927, issue (No. 69), p. 22.

<sup>6</sup> Compiled by the Associated General Contractors of America to show actual installations in construction as contrasted with contracts let. The index is a simple average of structural steel bookings, common-brick bookings, Portland cement shipments, loadings of sand, gravel, and stone, shipments of face brick and shipments of enameled sanitary ware. To allow for lag between the factory and the job, the index computed from these data for a particular month is shown as the construction installation index for the following month. Monthly data since the beginning of 1921 were given in the May, 1927, issue (No. 69), p. 22.

<sup>7</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, as an average of reports from 12 manufacturers and dealers of combined net selling prices to retailers, without freight, on the following competitive fixtures: Bathtub, washstand, water-closet, sink, two-part cement laundry tub, and 30-gallon range boiler, the prices of each item being given separately on monthly press releases.

<sup>8</sup> Compiled by the National Board of Underwriters and represent fire losses in the United States and the District of Columbia. These figures include both insured and uninsured losses caused by fire and lightning. The members of the board, in reporting losses show only the net loss. In order to aggregate a gross loss a differential of 25 per cent, which represents the difference between the sound value and the loss, is added to give a gross fire loss.

<sup>9</sup> Compiled by the Monetary Times, from weekly reports, representing property losses only, exclusive of losses due to forest fires. Details by Provinces are shown in the periodical since 1924. Monthly data from 1909 appeared in the December, 1927, issue of the SURVEY (No. 76), p. 48.

<sup>10</sup> Compiled by the National Association of Real Estate Boards, from the number of deeds recorded in 63 cities. The activity of each month of 1926 is taken as the form of activity for that month.

<sup>11</sup> Canadian building contracts furnished by McLean Building Reports (Ltd.); monthly data from 1920 appeared in July, 1922, issue (No. 11), p. 46.

<sup>12</sup> Average of quarterly figures.



Table 44.—BUILDING AND ENGINEERING CONSTRUCTION<sup>1</sup>

YEAR AND MONTH	CONTRACTS AWARDED														
	UNITED STATES (37 States)														
	Total construction— all types			Commercial Buildings			Industrial Buildings			Educational Buildings			Hospital and Institu- tional Buildings		
	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.
1925 monthly average.....	14, 477	78, 019	500, 536	1, 590	13, 339	72, 704	443	5, 858	40, 912	335	5, 109	35, 532	78	1, 170	9, 254
1926 monthly average.....	14, 227	73, 649	531, 743	1, 688	12, 696	76, 741	482	6, 745	58, 209	333	4, 547	31, 757	82	1, 233	11, 092
1927 monthly average.....	15, 384	70, 881	525, 255	1, 801	11, 818	77, 743	470	5, 905	41, 171	375	4, 623	31, 650	100	1, 567	13, 540
1928 monthly average.....	16, 688	80, 546	552, 357	1, 965	13, 266	73, 717	506	7, 949	52, 949	397	5, 249	33, 250	95	1, 667	13, 727
1929 monthly average.....	14, 348	65, 964	479, 524	2, 012	13, 478	77, 724	557	9, 065	63, 043	378	5, 054	31, 826	99	1, 625	12, 684
<b>1928</b>															
January.....	11, 799	63, 717	427, 169	1, 676	11, 429	68, 852	419	5, 198	37, 970	147	3, 498	23, 369	53	1, 373	11, 182
February.....	13, 368	68, 847	465, 331	1, 859	10, 178	57, 695	505	6, 060	34, 881	179	3, 157	18, 650	62	1, 206	8, 311
March.....	18, 925	88, 090	592, 567	2, 279	11, 716	73, 075	517	7, 100	48, 804	348	5, 316	33, 881	94	1, 240	9, 824
April.....	20, 136	94, 361	642, 237	2, 239	14, 614	82, 758	540	11, 050	85, 093	409	5, 125	31, 985	96	1, 435	10, 436
May.....	20, 509	95, 156	667, 097	2, 146	15, 113	91, 200	518	6, 222	37, 146	548	7, 161	46, 851	114	1, 373	10, 642
June.....	20, 061	94, 381	650, 466	2, 091	14, 654	93, 942	511	10, 887	63, 537	703	7, 390	46, 135	106	1, 913	14, 396
July.....	17, 653	82, 125	583, 433	1, 991	17, 609	95, 697	438	6, 289	31, 400	686	5, 905	36, 926	100	1, 697	12, 759
August.....	17, 947	78, 873	516, 970	2, 035	12, 553	58, 911	506	8, 748	42, 607	611	5, 762	35, 713	117	1, 659	11, 913
September.....	15, 653	76, 348	581, 674	1, 788	11, 878	60, 068	514	10, 580	114, 780	396	6, 019	38, 801	112	2, 354	23, 845
October.....	17, 929	85, 703	597, 104	2, 113	14, 097	67, 330	626	10, 004	62, 259	289	4, 965	31, 293	102	1, 970	17, 148
November.....	14, 330	73, 756	471, 482	1, 843	13, 785	68, 309	540	6, 898	38, 665	263	4, 490	30, 023	94	1, 955	16, 519
December.....	11, 945	65, 201	432, 756	1, 523	11, 566	66, 773	433	6, 346	38, 248	180	4, 195	25, 370	91	1, 829	17, 753
<b>1929</b>															
January.....	10, 190	58, 774	409, 968	1, 615	15, 750	100, 378	461	7, 334	63, 109	140	2, 729	17, 746	71	844	8, 057
February.....	9, 749	54, 356	361, 274	1, 606	11, 640	68, 265	491	8, 109	56, 092	169	3, 484	22, 577	58	607	4, 628
March.....	15, 944	77, 698	484, 588	2, 253	13, 518	75, 584	668	9, 499	55, 837	274	6, 349	37, 525	81	1, 078	9, 903
April.....	19, 948	84, 981	642, 061	2, 394	15, 675	77, 988	612	6, 941	68, 230	350	4, 783	29, 857	83	927	6, 977
May.....	19, 422	81, 209	587, 766	2, 399	16, 651	86, 471	623	10, 731	80, 769	497	6, 360	38, 195	120	2, 159	16, 619
June.....	17, 142	71, 826	529, 891	2, 103	13, 934	80, 884	542	8, 434	70, 036	639	6, 663	43, 417	120	1, 694	12, 326
July.....	16, 601	75, 464	652, 436	2, 173	14, 420	91, 348	549	9, 651	66, 604	728	6, 944	47, 979	133	2, 036	15, 697
August.....	16, 053	66, 720	488, 882	2, 187	14, 322	71, 955	579	10, 425	75, 265	603	5, 428	32, 349	117	1, 964	14, 382
September.....	14, 262	59, 872	444, 402	2, 067	13, 514	76, 921	543	7, 748	52, 640	376	5, 075	29, 826	106	2, 401	17, 898
October.....	15, 097	65, 609	445, 642	2, 226	13, 274	67, 733	679	9, 297	60, 864	346	5, 669	36, 893	147	2, 597	19, 992
November.....	10, 483	51, 052	391, 013	1, 805	13, 666	101, 769	516	7, 159	39, 674	216	3, 928	25, 702	85	2, 414	19, 578
December.....	7, 281	44, 008	316, 368	1, 309	5, 369	33, 392	417	13, 453	67, 392	193	3, 232	19, 842	69	773	6, 147
<b>1930</b>															
January.....	7, 587	32, 925	323, 975	1, 670	8, 601	54, 052	379	3, 654	38, 266	182	2, 887	19, 009	63	791	6, 783
February.....	8, 560	38, 236	317, 053	1, 797	10, 712	72, 903	439	4, 007	33, 499	204	4, 068	21, 239	60	1, 316	8, 778
March.....	12, 421	53, 505	456, 119	2, 262	12, 723	77, 002	506	6, 191	74, 333	337	6, 135	35, 350	101	2, 909	23, 803
April.....	14, 686	56, 603	482, 877	2, 331	10, 510	73, 241	543	5, 119	38, 121	401	5, 842	35, 156	115	2, 918	25, 874
May.....	14, 331	53, 732	457, 416	2, 267	9, 897	73, 340	488	8, 023	54, 566	518	6, 213	36, 890	125	1, 401	10, 312
June.....	13, 359	48, 214	600, 573	1, 916	9, 489	59, 080	448	4, 359	93, 619	696	6, 730	48, 919	125	1, 903	19, 675
July.....	12, 535	44, 604	367, 528	1, 925	7, 332	46, 941	453	5, 300	35, 167	823	6, 514	42, 748	127	1, 927	13, 073
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Compiled by the F. W. Dodge Corporation from actual contract records in the 37 States east of the Rocky Mountains, estimated to represent about 91 per cent of the total construction volume in the United States. The reports of the F. W. Dodge Corporation show detail subclassifications for each of the nine general classes tabulated above, by districts, States, and principal cities. These data displace all information previously shown in the survey.

Table 45.—BUILDING AND ENGINEERING CONSTRUCTION<sup>1</sup> (Continued)

YEAR AND MONTH	CONTRACTS AWARDED														
	UNITED STATES (37 States)														
	Public buildings			Religious and memorial buildings			Social and recreational buildings			Residential buildings— all types <sup>2</sup>			Public works and utilities <sup>3</sup>		
	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.	Number of projects	Thous. sq. ft.	Thous. dolls.
1925 monthly average.....	71	691	4,543	202	1,572	12,756	200	2,630	20,722	10,640	46,625	222,977	917	1,025	75,135
1926 monthly average.....	83	655	5,602	201	1,364	12,398	215	2,489	20,594	10,040	43,422	222,593	1,105	498	92,758
1927 monthly average.....	109	828	6,622	229	1,433	13,041	241	2,698	21,726	10,703	41,214	214,443	1,357	796	105,320
1928 monthly average.....	115	941	6,354	210	1,283	10,662	222	2,224	17,843	11,595	47,365	232,360	1,584	603	111,494
1929 monthly average.....	109	1,052	10,065	190	1,068	8,843	207	1,642	11,668	9,208	32,306	159,644	1,589	674	104,029
<b>1928</b>															
January.....	83	670	5,845	132	709	5,533	164	1,496	9,190	8,521	39,114	193,189	604	231	72,039
February.....	78	529	4,064	137	855	7,350	167	2,478	35,414	9,577	44,188	238,985	804	196	59,980
March.....	119	1,495	10,306	207	1,535	13,195	272	2,404	17,951	13,672	56,825	275,191	1,417	458	110,338
April.....	113	848	5,847	242	1,536	12,171	277	2,550	19,960	14,447	56,990	276,586	1,773	213	117,401
May.....	115	835	5,985	277	1,680	15,615	304	2,413	20,600	14,351	58,627	288,826	2,136	1,731	150,223
June.....	148	995	6,673	291	1,817	15,321	282	2,697	21,527	13,602	53,723	258,084	2,327	305	130,852
July.....	121	993	6,902	272	1,879	15,347	240	2,632	18,624	11,569	44,671	228,703	2,236	451	137,075
August.....	143	945	6,294	256	1,572	12,283	236	2,573	16,654	11,868	44,575	213,705	2,175	486	118,890
September.....	132	1,354	5,189	209	1,128	9,092	185	1,594	14,078	10,489	40,726	196,807	1,828	715	119,014
October.....	123	822	5,495	203	1,094	8,097	220	2,775	17,093	12,461	49,579	239,692	1,792	396	143,697
November.....	106	628	4,387	170	949	7,861	177	1,861	12,265	10,101	42,170	200,226	1,036	1,021	93,228
December.....	102	1,173	9,258	124	644	6,082	133	1,218	10,756	8,475	37,195	178,323	884	1,035	80,194
<b>1929</b>															
January.....	69	796	4,950	121	494	4,383	138	914	6,755	6,905	29,307	138,069	670	605	66,522
February.....	56	214	1,454	116	773	6,184	155	1,433	14,994	6,414	27,260	129,486	684	836	57,593
March.....	109	2,079	17,914	141	772	6,852	185	1,634	12,552	11,047	41,727	196,912	1,186	1,043	71,508
April.....	119	1,109	24,807	231	1,247	10,688	295	2,106	14,608	13,971	51,731	256,780	1,893	462	152,127
May.....	133	1,089	6,520	242	1,547	14,213	285	1,792	13,576	12,865	40,326	192,015	2,258	553	139,388
June.....	176	960	5,854	276	1,474	13,100	254	1,311	9,624	10,910	36,485	173,809	2,122	872	120,841
July.....	133	685	8,550	263	1,567	11,969	248	1,924	15,816	10,051	37,759	199,925	2,323	478	194,547
August.....	152	948	8,293	225	1,431	10,058	254	1,832	11,204	9,727	29,544	146,088	2,209	825	119,288
September.....	124	2,225	15,575	179	837	6,249	190	1,780	10,683	8,687	25,551	117,381	1,990	740	117,229
October.....	110	1,405	14,197	208	1,241	11,024	207	2,549	12,133	9,300	28,823	137,690	1,874	754	85,117
November.....	59	530	5,956	155	669	5,773	145	1,033	6,676	6,441	21,385	113,523	1,061	268	72,361
December.....	63	586	6,708	120	765	5,618	128	1,401	11,368	4,180	17,773	114,650	802	657	51,821
<b>1930</b>															
January.....	69	614	8,567	103	519	5,504	153	1,409	13,096	4,168	13,826	66,632	800	624	112,065
February.....	91	642	5,581	118	921	9,576	148	726	4,889	4,874	15,207	74,763	829	637	85,825
March.....	124	1,763	18,189	185	1,346	10,096	215	1,433	10,505	7,208	20,713	101,492	1,483	292	105,350
April.....	138	1,779	11,399	204	1,439	8,866	279	2,117	17,409	8,566	25,402	123,142	2,109	1,478	149,670
May.....	112	1,598	10,033	208	1,131	10,374	280	1,416	10,419	7,982	23,462	116,569	2,351	593	134,913
June.....	155	1,115	8,554	236	1,315	11,809	242	1,253	16,187	7,012	20,782	96,816	2,529	1,270	251,916
July.....	156	2,650	13,947	220	873	8,030	270	1,059	8,423	6,297	18,231	84,333	2,264	718	114,866
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> See footnote on p. 65.<sup>2</sup> Include one and two family dwellings, apartments, and hotels; number of buildings about 30 per cent greater than number of projects.<sup>3</sup> Covers floor space of buildings only, data taking no account of projects not susceptible to measurement in terms of floor space, such as highways, pipe-lines, subways, etc.

Table 46.—DOUGLAS FIR, HEMLOCK, AND REDWOOD LUMBER

YEAR AND MONTH	DOUGLAS FIR <sup>1</sup>								NORTHERN HEMLOCK <sup>4</sup>		CALIFORNIA REDWOOD <sup>5</sup>			
	Production	Shipments	New orders	Unfilled orders, end mo.	Exports <sup>2</sup>		Wholesale price <sup>3</sup>		Production	Shipments	Production	Shipments	New orders	Unfilled orders, end of month
					Lumber	Timber	No. 1, common	Flooring						
Thousands of feet, board measure								Dollars M ft. b. m.		Thousands of feet, board measure				
1913 monthly average					56,203		\$9.21							
1914 monthly average					46,548		7.92							
1915 monthly average					23,299		7.88							
1916 monthly average					23,240		10.38							
1917 monthly average	349,510	322,157			23,647		15.88		35,327	33,169				
1918 monthly average	376,882	364,646			22,700		18.25		33,643	37,974	37,460	28,547	28,745	
1919 monthly average	373,263	355,358			25,095		25.42		30,056	37,051	36,404	32,759	39,934	
1920 monthly average	380,351	334,915			37,602		29.92		27,290	19,431	44,243	35,337	30,576	
1921 monthly average	297,738	298,506			37,936		11.83	\$46.95	16,986	18,435	39,618	28,441	29,472	
1922 monthly average	435,673	409,224	416,088		51,225	14,371	15.25	47.24	23,483	26,083	49,035	44,010	47,805	
1923 monthly average	508,789	515,951	510,318		43,165	31,479	19.42	51.57	26,059	25,351	53,240	49,268	46,861	
1924 monthly average	488,831	497,747	509,871		51,960	40,427	17.25	45.33	20,416	18,920	48,136	37,583	38,129	38,344
1925 monthly average	543,966	558,067	562,805		50,659	28,395	17.25	42.18	21,166	18,082	43,294	38,785	38,391	39,458
1926 monthly average	526,844	529,828	536,468		57,874	46,278	16.48	38.93	17,436	19,040	42,326	39,165	42,371	55,030
1927 monthly average	497,673	489,839	494,763		57,159	45,402	16.29	35.65	16,057	19,006	40,610	42,299	42,993	60,165
1928 monthly average	411,239	423,443	437,427	369,949	63,979	46,352	16.76	36.71	16,437	16,728	38,265	37,045	37,664	44,714
1929 monthly average	322,008	319,360	323,873	317,606	75,669	43,951	18.29	44.56	14,087	12,495	37,988	37,165	38,208	40,690
<b>1929</b>														
January	316,039	296,343	349,165	403,331	84,299	59,984	17.77	44.44	18,877	9,855	29,560	30,944	34,801	35,756
February	280,228	304,401	336,184	360,804	57,167	36,999	18.43	40.85	14,802	13,020	32,789	31,000	33,431	37,686
March	350,508	354,537	371,548	331,707	77,443	56,238	19.15	42.26	14,876	9,814	43,797	42,315	47,059	37,898
April	366,624	379,158	383,634	408,255	65,953	60,207	18.76	42.60	13,112	12,625	39,292	36,307	43,363	45,871
May	361,700	384,530	365,728	370,653	95,104	23,309	18.89	42.95	14,488	14,247	48,083	48,742	49,577	45,062
June	334,841	371,995	354,537	278,437	83,966	51,571	18.74	42.69	13,527	16,262	37,866	41,507	38,776	40,257
July	302,162	319,621	306,639	328,574	98,179	43,932	18.72	42.73	15,359	18,614	28,435	28,672	35,657	47,235
August	353,642	333,498	327,678	245,311	72,811	48,303	18.57	42.96	14,908	16,020	44,923	48,648	44,930	44,590
September	315,592	293,209	293,209	299,924	64,085	38,493	18.36	42.79	17,079	12,859	35,291	37,363	34,086	41,837
October	312,011	300,372	303,953	295,895	80,888	50,558	17.82	42.42	11,943	12,378	36,745	36,064	33,080	37,097
November	309,772	266,351	253,369	215,319	53,261	33,508	17.42	42.13	9,230	9,328	48,438	39,170	40,579	38,364
December	260,979	228,300	240,835	273,065	74,967	33,309	16.84	41.94	10,839	4,922	30,634	25,253	23,230	36,626
<b>1930</b>														
January	199,651	220,690	242,178	293,657	47,487	36,064	16.85	41.63	11,153	7,860	41,084	30,893	35,633	27,029
February	275,751	251,131	254,712	290,076	38,106	27,887	16.71	41.35	8,515	5,241	36,667	34,173	36,106	37,211
March	329,021	297,238	290,076	216,662	45,184	37,143	16.75	41.12	11,213	8,919	34,959	31,097	29,768	32,403
April	329,021	286,495	292,314	265,903	70,343	41,942	16.26	38.87	10,700	8,616	39,146	38,576	36,401	31,080
May	307,982	294,552	291,419	201,889	60,420	46,979	15.16	38.19	10,595	9,539	29,650	29,566	30,052	30,880
June					85,005		14.30		9,555	8,455	31,095	28,384	26,092	25,815
July							14.47	36.59			28,335	31,305	30,574	26,254
August														
September														
October														
November														
December														

<sup>1</sup> Compiled by applying the percentage figures of actual production, shipments, and orders to normal production of reporting mills as supplied by the *West Coast Lumbermen's Association* to the actual production of 124 mills for May, 1920. The production in that month was 447,647,540 board feet and has averaged about 75 per cent of the total production of Douglas fir lumber in the United States. Monthly production data for the period 1917-1921 appeared in the December, 1922, issue (No. 16), p. 49.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. Monthly data from 1921 for both lumber and timber appeared in the December, 1923, issue (No. 28), p. 56. Lumber exports comprise boards, planks, and scantlings, rough and dressed, while timber exports include treated and untreated, sawed, excluding logs and round timber.

<sup>3</sup> Compiled by the *U. S. Department of Labor, Bureau of Labor Statistics*, representing averages of weekly prices. No. 1 common is given for the State of Washington, while flooring price is an average for Pacific coast mills, covering 1 by 4, B and better grade, vertical grain. Monthly data on flooring extending back to 1921 appeared in the November, 1926 issue (No. 63), p. 16.

<sup>4</sup> Compiled by the *Northern Hemlock and Hardwood Manufacturers' Association*, representing chiefly Wisconsin and upper Michigan mills, from actual reports of from 60 to 75 mills each month. Yearly averages covering the period 1913-1916 were shown in the August, 1924, issue (No. 36).

<sup>5</sup> Compiled from data furnished by the *California Redwood Association* covering 7 identical mills for 1918, 1919, and 1920, representing 40 per cent of the capacity of all listed mills; for the first 4 months of 1921 covering 10 mills representing 56½ per cent of listed capacity; for the remaining months of 1921 covering 11 mills representing 71 per cent of the total listed capacity; for 1922 to 1924 from 14 mills representing 73 per cent; for 1925 and 1926 from 15 mills representing 79 per cent; and in 1927 from 16 mills representing 98 per cent of the total listed capacity. The actual average monthly production of the 7 reporting mills for 1918 was 14,984,000 feet. On the basis of 40 per cent capacity, the 1918 average monthly production of all mills is computed as 37,460,000 feet. Regarding this as normal production, there has been computed the probable production of the total redwood capacity based on the proportion which capacity of the reporting mills bears to the total of all mills, and in 1925 this computed production was about 2 per cent larger than the total reported by the census of manufacturers. The other data represent a similar relationship between the actual reported figures and the total capacity of all mills. Unfilled orders are reported by 14 mills throughout the period, representing 73 per cent of the industry and prorated to 100 per cent, monthly data on this item from 1924 through 1927 being shown in the April, 1928, issue (No. 80), p. 22.

Table 47.—YELLOW PINE LUMBER

YEAR AND MONTH	SOUTHERN PINE <sup>1</sup>								NORTH CAROLINA PINE <sup>2</sup>		
	Pro-duction	Op-erations	Ship-ments	New orders	Stocks, end of month	Unfilled orders, end mo.	Exports <sup>3</sup>		Price, floor-ing <sup>4</sup>	Pro-duction	Ship-ments
	M ft. b. m.	P. et. full time	Thousands of feet, board measure						Dolls. M ft. b. m.	Thousands of feet, board measure	
1913 monthly average.....							82,270	34,627	\$23.04		
1914 monthly average.....							52,325	24,109	21.37		
1915 monthly average.....							38,353	13,674	20.29		
1916 monthly average.....							40,263	13,933	22.64		
1917 monthly average.....	423,529		441,903	446,405	1,371,652		27,369	10,069	31.54		
1918 monthly average.....	368,307		399,160	354,287	1,116,259		24,993	2,991	33.76		
1919 monthly average.....	380,532		379,701	376,070	937,748		36,481	12,849	55.00	34,230	32,107
1920 monthly average.....	358,081		330,229	306,559	1,187,587		53,096	11,245	74.53	33,514	29,791
1921 monthly average.....	375,438		394,812	399,677	1,211,174		36,061	7,228	35.98	30,164	29,052
1922 monthly average.....	431,633		430,673	451,395	1,177,627		39,522	12,616	45.46	52,543	52,496
1923 monthly average.....	450,165		458,971	451,944	1,086,042		54,368	14,237	41.70	48,257	48,539
1924 monthly average.....	453,376		459,483	463,763	1,099,374		55,827	14,563	41.89	49,144	49,337
1925 monthly average.....	473,336		471,843	474,291	1,162,665		58,420	12,872	46.49	54,188	51,558
1926 monthly average.....	447,857		452,646	445,749	1,106,661	302,881	48,464	10,249	45.11	49,474	48,901
1927 monthly average.....	431,130		427,991	436,772	1,217,034	312,763	59,212	15,178	38.48	51,154	51,138
1928 monthly average.....	416,171	92	435,707	434,267	1,075,415	341,339	59,074	13,631	36.49	48,951	50,392
1929 monthly average.....	381,918	82	372,204	370,896	1,019,783	302,999	56,601	10,635	37.28	53,048	52,176
<b>1929</b>											
January.....	425,009	87	398,047	417,700	1,005,916	306,168	61,693	11,507	36.55	45,143	38,976
February.....	373,118	85	357,918	382,654	1,021,116	330,904	57,815	5,580	36.89	65,506	60,347
March.....	392,771	83	409,229	443,936	1,004,658	365,611	57,116	6,255	37.55	71,610	67,543
April.....	409,423	88	432,754	408,793	981,327	341,650	68,289	10,261	37.35	64,841	57,029
May.....	414,166	87	409,616	388,317	985,877	320,351	59,384	10,722	37.00	61,243	65,954
June.....	369,971	83	370,310	343,106	985,538	293,147	59,263	9,311	37.04	53,270	59,080
July.....	393,932	81	377,571	379,217	1,001,899	294,793	57,275	17,474	37.27	47,831	50,946
August.....	400,274	83	384,203	378,878	1,017,970	289,468	52,630	9,300	37.43	48,993	48,230
September.....	359,757	83	347,704	344,703	1,030,023	286,467	43,087	14,874	36.76	48,132	45,605
October.....	384,227	82	375,228	368,296	1,039,022	279,535	51,211	11,315	39.50	45,878	47,264
November.....	342,631	75	313,137	290,667	1,068,516	257,065	48,363	7,283	36.00	43,995	47,096
December.....	317,741	68	290,725	304,487	1,095,532	270,827	62,487	13,734	38.00	40,138	38,038
<b>1930</b>											
January.....							52,752	9,484	37.12	41,097	36,946
February.....							43,535	12,068	37.39	42,497	38,031
March.....							49,870	17,445	37.20	43,526	39,683
April.....							44,788	12,412	36.39	41,979	39,627
May.....							45,109	11,375	36.53	38,346	36,666
June.....							47,429		33.06		
July.....									33.89		
August.....											
September.....											
October.....											
November.....											
December.....											

<sup>1</sup> The figures for southern yellow pine, except exports and prices, are computed data furnished by the *Southern Pine Association*. The method of computing is first to find the percentage relation between the actual production, shipments, and orders of the mills reporting and the normal production of these same mills, or, in the case of figures after December, 1927, the normal equivalent of the 3-year relative production, on which the association's statistics are now based. This percentage is then applied to the normal production of the 192 mills. The average production in the first four months of 1916, 484,065,392 feet, is taken as normal production. There are no separate normals for new orders and shipments since these items must be governed by production. Assuming that the mills reporting are a good sample of the industry the resulting figures are equivalent to the actual production, shipments, and orders of the 192 identical mills, and hence a fair sample of the industry. The same procedure is followed for stocks except that normal in this case is 1,262,450,326 feet, the average stocks during 16 months ending April, 1916 and after December, 1927, they are calculated from the computed data on production, shipments, and previous stocks. Unfilled orders prior to 1928 are computed on the same basis as new orders and thereafter are calculated from new orders and shipments. The figures are based on actual reports from about 180 mills on production, shipments, and stocks and from about 145 mills on orders. Monthly data for 1921 and 1922 appeared on page 59 of the October, 1923, issue (No. 26). Monthly data 1917 to 1920 appeared in April, 1923, issue (No. 20), p. 49. Monthly data on unfilled orders from 1926 appeared in the April, 1928, issue (No. 30), p. 22.

<sup>2</sup> Data computed from reports furnished by the *North Carolina Pine Association, Inc.*, for mills varying in number from 31 to 56, by first determining for a given month the percentage which the actual data bear to the normal production of the identical mills reporting. This percentage is then applied to an arbitrary figure of 70,000,000 board feet, which represents the approximate monthly average normal production of the mills which reported in 1919. The resulting figures represent computed data as of identical mills for each month.

<sup>3</sup> Exports of southern yellow pine lumber and timber from *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. Monthly data from 1921 on lumber only are given in the December, 1923, issue (No. 28), p. 56. Lumber exports comprise boards, planks, and scantlings, rough and dressed, and exclude short-leaf pine and all other not long-leaf or pitch pine. Timber exports include both treated and untreated, sawed, and exclude logs and round timber.

<sup>4</sup> From *U. S. Department of Labor, Bureau of Labor Statistics*, and represent average weekly prices for yellow-pine flooring, grading B and better, at Hattiesburg, Miss.

<sup>5</sup> 5 months' average, August to December, inclusive.

Table 48.—OTHER PINE LUMBER

YEAR AND MONTH	WESTERN PINE <sup>1</sup>					CALIFORNIA WHITE PINE <sup>2</sup>					NORTHERN PINE <sup>3</sup>					
	Production	Shipments	Stocks, end of month	New orders	Unfilled orders, end of month	Production	Shipments	Stocks, end of month	New orders	Unfilled orders, end of month	Lumber			Lath		
											Production	Shipments	New orders	Production	Shipments	
	Thousands of feet, board measure										Thousands					
1917 mo. av.																
1918 mo. av.						52,561	31,900	285,113								
1919 mo. av.						48,263	37,284	287,645								
1920 mo. av.						58,368	36,037	267,276				40,273	50,139		9,581	6,357
1921 mo. av.						39,110	29,114	370,303				34,204	27,768		8,669	9,881
1922 mo. av.						66,387	45,784	382,216				44,512	48,357	49,033	12,574	11,097
1923 mo. av.						101,876	61,972	494,177				47,739	44,063	38,423	13,290	12,292
1924 mo. av.						96,061	76,765	568,840				42,959	44,621	44,406	10,825	11,796
1925 mo. av.						116,576	106,570	567,021				46,599	45,204	41,127	12,110	9,550
1926 mo. av.						102,694	95,804	601,215	91,932	159,663		40,687	45,163	41,110	10,527	10,735
1927 mo. av.						90,983	92,308	575,181	84,414	178,805		40,537	37,643	34,262	9,908	9,998
1928 mo. av.						102,289	100,282	533,175	88,693	182,102		41,451	41,234	37,582	8,782	8,104
1929 mo. av.						95,867	93,072	509,637	86,693	166,989		34,881	38,584	33,874	5,533	7,323
<b>1928</b>																
May						134,273	107,267	473,560	102,659	164,921		45,687	44,152	35,974	9,967	9,316
June						133,064	107,019	477,079	89,802	183,610		51,756	47,243	47,018	11,706	11,151
July						123,923	105,432	506,119	96,433	190,185		52,384	48,300	41,820	13,476	9,734
August						145,491	118,310	516,764	102,805	181,014		57,335	47,755	41,435	12,318	11,099
September						122,708	105,246	538,136	86,716	188,747		51,618	44,618	44,209	12,419	8,897
October						126,086	119,074	552,422	100,760	183,493		55,031	51,378	41,109	11,777	8,937
November						107,501	94,587	562,528	81,755	181,665		26,718	41,308	30,282	5,230	6,500
December						76,164	79,072	566,914	81,452	214,016		19,679	27,632	25,179	4,118	5,121
<b>1929</b>																
January	110,687	144,759	848,483	153,905	125,112	69,930	100,633	535,998	95,905	176,506		23,818	33,167	35,363	4,692	6,952
February	110,668	150,452	814,966	156,989	140,166	44,382	97,671	483,998	84,890	168,766		22,054	32,302	29,398	2,966	5,185
March	169,132	186,045	807,258	188,363	149,942	67,401	102,908	437,089	95,848	161,865		22,654	40,159	39,732	2,938	7,316
April	221,335	203,210	810,663	186,278	143,208	87,238	106,018	427,396	101,387	195,268		42,363	44,043	44,379	7,722	8,003
May	232,911	208,794	823,062	187,658	129,948	127,672	109,599	442,929	105,597	143,950		56,031	47,541	37,478	10,001	9,632
June	225,193	197,514	837,246	197,481	128,310	118,422	98,779	463,175	105,832	156,475		50,537	44,197	37,142	6,318	10,256
July						120,968	97,302	486,416	88,208	150,643		50,733	44,825	40,012	8,822	10,083
August						126,934	102,334	516,220	95,986	162,494		49,846	43,764	42,485	8,442	9,258
September						94,983	93,900	523,772	80,250	153,701		41,882	37,054	30,291	6,268	6,509
October						131,790	88,363	567,326	71,398	172,154		38,422	43,737	35,578	5,739	6,892
November						100,037	62,585	607,775	60,174	172,309		8,548	32,726	20,167	1,310	5,006
December						60,651	56,767	623,554	54,835	189,732		11,682	19,496	14,459	653	2,783
<b>1930</b>																
January	90,433	114,708	949,876	127,275	119,678	29,185	64,837	568,607	65,322	151,560		14,935	23,200	22,670	527	3,251
February	104,061	123,660	926,683	128,574	123,422	30,660	68,659	526,140	66,385	148,691		15,549	26,144	21,257	517	3,543
March	168,402	151,353	932,937	144,835	148,942	38,096	81,599	457,060	72,947	155,699		15,549	28,127	23,858	571	3,524
April	213,667	156,388	971,752	152,796	107,874	62,446	79,924	507,578	75,243	145,217		30,690	26,548	25,629	3,215	4,861
May	222,134	154,157	1,013,096	151,726	105,066	102,977	79,984	527,755	76,836	145,312		34,543	27,422	21,076	4,770	3,815
June	143,994	143,994	1,027,688	159,231	103,324	100,203	64,825	539,495	64,689	141,944		41,891	25,160	24,290	4,558	4,001
July																
August																
September																
October																
November																
December																

<sup>1</sup> Compiled by the *Lumber Manufacturers' Association*, from reports received from the *Western Pine Manufacturers' Association*, together with data from nonreporting firms, totaling in all about 64 companies. The monthly total for production, shipments, and new orders is compiled by taking the number of reporting weeks within the month and adding to it the prorated amount for the overlapping weeks at the beginning and the end of the month. As this information is reported for the years of 1929 and 1930 at the same time no data is available for the latter months of 1929. Data on unfilled orders and gross stocks comprise approximately 37 firms for the periods shown.

<sup>2</sup> Compiled by the *California White and Sugar Pine Association* from reports of from 13 to 26 mills prior to 1926; thereafter from 18 identical mills, except for stocks which are by a varying number of mills.

<sup>3</sup> Compiled by the *Northern Pine Manufacturers' Association*, and includes reports from both member and nonmember mills located chiefly in Minnesota. The number of mills has gradually declined from about 20 mills in 1920 to about 13 in 1928. Monthly data on production and shipments from 1920 appeared in the September, 1922, issue (No. 13), p. 48.

Table 49.—HARDWOODS

YEAR AND MONTH	TOTAL <sup>1</sup>						GUM <sup>1</sup>			OAK <sup>1</sup>			WALNUT <sup>1</sup>													
	Production	Shipments	New orders	Stocks, end of month		Unfilled orders, end of month	Stocks, end of month		Unfilled orders, end of month	Stocks, end of month		Unfilled orders, end of month	Lumber <sup>2</sup>					Logs								
				Total	Unsold		Total	Unsold		Total	Unsold		Production	Shipments	Stocks on hand	New orders	Unfilled orders	Purchases	Made into lumber and veneer	Stocks on hand						
	Millions of feet, board measure												Thousands of feet, board measure					M feet, log measure								
1922 mo. av.													1,807	1,927	10,214						1,460	1,327	2,087			
1923 mo. av.													2,538	2,391	8,153	<sup>3</sup> 2,111	<sup>3</sup> 4,207				2,410	2,114	3,282			
1924 mo. av.				<sup>3</sup> 2,639	<sup>3</sup> 2,058	<sup>3</sup> 557	<sup>3</sup> 501	<sup>3</sup> 385	<sup>3</sup> 115	<sup>3</sup> 933	<sup>3</sup> 732	<sup>3</sup> 186	3,529	3,144	11,463	3,359	5,652				2,641	2,727	3,106			
1925 mo. av.	<sup>3</sup> 296	<sup>3</sup> 314	<sup>3</sup> 341	2,765	2,233	513	521	413	103	900	724	169	3,830	3,477	19,282	3,352	7,332				2,958	3,011	4,158			
1926 mo. av.	361	332	340	2,566	1,985	552	446	333	108	853	658	188	2,763	3,220	15,552	3,125	7,500				2,511	2,438	2,069			
1927 mo. av.	330	308	316	2,609	2,045	564	436	324	112	941	753	188	2,962	2,897	11,578	2,899	7,388				2,939	2,645	2,918			
1928 mo. av.	268	276	285	2,801	2,234	566	536	405	131	981	816	164	2,876	3,005	12,868	3,071	5,210				2,444	2,557	2,784			
1929 mo. av.	300	285	286	2,775	2,135	642	487	343	146	963	786	177	3,954	3,492	13,665	3,302	6,635				3,046	2,984	2,074			
<b>1923</b>																										
January	315	296	330	2,954	2,331	624	543	400	143	1,051	865	186	3,063	2,687	13,264	2,628	5,389				2,255	2,416	3,041			
February	270	266	285	2,862	2,282	581	529	402	127	1,030	849	181	2,585	2,762	13,179	2,807	5,491				2,131	2,014	3,229			
March	274	263	266	2,829	2,294	535	535	414	120	1,014	864	150	3,268	3,042	13,327	2,835	4,613				2,185	2,407	2,951			
April	252	251	263	2,839	2,319	520	547	428	119	1,020	871	149	2,955	2,646	13,635	2,652	4,491				2,402	2,678	2,806			
May	244	255	244	2,843	2,305	538	540	420	123	1,005	844	162	2,894	3,388	13,264	4,180	5,540				2,972	2,769	3,009			
June	236	248	263	2,817	2,289	528	555	424	130	1,000	854	146	3,422	3,000	13,530	2,538	5,216				2,519	2,670	2,752			
July	244	263	262	2,786	2,225	547	542	419	124	974	809	165	2,527	2,742	13,116	2,731	5,088				2,633	2,527	2,985			
August	263	285	289	2,771	2,211	557	543	410	132	959	800	159	2,931	2,863	13,166	2,990	5,270				2,736	2,579	3,096			
September	270	293	293	2,731	2,164	566	529	396	133	954	775	161	2,749	3,299	12,625	2,635	4,741				2,274	2,643	2,684			
October	285	315	323	2,722	2,132	589	532	398	134	918	746	171	2,857	3,419	12,249	4,174	5,483				2,702	2,606	2,636			
November	289	308	323	2,696	2,107	589	518	376	142	907	741	166	2,806	3,478	11,668	3,033	5,117				2,504	2,888	2,359			
December	274	263	274	2,757	2,142	615	517	372	145	938	768	170	2,460	2,734	11,396	3,649	6,082				2,014	2,489	1,884			
<b>1929</b>																										
January	308	293	319	2,717	2,102	615	516	369	147	919	751	167	2,974	3,163	12,305	3,307	5,664				2,285	2,538	1,557			
February	319	319	334	2,707	2,057	651	504	344	160	930	757	173	2,780	3,433	11,654	3,662	5,833				2,021	2,126	1,261			
March	315	341	334	2,672	2,024	648	489	332	157	914	751	163	2,993	3,926	10,711	4,104	6,804				2,213	2,539	1,048			
April	319	330	323	2,670	1,982	648	468	318	151	909	739	170	3,724	4,003	10,544	4,078	7,126				2,899	2,799	1,152			
May	296	293	311	2,638	2,015	617	464	328	136	918	748	169	4,508	3,823	11,970	4,120	7,563				3,735	3,005	1,897			
June	300	285	277	2,681	2,031	657	475	325	150	923	747	176	4,532	3,699	12,960	3,625	7,636				3,711	3,241	2,253			
July	311	278	278	2,731	2,088	643	465	318	147	955	785	169	3,839	3,570	12,640	3,627	6,474				2,951	3,217	2,773			
August	334	296	300	2,772	2,122	645	469	325	144	982	802	181	4,608	3,607	14,303	3,266	6,892				3,667	3,358	2,441			
September	334	311	323	2,848	2,239	678	482	328	154	1,004	808	195	4,649	3,289	15,347	3,398	7,000				3,367	3,724	2,148			
October	296	278	281	2,887	2,227	660	482	339	143	1,022	823	199	5,284	4,017	15,817	3,313	6,562				4,158	3,996	2,265			
November	259	221	184	2,979	2,356	622	517	397	134	1,033	852	181	3,807	3,069	17,130	2,513	6,475				3,144	2,975	3,299			
December	210	169	165	2,997	2,383	614	512	387	125	1,049	869	181	3,745	2,301	18,601	1,607	5,590				2,404	2,288	2,790			
<b>1930</b>																										
January	251	206	199	3,061	2,440	614	534	404	130	1,040	877	174	2,363	2,070	18,727	2,071	4,418				1,701	2,021	2,510			
February	255	233	244	3,086	2,451	635	534	408	126	1,052	865	187	1,838	1,771	18,079	1,445	3,704				2,009	1,818	2,682			
March	270	221	203	3,141	2,500	641	552	422	130	1,055	865	189	2,599	1,860	18,905	1,732	3,886				1,788	2,138	2,364			
April	255	218	199	3,182	2,555	627	573	442	130	1,051	870	181	2,654	2,069	19,503	1,638	3,408				1,820	2,011	2,093			
May	240	203	195	3,217	2,614	603	587	456	131	1,038	885	153	1,786	1,717	19,634	1,476	3,389				1,008	1,588	1,649			
June													1,850	1,696	20,281	1,989	3,970				712	1,268	1,198			
July																										
August																										
September																										
October																										
November																										
December																										

<sup>1</sup> Compiled by *Hardwood Manufacturers' Institute*. Data on production, shipments, and new orders are computed by taking the percentage relation of the actual production, shipments, and new orders of the mills reporting, and the normal production of these same mills and applying this per cent to the normal production of 375,000,000 feet, which represents the approximate monthly average production of the mills in the Southern and Appalachian districts. For stock and unfilled orders the average per operating unit for the mills reporting is applied to a fixed number of 700 operating units. The 700 units were arrived at by taking the annual production of 1926, approximately 6,500,000,000 feet, and dividing by 8,736,000 feet, the figures used in determining an operating unit for the mills reporting. The resulting figures represent computed data for the entire country. For gum the fixed number of operating units is 400. Detailed data as to size, species, grades, etc., are given in the regular reports of the Institute.

<sup>2</sup> Compiled by *American Walnut Manufacturers' Association* from reports of identical firms representing from 50 to 60 per cent of the walnut lumber industry. Monthly data on new orders and unfilled orders since July, 1923, were given in the April, 1927, issue (No. 68), p. 25.

<sup>3</sup> 6 months' average, July through December.

Table 50.—TOTAL LUMBER AND FLOORING

YEAR AND MONTH	LUMBER—PRINCIPAL SPECIES				MAPLE FLOORING <sup>1</sup>					OAK FLOORING <sup>2</sup>					
	Exports <sup>3</sup>	Retail yards, 9th Fed. Res. Dist. <sup>4</sup>		Retail yards, 10th Fed. Res. Dist. <sup>5</sup>		Pro- duc- tion	Ship- ments	Stocks, end of month	New orders	Unfilled orders, end of month	Pro- duc- tion	Ship- ments	Stocks, end of month	New orders	Unfilled orders, end of month
		Sales	Stocks, end mo.	Sales	Stocks, end mo.										
Thousands of feet, board measure															
1909-13 m. a.....	178,398										4,572	4,572	12,171	4,719	6,290
1913 mo. av.....	216,037										6,675	6,009	10,544	6,104	7,285
1914 mo. av.....	149,146										7,464	6,877	15,877	7,419	7,578
1915 mo. av.....	93,947										9,205	8,894	17,158	9,525	7,547
1916 mo. av.....	91,208										11,563	11,470	22,489	11,429	16,124
1917 mo. av.....	84,971										11,120	10,446	25,652	8,956	20,074
1918 mo. av.....	85,314										4,858	5,537	25,680	4,781	7,270
1919 mo. av.....	109,268	<sup>6</sup> 30,995	<sup>7</sup> 215,564		10,039	11,848	15,448	14,163	38,289	10,101	11,070	14,431	11,782	15,035	
1920 mo. av.....	129,280	16,786	203,175		10,383	8,259	15,963	5,106	26,723	10,745	7,800	25,859	6,343	11,324	
1921 mo. av.....	100,401	13,838	153,155		8,378	8,121	30,749	8,991	10,176	12,411	13,595	32,875	14,058	12,003	
1922 mo. av.....	127,743	15,496	126,744		11,479	11,934	28,040	12,194	20,311	22,877	23,945	23,006	23,723	33,052	
1923 mo. av.....	146,071	14,651	127,719		11,734	11,805	21,268	11,085	26,804	30,103	28,878	33,609	28,313	44,258	
1924 mo. av.....	161,500	13,403	111,606	<sup>7</sup> 6,544	<sup>7</sup> 47,216	8,603	7,865	23,880	8,085	12,347	34,843	35,306	43,773	35,900	46,562
1925 mo. av.....	161,687	17,187	111,258	7,158	47,173	8,828	8,428	26,979	8,360	10,117	45,808	45,342	47,104	44,785	52,031
1926 mo. av.....	161,714	13,688	95,002	7,037	45,611	9,618	9,983	28,180	7,722	9,334	47,953	45,024	58,293	44,362	42,206
1927 mo. av.....	179,943	11,117	89,587	5,860	43,775	9,563	9,163	27,633	8,696	11,920	43,833	42,756	75,227	42,203	41,606
1928 mo. av.....	193,640	12,355	85,748	5,667	45,020	7,867	7,760	25,535	7,480	9,529	44,286	44,251	76,230	44,464	45,493
1929 mo. av.....	198,134			5,677	45,221	6,549	6,338	23,263	5,676	9,329	33,324	35,778	78,829	31,248	45,367
<b>1929</b>															
January.....	240,384	5,489	79,400	4,333	45,364	7,771	5,114	24,733	5,999	8,019	41,204	31,999	97,000	29,736	44,626
February.....	177,682	3,285	86,453	3,411	46,217	7,022	6,053	25,466	8,317	10,443	24,865	28,551	91,987	31,761	45,666
March.....	200,790	6,564	89,361	6,622	47,564	6,794	6,141	25,494	6,604	11,106	28,497	40,902	80,603	52,642	54,644
April.....	201,858	10,309	93,183	7,276	48,447	5,759	7,583	24,443	8,616	13,337	36,578	41,837	75,744	40,244	68,925
May.....	220,153	14,196	91,369	6,682	48,038	5,625	6,848	22,230	6,336	13,104	41,353	41,558	74,013	33,909	57,496
June.....	211,952	17,248	86,900	5,421	47,688	5,418	6,420	20,964	3,822	10,600	36,722	39,979	72,147	34,479	50,832
July.....	231,516			6,310	46,611	6,450	7,883	21,913	6,159	10,431	37,638	37,002	70,435	25,901	43,895
August.....	181,897			6,429	45,456	6,913	8,435	20,480	6,927	8,881	36,382	37,631	70,198	30,972	35,937
September.....	163,427			6,359	43,829	7,334	7,239	20,827	4,750	7,641	33,055	31,464	72,141	37,388	40,417
October.....	194,065			6,905	42,299	7,813	6,896	22,421	4,297	7,095	35,813	29,704	76,342	19,743	30,887
November.....	153,069			5,035	40,961	5,574	4,379	23,659	3,227	5,717	25,111	21,202	82,103	16,420	25,810
December.....	200,816			3,344	40,176	6,107	3,060	26,523	3,053	5,579	22,667	47,506	83,233	21,775	45,272
<b>1930</b>															
January.....	151,906			2,747	44,903	6,589	4,625	28,314	4,245	5,827	28,617	26,317	87,391	35,286	51,026
February.....	129,070	4,100	89,534			5,992	3,771	30,150	3,696	6,008	27,943	28,272	87,251	29,874	57,602
March.....	152,156	6,657	93,434	5,189	44,741	5,382	4,761	31,017	3,953	5,418	32,038	34,829	85,861	43,893	68,188
April.....	171,344	10,309	93,483	5,611	43,668	5,719	4,768	31,122	4,204	5,353					
May.....	158,853	10,876	92,391	4,750	44,241	5,271	5,357	30,674	4,604	5,224					
June.....	189,075	13,943	89,639	3,803	43,211	3,968	4,469	30,170	4,083	5,430					
July.....															
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Data on maple flooring (including also birch and beech) are compiled by the *Maple Flooring Manufacturers' Association*, said to represent about 70 per cent of the industry. The data for the period 1919-1922 include reports from 20 identical mills; in 1923, 21 mills; in 1924, 18 mills; in 1925, 19 mills; in 1926 and 1927, from 20 to 22 mills. Monthly data from 1920 appeared in July, 1922, issue (No. 11), p. 43.

<sup>2</sup> Compiled by the *Oak Flooring Manufacturers' Association* from reports of from 25 to 54 mills, said to represent about 90 per cent of the total oak-flooring industry. The large increase in reporting mills is due to many firms starting to make oak flooring in 1927. Monthly data from 1912 appeared in May, 1924, issue (No. 33), p. 36.

<sup>3</sup> Exports consisting of boards, planks, and scantlings are from U. S. Department of Commerce, *Bureau of Foreign and Domestic Commerce*.

<sup>4</sup> Data compiled by the *Federal Reserve Bank of Minneapolis*. Stocks represent the inventories of 19 companies retailing lumber through 588 yards in the ninth Federal reserve district; sales represent the total retail business reported by 21 companies operating 625 yards. Data for 1919 were estimated for a few companies on the basis of the correlation of reporting companies of 1919 and 1920. Monthly data from 1920 appeared in October, 1923, issue (No. 26), p. 59.

<sup>5</sup> Compiled by the *Federal Reserve Bank of Kansas City* from reports of approximately 199 retail yards in the tenth Federal reserve district.

<sup>6</sup> 7 months' average, June to December, inclusive.

<sup>7</sup> 6 months' average, July to December, inclusive.



Table 51.—FURNITURE AND MISCELLANEOUS HARDWOODS

YEAR AND MONTH	HOUSEHOLD FURNITURE (Southeastern District) <sup>1</sup>		WHOLESALE PRICES <sup>2</sup>				FURNITURE—GRAND RAPIDS DISTRICT <sup>3</sup>						NORTHERN HARDWOODS <sup>4</sup>		LOWER MICHIGAN HARDWOODS <sup>5</sup>		
	Shipments	Unfilled orders, end of mo.	Beds	Dining room chairs, sets of six	Kitchen cabinets	Living room davenport	Unfilled ord., end of mo.	New orders	Shipments	Outstanding accounts, end of mo.	Cancellations	Plant operations	Production	Shipments	Production	Shipments	Stocks, end of month
	Dolls. average per firm		Relative to 1926				Number days' production		No. days' sales	Per ct. new orders	Per ct. full time	M feet, board measure					
1919 monthly av.....	\$32,000	\$74,000	112.7	106.0	-----	95.2	-----	-----	-----	-----	-----	-----	32,732	33,328	-----	-----	-----
1920 monthly av.....	35,000	72,000	177.9	165.4	-----	112.9	-----	-----	-----	-----	-----	-----	34,206	27,509	-----	-----	-----
1921 monthly av.....	20,000	20,000	134.9	116.7	-----	106.2	-----	-----	-----	-----	-----	-----	27,828	19,067	-----	-----	-----
1922 monthly av.....	29,000	22,000	116.1	102.9	-----	104.4	-----	-----	-----	-----	-----	-----	26,500	34,204	-----	-----	-----
1923 monthly av.....	35,625	53,493	114.2	107.0	-----	107.5	63	24	25	58	15.0	97.3	37,397	38,852	-----	-----	-----
1924 monthly av.....	43,025	53,919	102.4	107.0	-----	106.1	58	27	25	57	11.3	96.8	33,352	28,533	-----	-----	-----
1925 monthly av.....	50,584	55,414	102.4	101.6	100.0	104.4	62	28	27	57	11.2	97.5	34,404	29,202	-----	-----	-----
1926 monthly av.....	55,478	60,789	100.0	100.0	100.0	100.0	64	30	27	53	13.5	100.0	29,981	29,371	7,765	7,504	48,183
1927 monthly av.....	54,650	48,576	96.4	97.3	98.4	96.4	46	28	24	53	13.5	97.2	28,936	27,425	6,695	7,504	38,151
1928 monthly av.....	52,232	44,625	95.2	93.7	99.3	95.3	43	29	26	55	9.2	94.9	29,780	27,535	6,931	6,871	25,651
1929 monthly av.....	59,565	51,684	93.0	93.9	99.7	92.4	48	28	25	51	11.4	94.3	27,804	24,765	-----	-----	-----
<b>1928</b>																	
September.....	65,010	58,576	94.5	94.1	99.3	94.4	49	31	30	65	9.0	101.0	16,624	25,086	4,915	6,467	20,915
October.....	70,030	50,266	94.8	94.1	99.3	94.4	38	31	37	65	10.0	103.0	16,727	31,473	4,411	6,137	19,434
November.....	59,855	51,136	93.8	93.5	99.3	94.4	50	50	35	65	6.0	100.0	21,642	30,646	5,541	7,280	23,206
December.....	41,962	45,885	93.8	93.5	99.3	94.4	39	18	26	59	17.0	99.0	34,639	23,562	6,257	5,695	23,502
<b>1929</b>																	
January.....	51,553	58,765	93.1	93.5	99.3	93.8	40	24	24	56	10.0	97.0	37,916	29,093	5,456	4,950	27,126
February.....	56,778	51,676	93.1	93.5	99.3	92.3	36	23	23	90	9.0	95.0	44,370	30,515	6,237	6,223	26,912
March.....	64,527	40,469	93.1	93.5	99.3	92.3	37	27	24	49	6.0	93.0	42,865	32,605	6,795	6,732	27,443
April.....	57,081	32,776	93.1	93.5	99.3	92.3	34	18	19	42	14.0	94.0	29,755	26,755	5,961	5,053	28,286
May.....	57,605	38,713	93.1	93.5	99.3	92.3	60	49	23	43	4.0	89.0	30,885	23,818	5,825	5,734	28,467
June.....	47,831	36,232	93.2	93.8	99.3	92.3	58	20	22	44	11.0	88.0	31,848	24,444	4,882	4,672	24,364
July.....	53,748	64,573	93.0	93.8	100.2	92.3	68	36	24	46	5.0	90.0	24,961	24,413	6,179	5,875	26,121
August.....	70,482	77,568	93.0	94.3	100.2	92.3	64	30	30	53	5.0	97.0	22,459	27,469	2,595	4,094	17,880
September.....	75,319	84,138	92.8	94.3	100.2	92.3	58	37	32	58	6.0	101.0	17,195	24,275	2,929	6,851	24,606
October.....	82,440	62,355	92.8	94.3	100.2	92.3	45	29	35	61	23.0	104.0	14,643	22,604	3,613	4,189	20,582
November.....	61,523	42,811	92.8	94.3	100.2	92.3	42	28	27	57	13.0	94.0	15,895	18,220	1,940	2,707	16,210
December.....	35,891	30,135	92.8	94.3	100.2	92.3	32	11	18	50	31.0	89.0	21,303	12,969	3,542	3,716	26,639
<b>1930</b>																	
January.....	46,398	46,593	92.3	94.0	102.9	92.3	29	21	21	48	17.0	79.0	29,484	17,119	3,075	2,210	15,065
February.....	56,664	39,067	92.3	94.0	102.9	92.3	27	16	18	31	11.0	72.0	24,694	17,773	2,883	1,686	15,512
March.....	54,203	30,837	92.3	94.0	102.9	92.3	24	15	16	42	13.0	70.0	25,788	18,513	-----	-----	-----
April.....	47,092	22,976	92.3	94.0	102.9	92.3	18	13	16	39	22.0	69.0	23,851	18,201	-----	-----	-----
May.....	41,015	22,028	92.3	94.0	102.9	92.3	26	23	12	37	13.0	61.0	19,560	18,479	-----	-----	-----
June.....	32,956	33,951	91.7	94.0	102.9	92.3	24	10	12	36	23.0	70.0	16,321	13,345	-----	-----	-----
July.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the *Southern Furniture Manufacturers' Association* and represents average shipments and unfilled orders per firm from 42 to 58 firms. The firms reporting are located in the States of Virginia, North Carolina, Tennessee, and Georgia and represent approximately one-third of the production of these States. The reporting firms manufacture large bedroom furniture, dining-room furniture, and chairs.

<sup>2</sup> Compiled by the *U. S. Department of Labor, Bureau of Labor Statistics*, and represent the trend of furniture prices.

<sup>3</sup> Compiled by *Seldman & Seldman* from reports of representative manufacturers of furniture in the Grand Rapids district. Owing to variation in the number of firms reporting each month, the figures have been shown in number of days' production or sales, based on current ratios, or as percentages. The original data are based on value. Monthly data from June, 1923, appeared in the June, 1926, issue (No. 58), p. 24.

<sup>4</sup> Data from *Northern Hemlock and Hardwood Manufacturers' Association*, representing chiefly Wisconsin and upper Michigan mills. These figures represent actual reports from 60 to 75 mills each month. The hardwoods cut are mostly maple, birch, and beech. Annual averages from 1913 through 1918 appeared in the February, 1926, issue (No. 54), p. 65.

<sup>5</sup> Compiled by the *Lower Michigan Lumber Manufacturers' Association* from reports of from 11 to 13 mills operating in lower Michigan, except for November, 1925, when only 8 mills reported. In many instances, fewer firms report on stocks than on the other items. About half of the hardwoods reported consist of maple.

<sup>6</sup> 7 months' average, June to December, inclusive.

Table 52.—LUMBER PRODUCTS

YEAR AND MONTH	PLYWOOD								ROTARY-CUT VENEER <sup>3</sup>		BUSHEL BASKETS <sup>4</sup>		
	Douglas Fir Plywood <sup>1</sup>					Other Plywood <sup>2</sup>			Re-ceipts	Pur-chases	Pro-duction	Ship-ments	Stocks, end of month
	Pro-duction	Ship-ments	New orders (sales)	Un-filled orders, end of month	Stocks, end of month	New orders	Ship-ments	Un-filled orders, end of month					
	Thousands of square feet surface								Number of carloads		Dozens		
1925 monthly average.....						<sup>6</sup> 4,463	<sup>5</sup> 4,695	<sup>5</sup> 5,781					
1926 monthly average.....						3,595	3,905	4,646	<sup>6</sup> 192	192			
1927 monthly average.....						2,876	2,913	3,303	98	97	226,278	213,507	435,709
1928 monthly average.....	<sup>7</sup> 9,922	<sup>7</sup> 9,615	<sup>7</sup> 10,043	<sup>8</sup> 7,169	<sup>8</sup> 7,584	3,428	3,049	4,387	185	206	180,976	186,218	494,322
1929 monthly average.....									206	229			
<b>1928</b>													
January.....						2,469	2,575	2,863	80	132	95,832	58,896	406,694
February.....						2,450	2,896	2,808	97	115	231,987	189,632	449,049
March.....						2,709	3,125	3,807	91	173	205,887	193,910	461,026
April.....						2,450	2,680	2,582	173	185	186,244	152,876	537,033
May.....						3,350	2,578	3,154	165	229	261,359	198,592	609,882
June.....				8,156	7,284	3,237	2,713	3,504	164	244	188,021	254,432	602,083
July.....	8,218	8,387	8,782	7,494	7,251	2,920	2,523	3,918	181	249	229,342	294,662	565,911
August.....	11,094	10,988	11,030	8,024	7,358	4,239	2,961	5,131	259	325	243,056	262,810	570,726
September.....	9,426	9,257	10,245	7,715	7,309	3,381	3,177	5,469	244	199	177,982	285,813	409,110
October.....	13,079	12,003	12,654	6,628	7,704	4,411	4,235	5,817	337	255	156,521	156,407	420,671
November.....	9,291	9,135	8,336	5,307	7,747	5,773	4,147	6,778	222	190	114,184	75,337	464,733
December.....	8,426	7,921	9,212	6,863	8,433	3,749	2,973	6,811	206	178	81,302	111,244	434,942
<b>1929</b>													
January.....	12,743	13,530	16,030	9,001	7,316	3,426	3,746	5,791	175	241	135,090	126,602	331,992
February.....	10,244	11,366	13,357	10,606	6,194	5,339	4,277	6,190	140	186	134,581	68,655	394,452
March.....	11,823	13,295	20,529	16,904	4,722	5,428	4,876	6,053	143	451	187,881	140,205	480,769
April.....	11,655	11,406	14,084	19,105	5,306	5,953	4,067	7,237	307	256	224,835	149,055	565,598
May.....	15,652	15,906	14,342	17,222	5,185	5,369	3,447	8,040	220	157	244,782	152,274	662,636
June.....	13,169	12,778	10,525	14,120	5,702	6,135	4,234	9,724	169	181	202,426	200,814	665,881
July.....	15,567	14,113	12,149	12,308	7,158	10,159	4,533	14,934	272	260	232,860	232,154	674,339
August.....	12,713	12,661	7,863	8,691	7,201	5,103	5,608	13,123	174	122	264,212	360,050	584,410
September.....	11,625	11,698	10,377	5,971	7,415	7,198	5,309	14,691	223	287	190,939	314,904	461,717
October.....	9,292	7,517	7,134	4,850	9,190	8,167	6,070	10,748	251	306	225,014	257,942	428,789
November.....	8,329	7,028	6,405	4,814	10,154	4,318	5,039	10,104	184	141	191,120	94,347	525,562
December.....									214	161	194,958	170,138	558,489
<b>1930</b>													
January.....									149	207	121,580	84,212	395,866
February.....									209	211	152,751	101,721	446,004
March.....									203	120	249,069	241,595	454,811
April.....									181	122	226,929	164,795	524,771
May.....									93	73	209,063	141,710	592,124
June.....									115	133			
July.....													
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Compiled by the Douglas Fir Plywood Institute from reports of 8 members. Data represent the actual movement of plywood in square feet and are combined from weekly reports using 4 or 5 weeks to the month. The members of the institute comprise approximately 70 per cent of the total production of Douglas fir plywood.

<sup>2</sup> Compiled by the Plywood Manufacturers' Association from reports of 18 to 20 members in 1925, 16 to 17 in 1926, and 13 to 16 in 1927. These data represent the business of building up veneers into plywood of from 3 to 8 thicknesses. Details as to kinds of wood and nature of cores are shown in the association's report.

<sup>3</sup> Compiled by prorating the weekly reports of the Wirebound Box Manufacturer's Association from 10 or 11 members, estimated to represent about 80 per cent of the industry, concerning their purchases and receipts of rotary-cut veneer for the manufacture of wire-bound boxes. Details by sizes and sources are given in the association reports.

<sup>4</sup> Compiled by the American Veneer Package Association from reports of about 30 firms each month, representing a large proportion of the industry. The association's reports also contain data on other kinds of baskets.

<sup>5</sup> 9 months' average, April to December, inclusive.

<sup>6</sup> 8 months' average, May to December, inclusive.

<sup>7</sup> 6 months' average, July to December, inclusive.

<sup>8</sup> 7 months' average, June to December, inclusive.

Table 53.—BRICK, TILE, AND TERRA COTTA

YEAR AND MONTH	COMMON BRICK <sup>1</sup>					FLOOR AND WALL TILE <sup>2</sup>				TERRA COTTA <sup>3</sup>		FACE BRICK <sup>4</sup>				
	Plants closed down	Stocks, end of month		Shipments	Unfilled orders, end of month	Wholesale price, red, N. Y. <sup>5</sup>	Production	Shipments		Stocks, end of month	New orders		Production	Shipments	Stocks end of month	Unfilled orders, end of month
		Burned	Un-burned					Quantity	Value		Quantity	Value				
	Number	Thousands of brick				Dolls. per thous.	Thous. of sq. ft.	Thous. of dolls.	Thous. of sq. ft.	Short tons	Thous. of dolls.	Thousands of brick				
1919 monthly average.....						\$15.96				5,252	\$652					
1920 monthly average.....						21.85				5,629	895					
1921 monthly average.....	57	251,949			129,573	15.25				5,930	743					
1922 monthly average.....	23	187,856	<sup>6</sup> 46,687		231,063	17.36				10,524	\$1,163					
1923 monthly average.....	20	224,962	64,918		344,580	19.81				11,316	1,349	1,001	900	1,229	1,937	
1924 monthly average.....	20	275,946	57,340	129,024	281,735	17.04	4,227	3,698	1,253	7,857	1,292	1,219	1,104	2,070	1,976	
1925 monthly average.....	17	279,500	68,597	158,524	281,751	14.70	4,588	4,512	1,624	8,048	14,006	1,688	1,237	1,107	2,285	1,630
1926 monthly average.....	22	305,961	74,079	146,236	252,224	16.19	5,528	5,188	1,943	8,578	13,349	1,612	1,248	1,126	3,116	1,850
1927 monthly average.....	43	440,423	121,610	184,270	267,728	13.88	5,359	4,950	1,892	11,747	12,261	1,207	1,197	1,100	3,716	1,509
1928 monthly average.....	42	433,954	142,822	185,888	231,574	12.93	5,970	5,784	2,202	13,454	12,396	1,181	1,099	1,079	3,426	1,405
1929 monthly average.....	57	361,725	193,999	130,138	186,844	10.73	5,683	5,321	2,089	18,045	9,902	1,076	1,065	997	4,335	1,333
<b>1928</b>																
May.....	5	297,212	125,650	225,747	273,743	13.50	5,729	5,914	2,215	14,431	10,857	1,113	1,306	1,513	3,378	1,445
June.....	3	302,249	130,990	219,522	260,970	13.50	6,192	6,604	2,462	13,031	16,108	1,558	1,279	1,305	3,307	1,441
July.....	11	408,563	208,202	238,941	299,457	13.50	6,452	6,595	2,529	12,837	14,191	1,385	1,139	1,213	3,189	1,675
August.....	14	491,088	206,938	218,339	221,625	13.50	6,841	7,403	2,847	12,343	12,058	1,123	1,247	1,283	3,172	1,658
September.....	21	498,691	257,692	167,078	213,274	12.50	6,621	6,755	2,572	12,253	10,570	1,005	1,099	1,158	2,974	1,506
October.....	49	454,931	91,226	122,078	145,427	12.50	7,636	7,260	2,731	12,627	15,597	1,460	1,240	1,166	2,826	1,483
November.....	67	537,712	287,162	180,360	204,189	12.00	6,429	5,209	2,021	13,376	9,998	949	1,236	973	3,422	1,263
December.....	84	461,357	106,440	136,033	182,791	12.00	5,778	4,332	1,683	14,780	9,453	983	1,053	737	3,820	1,172
<b>1929</b>																
January.....	79	517,120	241,887	115,924	136,014	11.50	5,712	4,299	1,701	16,011	10,056	1,090	1,005	520	4,374	1,148
February.....	82	366,150	184,620	74,537	91,615	11.50	5,601	4,373	1,669	17,489	11,270	1,196	876	501	4,711	1,182
March.....	36	341,843	171,545	76,364	102,389	11.50	6,162	5,251	2,044	18,145	9,961	1,172	992	1,059	4,661	1,380
April.....	19	315,607	153,168	284,793	207,649	11.50	6,562	6,178	2,376	18,609	12,949	1,472	1,190	1,368	4,506	1,455
May.....	15	325,208	168,036	121,641	144,271	11.50	6,300	6,355	2,437	18,465	13,313	1,487	1,271	1,413	4,333	1,463
June.....	50	308,257	154,185	154,021	163,126	11.00	6,247	6,424	2,412	18,092	10,798	1,178	1,277	1,346	4,227	1,448
July.....	17	290,044	95,756	118,834	148,289	10.13	6,244	6,459	2,505	18,301	11,756	1,183	1,194	1,237	4,161	1,503
August.....	56	290,265	110,904	130,982	109,564	10.13	6,376	6,797	2,684	17,919	8,606	940	1,258	1,244	4,142	1,480
September.....	26	217,451	224,530	93,677	110,215	10.50	5,572	5,423	2,158	18,281	7,784	817	1,000	1,011	4,050	1,295
October.....	58	395,919	254,402	151,723	133,083	9.50	5,320	5,090	2,102	18,557	6,566	716	1,095	1,064	4,110	1,285
November.....	115	497,099	291,237	131,919	154,766	10.00	4,385	4,079	1,663	10,028	7,452	790	902	756	4,249	1,165
December.....	132	475,735	247,723	107,241	141,143	10.00	3,653	3,122	1,314	17,641	8,307	870	723	443	4,500	1,189
<b>1930</b>																
January.....	126	428,508	234,126	58,117	115,907	10.50	3,455	3,307	1,351	17,977	8,048	839	501	359	4,591	1,265
February.....	126	513,057	259,889	75,524	140,451	10.50	3,412	3,155	1,235	18,150	5,900	636	553	495	4,645	1,179
March.....	83	368,833	193,430	91,903	150,306	11.00	3,803	3,030	1,175	18,300	5,656	579	439	720	4,335	1,145
April.....	78	327,657	177,704	104,192	172,113	11.25	3,579	3,997	1,503	18,040	7,502	743	664	966	3,922	1,192
May.....	69	303,971	171,867	98,833	137,980	10.50	3,859	4,411	1,622	17,568	6,990	719				
June.....	69	390,782	213,848	123,694	182,680	10.00	3,889	4,301	1,541	17,049	8,326	734				
July.....						10.00					7,829	741				
August.....																
September.....																
October.....																
November.....																
December.....																

<sup>1</sup> Data, except prices, compiled by the *Common Brick Manufacturers' Association of America* from reports of about 100 concerns representing about 30 per cent of the total output of common brick. It should be noticed that the number of plants shut down increases considerably in the winter, owing to seasonal shutdowns in the more northern localities. Details by districts are given in the association's reports. Monthly data from 1921 appeared in May, 1925, issue (No. 45), p. 27.

<sup>2</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from data reported by 39 concerns which produced about 80 per cent of the total production of floor and wall tile in 1923, including the entire membership of the *Associated Tile Manufacturers*. Details by grades and kinds are issued each month in mimeograph form.

<sup>3</sup> Compiled by the *U. S. Department of Commerce, Bureau of the Census*, from the reports of 27 manufacturers who produced over 95 per cent of the total architectural terra cotta made in 1922. Values exclude freight, cartage, duty, and setting charges. Monthly data from 1919 are given in the October, 1924, issue (No. 38), p. 52. Details by districts are given in the press releases.

<sup>4</sup> Data compiled by *American Face Brick Association*, representing averages per plant in order to allow for the variation in number of firms reporting. Average plant figures shown above represent averages per plant of 54 firms from 1928 to date. Prior to 1928 figures were available from only 20 to 30 of these plants; the average of which were built up to include 54 plants by using a 1929 average as a base.

<sup>5</sup> Wholesale prices are monthly averages from *U. S. Department of Labor Bureau of Labor Statistics*, yearly price averages from 1913 to 1918 appeared in the November, 1924, issue (No. 39), p. 101.

<sup>6</sup> 11 months' average, February to December, inclusive.

Table 54.—CHINA AND PORCELAIN PLUMBING FIXTURES AND SAND-LIME BRICK

YEAR AND MONTH	PORCELAIN PLUMBING FIXTURES <sup>1</sup>				VITREOUS CHINA PLUMBING FIXTURES <sup>2</sup>				SAND-LIME BRICK <sup>3</sup>				
	Net new orders	Shipments	Unfilled orders, end of month	Stocks, end of month	Net new orders	Shipments	Unfilled orders, end of month	Stocks, end of month	Production	Shipments by rail	Shipments by truck	Stocks, end of month	Unfilled orders, end of month
	Number of pieces								Thousands of brick				
1925 monthly average.....					4 223, 783	4 238, 280	4 439, 986	4 343, 201					
1926 monthly average.....					258, 791	250, 982	513, 133	501, 241	20, 626	8, 456	12, 319	8, 697	18, 837
1927 monthly average.....	13, 769	17, 486	28, 624	29, 566	224, 136	244, 520	356, 056	555, 213	16, 886	6, 192	10, 897	13, 104	17, 091
1928 monthly average.....	21, 369	15, 818	59, 984	46, 169	256, 640	251, 014	431, 080	503, 442	16, 988	5, 473	11, 637	14, 372	13, 233
1929 monthly average.....	10, 630	9, 808	31, 106	42, 961	242, 781	238, 395	455, 512	576, 358	13, 555	4, 122	10, 193	12, 047	11, 018
<b>1927</b>													
September.....	20, 046	21, 870	34, 972	25, 868	223, 980	235, 883	325, 069	518, 452	21, 680	6, 729	11, 815	18, 689	16, 094
October.....	14, 065	19, 582	29, 455	29, 044	227, 896	245, 725	307, 240	500, 868	18, 928	5, 134	13, 623	14, 423	15, 318
November.....	14, 939	16, 251	28, 143	29, 998	167, 993	180, 498	294, 735	527, 920	18, 086	6, 558	11, 833	13, 468	14, 845
December.....	6, 024	12, 242	21, 925	33, 353	227, 925	190, 076	332, 584	557, 293	13, 912	4, 189	8, 694	18, 538	14, 772
<b>1928</b>													
January.....	18, 545	13, 239	22, 639	37, 374	237, 727	240, 829	329, 482	544, 461	12, 789	4, 945	7, 024	15, 867	14, 830
February.....	12, 986	11, 909	23, 464	40, 930	494, 042	246, 002	577, 522	538, 965	10, 921	3, 738	6, 204	16, 920	12, 625
March.....	42, 245	12, 079	53, 515	42, 442	391, 101	335, 948	622, 215	463, 180	17, 063	4, 273	9, 391	16, 777	16, 942
April.....	60, 022	17, 037	96, 125	48, 831	238, 169	291, 130	569, 254	445, 752	10, 012	4, 829	9, 182	15, 121	14, 123
May.....	26, 775	15, 459	103, 131	50, 819	234, 560	288, 238	515, 576	447, 596	22, 244	7, 752	18, 229	12, 159	14, 445
June.....	13, 405	19, 257	95, 246	40, 823	225, 694	274, 351	466, 919	444, 399	19, 134	5, 120	14, 437	11, 656	11, 718
July.....	12, 976	20, 253	81, 699	48, 621	184, 783	248, 363	403, 339	460, 360	18, 072	6, 055	11, 772	12, 591	11, 762
August.....	12, 960	22, 970	65, 029	47, 690	217, 305	267, 610	353, 034	477, 593	21, 680	8, 284	13, 215	14, 446	14, 503
September.....	9, 939	16, 525	54, 583	50, 953	180, 758	215, 284	318, 508	510, 864	17, 267	6, 767	11, 281	15, 304	14, 455
October.....	22, 665	17, 018	50, 558	50, 956	222, 190	236, 781	303, 917	531, 119	21, 590	5, 562	15, 802	14, 446	13, 435
November.....	11, 715	14, 657	38, 268	47, 550	221, 575	201, 925	323, 562	554, 422	18, 164	4, 588	12, 942	11, 579	10, 447
December.....	12, 195	9, 350	35, 545	47, 044	231, 771	165, 712	389, 626	622, 590	14, 922	3, 765	10, 160	15, 596	9, 509
<b>1929</b>													
January.....	12, 565	11, 576	34, 864	44, 688	277, 050	261, 102	405, 574	570, 749	10, 548	1, 674	6, 206	16, 082	7, 253
February.....	12, 381	9, 219	36, 798	45, 769	485, 657	253, 235	637, 996	540, 639	7, 432	2, 955	5, 942	16, 974	10, 665
March.....	14, 479	9, 483	40, 047	46, 980	207, 681	256, 249	589, 428	549, 410	11, 433	3, 945	9, 498	14, 256	12, 630
April.....	13, 417	12, 193	37, 184	47, 315	205, 870	251, 920	543, 378	544, 899	16, 155	4, 359	13, 580	14, 236	11, 587
May.....	8, 970	10, 059	35, 045	48, 228	199, 977	254, 776	488, 579	543, 987	12, 969	5, 658	13, 107	10, 561	9, 188
June.....	9, 669	10, 807	31, 234	45, 848	196, 707	246, 071	438, 715	591, 633	17, 578	5, 412	13, 757	10, 447	14, 968
July.....	13, 153	11, 845	30, 088	37, 947	244, 351	271, 411	411, 655	582, 314	16, 061	4, 263	12, 266	8, 854	14, 739
August.....	12, 168	13, 873	26, 911	40, 343	242, 596	268, 619	385, 632	559, 418	16, 838	4, 684	11, 615	9, 714	9, 925
September.....	9, 524	9, 569	26, 115	39, 708	195, 931	237, 788	343, 775	566, 776	14, 121	3, 960	10, 951	9, 326	13, 286
October.....	8, 548	8, 269	25, 376	40, 682	240, 606	215, 033	369, 348	601, 832	17, 563	5, 150	10, 866	12, 957	12, 943
November.....	6, 228	6, 541	23, 832	39, 798	215, 092	174, 149	410, 291	624, 472	14, 011	4, 956	9, 938	10, 854	9, 708
December.....	6, 452	4, 257	25, 778	38, 226	201, 858	170, 381	441, 768	640, 171	9, 215	2, 658	5, 246	13, 859	7, 068
<b>1930</b>													
January.....	10, 330	5, 327	30, 374	37, 815	200, 253	205, 673	436, 348	632, 740	6, 586	2, 356	3, 686	13, 691	7, 904
February.....	6, 721	4, 240	32, 781	39, 352	257, 783	180, 683	515, 340	642, 888	4, 827	2, 489	3, 576	10, 286	9, 358
March.....	9, 044	5, 378	35, 961	39, 198	170, 325	211, 637	474, 028	646, 235	7, 406	2, 846	4, 990	11, 959	12, 793
April.....	6, 469	6, 502	35, 017	38, 240	133, 179	209, 366	397, 841	635, 501	9, 802	3, 910	5, 624	11, 505	9, 229
May.....	7, 879	7, 101	35, 078	36, 920	139, 784	194, 948	342, 677	626, 429	12, 708	3, 272	7, 559	12, 975	10, 706
June.....	7, 367	6, 336	35, 674	37, 410	130, 739	159, 018	314, 398	648, 820					
July.....													
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from the reports of 10 manufacturers comprising the entire industry. The figures represent regular selection. Details by kind of fixture are given in press releases, showing also culls, the classifications including baths, lavatories, shower receptors, sinks, slope sinks, stalls, trays (single), combination sink and trays, 2-part trays, integral drainboard sinks, and miscellaneous. Net new orders comprise total new orders less cancellations, while stocks show amount of finished glost fixtures on hand at the end of the month.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 32 manufacturers, covering most of the firms making vitreous chinaware which in regular practice is connected with a drainage system. The figures represent regular selection (formerly grade A). Details by classes are given in press releases, showing also culls, the classification including siphon jets, washdowns, reverse traps, lowdown tanks, lavatories, and miscellaneous. Net new orders comprise total new orders less cancellations, while stocks show amount of finished glost fixtures on hand at the end of the month.

<sup>3</sup> Compiled by Rock Products from reports of 14 firms from May through August, 1926, and from 17 to 23 firms for the remainder of that year. The 1926 averages are based on total figures for the year by 23 firms, which represented 75 per cent of the output of the industry in 1926, according to the annual census, and whose stocks on December 31, 1926, represented 52 per cent of total stocks on that date. Data for 1927 and 1928 were reported by from 23 to 30 plants each month.

<sup>4</sup> 6 months' average, July to December, inclusive. <sup>5</sup> 8 months' average, May to December, inclusive. <sup>6</sup> 4 months' average, September to December, inclusive.

Table 56.—CEMENT AND HIGHWAYS

YEAR AND MONTH	PORTLAND CEMENT <sup>1</sup>					CONCRETE PAVEMENTS		FEDERAL-AID HIGHWAYS <sup>2</sup>			
	Production		Shipments	Stocks, end of month	Stocks, clinker, end of month	Wholesale price, composite	New orders <sup>3</sup>		Completed	Under construction	
	Total	Ratio to capacity					Total	Roads	Cost	Distance	
	Thousands of barrels	Per cent	Thousands of barrels			Dolls. per barrel			Thousands of square yards	Thous. of dollars	Miles
1913 monthly average.....	7,675		7,391	11,220							
1914 monthly average.....	7,353		7,203	12,773							
1915 monthly average.....	7,146		7,219	11,312							
1916 monthly average.....	7,589		7,852	11,054							
1917 monthly average.....	7,721		7,542	11,080							
1918 monthly average.....	5,891		5,894	9,386							
1919 monthly average.....	6,700		7,167	9,809		4,455	4,499				
1920 monthly average.....	8,306		7,999	7,278		3,264	2,454				
1921 monthly average.....	8,191		7,921	10,161		4,686	3,662				
1922 monthly average.....	9,489		9,714	9,572		6,595	4,863	\$15,472	937	14,458	
1923 monthly average.....	11,448		11,324	9,258	4,015	\$1,881	6,590	4,245	10,799	607	14,529
1924 monthly average.....	12,405		12,146	13,178	6,191	1,843	7,679	4,842	17,084	853	14,637
1925 monthly average.....	13,434		13,060	16,055	7,077	1,789	8,681	5,328	18,410	862	12,187
1926 monthly average.....	13,673		13,482	18,886	9,008	1,744	8,942	5,095	17,876	787	10,890
1927 monthly average.....	14,326	76.1	14,244	19,955	9,640	1,686	10,481	6,163	15,779	690	9,660
1928 monthly average.....	14,664	75.2	14,621	22,692	10,550	1,672	12,340	7,794	16,159	636	8,879
1929 monthly average.....	14,183	67.2	14,120	24,391	10,692	1,601	11,639	7,713	16,391	558	8,028
<b>1928</b>											
September.....	17,884	91.7	20,460	16,799	7,566	1,650	14,752	9,630	26,105	1,169	9,427
October.....	17,533	87.1	19,836	14,579	5,944	1,650	7,068	3,856	13,413	598	9,337
November.....	15,068	77.4	11,951	17,769	5,953	1,650	8,430	5,213	19,025	845	8,692
December.....	12,189	60.4	7,384	22,650	7,422	1,650	8,080	5,166	41,962	1,076	8,163
<b>1929</b>											
January.....	9,881	46.5	5,707	26,797	9,642	1,650	7,461	6,089	16,057	557	7,835
February.....	8,522	44.8	5,448	29,870	12,436	1,650	3,241	1,689	13,188	373	7,679
March.....	9,969	47.4	10,113	29,724	14,948	1,650	6,000	2,826	4,570	151	7,665
April.....	13,750	67.1	13,325	30,151	15,479	1,650	16,654	12,315	7,410	211	7,707
May.....	16,151	76.4	16,706	29,624	14,911	1,650	23,704	17,518	10,309	335	7,900
June.....	16,803	80.9	18,949	27,505	13,587	1,650	16,421	10,410	15,552	520	8,359
July.....	17,315	80.4	20,319	24,525	11,619	1,650	18,022	11,344	16,445	693	8,494
August.....	18,585	86.1	23,052	20,056	8,995	1,604	11,969	7,010	9,729	442	8,724
September.....	17,223	81.8	19,950	17,325	7,009	1,500	10,220	5,945	22,469	830	8,584
October.....	16,731	77.0	18,695	15,381	5,934	1,493	13,151	9,157	27,504	996	8,322
November.....	14,053	66.6	11,222	18,213	6,134	1,510	5,358	3,207	25,131	779	7,805
December.....	11,215	51.5	5,951	23,550	7,526	1,555	7,462	5,043	28,326	813	7,256
<b>1930</b>											
January.....	8,498	38.8	4,955	27,081	9,646	1,576	6,595	5,244	7,680	2,73	7,054
February.....	8,162	41.5	7,012	28,249	11,572	1,617	6,887	5,357	9,266	3,58	6,843
March.....	11,225	51.5	8,826	30,648	13,503	1,617	13,700	11,294	6,185	2,27	6,824
April.....	13,521	64.0	13,340	30,867	15,165	1,617	18,570	14,338	6,031	3,02	7,230
May.....	17,249	78.9	17,224	30,891	14,668	1,617	18,914	14,899	9,317	445	7,674
June.....	17,239	81.4	18,781	29,364	13,452	1,600	18,156	13,860	22,939	938	7,709
July.....	17,080	77.8	20,147	26,298	15,069	1,600	17,416	12,720	13,844	483	8,055
August.....											
September.....											
October.....											
November.....											
December.....											

<sup>1</sup> Data on Portland cement, representing complete reports of manufacturers, are from the *U. S. Department of Commerce, Bureau of Mines*, except prices, which are averages of weekly prices reported by the *U. S. Department of Labor, Bureau of Labor Statistics*. Clinker is unground cement. The cement industry is highly seasonal and its figures should be compared with corresponding months of previous years rather than with other months of the current year. Detailed data by months back to 1915, with an 8-year average for each month which can be used for seasonal comparisons, will be found in the September, 1923, issue (No. 25), p. 47, except for clinkers, for which data appeared in the March, 1928, issue (No. 79), p. 21. Monthly price data from 1913 for quotations now discontinued appeared in the December, 1923, issue (No. 28), p. 54.

<sup>2</sup> Concrete pavements contracted for throughout the United States are from the *Portland Cement Association, Highway Bureau*. The total contracts include streets and alleys besides roads.

<sup>3</sup> Data on amount of Federal-aid highways completed during each month and under construction at the end of month specified are compiled by the *U. S. Department of Agriculture, Bureau of Public Roads*, and include all kinds of improved roads built with Federal aid. Federal-aid roads represented about 45 per cent of the total mileage of roads improved by the States in 1925, while Federal-aid grants amounted to about 20 per cent of the costs of the Federal-aid roads shown above. The data on roads completed represent all roads reported as such to the *Bureau of Public Roads*, whether paid for or not. Monthly data from 1922 appeared in the July, 1926, issue (No. 59), p. 24.

<sup>4</sup> Of the numerical 1919 monthly average, 3,221,000 yards was actually reported. The remainder is the prorated portion of a total of 3,338,309 yards for the last years' pavement less than 6 inches thick not allocated by class of pavement. This has been prorated to roads on the basis of the roads' share of allocated contracts.

Table 56.—GLASS

YEAR AND MONTH	ILLUMINATING GLASSWARE <sup>1</sup>						POLISHED PLATE GLASS <sup>2</sup>	GLASS CONTAINERS <sup>3</sup>						
	Production		New orders	Shipments	Un-filled orders, end of month	Stocks, end of month		Production	Production		Net orders	Shipments	Unfilled orders, end of month	Stocks, end of month
	Total	Ratio to capacity							Total	Ratio to capacity				
	No. of turns	Per cent of capacity		No. of weeks' supply		Thous. sq. ft.		Thous. gross	Per cent	Thousands of gross				
1921 monthly average.....							4,465							
1922 monthly average.....							6,390							
1923 monthly average.....	4,021	50.1	50.7	50.5	3.2	6.7	7,422							
1924 monthly average.....	3,112	41.6	42.1	40.0	2.6	8.4	7,630							
1925 monthly average.....	3,385	44.5	44.7	44.2	2.3	7.0	9,769	4,205	76.6	4,283	4,805	4,781	4,911	
1926 monthly average.....	3,147	42.3	44.3	43.0	1.4	4.8	10,738	2,046	72.6	2,145	1,987	8,751	5,607	
1927 monthly average.....	2,910	38.5	40.0	39.4	1.2	3.7	9,283	2,110	71.6	2,256	2,125	9,747	6,256	
1928 monthly average.....	3,254	42.0	43.2	41.4	1.4	4.2	10,887	2,371	77.4	2,443	2,334	9,582	6,306	
1929 monthly average.....	3,348	43.4	44.3	43.8	1.3	5.3	12,542	2,428	75.0	2,684	2,417	9,435	6,440	
<b>1928</b>														
January.....	2,685	34.8	39.7	36.5	1.2	4.2	8,825	2,207	76.9	2,680	1,958	10,140	6,327	
February.....	2,936	40.6	38.1	36.9	1.4	4.3	10,689	2,085	72.7	2,577	2,113	10,633	6,370	
March.....	3,137	39.4	39.6	39.5	1.3	4.2	11,951	2,570	82.9	3,424	2,646	11,272	6,283	
April.....	3,243	41.8	42.4	40.1	1.1	3.7	10,560	2,421	84.3	1,965	2,491	10,705	6,239	
May.....	3,368	42.1	44.5	40.0	1.1	3.7	10,882	2,688	86.7	2,137	2,729	10,076	6,192	
June.....	3,365	44.2	41.6	42.6	1.3	4.4	11,354	2,589	86.7	2,225	2,552	9,642	6,220	
July.....	1,748	22.3	40.2	26.8	1.6	4.6	9,966	2,374	77.2	2,008	2,311	9,166	6,267	
August.....	2,985	36.5	44.5	42.5	1.8	4.3	12,159	2,686	80.9	1,909	2,654	8,467	6,297	
September.....	3,190	43.0	44.2	43.0	1.7	4.3	10,897	2,322	78.7	2,122	2,433	8,084	6,173	
October.....	4,193	50.5	53.2	51.9	1.7	4.1	11,140	2,389	71.6	2,721	2,261	8,415	6,302	
November.....	4,245	54.2	51.1	51.9	1.6	4.2	11,646	2,146	66.8	2,950	1,990	8,872	6,455	
December.....	3,949	54.6	39.0	45.0	1.5	4.7	10,579	1,970	63.8	2,599	1,874	9,510	6,542	
<b>1929</b>														
January.....	3,950	49.0	41.2	39.9	1.3	5.3	11,426	2,367	73.6	3,089	2,435	9,306	6,460	
February.....	2,974	42.6	42.8	42.5	1.0	5.8	11,289	2,261	76.1	2,797	2,139	10,749	6,552	
March.....	3,256	42.9	46.8	41.8	1.1	5.5	13,144	2,574	78.8	2,562	2,530	10,518	6,595	
April.....	3,285	42.9	45.3	44.9	1.1	5.3	12,555	2,519	79.1	2,408	2,546	10,214	6,588	
May.....	3,884	46.8	48.1	42.2	1.4	5.3	12,782	2,683	79.1	2,584	2,657	9,859	6,601	
June.....	3,239	46.3	44.6	45.1	1.6	6.0	12,278	2,561	81.5	2,023	2,679	9,278	6,500	
July.....	1,818	18.7	40.1	35.3	1.5	5.4	13,057	2,396	73.3	2,224	2,507	8,824	6,388	
August.....	2,819	36.4	42.9	43.8	1.4	4.7	14,722	2,715	77.5	1,922	2,656	8,079	6,447	
September.....	3,225	45.3	46.8	49.6	1.4	4.6	14,011	2,246	74.5	2,942	2,700	8,072	5,994	
October.....	4,265	50.2	52.9	51.1	1.5	4.6	14,621	2,572	75.6	2,996	2,445	8,320	6,121	
November.....	3,995	53.2	44.4	49.0	1.3	4.8	12,131	2,274	69.0	2,501	2,005	8,571	6,387	
December.....	3,471	47.0	35.1	40.0	1.0	5.2	8,482	1,963	62.0	4,171	1,705	11,434	6,648	
<b>1930</b>														
January.....	2,847	35.4	35.6	34.8	1.1	5.4	10,018	2,336	70.1	4,056	2,110	13,011	6,858	
February.....	2,636	38.1	35.6	36.4	1.1	5.5	9,804	2,074	67.3	2,363	2,011	12,636	6,868	
March.....	2,667	34.4	38.6	37.1	1.0	6.0	10,416	2,527	75.8	2,165	2,437	12,111	6,962	
April.....	2,532	37.8	41.5	38.8	1.0	5.8	11,430	2,419	71.9	2,550	2,564	11,922	6,809	
May.....	3,180	36.6	38.2	33.6	1.0	5.8	12,571	2,633	75.4	2,236	2,788	10,924	6,662	
June.....	2,262	36.5	36.1	36.2	1.1	5.9	9,128	2,528	78.1	3,249	2,451	11,147	6,750	
July.....														
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Data from biweekly reports of from 9 to 11 firms to the *Illuminating Glassware Guild*, estimated to represent from 70 to 75 per cent of the capacity of the industry, with capacity ranging from 4,500 to 7,000 turns per month. A turn is a 4-hour working period for one shop. Production data originally reported by firms with a biweekly capacity of from 2,256 to 3,463 turns, have first been prorated to the equivalent production of a capacity of 3,500 turns per biweekly period; these figures have in turn been reduced to monthly data by combining and prorating the overlapping periods. Beginning with June, 1930, data was reported on a monthly basis. Data given in percentages of capacity are averages of either 2 or 3 biweekly periods from the association reports. Stocks and unfilled orders have been reported by capacities ranging from 1,891 to 3,098 turns biweekly, but as they are expressed in weeks' supply, they are comparable without prorating. Data from 1923 on actual production, stocks, and unfilled orders appeared in the July, 1928, issue (No. 59), p. 25. The association reports give details by classes of shades, reflectors, bowls, and globes in numbers of turns.

<sup>2</sup> Compiled by *Plate Glass Manufacturers of America*, comprising practically entire industry. Monthly data from 1923 appeared in January, 1928, issue (No. 53), p. 23.

<sup>3</sup> Data from the *Glass Container Association*, covering 41 manufacturers of glass containers with an annual productive capacity of 32,000,000 gross, or about 83 per cent of the industry. Details by classes are shown in the association's report.

<sup>4</sup> 4 months' average, September to December, inclusive.

Table 57.—WOOD DISTILLATION <sup>1</sup>

YEAR AND MONTH	ACETATE OF LIME					METHANOL (CRUDE)					WOOD		DAILY CAPACITY		
	Pro-duction	Ship-ments	Stocks end of mo.	Ex-ports <sup>2</sup>	Wholesale price <sup>3</sup>	Pro-duction	Stocks, crude plants, end of month	Stocks, refineries, end of month		Ex-ports <sup>2</sup>	Car-bon-ized	Stocks, end of mo.	Total	Re-porting	Shut-down
								United States	Can-ada						
	Thousands of pounds					Gallons					Cords				
Dolls. per cwt.															
1920 monthly av.....	12,421			1,942	\$2.78	652,021				58,589	78,580	829,227	5,629	4,083	626
1921 monthly av.....	4,885			1,520	1.87	324,504				34,343	34,177	826,847	5,448	4,585	2,771
1922 monthly av.....	10,445	13,683	35,836	2,300	2.26	567,409	2,749,407			105,860	64,286	942,884	5,391	5,217	1,890
1923 monthly av.....	13,700	13,424	14,269	1,829	3.84	716,144	2,494,877			100,585	80,787	794,744	5,339	5,171	1,183
1924 monthly av.....	10,815	10,211	26,016	1,931	3.27	579,286	2,121,562			53,386	67,241	758,782	4,687	4,017	681
1925 monthly av.....	12,628	12,686	22,701	1,837	2.90	647,604	1,613,454	1,355,717	41,085	34,015	68,303	646,241	4,389	3,958	758
1926 monthly av.....	13,090	13,012	22,180	1,549	3.28	674,663	924,501	476,614	27,795	34,772	71,097	502,585	3,706	3,616	486
1927 monthly av.....	13,047	13,083	19,966	970	3.50	665,193	349,411	1,002,820	24,839	25,939	71,660	558,066	3,463	3,463	355
1928 monthly av.....	11,008	12,196	11,692	931	3.79	628,378	302,927	589,761	58,584	47,313	63,395	532,082	3,402	3,402	533
1929 monthly av.....	11,710	11,092	2,204	18	4.50	701,757	242,924	379,145	64,320	42,940	71,825	512,068	3,296	3,296	368
<b>1928</b>															
January.....	12,510	11,343	17,506	1,630	3.50	699,551	344,798	1,126,152	56,104	33,384	68,559	560,568	3,293	3,293	249
February.....	11,718	9,081	20,228	1,760	3.50	642,855	363,325	1,132,377	55,298	42,871	64,080	543,555	3,323	3,323	261
March.....	13,022	11,233	22,103	2,037	3.50	707,460	333,496	1,079,047	47,268	41,232	72,303	534,161	3,323	3,323	261
April.....	11,663	13,152	20,516	917	3.50	657,253	323,183	1,120,970	55,934	59,244	63,973	515,250	3,275	3,275	263
May.....	10,987	15,386	16,205	1,152	3.50	609,604	299,062	909,620	57,270	98,763	59,744	489,388	3,266	3,266	299
June.....	9,330	10,223	15,128	215	3.50	528,029	295,455	558,483	73,955	66,785	58,959	505,329	3,486	3,486	697
July.....	9,570	13,532	11,411	1,792	3.50	544,693	327,028	277,077	66,518	54,535	56,187	507,227	3,470	3,470	807
August.....	9,486	12,840	7,950	1,141	3.88	535,803	287,492	160,156	64,817	14,000	55,086	509,435	3,482	3,482	1,053
September.....	8,605	13,355	3,134	449	4.00	495,555	229,683	164,972	67,314	32,540	49,444	514,204	3,486	3,486	1,083
October.....	10,526	10,407	2,863	36	4.00	641,823	314,171	161,723	57,814	20,408	65,182	550,412	3,486	3,486	668
November.....	12,315	13,119	2,078	20	4.50	745,430	284,685	167,012	53,426	34,586	73,633	532,516	3,485	3,485	370
December.....	12,267	12,684	1,095	24	4.50	732,480	232,740	219,545	47,287	69,407	73,591	622,937	3,452	3,452	388
<b>1929</b>															
January.....	11,996	11,525	1,544	42	4.50	700,613	235,052	145,093	48,495	43,915	73,308	497,965	3,336	3,336	292
February.....	11,400	11,108	1,739	16	4.50	685,567	227,515	153,423	47,832	37,213	69,760	483,150	3,336	3,336	334
March.....	12,397	12,230	1,932	17	4.50	725,662	275,361	147,531	59,623	28,478	74,504	457,884	3,336	3,336	324
April.....	12,071	12,227	1,636	None.	4.50	746,007	186,636	172,755	66,218	57,134	74,936	488,969	3,336	3,336	383
May.....	12,703	12,588	1,867	13	4.50	743,632	234,660	262,082	65,965	44,602	77,832	525,185	3,336	3,336	337
June.....	11,935	11,772	1,755	None.	4.50	676,193	227,513	277,376	66,870	16,613	72,217	530,111	3,326	3,326	361
July.....	10,658	11,072	1,206	120	4.50	633,731	252,749	475,693	78,120	95,755	68,428	530,264	3,276	3,276	468
August.....	11,025	10,862	1,259	None.	4.50	656,414	244,185	526,172	63,702	33,849	70,454	565,119	3,264	3,264	475
September.....	10,154	10,162	1,241	None.	4.50	598,548	256,356	514,572	65,505	49,918	63,400	552,338	3,264	3,264	525
October.....	12,532	12,172	1,687	None.	4.50	719,064	255,204	530,710	47,479	12,329	75,508	527,210	3,246	3,246	289
November.....	11,982	10,661	2,826	13	4.50	705,320	273,097	615,852	30,510	83,654	71,209	500,387	3,246	3,246	329
December.....	11,666	6,729	7,761	None.	4.50	830,331	247,360	728,473	11,518	11,791	70,279	486,236	3,246	3,246	302
<b>1930</b>															
January.....	11,798	3,921	15,536	None.	4.50	715,886	389,876	903,304	9,038	47,571	73,326	601,972	3,246	3,246	222
February.....	9,683	4,616	20,814	None.	4.50	615,006	507,818	838,421	16,400	15,691	60,559	490,157	3,246	3,246	416
March.....	11,162	8,087	24,098	None.	4.50	651,438	646,181	864,600	17,299	56,113	68,045	477,011	3,246	3,246	535
April.....	9,771	6,734	27,146	None.	4.50	616,350	709,763	807,754	10,763	101,033	62,036	514,851	3,258	3,258	612
May.....	8,241	6,914	28,392	None.	4.50	523,833	724,037	766,004	45,449	77,028	54,607	531,244	3,172	3,172	756
June.....				None.	4.29					126,813					
July.....					3.11										
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Except for prices and exports, data are compiled by the U. S. Department of Commerce, Bureau of the Census, including through June, 1924, the reports of the National Wood Chemical Association, the total reports from all sources comprising about 95 per cent of the industry during most of this period. Beginning with July, 1924, all data have been collected directly by the Bureau of the Census. Stocks, at crude plants prior to December, 1926, probably include some stocks owned by them but held at refineries, but thereafter only stocks actually at crude plants are reported under that heading. Monthly data on production and on consumption and stocks of wood for 1920 appeared in the September, 1923, issue (No. 25), p. 46, the 1921 data being revised in the December, 1923, issue (No. 28), p. 51, and data from 1924 on in the April, 1925, issue (No. 68), p. 26. Press releases of the Bureau of the Census also give Canadian figures, beginning with 1925.

<sup>2</sup> Exports from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>3</sup> Wholesale prices are monthly averages compiled by the U. S. Department of Labor, Bureau of Labor Statistics.

<sup>4</sup> 9 months' average, April to December, inclusive.



Table 58.—REFINED METHANOL, ETHYL ALCOHOL, EXPLOSIVES, AND DYES

YEAR AND MONTH	REFINED METHANOL <sup>1</sup>							ETHYL ALCOHOL <sup>2</sup>			EXPLOSIVES <sup>3</sup>				DYES AND DYE-STUFFS <sup>4</sup>	
	Production		Stocks, end of month		Shipments		Wholesale price	Production	Withdrawn for denaturing	Warehouse stocks, end of month	Production	Shipments	New orders	Stocks, end of month	Exports	
	United States	Canada	United States	Canada	United States	Canada									Vegetable	Coal tar
	Gallons						Dolls. per gallon	Thousands of proof gallons			Thousands of pounds					
1920 monthly av.							\$2.56	<sup>5</sup> 9,485	<sup>6</sup> 4,398	<sup>7</sup> 4,466						
1921 monthly av.							.80	6,119	3,864	7,040						
1922 monthly av.							1.64	8,137	6,876	5,074	30,764	31,080	28,926	16,316	437	696
1923 monthly av.							1.06	11,234	9,527	4,754	36,762	36,542	35,174	18,758	354	1,494
1924 monthly av.							.76	12,201	10,965	3,980	33,740	34,340	32,726	17,067	264	1,309
1925 monthly av.	<sup>8</sup> 480,012	<sup>8</sup> 24,202	<sup>8</sup> 591,774	<sup>8</sup> 47,019			.61	16,190	14,801	6,463	34,057	34,241	32,737	17,346	302	2,150
1926 monthly av.	616,893	24,327	470,419	57,934			.64	16,221	14,995	7,962	36,351	36,361	34,715	16,674	211	2,151
1927 monthly av.	451,180	25,012	481,479	54,517	477,000	24,442	.67	14,469	13,507	8,497	34,074	33,837	32,545	17,827	314	2,231
1928 monthly av.	441,629	36,038	430,553	36,841	503,720	26,370	.49	15,415	14,046	9,521	33,118	33,039	31,243	17,644	263	2,689
1929 monthly av.	441,629	45,454	700,869	36,248	490,161	33,483	.57	17,222	16,289	10,881	36,565	36,571	35,606	18,097	214	480
<b>1928</b>																
May	557,780	30,400	505,299	55,359	492,081	14,528	.46	11,043	10,468	10,904	32,850	33,511	32,163	16,990	160	1,898
June	603,247	6,200	541,083	45,733	596,502	11,462	.46	13,036	16,336	6,646	32,625	32,816	31,305	16,732	272	1,726
July	541,113	10,800	444,496	39,210	667,549	12,672	.47	16,618	14,927	7,351	30,084	29,561	27,993	17,158	254	8,340
August	436,811	14,700	396,730	26,715	497,971	22,076	.48	18,764	16,128	9,263	35,092	33,039	32,268	18,554	237	1,335
September	355,353	38,600	300,478	33,101	415,340	25,396	.48	18,613	15,269	11,295	35,310	37,465	33,611	16,274	157	1,330
October	487,384	56,700	325,914	23,339	493,712	48,330	.51	20,685	20,718	9,907	38,636	38,854	36,347	16,011	231	5,194
November	536,782	39,500	422,640	21,751	494,047	42,989	.58	19,220	19,294	8,132	35,524	34,293	32,723	17,147	400	2,436
December	667,468	57,600	464,063	38,912	615,515	33,869	.58	19,898	18,236	8,953	33,642	31,660	29,068	20,148	146	1,926
<b>1929</b>																
January	494,501	59,800	503,054	35,534	506,624	47,629	.58	15,282	13,911	8,701	33,596	35,576	35,082	18,071	92	58
February	449,800	47,700	550,702	38,393	466,621	33,623	.58	13,830	11,813	9,662	35,392	34,322	32,606	19,151	188	29
March	494,435	47,500	681,815	36,149	518,906	43,885	.58	14,858	13,090	10,424	34,485	33,168	32,543	20,366	157	2,305
April	502,010	35,300	695,180	48,226	568,118	14,576	.58	14,709	12,003	11,723	36,077	36,458	34,786	20,119	160	26
May	423,244	49,700	716,762	43,474	472,360	45,274	.58	15,216	13,812	12,341	37,235	39,474	37,199	17,989	202	27
June	423,811	36,900	759,740	51,787	449,245	11,650	.58	12,545	12,909	11,860	34,383	35,032	34,202	17,225	264	21
July	259,118	10,400	712,752	31,185	365,438	21,403	.58	16,871	15,982	11,166	35,756	36,811	35,499	16,964	126	3,180
August	454,160	43,700	783,674	37,761	487,153	22,188	.58	20,626	18,688	11,489	40,584	39,163	39,580	17,529	191	13
September	432,094	27,800	729,932	21,888	598,551	31,902	.58	20,739	19,199	11,617	42,019	42,299	40,141	16,895	422	39
October	445,183	56,300	725,620	14,238	558,179	48,532	.58	25,426	24,203	11,932	42,108	40,246	40,295	17,811	247	18
November	488,212	58,150	755,326	44,164	412,683	46,335	.52	20,898	20,999	11,462	36,134	37,068	35,554	16,734	321	20
December	432,978	72,200	795,868	32,175	478,056	34,803	.51	16,262	18,861	8,199	31,015	29,236	29,784	18,311	193	24
<b>1930</b>																
January	248,723	41,500	695,155	28,405	425,071	41,274	.47	11,601	11,174	7,298	31,986	31,709	30,828	18,636	151	2,052
February	394,647	47,100	705,258	37,630	451,173	30,484	.46	10,943	9,801	7,496	33,244	31,574	30,584	20,522	182	2,320
March	398,476	44,200	632,705	40,905	522,153	33,688	.43	10,151	8,881	7,616	30,221	30,534	30,059	20,295	119	3,347
April	424,295	55,600	670,764	57,414	530,584	26,760	.40	12,221	10,585	8,074	30,967	34,071	33,204	18,566	218	3,349
May	373,780	None.	699,803	40,280	407,940	23,153	.40	13,245	11,319	9,143	36,147	33,404	33,340	17,699	232	2,334
June							.40	13,100	11,100	10,000	33,546	33,969	33,005	17,181	194	2,612
July							.40									
August																
September																
October																
November																
December																

<sup>1</sup> Compiled from individual reports of all methanol-refining plants in the United States and Canada by the U. S. Department of Commerce, Bureau of the Census, the following grades of methanol being included: 95 per cent refined, 97 per cent refined, pure, C. P. and denaturing grade methanol; except for prices, which are monthly averages compiled by the U. S. Department of Labor, Bureau of Labor Statistics.

<sup>2</sup> Statistics of ethyl alcohol, compiled by the U. S. Treasury Department, Bureau of Internal Revenue, comprise all 160° proof alcohol produced in the United States. Withdrawals for denaturing represent approximate production of denatured alcohol. The large increase in the proportion of the total production used for denaturing, beginning with 1922, is stated to be due to the use of denatured alcohol, which pays no tax, for certain medical purposes in place of pure alcohol which was formerly used and is taxable. Data for fiscal years previous to 1920 appeared in the February, 1923, issue (No. 78), p. 79. Beginning with April, 1928, monthly data on production and stocks from 16 members representing about 90 per cent of the industry are also reported by the Industrial Alcohol Institute in terms of wine gallons.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of Mines, from reports from 24 companies. Data comprise black powder, permissible, and other high explosives, and do not include reports of manufacturers of ammunition and fireworks, nor production of nitroglycerin, except in so far as nitroglycerin is used in the manufacture of other explosives. Detailed data by classes from 1922 appeared in November, 1924, issue (No. 30), p. 107.

<sup>4</sup> Data compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Export figures for "vegetable" dyes include logwood extract (about 50 per cent) and other dye extracts; coal-tar exports comprise coal-tar colors, dyes, and stains.

<sup>5</sup> 8 months' average, May to December, inclusive.

<sup>6</sup> 9 months' average, April to December, inclusive.

Table 59.—NAVAL STORES

YEAR AND MONTH	GUM TURPENTINE			GUM ROSIN			STEAM DISTILLED NAVAL STORES <sup>1</sup>					
	Net receipts (3 ports) <sup>2</sup>	Stocks, end of month (3 ports) <sup>2</sup>	Whole- sale price <sup>3</sup>	Net receipts (3 ports) <sup>2</sup>	Stocks, end of month (3 ports) <sup>2</sup>	Whole- sale price <sup>3</sup>	Wood rosin		Wood turpentine		Pine oil	
							Pro- duc- tion	Stocks at plants	Pro- duc- tion	Stocks at plants	Pro- duc- tion	Stocks at plants
	Barrels of 50 gals.	Dolls. per gal.	Barrels of 500 lbs.	Dolls. per bbl.	Bbls. of 500 lbs.	Bbls. of 50 gals.	Gallons					
1913 monthly average.....			\$0.43			\$4.82						
1914 monthly average.....	26,494		4.47	58,914		4.02						
1915 monthly average.....	22,807	59,721	.46	92,260	275,273	3.77						
1916 monthly average.....	25,819	71,562	.49	98,905	322,029	5.80						
1917 monthly average.....	23,006	96,818	.49	79,787	323,461	6.39						
1918 monthly average.....	13,349	122,792	.59	53,138	292,126	10.56						
1919 monthly average.....	15,481	55,853	1.20	54,092	223,926	15.16						
1920 monthly average.....	21,131	27,764	1.74	69,912	170,542	15.29						
1921 monthly average.....	22,110	47,707	.68	65,939	316,585	5.79						
1922 monthly average.....	21,765	26,762	1.15	83,439	308,498	5.77						
1923 monthly average.....	26,515	28,610	1.17	97,575	266,932	6.01						
1924 monthly average.....	25,667	38,567	.91	92,295	250,478	6.17						
1925 monthly average.....	24,319	40,731	1.01	90,195	192,908	10.94	23,865	35,449	4,883	8,144	161,550	654,069
1926 monthly average.....	25,279	44,827	.93	91,426	145,074	12.41	27,222	22,746	5,219	3,156	195,166	407,587
1927 monthly average.....	33,876	56,294	.62	117,201	178,557	10.13	34,572	67,051	6,648	9,123	231,863	451,633
1928 monthly average.....	28,309	66,443	.57	99,938	190,740	9.16	35,043	107,005	6,260	8,345	224,496	777,575
1929 monthly average.....	32,324	63,221	.55	115,562	185,493	8.36	37,461	106,980	6,955	6,030	228,197	903,443
<b>1928</b>												
May.....	39,764	46,741	.54	118,460	128,789	8.15	36,036	114,160	6,350	9,459	248,606	768,195
June.....	48,111	61,336	.57	148,041	165,604	9.10	36,054	108,200	5,700	8,510	191,947	829,507
July.....	46,637	69,245	.55	148,250	178,225	9.71	37,016	112,703	6,304	7,786	238,767	824,671
August.....	42,724	73,304	.52	145,357	227,517	9.59	37,623	114,074	6,274	6,898	225,668	822,813
September.....	34,312	73,595	.52	116,029	230,672	9.18	35,473	112,964	6,257	6,027	211,828	845,762
October.....	33,924	79,509	.53	115,235	216,917	9.31	36,942	111,728	6,486	5,704	219,525	845,645
November.....	28,160	83,472	.59	117,168	246,178	9.59	35,771	112,680	6,882	5,944	211,960	827,633
December.....	27,360	90,371	.61	125,706	271,787	9.34	33,630	115,216	6,750	6,883	209,125	898,610
<b>1929</b>												
January.....	8,175	79,837	.61	45,203	227,409	8.87	37,765	120,956	7,347	7,869	238,703	938,737
February.....	4,758	67,956	.58	29,284	177,232	8.30	33,152	126,264	6,436	7,648	204,700	899,181
March.....	8,440	48,396	.58	37,733	100,722	7.86	37,361	128,665	7,059	6,773	235,445	888,915
April.....	31,610	52,687	.54	100,454	108,335	7.41	36,150	124,192	6,917	5,356	212,720	895,099
May.....	43,722	53,536	.54	137,384	120,665	7.58	37,708	115,870	6,855	4,503	219,304	878,784
June.....	48,658	57,728	.52	154,168	123,505	7.88	36,123	113,449	6,505	4,778	215,153	873,358
July.....	54,872	65,570	.52	181,433	169,420	8.51	37,844	104,492	6,718	4,623	235,892	882,037
August.....	49,436	63,151	.52	172,670	205,955	8.51	38,315	98,777	6,721	4,713	229,388	894,993
September.....	42,127	65,770	.55	140,212	233,215	9.01	36,905	90,036	6,695	4,344	222,112	888,328
October.....	33,556	67,038	.56	120,886	244,767	9.27	40,903	84,111	7,640	5,569	259,017	875,424
November.....	33,813	68,546	.53	139,264	256,895	8.79	40,678	88,038	7,498	7,289	249,603	946,258
December.....	28,921	68,432	.54	128,057	257,595	8.26	36,628	88,909	7,068	8,889	216,330	980,202
<b>1930</b>												
January.....	10,237	58,485	.55	50,791	221,568	8.05	40,954	90,258	7,510	10,581	254,894	1,005,571
February.....	5,075	45,338	.55	30,605	184,451	7.59	39,615	88,385	7,478	12,190	238,944	1,096,756
March.....	9,779	40,078	.56	40,401	149,232	7.26	44,964	91,498	8,129	14,126	280,560	1,211,827
April.....	27,999	35,053	.54	86,873	135,958	6.78	43,919	97,168	8,303	15,854	253,049	1,278,382
May.....	48,803	47,130	.49	150,386	143,684	6.34	40,933	99,359	7,454	13,715	234,281	1,277,099
June.....	46,711	42,344	.47	149,880	196,857	6.50	40,049	109,198	6,774	13,762	248,777	1,385,850
July.....	55,822	58,491	.43	178,876	242,948	5.90	39,929	117,318	6,406	13,642	241,193	1,456,415
August.....												
September.....												
October.....												
November.....												
December.....												

<sup>1</sup> Compiled by the Hercules Powder Company from reports of 8 firms representing almost the entire output of steam naval stores from distillation with steam from the oleoresin within or extracted from the wood, generally softwoods.

<sup>2</sup> Represent the receipts and stocks at Jacksonville, Savannah, and Pensacola, as reported by the Naval Stores Review, earlier data being supplied by the Savannah Board of Trade, Jacksonville Chamber of Commerce, and Pensacola Chamber of Commerce. Monthly averages for 1914 and 1915 are based on the season beginning Apr. 1 of the year indicated and thereafter on the calendar year. Monthly data from 1920 appeared in June, 1922, issue (No. 10), p. 40.

<sup>3</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, and represent average prices in the New York market. Quotations for rosin cover B grade unit 280 pounds gross, ex dock, and turpentine quotations cover southern, in barrels, both being at New York. Monthly data from 1913 appeared in November, 1925, issue (No. 51), p. 22.

Table 60.—CHEMICAL PRICES, ARSENIC, AND ROOFING

[Base year in bold-faced type]

YEAR AND MONTH	WHOLESALE PRICE INDEXES					ARSENIC <sup>1</sup>				PRE-PARED ROOFING <sup>4</sup>	DRY ROOFING FELT <sup>5</sup>	
	Drugs and pharmaceuticals <sup>1</sup>	Essential oils <sup>1</sup>	Crude drugs <sup>1</sup>	Chemicals <sup>2</sup>	Oils and fats <sup>2</sup>	Crude		Refined		Shipments	Production	Stocks, end of month
	Relative to August, 1914			Relative to 1927		Production	Stocks, end of month	Production	Stocks, end of month			
										Short tons		
1914 monthly average.....	<b>100</b>	<b>100</b>	<b>100</b>									
1919 monthly average.....	201	213	185									
1920 monthly average.....	196	265	202	169	163							
1921 monthly average.....	129	158	134	121	81						7 9,016	
1922 monthly average.....	120	131	174	113	95						7 12,055	
1923 monthly average.....	142	135	220	117	103			1,072	742		16,078	2,427
1924 monthly average.....	155	140	208	104	109	1,497	2,924	1,519	3,268		17,406	2,296
1925 monthly average.....	157	174	198	104	117	697	3,575	923	7,034		20,297	3,588
1926 monthly average.....	156	170	205	104	113	458	3,149	520	3,982		23,030	4,043
1927 monthly average.....	158	131	202	<b>100</b>	<b>100</b>	1,161	1,670	860	1,842		25,276	3,349
1928 monthly average.....	167	154	201	100	96	1,374	2,407	775	2,331	3,045	23,452	3,198
1929 monthly average.....	170	182	184	100	98	1,596	2,563	927	3,552	3,322	25,301	3,765
<b>1928</b>												
September.....	164	158	193	99	95	1,079	2,978	799	1,971	3,187	24,343	3,427
October.....	164	155	195	99	97	1,238	3,024	835	2,344	3,453	23,930	3,367
November.....	164	175	193	100	95	1,622	3,419	802	2,766	2,471	17,424	4,045
December.....	164	182	193	100	98	1,215	3,274	1,030	3,282	1,673	14,475	4,600
<b>1929</b>												
January.....	164	191	195	100	99	1,136	3,019	913	3,571	2,420	19,833	4,630
February.....	164	195	195	100	101	1,262	2,782	900	3,643	3,374	24,271	3,274
March.....	164	206	194	101	101	1,307	2,418	945	3,458	4,239	28,153	3,102
April.....	164	205	187	100	98	1,382	2,451	836	3,316	4,582	30,177	2,907
May.....	163	193	187	100	93	1,888	2,073	779	3,236	4,583	31,402	2,138
June.....	163	190	184	100	92	2,452	2,161	917	3,709	3,756	29,981	3,077
July.....	173	191	183	100	92	1,444	1,998	812	3,305	3,324	28,188	2,846
August.....	177	188	179	100	96	887	1,876	857	3,414	2,903	26,665	3,974
September.....	177	168	180	100	100	1,027	1,777	868	3,180	3,011	23,997	4,465
October.....	177	161	180	100	105	3,113	3,309	1,036	3,672	3,312	25,502	4,790
November.....	177	155	176	100	99	1,203	3,112	1,197	3,993	2,326	19,249	5,009
December.....	177	146	172	100	98	2,049	3,774	1,063	4,131	2,039	16,191	4,970
<b>1930</b>												
January.....	177	133	170	99	94	1,079	3,677	742	3,879	2,383	23,116	6,382
February.....	176	123	169	98	95	1,933	4,576	808	3,157	1,356	16,594	7,087
March.....	176	118	167	98	92	1,692	4,514	864	3,131	2,240	21,170	6,811
April.....	176	115	166	97	94	1,350	4,159	1,084	2,889	2,727	23,543	6,838
May.....	176	113	161	97	92	1,652	3,935	963	2,726	2,714	22,458	6,322
June.....	176	111	154			2,168	3,654	1,081	2,024	2,384	20,470	7,391
July.....	176	108	148									
August.....												
September.....												
October.....												
November.....												
December.....												

<sup>1</sup> Compiled by the *Oil, Paint, and Drug Reporter* from weekly wholesale quotations of 40 crude botanical drugs, 20 essential oils, and 35 drugs and pharmaceutical chemicals, respectively.

<sup>2</sup> The chemical price indexes from *Chemical and Metallurgical Engineering* include quotations on 30 chemicals and 15 oils and fats selected on the basis of their importance as representing both qualitatively and quantitatively the principal branches of the chemical industry. These prices are weighted on the basis of total production plus total imports in the year 1927. The figures are averages of weekly prices. A similar index, including 25 of the principal chemicals used in the new indexes, with yearly data from 1917 to 1923 and monthly data for 1923 and 1924, may be found in the November, 1924, issue (No. 39), p. 105.

<sup>3</sup> Compiled by the *American Bureau of Metal Statistics*. Figures on crude arsenic cover this element in its primary state, while those on refined arsenic cover this commodity as derived from the crude. Stocks are those in producers' hands at the end of the month. Monthly data on refined arsenic from 1923 appeared in the August, 1925, issue (No. 48), p. 48.

<sup>4</sup> Compiled by the *Department of Commerce, Bureau of the Census*, from the reports of 41 manufacturers whose output constitute a large percentage of the total for the industry. Details of shipments are given in monthly releases.

<sup>5</sup> Compiled by the *Felt Manufacturers' Association*, including reports from 16 identical mills, until 1925, when 17 firms reported, and in January, 1929, when 20 firms reported. The felt is made from waste rags and the data are said to represent about 50 per cent of the industry. Data as to receipts of rags and paper and stocks of all kinds appeared in the November, 1924, issue (No. 39), p. 104. Average prices are also included in the reports of the association.

<sup>6</sup> A roof square is equivalent to 100 square feet of covering as measured on the roof.

<sup>7</sup> 6 months' average, July to December, inclusive.

Table 61.—CHEMICALS

YEAR AND MONTH	SULPHUR	SULPHURIC ACID		NITRATE OF SODA <sup>1</sup>		POTASH <sup>1</sup>		SUPERPHOSPHATE <sup>1</sup>			FERTILIZER		
	Production <sup>2</sup> (quarterly)	Exports <sup>1</sup>	Wholesale price <sup>4</sup>	Production in Chile	Imports	Imports	Production in France	Sales in Germany	Production	Stocks, end of month	Shipments	Exports <sup>1</sup>	Consumption in Southern States <sup>5</sup>
	Long tons	Pounds	Dollars per 100 pounds	Metric tons	Long tons		Metric tons, K <sub>2</sub> O content		Short tons			Long tons	Short tons
1919-13 mo. av.		614,940			43,177	21,124						103,391	
1913 monthly av.		807,417	\$1.00		52,155	22,291						119,938	
1914 monthly av.		1,098,015	1.00		45,143	17,611						85,639	
1915 monthly av.		6,486,619	1.30		64,349	6,305						30,636	
1916 monthly av.		5,538,625	2.00		101,535	978						32,747	
1917 monthly av.		5,293,578	1.70		128,601	802						28,733	
1918 monthly av.		6,691,220	1.60	238,712	153,756	1,564						18,713	
1919 monthly av.		1,774,625	1.00	139,921	33,955	5,230						54,509	
1920 monthly av.		2,415,612	1.12	210,386	110,158	14,880						117,995	411,680
1921 monthly av.		1,067,862	.91	109,629	30,764	8,739						74,620	241,743
1922 monthly av.		1,039,199	.76	89,317	45,205	20,103						77,912	292,225
1923 monthly av.	<sup>6</sup> 251,939	686,981	.73	158,809	74,307	19,205						91,641	360,412
1924 monthly av.	221,294	939,389	.71	200,266	82,217	19,088	22,583	70,172				89,027	390,311
1925 monthly av.	351,330	628,094	.70	209,982	92,686	21,751	25,707	102,121	275,722	1,177,544		95,196	423,121
1926 monthly av.	472,851	768,700	.73	167,836	76,183	25,304	30,555	91,656	285,162	1,653,945	97,149	91,899	423,438
1927 monthly av.	527,733	626,030	.75	134,279	62,399	22,416	31,003	103,291	274,458	1,566,300	134,487	105,920	379,425
1928 monthly av.	492,387	583,497	.78	263,625	85,659	29,809	34,193	118,435	316,971	1,489,733	160,477	101,570	464,393
1929 monthly av.	589,409	579,999	.78	263,383	77,538	29,378		116,787	310,825	1,468,962	161,054	127,353	453,761
<b>1929</b>													
January		429,264	.78	274,500	83,698	24,724	42,393	164,736	356,365	2,205,953	118,625	99,758	452,499
February		626,792	.78	255,500	146,304	28,489	37,513	144,676	293,436	2,191,231	176,615	101,885	817,359
March	539,832	704,726	.78	279,100	101,297	22,116	39,693	233,000	279,889	1,512,072	403,738	165,771	2,117,969
April		634,959	.78	272,200	119,620	21,299	38,990	112,535	274,491	793,384	439,793	135,905	1,258,114
May		287,306	.78	276,600	127,645	24,696	37,242	77,326	272,926	798,923	117,699	114,706	161,474
June	652,735	693,027	.78	252,600	64,733	9,895	39,700	97,723	270,447	916,847	54,862	140,090	99,407
July		506,758	.78	272,300	40,501	37,126	41,000	89,190	305,808	1,206,174	62,956	123,515	20,047
August		641,492	.78	270,300	51,684	45,505	42,500	95,372	344,460	1,393,654	86,251	112,346	45,617
September	556,221	516,264	.78	253,200	31,539	40,088	39,900	123,465	250,289	1,292,970	162,587	155,103	174,347
October		544,462	.78	207,800	54,821	51,757	44,500	79,159	348,793	1,512,044	154,012	129,849	101,295
November		460,174	.78	261,000	43,047	23,603		84,670	346,785	1,750,442	77,647	101,823	60,692
December	608,846	914,769	.78	285,500	65,569	23,237	45,000	99,594	354,226	2,002,935	77,269	147,483	94,958
<b>1930</b>													
January		882,315	.78	280,000	89,421	44,077	49,900	186,000	445,128	2,224,138	116,759	104,221	504,440
February		344,127	.78	233,900	85,837	40,811	45,600	202,711	355,815	2,260,145	189,022	163,776	1,071,004
March		335,773	.78	244,000	106,521	39,947	48,650	180,000	324,632	1,614,863	403,435	153,539	1,877,961
April		327,918	.78	205,200	69,788	21,036			334,467	885,002	469,184	188,044	1,279,874
May		507,011	.78	215,400	42,308	12,568			326,566	882,078	149,343	143,347	216,458
June		409,748	.78	205,900	18,737	17,644			287,867	1,042,431	56,466	113,538	79,171
July			.78										18,468
August													
September													
October													
November													
December													

<sup>1</sup> Data compiled by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Potash imports include potash imported as chemicals and also the muriate and sulphate used in fertilizers. "Total fertilizer" exports are made up largely of phosphate rock. Potash data from France and Germany are secured by the department from *Potasses d'Alsace*, the French government office having charge of potash mines in France, and the *Kali Syndicate*, controlling the German potash market, respectively. Monthly data on these two items from 1924 appeared in the June, 1928, issue (No. 82), p. 22.

<sup>2</sup> Data compiled by the National Fertilizer Association from reports of acidulators representing about 80 per cent of the industry; figures in greater detail divided into northern and southern sections are obtainable from the association's reports. Details by sections for 1925 appeared in the January, 1926, issue (No. 53), p. 16. Tons are of 16 per cent available phosphoric acid, which is equivalent to 320 pounds per ton.

<sup>3</sup> Compiled from reports to the Texas State Comptroller from three companies, representing practically the entire industry. Figures given are for quarters ended in month indicated. Similar figures for quarters since June 30, 1923, were given in the April, 1927, issue (No. 68), p. 23.

<sup>4</sup> Wholesale average monthly price of 66° sulphuric acid at New York from U. S. Department of Labor, Bureau of Labor Statistics.

<sup>5</sup> Compiled by the National Fertilizer Association from tag sales reports of Commissioners of Agriculture of 12 Southern States (Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Missouri, Louisiana, Arkansas, and Texas). Monthly data from 1920 in May, 1926, issue (No. 57), p. 17.

<sup>6</sup> Average for last 3 quarters of year.

Table 62.—COTTONSEED PRODUCTS

YEAR AND MONTH	COTTONSEED <sup>1</sup>			COTTONSEED OIL						COTTONSEED CAKE AND MEAL			OLEO-MARGARINE <sup>2</sup>		
	Receipts at mills	Consumption (crush)	Stocks at mills, end of month	Crude <sup>1</sup>		Refined				Price, sum- mer, yellow prime <sup>4</sup>	Pro- duction <sup>1</sup>	Stocks at mills, end of month <sup>1</sup>	Ex- ports <sup>3</sup>	Pro- duction	Con- sumption
				Pro- duction	Stocks, end of month	Pro- duction <sup>1</sup>	Factory consumption		Stocks, end of month <sup>1</sup>						
	Short tons			Thousands of pounds						Dolls. per lb.	Short tons			Thous. of lbs.	
Total (qty.) <sup>5</sup>	In oleo. <sup>6</sup>														
1913 mo. av.										\$0.072			41,878	12,671	11,861
1914 mo. av.										.068			42,062	11,764	11,798
1915 mo. av.										.068			60,785	11,831	11,787
1916 mo. av.	7 768,756	7 463,094	7 1,007,012	7 140,040	7 64,419	7 170,890			7 116,385	.106	7 223,620	7 148,815	51,330	15,630	12,404
1917 mo. av.	320,871	357,084	538,609	111,987	94,086	99,087			238,965	.155	176,747	180,400	16,890	23,937	19,044
1918 mo. av.	358,344	354,433	534,825	106,985	96,543	101,547			231,106	.201	175,239	86,007	486	29,212	26,877
1919 mo. av.	352,277	392,789	360,861	119,162	107,478	97,483	225,152		189,530	.239	182,653	109,522	26,172	30,733	29,081
1920 mo. av.	304,727	307,955	259,179	95,223	104,563	81,645	169,225		271,659	.153	137,015	198,187	14,169	30,790	30,014
1921 mo. av.	338,488	335,846	364,661	106,442	94,699	98,826	223,758	8 1,456	253,101	.079	149,183	143,476	24,400	17,923	17,518
1922 mo. av.	268,135	253,573	315,672	77,886	57,623	68,934	183,517	1,239	188,105	.102	114,795	133,357	18,707	15,396	14,969
1923 mo. av.	262,946	266,810	327,425	81,146	61,544	71,498	168,812	1,705	156,684	.113	122,901	127,702	14,349	19,123	18,872
1924 mo. av.	363,132	321,566	435,341	96,286	72,957	88,056	194,965	1,695	152,824	.110	147,394	122,743	25,907	19,319	19,156
1925 mo. av.	439,520	423,562	592,223	125,987	72,816	112,122	290,279	2,029	225,114	.108	197,303	139,910	33,290	19,496	19,359
1926 mo. av.	486,842	495,473	587,386	147,024	75,791	123,079	280,618	1,954	209,153	.118	226,619	226,264	35,088	20,213	20,226
1927 mo. av.	468,068	491,853	594,639	150,563	108,154	132,741	300,825	2,052	413,970	.097	220,671	142,217	36,713	23,125	22,881
1928 mo. av.	411,314	384,411	522,395	121,706	94,052	110,897	295,477	2,244	397,907	.099	173,787	102,374	24,209	26,389	26,455
1929 mo. av.	398,519	411,336	552,203	131,801	85,320	120,842	311,234	2,514	408,972	.097	187,124	172,807	19,750	29,687	29,373
<b>1929</b>															
January	414,705	747,740	999,198	236,916	141,243	203,358		2,283	511,338	.103	338,282	238,778	34,135	29,474	27,847
February	161,020	512,083	648,135	165,497	126,357	168,453		2,314	567,515	.109	234,766	257,932	27,011	28,943	32,713
March	107,791	366,748	388,079	120,189	107,121	126,884	301,414	2,387	585,343	.106	167,527	238,654	23,790	29,718	28,260
April	39,172	236,096	191,155	80,497	80,494	101,603		2,362	570,717	.102	106,253	226,210	6,675	28,704	27,067
May	23,471	114,070	100,556	40,193	50,928	60,656		2,518	511,660	.097	51,705	190,884	6,151	28,357	29,008
June	25,547	61,012	65,091	22,004	29,682	40,430	297,228	2,124	431,095	.096	28,942	142,737	4,777	24,276	23,379
July	30,680	54,165	41,606	18,313	19,182	27,933		2,051	338,620	.096	25,774	76,667	11,969	24,873	24,972
August	239,538	121,769	159,109	35,453	29,232	24,376		2,387	234,922	.094	56,311	51,727	12,837	28,400	25,778
September	920,318	488,946	590,747	149,388	77,339	82,859	321,836	2,362	175,023	.093	215,663	83,778	21,608	30,562	31,423
October	1,487,577	896,904	1,181,420	276,280	121,341	206,597		3,022	232,699	.093	398,987	162,074	33,434	36,624	34,591
November	763,046	785,271	1,159,195	245,396	124,002	218,269		2,852	326,843	.090	349,335	199,181	23,714	33,432	35,281
December	566,192	618,821	1,106,566	192,001	116,150	187,050	324,458	3,511	422,335	.087	272,531	203,554	30,894	32,883	32,145
<b>1930</b>															
January	321,230	665,552	760,745	207,046	126,525	172,089		2,629	465,226	.084	297,234	206,062	25,063	32,540	30,309
February	287,464	520,030	528,006	163,759	109,070	160,524		2,351	512,572	.084	227,931	205,909	4,918	28,402	30,793
March	203,048	400,478	330,560	129,753	101,922	116,965	287,591	2,567	535,891	.084	179,864	170,184	4,852	26,023	23,890
April	95,981	227,517	198,598	76,628	62,184	107,970		2,483	516,700	.087	103,894	120,258	320	28,627	29,654
May	60,340	141,958	116,980	47,137	39,372	57,041		2,115	463,864	.088	61,526	99,580	230	24,812	22,526
June	45,384	85,069	77,295	29,247	22,750	47,721	299,749	1,882	393,306	.083	40,890	84,127	248	21,906	22,178
July	29,559	62,248	44,606	19,971	8,110	29,182			299,933	.080	27,516	54,308			
August															
September															
October															
November															
December															

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, covering the entire industry. Receipts of cottonseed at mills include seed later destroyed at mill, but not seed reshipped. Stocks of crude oil include holdings of crude mills and of refiners and oil in transit to refiners and consumers, while stocks of refined oil include holdings of refiners, brokers, agents, and warehousemen, and oil in transit to manufacturers of lard substitutes, oleomargarine, soap, etc. Yearly figures for all these items are now based on the calendar year. Monthly data from 1920 on cottonseed stocks appeared in the August, 1922, issue (No. 12), p. 94, and on crude cottonseed-oil production and stocks in the May, 1922, issue (No. 9), p. 87.

<sup>2</sup> Compiled by the U. S. Treasury Department, Bureau of Internal Revenue. Production data represent total output, while consumption figures represent tax-paid withdrawals of both colored and uncolored oleomargarine, consisting of all withdrawals for domestic use except for the Government.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>4</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, representing averages of weekly quotations at New York. Monthly data from 1920 appeared in the May, 1922, issue (No. 9), p. 91.

<sup>5</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, representing practically complete consumption of refined cottonseed oil by factories in further manufacture of such articles as lard substitutes, oleomargarine, soap, etc. Yearly figures are quarterly averages. Quarterly data for 1920 appeared in the August, 1923, issue (No. 36), p. 119.

<sup>6</sup> Compiled by the U. S. Treasury Department, Bureau of Internal Revenue, showing total consumption in the manufacture of oleomargarine, as ascertained from tax reports. Data from July, 1921, together with figures for other ingredients consumed in the manufacture of oleomargarine, are given in the March, 1926, issue (No. 55), p. 25.

<sup>7</sup> 5 months' average, August to December, inclusive.

<sup>8</sup> 6 months' average, July to December, inclusive.

Table 63.—FLAXSEED AND PRODUCTS

YEAR AND MONTH	FLAXSEED								Wholesale prices, No. 1, Minneapolis <sup>7</sup>	LINSEED OIL					LINSEED CAKE AND MEAL		
	Im-ports <sup>1</sup>	Minneapolis and Duluth <sup>2</sup>		Stocks, end of mo.	Mill receipts at Duluth-Superior <sup>3</sup>	Oil mills <sup>5</sup> (quarterly)		Argentina		Production <sup>6</sup> (qtlly.)	Shipments from Minneapolis <sup>9</sup>	Factory consumption <sup>5</sup> (qtlly.)	Stocks at factories <sup>5</sup> (qtlly.)	Wholesale Price, New York <sup>10</sup>	Shipments from Minneapolis <sup>9</sup>	Ex-ports <sup>1</sup>	
		Re-ceipts <sup>2</sup>	Ship-ments			Con-sumption	Stocks, end of qtr.	Ex-ports <sup>6</sup>									Stocks, end of mo. <sup>8</sup>
	Thousands of bushels									Dolls. per bu.	Thousands of pounds			Dolls. per lb.	Thous. of lbs.		
1913 mo. av.	548	2,315	1,526	2,999				3,336		\$1.36				\$0.062	30,166	72,478	
1914 mo. av.	771	1,196	702	1,907				2,761	728	1.54	126,856	11,868		.067	20,684	42,451	
1915 mo. av.	1,225	952	460	1,017				3,219	1,415	1.85		9,862		.077	17,188	50,532	
1916 mo. av.	1,092	1,494	871	1,463				2,099	2,374	2.26	132,897	10,662		.103	18,706	55,637	
1917 mo. av.	783	786	476	1,033				464	515	3.16	120,550	11,158		.151	18,428	25,992	
1918 mo. av.	1,081	913	439	223	50			1,284	1,520	3.92	93,863	9,271		.212	15,998	7,163	
1919 mo. av.	1,170	778	285	173	58	6,176	1,066	2,087	2,617	4.53	113,232	10,026	47,286	65,425	236	18,473	29,479
1920 mo. av.	2,053	976	338	897	63	6,407	2,668	3,446	1,457	3.79	121,318	7,856	53,551	78,457	.194	12,069	19,635
1921 mo. av.	1,027	839	564	2,085	45	6,507	2,050	4,463	2,867	1.86	120,703	8,157	59,706	99,611	.093	15,068	48,856
1922 mo. av.	1,243	758	305	283	41	6,085	1,501	3,038	1,768	2.48	114,361	8,156	85,754	100,718	.113	10,790	36,739
1923 mo. av.	2,028	1,504	704	517	95	8,543	2,760	3,779	2,168	2.74	163,391	10,763	95,169	85,549	.133	17,062	47,058
1924 mo. av.	1,382	2,360	1,564	991	131	9,522	3,331	4,830	3,433	2.49	176,397	10,958	96,127	81,482	.131	17,370	54,463
1925 mo. av.	1,376	2,010	1,082	1,414	159	10,263	3,097	3,430	3,517	2.74	189,962	13,537	102,935	130,026	.139	24,283	54,224
1926 mo. av.	1,879	1,441	692	1,743	172	9,757	3,687	5,270	4,667	2.34	180,122	11,057	103,737	150,072	.112	16,741	49,227
1927 mo. av.	1,818	1,680	974	2,348	244	10,438	5,008	6,161	4,975	2.22	194,179	10,617	117,482	167,795	.105	17,201	55,275
1928 mo. av.	1,467	1,509	885	1,478	187	10,068	4,661	6,250	4,709	2.28	187,861	14,238	131,050	178,103	.100	22,903	46,801
1929 mo. av.	2,015	1,101	660	680	567	10,163	3,918	5,307	3,777	2.79	190,894	12,935	125,309	137,384	.123	18,844	61,202
<b>1929</b>																	
January	1,411	369	283	1,063	69			11,418	3,937	2.45		12,782			.100	24,411	45,718
February	2,529	346	399	727	34			8,452	6,000	2.55		13,214			.102	23,479	44,233
March	2,737	369	351	603	13	10,723	4,544	6,699	7,480	2.49	202,353	14,602	119,228	181,888	.102	19,427	77,748
April	3,911	270	219	478	7			7,269	6,299	2.45		14,237			.101	16,917	72,056
May	2,518	313	101	578	None			6,550	5,118	2.45		18,005			.102	12,067	65,003
June	2,366	492	271	764	33	9,816	3,593	4,065	4,528	2.48	187,019	15,205	138,554	123,548	.105	7,632	60,131
July	1,293	381	340	360	84			3,963	4,528	2.76		14,381			.120	12,215	80,855
August	1,020	1,479	567	23	42			4,516	2,559	2.79		10,787			.129	15,683	74,874
September	842	4,111	1,655	909	572	10,166	3,186	3,340	1,575	3.23	191,977	14,789	137,429	103,242	.155	27,415	59,539
October	2,582	3,189	1,697	1,179	935			2,197	984	3.32		13,707			.159	30,466	52,423
November	1,686	1,313	1,445	594	96			1,148	735	3.24		8,467			.150	17,442	53,104
December	1,290	575	592	882	4,919	9,947	4,349	4,064	1,575	3.22	182,228	5,043	106,025	140,856	.147	18,977	48,745
<b>1930</b>																	
January	1,074	251	163	877	None			3,543	3,08	3.08		5,198			.140	20,859	52,833
February	2,279	119	162	745	2,938			4,331	3,05	3.05		5,493			.141	13,600	33,970
March	3,233	172	133	705		7,966	2,898	4,921	2,92	2.92	145,970		95,601	154,832	.140	52,082	52,082
April	2,527	146	171	624				5,906	2,92	2.92		9,141			.143	8,604	48,716
May	1,454	712	457	523				3,937	2,68	2.68		9,685			.140	7,485	41,409
June	371	314	267	433		7,270	2,328	3,937	2,71	2.71	130,863	6,274	104,276	108,758	.140	5,768	29,066
July								3,543	2,32	2.32		6,436			.140	5,066	
August																	
September																	
October																	
November																	
December																	

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>2</sup> Compiled by the Northwestern Miller. These figures represent a total movement of domestic and bonded grain at Minneapolis and Duluth-Superior. Receipts and shipments are totals of weekly figures with the first and last weeks of each month prorated, while stocks are taken on the day nearest the end of the month. These data displace any previous table on this subject previously shown in the SURVEY OF CURRENT BUSINESS.

<sup>3</sup> Does not include mill receipts at Duluth-Superior.

<sup>4</sup> Compiled by the Northwestern Miller and represents the receipts at mills at Duluth-Superior as distinguished from the receipts at public and bonded warehouses.

<sup>5</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, covering practically the entire production, factory stocks, and factory consumption of fats and oils and their raw materials. Quarterly data from 1920 appeared in the August, 1923, issue (No. 30), pp. 115 and 119. Data on flaxseed have been reduced to bushels from their original data in tons. Annual figures are quarterly averages. Data prior to 1919 collected by the U. S. Food Administration, and published in detail in the supplement to Bulletin 709 of the U. S. Department of Agriculture.

<sup>6</sup> Compiled by the Argentine Ministry of Agriculture, and converted to bushels from original data in metric tons. Monthly data from 1920 appeared in October, 1923, issue (No. 26), p. 50.

<sup>7</sup> Compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, from the various grain papers and periodicals and represents the average price per bushel for reported cash sales in Minneapolis, weighted by the number of cars sold. The average for the year represents a simple average of monthly figures.

<sup>8</sup> Compiled by the Oil, Paint, and Drug Reporter, representing stocks on the Saturday nearest to the end of the month.

<sup>9</sup> Compiled by the Minneapolis Chamber of Commerce.

<sup>10</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, representing averages of weekly prices at New York. Previous to October, 1925, prices were quoted per gallon and have been reduced to pounds at 7½ pounds to the gallon. Monthly data from 1909 appeared in the November, 1926, issue (No. 63), p. 26.

<sup>11</sup> 10 months' average.

Table 64.—TOTAL VEGETABLE OILS AND COPRA

YEAR AND MONTH	TOTAL VEGETABLE OILS						COPRA			COCONUT OR COPRA OIL							
	Production <sup>1</sup>	Factory consumption, crude <sup>1</sup>	Stocks, end of quarter <sup>1</sup>		Exports <sup>2</sup>	Imports <sup>3</sup>	Imports <sup>3</sup>	Factory consumption <sup>1</sup>	Stocks, end of quarter <sup>1</sup>	Production <sup>1</sup>		Factory consumption			Stocks, end of quarter <sup>1</sup>		
			Crude	Refined						Crude <sup>1</sup>	Refined		Crude	Refined			
			Total <sup>1</sup>	In oleomargarine <sup>4</sup>													
Thousands of pounds						Short tons			Thousands of pounds								
1913 monthly av.					24, 575	21, 387	1, 265			6, 016							
1914 monthly av.					19, 547	26, 441	2, 503			4, 834							
1915 monthly av.					31, 641	20, 636	4, 512			5, 264							
1916 monthly av.					16, 977	30, 133	6, 615			5, 362							
1917 monthly av.					11, 772	36, 850	15, 279			13, 591							
1918 monthly av.					10, 437	65, 295	17, 944			29, 674							
1919 monthly av.	578, 749	635, 803	506, 533	283, 592	17, 599	67, 465	10, 788	42, 153	22, 184	23, 422	53, 886	69, 273	105, 564	53, 055	155, 220	34, 958	
1920 monthly av.	474, 776	511, 121	378, 498	352, 769	16, 863	71, 390	8, 966	25, 276	10, 665	18, 027	32, 805	46, 486	73, 525	59, 026	93, 277	28, 664	
1921 monthly av.	504, 221	502, 353	334, 199	295, 979	21, 705	28, 499	7, 888	21, 525	6, 998	15, 810	28, 299	30, 669	58, 773	34, 855	45, 316	73, 550	19, 051
1922 monthly av.	436, 828	459, 600	331, 583	224, 770	6, 978	53, 298	11, 206	35, 881	10, 705	18, 943	46, 381	33, 811	76, 333	41, 270	4, 480	115, 996	23, 522
1923 monthly av.	506, 336	511, 732	306, 329	190, 737	4, 749	52, 295	13, 874	46, 245	6, 615	15, 157	58, 980	43, 095	90, 001	52, 985	6, 326	72, 692	25, 527
1924 monthly av.	555, 423	560, 119	269, 540	201, 756	4, 117	67, 641	12, 128	37, 066	9, 885	18, 730	47, 839	43, 430	90, 943	52, 726	6, 938	48, 846	14, 895
1925 monthly av.	662, 690	673, 135	342, 930	250, 978	5, 729	55, 368	15, 170	40, 177	10, 923	19, 375	51, 901	49, 280	96, 364	51, 444	7, 576	51, 322	13, 616
1926 monthly av.	732, 036	755, 787	399, 544	259, 809	3, 733	55, 815	19, 067	50, 430	18, 482	20, 428	65, 178	57, 809	108, 122	51, 823	8, 137	69, 989	12, 943
1927 monthly av.	761, 816	786, 824	464, 987	458, 290	5, 901	58, 697	18, 791	54, 202	15, 525	24, 447	70, 414	60, 773	131, 224	59, 459	10, 215	97, 587	14, 897
1928 monthly av.	683, 881	772, 760	452, 361	424, 001	4, 501	63, 564	20, 874	61, 728	14, 668	24, 220	77, 795	73, 978	146, 179	66, 778	13, 321	83, 472	13, 049
1929 monthly av.	734, 855	846, 666	540, 438	439, 517	2, 388	89, 032	23, 664	69, 429	32, 835	34, 328	88, 164	83, 642	166, 424	80, 373	15, 459	156, 194	18, 831
<b>1928</b>																	
September.....	427, 798	529, 345	351, 893	196, 068	2, 222	80, 914	20, 754	64, 582	14, 413	34, 008	82, 269	73, 389	143, 561	66, 833	14, 452	63, 216	12, 942
October.....					3, 681	82, 176	22, 897			31, 534					15, 714		
November.....					5, 570	71, 918	30, 955			29, 672					16, 026		
December.....	1,125,564	1,112,122	498, 520	470, 904	3, 928	70, 010	28, 544	69, 124	22, 793	36, 444	88, 120	86, 156	156, 681	75, 360	14, 839	101, 611	14, 469
<b>1929</b>																	
January.....					2, 884	74, 261	23, 474			35, 164					15, 455		
February.....					3, 637	80, 125	22, 209			35, 264					15, 221		
March.....	884, 022	986, 366	526, 085	615, 171	2, 608	85, 328	31, 587	71, 097	24, 671	30, 842	90, 175	83, 755	162, 071	75, 536	15, 587	116, 261	14, 492
April.....					1, 575	106, 331	30, 152			30, 319					14, 932		
May.....					1, 816	129, 285	34, 728			49, 260					14, 603		
June.....	476, 613	679, 883	491, 701	470, 407	1, 428	91, 375	23, 828	73, 519	42, 567	32, 571	92, 993	85, 731	168, 061	76, 068	12, 029	163, 006	21, 904
July.....					541	73, 157	21, 693			23, 669					12, 658		
August.....					1, 285	109, 091	26, 622			36, 623					14, 715		
September.....	534, 913	628, 212	531, 459	213, 764	2, 632	82, 942	18, 007	65, 859	41, 004	36, 952	85, 012	86, 792	172, 438	75, 735	16, 075	170, 801	21, 222
October.....					3, 061	88, 409	17, 208			36, 770					19, 511		
November.....					3, 362	67, 961	19, 722			24, 728					16, 803		
December.....	1,043,870	1,092,204	612, 507	458, 725	3, 828	80, 124	15, 022	67, 239	23, 097	39, 775	84, 474	78, 290	163, 124	94, 151	17, 917	174, 706	17, 707
<b>1930</b>																	
January.....					4, 666	84, 194	18, 488			37, 699					18, 490		
February.....					3, 814	67, 603	26, 376			19, 213					14, 356		
March.....	799, 855	912, 223	599, 509	575, 615	4, 618	84, 600	29, 748	71, 573	29, 577	32, 771	90, 689	76, 801	166, 131	78, 594	14, 164	162, 968	17, 993
April.....					3, 753	67, 133	16, 649			21, 943					15, 379		
May.....					970	85, 173	21, 089			34, 868					13, 236		
June.....	415, 119	670, 312	497, 040	428, 427	2, 049	86, 947	16, 106	61, 544	28, 698	25, 590	78, 592	65, 232	161, 077	69, 377	11, 763	160, 193	18, 452
July.....																	
August.....																	
September.....																	
October.....																	
November.....																	
December.....																	

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, covering practically the entire production, factory stocks and factory consumption of fats and oils and their raw materials. Quarterly data from 1920 appeared in the August, 1923, issue (No. 30), pp. 115 and 119. Annual figures are quarterly averages. Data prior to 1919 collected by the U. S. Food Administration, and published in detail in the supplement to Bulletin 769 of the U. S. Department of Agriculture. Data on production and consumption of total vegetable oils represent those in the crude state.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, including cottonseed, corn, and linseed oils.

<sup>3</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Imports of total vegetable oils include the following oils: Chinese nut, cocoa butter, coconut, cottonseed, olive (both edible and inedible), palm, palm kernel, peanut, rapeseed, soya bean and linseed. The figures for Chinese nut, inedible olive, and rapeseed oils, when reported in gallons, have been converted into pounds, allowing 7½ pounds per gallon.

<sup>4</sup> Compiled by the U. S. Treasury Department, Bureau of Internal Revenue, showing total consumption of coconut oil in the manufacture of oleomargarine, as ascertained from tax reports. Monthly data from July, 1921, together with figures for other ingredients consumed in the manufacture of oleomargarine are given in the March, 1926, issue (No. 55), p. 25.

<sup>5</sup> 6 months' average, July to December, inclusive.



Table 65.—ANIMAL FATS AND OILS<sup>1</sup>

YEAR AND MONTH	ANIMAL FATS			GREASES			LARD COMPOUNDS AND SUBSTITUTES		FISH OILS			ANIMAL GLUES			EDIBLE GELATIN	
	Production	Factory consumption	Stocks, end of quarter	Production	Factory consumption	Stocks, end of quarter	Production	Stocks, end of quarter	Production	Factory consumption	Stocks, end of quarter	Production	Stocks, end of quarter	Shipments <sup>(2)</sup>	Production	Stocks, end of quarter
Thousands of pounds																
1919 qtlly. av.	367,519	144,308	138,071	69,648	51,566	67,374			8,231	9,791	44,609					
1920 qtlly. av.	410,676	149,276	185,283	86,384	50,273	69,741			16,507	12,044	45,225					
1921 qtlly. av.	473,266	141,324	222,630	85,222	44,325	95,592	156,770	9,517	13,916	19,990	54,009					
1922 qtlly. av.	511,451	139,043	175,481	94,430	61,548	53,082	196,045	15,671	19,754	27,513	47,428	23,660				
1923 qtlly. av.	612,798	140,990	144,576	102,285	66,911	57,045	187,631	11,756	21,326	29,675	43,228	25,015			3,305	9,891
1924 qtlly. av.	612,837	151,861	162,017	99,066	61,507	48,098	207,609	16,182	17,271	29,067	46,105	24,924	52,442		3,541	10,454
1925 qtlly. av.	497,864	141,084	142,383	89,849	59,960	41,927	288,155	18,674	25,291	38,581	56,225	24,272	50,370		3,134	9,084
1926 qtlly. av.	529,623	148,649	176,817	88,927	58,409	46,621	285,177	18,312	20,662	36,141	67,894	25,043	39,899	6,674	3,868	8,649
1927 qtlly. av.	529,506	164,248	183,875	94,976	53,497	50,880	294,749	25,879	20,660	42,212	78,795	26,042	34,808	6,312	4,387	8,421
1928 qtlly. av.	573,051	149,777	203,417	95,670	63,288	45,701	285,837	26,781	22,954	51,482	95,767	25,905	34,132	6,620	4,267	8,484
1929 qtlly. av.	582,984	148,852	219,441	99,830	56,903	53,880	305,025	29,808	28,908	46,776	95,837	26,418	29,730	6,702	4,562	7,700
<b>1928</b>																
January																6,814
February																6,672
March	722,968	160,016	231,458	106,544	59,122	51,835	306,938	26,353	9,462	59,240	88,662	30,777	36,275		5,463	9,138
April																6,587
May																6,489
June	556,439	148,592	267,597	96,556	64,249	54,731	236,838	27,300	10,307	47,736	93,040	26,296	37,650		4,755	9,088
July																6,621
August																6,780
September	430,660	147,240	164,493	84,506	66,113	36,930	302,208	23,540	49,586	44,910	110,302	20,454	32,843		1,824	7,284
October																7,528
November																6,958
December	582,138	143,259	150,120	95,073	63,670	39,308	297,366	29,929	22,462	54,042	91,065	26,095	29,759		5,027	8,425
<b>1929</b>																
January																6,108
February																6,435
March	656,459	145,102	242,351	100,601	57,992	39,173	279,575	27,818	20,557	45,454	69,308	27,575	32,520		5,253	8,570
April																7,259
May																7,225
June	563,284	160,155	249,928	100,855	50,172	54,505	297,462	28,941	12,032	45,348	90,271	25,930	30,369		5,132	8,227
July																6,376
August																7,231
September	516,627	148,500	206,802	95,057	59,089	55,308	326,383	30,805	48,349	48,965	105,821	23,278	27,377		2,808	6,459
October																8,071
November																6,146
December	595,564	141,649	178,683	102,808	60,359	66,533	316,682	31,669	34,692	47,336	117,947	28,891	28,654		5,054	7,545
<b>1930</b>																
January																6,613
February																5,214
March	578,042	153,118	211,120	96,089	57,203	65,779	279,694	22,949	18,762	46,580	133,376	29,389	36,572		5,271	7,980
April																
May																
June	540,626	146,450	226,482	92,621	59,586	70,404	283,299	24,011	8,418	41,361	174,601	27,233	42,671		5,243	8,109
July																
August																
September																
October																
November																
December																

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, except for shipments of animal glues, and representing practically complete production, factory consumption, and factory stocks. Quarterly data from 1920 appeared in the August, 1923, issue (No. 36), p. 115, except on animal glues and edible gelatin, for which quarterly figures were not begun until 1924 and 1925, respectively. Further details are given in the quarterly press releases.

<sup>2</sup> Compiled by the National Association of Glue Manufacturers from reports of 15 companies estimated to represent 70 per cent of the output of the industry. Sales between members are excluded to avoid duplication. Further details are given in the association's reports.

<sup>3</sup> Average of last 2 quarters of the year.

<sup>4</sup> Stocks on Dec. 31.

<sup>5</sup> Monthly average.

Table 66.—CROP PRODUCTION <sup>1</sup>

[Base year in bold-faced type]

YEAR AND MONTH	WHEAT			CORN	OATS	BAR- LEY	RYE	RICE	POTA- TOES	APPLES (total)	FLAX- SEED	HAY, TAME	TOTAL VALUE OF CROPS <sup>2</sup>
	Winter	Spring	Total										
Relative to 5-year average, 1909-1913													
1909-1913 average.....	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
1914 final estimate.....	154	84	129	99	100	105	119	99	115	144	70	104	107
1915 final estimate.....	151	144	149	110	135	124	150	122	101	130	72	128	121
1916 final estimate.....	108	64	92	95	109	99	135	172	80	110	73	136	159
1917 final estimate.....	93	91	92	113	139	115	174	146	124	95	47	124	236
1918 final estimate.....	127	145	134	92	135	139	252	162	115	96	68	114	251
1919 final estimate.....	171	85	140	104	104	80	209	177	90	81	37	130	270
1920 final estimate.....	137	91	121	118	131	102	168	219	113	127	55	134	191
1921 final estimate.....	135	88	118	113	94	84	171	158	101	56	41	123	122
1922 final estimate.....	132	115	126	107	106	99	286	174	127	115	53	143	157
1923 final estimate.....	128	92	116	113	114	107	175	142	116	115	87	133	175
1924 final estimate.....	133	111	125	85	131	98	181	137	118	97	161	145	163
1925 final estimate.....	90	112	98	108	130	116	129	140	90	98	115	128	154
1926 final estimate.....	141	83	120	99	109	100	113	176	99	140	99	129	137
1927 final estimate.....	124	101	116	102	103	144	161	188	113	70	132	158	149
1928 final estimate.....	130	137	133	104	126	193	120	182	130	106	102	139	150
1929 preliminary estimate.	130	93	117	97	108	166	113	169	100	79	86	152	152

YEAR AND MONTH	Thousands of bushels											Thous. of tons	Millions of dollars
1909-1913 average.....	<b>445,013</b>	<b>245,095</b>	<b>690,108</b>	<b>2,712,364</b>	<b>1,143,407</b>	<b>184,812</b>	<b>36,093</b>	<b>23,770</b>	<b>357,699</b>	<b>176,340</b>	<b>19,543</b>	<b>67,097</b>	<b>5,792</b>
1914 final estimate.....	684,990	206,027	891,017	2,672,804	1,141,060	194,953	42,779	23,649	409,921	253,200	13,749	70,071	6,112
1915 final estimate.....	673,947	351,854	1,025,801	2,994,793	1,549,030	228,851	54,050	28,947	359,721	230,011	14,030	85,920	6,907
1916 final estimate.....	480,553	155,765	636,318	2,566,927	1,251,837	182,309	48,862	40,861	286,953	193,905	14,296	91,192	9,054
1917 final estimate.....	412,901	223,754	636,655	3,065,233	1,592,740	211,759	62,933	34,739	442,108	166,749	9,164	83,308	13,479
1918 final estimate.....	565,099	356,339	921,438	2,502,665	1,538,124	256,225	91,041	38,606	411,860	169,625	13,369	76,660	14,331
1919 final estimate.....	760,377	207,602	967,979	2,811,302	1,184,030	147,608	75,483	41,985	322,867	142,086	7,178	86,997	15,423
1920 final estimate.....	610,597	222,430	833,027	3,208,584	1,496,281	189,332	60,490	52,066	403,296	223,677	10,752	89,785	10,909
1921 final estimate.....	600,316	214,589	814,905	3,068,569	1,078,341	154,946	61,675	37,612	361,659	99,002	8,029	82,458	6,934
1922 final estimate.....	586,878	280,720	867,598	2,906,020	1,215,803	182,068	103,362	41,405	453,396	202,702	10,375	95,748	8,945
1923 final estimate.....	571,777	225,617	797,394	3,053,557	1,305,883	197,691	63,077	33,717	416,105	202,842	17,060	89,250	9,953
1924 final estimate.....	592,259	272,169	864,428	2,309,414	1,502,529	181,575	65,466	32,498	421,585	171,725	31,547	97,622	9,291
1925 final estimate.....	401,734	274,695	676,429	2,916,961	1,487,550	213,863	46,456	33,309	323,465	172,389	22,424	85,717	8,790
1926 final estimate.....	627,433	203,607	831,040	2,692,217	1,246,848	184,905	40,795	41,730	354,328	246,524	19,335	86,497	7,793
1927 final estimate.....	552,747	246,527	799,274	2,763,093	1,182,594	265,882	58,164	44,774	402,741	123,693	25,847	106,001	8,523
<b>1929</b>													
May 1 estimate.....	595,335						44,366						
June 1 estimate.....	622,148						43,634						
July 1 estimate.....	582,492	251,387	833,879	2,662,050	1,247,147	317,264	41,949	32,686	379,270	154,302	19,885	98,991	
August 1 estimate.....	568,233	205,652	773,885	2,740,514	1,202,895	304,381	41,028	34,810	372,812	149,140	17,979	97,421	
September 1 estimate.....	568,233	217,493	785,726	2,465,997	1,204,987	304,143	41,028	35,285	349,112	145,523	16,388	93,600	
October 1 estimate.....	568,233	223,535	791,768	2,528,077	1,226,573	313,368	41,028	36,139	345,177	140,637	16,599	100,582	
November 1 estimate.....	568,233	223,535	791,768	2,621,451	1,226,573	313,368	41,028	39,176	353,984	140,099	16,060	100,582	
December 1 estimate.....	577,784	228,006	805,790	2,614,307	1,233,574	303,552	40,533	40,217	359,796	142,078	16,844	101,786	8,665
<b>1930</b>													
May 1 estimate.....	525,070						46,831						
June 1 estimate.....	532,469						46,723						
July 1 estimate.....	557,719	249,546	807,265	2,802,442	1,329,407	331,925	47,858	38,332	398,419	145,388	30,100	85,431	
August 1 estimate.....	597,392	223,221	820,613	2,211,823	1,316,369	306,215	41,655	37,897	372,557	146,440	26,013	83,460	
September 1 estimate.....													
October 1 estimate.....													
November 1 estimate.....													
December 1 estimate.....													

<sup>1</sup> Yearly figures represent the latest revised estimates of total production for the year as reported by the *U. S. Department of Agriculture, Bureau of Agricultural Economics*. Monthly figures are estimates of the current year's crop as made during the first week of that month. The preliminary estimates made in December of each year are subject to revision in the final estimate made in December of the following year.

<sup>2</sup> Estimated total value of all crops based on prices at the farm on Dec. 1. Prior to 1924, 23 crops were included, thereafter 55 crops, but the additional crops are minor and have little effect on the grand totals.

Table 67.—WHEAT FLOUR

YEAR AND MONTH	GRINDINGS OF WHEAT		PRODUCTION					CONSUMPTION	STOCKS (end of month)		EXPORTS		WHOLESALE PRICES <sup>1</sup>	
	United States <sup>2</sup>	Canada <sup>3</sup>	United States		Canada <sup>3</sup>	Grain offal <sup>4</sup>	Capacity <sup>5</sup>	Computed <sup>6</sup>	All positions (computed)	Held by mills <sup>7</sup> (qnty.)	United States <sup>8</sup>	Canada <sup>9</sup>	Standard patents Minneapolis	Winter straights Kansas City
			Actual <sup>2</sup> (Census)	Prorated <sup>4</sup> (Russell)										
	Thous. of bushels		Thousands of barrels			Thous. of lbs.	Per cent	Thousands of barrels					Dollars per barrel	
1913 monthly av..											1,023	408	\$4.58	\$3.85
1914 monthly av..				9,702							1,064	389	5.10	4.13
1915 monthly av..				9,553							1,305	464	6.66	5.61
1916 monthly av..				9,996							1,198	660	7.26	6.09
1917 monthly av..				9,815							1,160	731	11.39	10.55
1918 monthly av..				9,351							1,809	839	(?)	10.30
1919 monthly av..				11,091				8,156	9,433		2,204	839	12.00	10.70
1920 monthly av..				9,146				8,237	8,943		1,654	394	12.68	11.58
1921 monthly av..				10,102				8,569	7,148		1,400	606	8.34	7.05
1922 monthly av..				10,467	1,421			9,291	7,228		1,252	790	7.30	6.14
1923 monthly av..	42,872	6,886	9,288	10,480	1,559	762,163	56	9,304	7,701		1,359	928	6.38	5.36
1924 monthly av..	41,277	7,418	8,943	11,047	1,661	734,824	54	9,719	7,344		1,333	956	7.18	5.98
1925 monthly av..	39,836	6,940	8,649	10,417	1,547	702,318	52	9,492	7,046	3,966	927	860	8.83	7.67
1926 monthly av..	41,191	7,110	8,956	10,603	1,580	723,384	54	9,626	7,197	3,891	988	871	8.44	7.24
1927 monthly av..	41,738	6,732	9,098	10,318	1,475	722,100	54	9,300	6,966	4,125	1,068	772	7.43	6.69
1928 monthly av..	43,454	7,532	9,427	10,561	1,649	758,832	56	9,460	7,170	4,150	988	895	7.19	6.42
1929 monthly av..	44,061	6,999	9,609	10,766	1,546	768,654	57	9,484	8,355	4,346	1,146	798	6.79	5.79
<b>1928</b>														
September.....	48,014	8,554	10,512	11,197	1,892	820,934	66	9,078	8,500	4,180	1,020	890	6.59	5.65
October.....	52,890	9,473	11,587	13,316	2,130	910,900	66	12,536	7,900		1,385	1,171	6.41	5.59
November.....	45,289	9,690	9,909	11,200	2,175	780,189	61	10,401	7,500		1,199	1,159	6.23	5.53
December.....	42,246	7,600	9,269	10,220	1,672	727,305	57	9,411	7,370	4,597	939	923	6.13	5.50
<b>1929</b>														
January.....	45,767	7,794	10,014	10,808	1,698	792,580	58	9,229	7,580		1,369	933	6.34	5.52
February.....	41,292	7,286	9,026	10,026	1,600	716,899	60	8,986	7,400		1,220	998	6.81	5.73
March.....	42,004	7,455	9,207	10,360	1,631	725,848	54	9,101	7,400	4,356	1,192	1,413	6.67	5.72
April.....	39,475	7,339	8,636	9,938	1,606	683,046	51	8,530	7,700		1,108	720	6.41	5.58
May.....	42,738	7,998	9,334	10,680	1,749	742,133	55	9,847	7,600		983	907	6.12	5.21
June.....	40,833	7,029	8,912	9,838	1,548	711,357	54	8,494	8,000	3,826	944	935	6.38	5.26
July.....	42,895	7,247	9,337	10,449	1,603	746,628	55	8,365	10,084		1,085	836	7.69	6.31
August.....	50,725	7,178	11,058	12,562	1,607	882,931	62	11,686	8,800		1,076	643	7.31	6.24
September.....	47,583	5,745	10,372	11,870	1,283	831,523	66	10,006	9,500	4,479	1,163	492	7.17	6.10
October.....	50,445	6,814	10,968	12,153	1,528	886,004	62	11,642	8,700		1,311	554	6.91	6.01
November.....	43,913	7,261	9,538	10,740	1,629	776,745	58	9,884	8,400		1,156	538	6.69	5.92
December.....	41,062	4,837	8,905	9,770	1,073	728,157	54	8,043	9,100	4,724	1,123	605	6.88	5.95
<b>1930</b>														
January.....	43,812	5,201	9,510	9,948	1,168	772,726	56	9,808	8,000		1,240	503	6.75	5.84
February.....	40,506	4,702	8,783	9,323	1,051	717,926	58	8,098	8,800		925	481	6.39	5.63
March.....	43,083	5,475	9,347	10,207	1,219	763,376	55	9,163	8,800	4,239	1,044	681	6.23	5.26
April.....	41,854	5,429	9,071	9,749	1,215	742,542	53	8,615	9,000		934	451	6.09	5.40
May.....	41,329	6,258	8,981	10,507	1,394	732,153	53	9,778	8,700		1,029	573	5.97	5.27
June.....	40,137	5,218	8,687	9,423	1,161	713,579	54	7,883	9,300	3,535	940	598	5.83	4.99
July.....													5.51	4.64
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Wholesale prices from U. S. Department of Labor, Bureau of Labor Statistics, represent averages of weekly quotations. Monthly figures from 1920 appeared in May, 1922, issue (No. 9), p. 91.

<sup>2</sup> Compiled by U. S. Department of Commerce, Bureau of the Census, from reports of over 1,000 mills each month, which produced about 88 per cent of the flour manufactured in 1923, and over 91 per cent in 1925, according to the census of manufactures. This increase has been due partly to the addition from time to time of other firms to the reporting list. Stocks include flour owned by millers whether in mills, elevators, or in transit.

<sup>3</sup> Compiled by the Dominion Bureau of Statistics, Internal Trade Branch, covering merchant mills having a capacity of about 120,000 barrels per month, and also custom mills. The detailed reports of Canadian milling statistics also contain data on other grains as well as a division into eastern and western territory. Monthly data through 1922 appeared in May, 1925, issue (No. 45), p. 27.

<sup>4</sup> Reported by U. S. Grain Corporation prior to July, 1920, covering practically the entire industry; beginning with July, 1920, from Russell's Commercial News, the production and stock figures being prorated to 100 per cent from representative current data bearing a known relation to the total figures. Stocks represent flour in all positions. Consumption is calculated from production, stocks, exports, and imports. Monthly production from January, 1914, given in October, 1922, issue (No. 14), p. 47.

<sup>5</sup> Exports of flour from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>6</sup> Exports of flour from Canada from Department of Trade and Commerce, Dominion Bureau of Statistics.

<sup>7</sup> No quotations.

<sup>8</sup> Average for last 6 months of year.

<sup>9</sup> Average for 2 periods only, June and December.

Table 68.—WHEAT AND CORN

YEAR AND MONTH	WHEAT								CORN									
	Stocks (end of month)		Re-ceipts <sup>3</sup>	Ship-ments <sup>4</sup>	Exports			Wholesale prices <sup>5</sup>			Visible supply, end of mo. <sup>7</sup>	Re-ceipts <sup>3</sup>	Ship-ments <sup>4</sup>	Grind-ings <sup>7</sup>	Ex-ports <sup>4</sup>	Wholesale prices <sup>5</sup>		
	Held by mills (quarterly) <sup>1</sup>	Visible supply <sup>2</sup>			United States	In-cluding wheat flour	Can-ada <sup>1</sup>	No. 1 northern spring, Minneapolis	No. 2 red winter, St. Louis	No. 2 hard winter, Kansas City					Corn, in-cluding corn meal	No. 3, yellow, Chicago	No. 3, white, Chicago	
		United States	Canada	Wheat only							United States	Can-ada <sup>1</sup>	Dollars per bushel	Dollars per bushel				
	Thousands of bushels								Dollars per bushel			Thousands of bushels				Dollars per bushel		
1913 mo. av.		56,720	32,665			8,292	12,897	10,214	\$0.88	\$0.99	\$0.85	11,117			4,195	3,910	\$0.61	
1914 mo. av.		54,474	32,604			14,488	19,277	12,291	1.01	.99	.93	11,486			3,817	1,418	.69	
1915 mo. av.		35,350	32,173			17,160	23,034	8,081	1.31	1.31	1.29	16,210			4,664	4,185	.73	
1916 mo. av.		63,966	61,055	18,861		12,837	18,230	16,115	1.44	1.42	1.34	12,824	21,158		5,276	4,603	.82	
1917 mo. av.		28,234	47,831	21,656	14,223	8,850	14,072	19,094	2.31	2.29	2.30	6,114	17,512	10,264	4,952	4,751	1.66	
1918 mo. av.		50,191	25,871	32,706	16,425	9,265	17,405	16,309	2.19	2.19	2.15	10,266	24,807	13,409	6,142	3,922	1.61	
1919 mo. av.		75,610	32,750	31,593	19,908	12,341	22,259	7,260	2.57	2.39	2.39	4,101	14,926	8,896	5,411	1,334	1.59	
1920 mo. av.		39,837	24,583	27,672	23,400	18,191	25,636	8,271	2.60	2.55	2.44	6,254	17,818	9,206	5,055	1,769	1.42	\$1.41
1921 mo. av.		34,316	36,516	35,995	23,925	23,338	29,638	13,503	1.54	1.46	1.33	20,686	28,252	18,537	4,875	11,015	.57	.57
1922 mo. av.		34,546	56,510	34,605	23,108	13,724	19,359	14,929	1.36	1.27	1.19	25,260	32,660	21,627	5,571	13,844	.62	.62
1923 mo. av.		54,525	63,701	32,308	17,986	8,211	14,327	22,099	1.21	1.21	1.10	11,660	22,690	14,517	5,513	3,724	.82	.81
1924 mo. av.		70,407	70,359	41,211	29,858	13,858	19,855	22,190	1.32	1.33	1.21	12,868	23,250	14,059	6,279	1,676	.96	.96
1925 mo. av.	67,712	51,241	63,749	29,941	21,218	7,210	11,380	22,398	1.65	1.81	1.65	16,981	18,816	11,234	5,855	1,180	1.03	1.02
1926 mo. av.	85,415	49,875	77,741	32,519	19,388	11,523	15,958	24,765	1.58	1.55	1.49	30,041	19,831	10,149	6,852	2,094	.75	.75
1927 mo. av.	92,432	61,098	80,399	40,105	26,208	14,026	18,334	24,728	1.39	1.40	1.35	33,074	20,618	11,424	7,129	1,248	.86	.86
1928 mo. av.	109,141	88,716	125,257	43,566	25,460	8,024	12,469	34,479	1.32	1.59	1.27	21,526	27,587	17,705	7,244	2,242	.98	.97
1929 mo. av.	126,849	150,291	165,640	38,575	25,843	7,504	12,659	21,149	1.27	1.32	1.17	16,484	22,248	14,382	7,218	2,904	.93	.94
<b>1929</b>																		
January		130,063	188,742	22,537	16,762	3,399	9,559	25,030	1.21	1.42	1.14	28,012	39,876	19,838	8,364	12,357	.93	.95
February		126,503	184,467	28,698	15,192	3,214	8,704	19,711	1.28	1.40	1.18	36,265	29,229	13,951	8,719	8,087	.94	.95
March	107,215	125,551	181,676	27,220	16,926	3,487	9,153	27,566	1.25	1.35	1.16	37,100	21,562	13,461	7,085	4,994	.94	.94
April		117,079	167,837	17,472	15,697	3,942	8,930	10,554	1.20	1.25	1.10	30,991	16,433	17,677	6,044	2,556	.90	.91
May		97,962	142,168	18,637	23,560	11,741	15,941	31,155	1.11	1.17	1.01	15,571	11,420	16,276	6,338	1,050	.87	.89
June	75,355	94,060	118,249	25,694	18,644	4,564	8,814	29,796	1.15	1.21	1.05	13,932	20,644	15,160	6,697	981	.91	.94
July		142,855	103,315	94,158	42,577	8,691	13,575	20,538	1.43	1.39	1.25	9,493	21,205	15,644	6,558	850	.99	1.00
August		190,911	96,224	101,669	60,983	12,094	16,935	13,050	1.35	1.32	1.23	5,765	19,023	13,643	7,672	895	1.01	1.01
September	174,776	198,982	156,620	47,046	32,134	13,104	18,335	9,624	1.35	1.35	1.24	4,638	19,532	11,082	7,913	693	1.01	1.02
October		202,781	213,381	36,256	27,116	8,767	14,664	23,215	1.31	1.32	1.22	3,924	18,303	11,075	8,721	732	.95	.96
November		191,833	217,102	20,625	24,121	9,977	15,181	24,866	1.28	1.29	1.19	3,646	18,526	9,287	6,453	752	.88	.87
December	150,048	185,113	217,903	22,887	16,402	7,067	12,121	18,684	1.31	1.35	1.21	8,469	31,221	15,493	6,053	870	.88	.88
<b>1930</b>																		
January		168,925	210,643	17,530	14,170	8,245	13,825	7,258	1.27	1.34	1.19	16,286	31,344	16,438	7,622	819	.85	.86
February		160,375	202,282	19,920	11,234	5,185	9,350	8,898	1.25	1.23	1.13	24,270	29,564	13,785	6,568	916	.82	.84
March	96,566	153,290	192,754	16,683	12,160	2,414	7,113	14,657	1.12	1.18	1.02	25,129	20,679	14,133	6,065	1,122	.80	.81
April		136,358	177,424	13,441	13,291	3,050	7,252	5,458	1.11	1.17	1.01	21,452	22,114	18,043	6,615	1,030	.82	.84
May		119,682	147,801	16,535	24,091	5,433	10,064	16,046	1.07	1.14	.99	11,819	16,213	18,687	6,623	824	.79	.80
June	66,660	109,985	132,187	18,705	20,575	8,066	12,295	21,681	1.00	1.05	.89	7,378	17,833	15,693	6,100	776	.79	.81
July		161,666	106,544	98,960	42,047				.92	.85	.80	4,012	16,660	11,699	6,103		.82	.84
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of over 1,000 flour mills representing 88 per cent of the industry. Stocks include wheat owned by millers, whether at mills, in elevators, or in transit. Details by class of elevator are given in press releases.

<sup>2</sup> Data from Bradstreet's representing stocks carried on Saturday nearest end of month at terminals, elevators, warehouses, docks, etc.

<sup>3</sup> At principal primary markets, as compiled by the Chicago Board of Trade.

<sup>4</sup> Data from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Monthly figures from 1920 appeared in May, 1922, issue (No. 9), p. 88. Wheat flour has been converted to wheat equivalent at  $4\frac{1}{2}$  bushels to the barrel, while corn meal has been converted at 4 bushels to the barrel.

<sup>5</sup> Exports from Canada from Canadian Department of Trade and Commerce, Dominion Bureau of Statistics.

<sup>6</sup> Compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, and represents average prices per bushel for reported cash sales, weighted by the number of cars sold. Monthly data from 1909 appeared in the January, 1929, issue (No. 89) p. 18.

<sup>7</sup> Grindings of corn by the wet process in the manufacture of cornstarch, glucose, etc., compiled by the Associate Corn Products Manufacturers from reports of 11 firms, comprising practically the entire industry. Monthly data from 1920 appeared in June, 1922, issue (No. 10), p. 43.

<sup>8</sup> Compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, from the various grain papers and periodicals and represents the average price per bushel for reported cash sales, weighted by the number of cars sold. The average for the year represents a simple average of monthly figures. Monthly data from 1910 appeared in the November, 1929, issue (No. 99), pp. 21, 22.

<sup>9</sup> A average of 2 quarters, June and December.

Table 69.—OTHER GRAINS

YEAR AND MONTH	BARLEY				RYE				OATS						TOTAL GRAINS Exports, including flour and meal as grains <sup>3</sup> Thous. of bus.
	Receipts at principal interior markets <sup>1</sup>	Visible supply, end of month <sup>2</sup>	Exports, including malt as grains <sup>3</sup>	Wholesale prices, No. 2 Minneapolis <sup>4</sup>	Receipts, at principal interior markets <sup>1</sup>	Visible supply, end of month <sup>2</sup>	Exports, including flour as grains <sup>3</sup>	Wholesale prices, No. 2 Minneapolis <sup>4</sup>	Receipts at principal interior markets <sup>1</sup>	Visible supply, end of month <sup>2</sup>	Exports, including oatmeal as grain <sup>3</sup>	Wholesale prices, No. 3 White Chicago <sup>4</sup>	Canada <sup>5</sup>		
													Grindings	Production, oatmeal and rolled oats	
	Thousands of bushels				Thousands of bushels				Thousands of bushels				Thous. of bus.	Thous. of lbs.	
Dolls. per bu.				Dolls. per bu.				Dolls. per bu.							
1913 mo. av. ....	9,058	5,021	1,065	\$0.51	1,294	-----	155	\$0.57	20,694	22,907	619	\$0.38	-----	-----	18,646
1914 mo. av. ....	7,435	5,241	1,518	.52	1,648	-----	680	.72	22,200	24,390	3,046	.42	-----	-----	25,939
1915 mo. av. ....	8,385	4,071	2,377	.64	1,809	-----	1,138	1.05	22,651	20,481	8,997	.48	-----	-----	39,731
1916 mo. av. ....	9,438	5,040	2,041	.80	1,936	-----	1,320	1.08	27,299	30,336	8,797	.46	-----	-----	34,991
1917 mo. av. ....	6,907	4,818	1,800	1.33	1,912	-----	1,224	1.84	24,498	23,493	9,390	.65	-----	-----	31,237
1918 mo. av. ....	6,118	4,483	1,799	1.33	2,777	-----	1,359	1.99	28,177	22,703	10,838	.78	-----	-----	35,323
1919 mo. av. ....	7,746	8,708	4,005	1.17	3,958	13,018	3,375	1.50	19,308	22,898	5,567	.70	-----	-----	36,540
1920 mo. av. ....	3,815	3,438	1,807	1.24	3,712	7,323	4,938	1.80	17,571	17,610	1,359	.80	-----	-----	35,509
1921 mo. av. ....	3,321	2,913	2,815	.59	2,573	2,785	2,512	1.15	17,914	50,863	698	.37	-----	-----	46,678
1922 mo. av. ....	3,367	2,008	1,914	.57	5,353	5,516	3,967	.83	19,009	49,317	2,996	.38	821	9,610	42,080
1923 mo. av. ....	3,904	2,352	1,240	.60	3,683	14,017	2,668	.70	19,913	19,637	996	.43	821	10,322	22,955
1924 mo. av. ....	5,207	2,498	2,022	.76	5,414	16,288	3,082	.86	22,106	30,675	692	.50	1,053	15,361	27,327
1925 mo. av. ....	5,517	3,997	2,774	.78	2,489	10,340	2,408	1.09	19,536	58,742	3,112	.45	855	11,098	20,854
1926 mo. av. ....	3,498	4,648	1,381	.64	1,717	10,493	1,003	.92	13,514	48,603	1,578	.41	893	11,716	22,014
1927 mo. av. ....	5,459	2,954	3,380	.77	3,479	5,304	3,014	1.00	12,399	27,852	1,127	.47	854	10,114	27,603
1928 mo. av. ....	8,542	4,559	4,551	.78	2,327	3,310	1,223	1.07	12,857	14,014	1,233	.53	950	12,468	22,001
1929 mo. av. ....	5,617	8,318	2,720	.63	2,307	7,568	293	.96	12,185	19,285	902	.47	919	11,457	19,479
<b>1929</b>															
January.....	3,970	8,932	2,277	.66	1,045	5,973	197	1.01	9,919	16,212	1,273	.50	824	9,956	25,663
February.....	4,960	9,293	3,244	.70	1,119	6,239	126	1.05	9,562	16,819	760	.50	925	11,710	20,921
March.....	3,891	8,459	2,209	.67	914	6,725	97	1.00	8,535	14,071	839	.48	925	12,133	16,990
April.....	3,450	6,849	1,862	.65	1,064	6,632	32	.89	9,494	12,204	662	.48	776	8,987	14,042
May.....	3,264	6,022	1,268	.60	1,464	6,325	368	.85	10,432	10,063	774	.45	900	10,728	19,401
June.....	3,338	5,731	2,783	.60	870	6,422	295	.84	8,456	8,114	488	.45	895	11,360	13,361
July.....	4,849	5,518	4,120	.69	880	6,447	106	1.07	10,123	8,129	487	.47	854	12,145	19,138
August.....	18,666	9,805	4,624	.61	5,766	8,015	470	.98	36,320	25,897	1,182	.43	1,101	14,228	24,106
September.....	7,807	9,519	6,209	.60	3,720	8,889	1,220	.97	13,833	28,809	1,640	.48	975	12,263	28,097
October.....	5,554	9,877	1,795	.59	3,405	9,903	562	.97	15,336	32,069	1,320	.47	1,156	14,632	19,073
November.....	3,808	9,886	1,038	.60	1,496	10,588	22	.95	7,098	29,720	955	.45	908	10,457	17,948
December.....	3,848	9,927	1,213	.59	5,946	8,656	26	.98	7,084	29,314	443	.45	793	8,891	14,673
<b>1930</b>															
January.....	2,826	4,894	734	.58	1,250	9,184	28	.91	6,741	25,220	377	.45	661	7,318	15,783
February.....	3,080	8,545	1,017	.57	505	9,389	36	.78	7,336	22,527	389	.44	838	10,263	11,707
March.....	3,153	7,837	569	.55	598	11,175	64	.66	8,736	18,929	224	.43	798	9,650	9,093
April.....	2,742	6,511	778	.56	337	13,427	47	.68	9,544	16,765	259	.43	706	8,106	9,367
May.....	2,835	5,436	1,457	.55	1,234	11,259	14	.65	10,690	13,102	266	.41	651	7,951	12,626
June.....	2,537	4,671	550	.49	435	11,248	3	.57	7,114	11,317	204	.38	719	9,660	13,829
July.....	-----	3,997	-----	.47	-----	-----	-----	.55	8,725	9,149	-----	.35	-----	-----	-----
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Receipts of oats compiled by *Chicago Board of Trade*, while receipts of barley and rye are compiled by the *Department of Agriculture, Bureau of Agricultural Economics*, from receipts at 17 interior centers. Monthly data from 1920 appeared in June, 1922, issue (No. 10), p. 43.

<sup>2</sup> Data from *Bradstreet's*, representing stocks carried on Saturday nearest end of month at terminals, elevators, warehouses, docks, etc. Monthly data from 1913 appeared in November, 1925, issue of the SURVEY (No. 51), p. 23.

<sup>3</sup> Data from *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*. Monthly data from 1920 appeared in May, 1922, issue (No. 9), p. 88. Malt is converted at nine-tenths of a bushel to a bushel of barley. Barley flour converted at 5.5 bushels to the barrel, oatmeal at 5.21 bushels to 100 pounds, and rye flour at 6 bushels to the barrel. Barley flour is included in exports of barley only in 1918 through 1920.

<sup>4</sup> Compiled by the *U. S. Department of Agriculture, Bureau of Agricultural Economics*, from the various grain papers and periodicals and represents the average price per bushel for reported cash sales, weighted by the number of cars sold. The average for the year represents a simple average of monthly figures. Monthly data from 1910 appeared in the November, 1929, issue (No. 99), pp. 21, 22.

<sup>5</sup> Compiled by the *Dominion Bureau of Statistics, Internal Trade Branch*, covering merchant mills having a capacity of about 120,000 barrels per month, and also custom mills. The detailed reports of Canadian milling statistics also contain data on other grains as well as a division into eastern and western territory. Monthly data from 1922 separating oatmeal and rolled oats appeared in May, 1925, issue (No. 45), p. 27.

<sup>6</sup> Compiled by the *Department of Agriculture, Bureau of Agricultural Economics*, representing stocks held in elevators, and warehouses at 11 interior centers and 8 seaports. Monthly data from 1919 appeared in the May, 1926, issue of the SURVEY (No. 57), p. 29.

Table 70.—RICE, FRUITS, VEGETABLES, AND HAY

YEAR AND MONTH	RICE <sup>1</sup>									APPLES	CITRUS FRUIT	WHITE POTATOES	ONIONS	HAY
	Paddy at California warehouses		Southern paddy	Total movement to mills	Shipments		Stocks, end of month	Imports	Exports	Cold-storage holdings <sup>2</sup> end mo.	Car-lot shipments <sup>2</sup>			Receipts <sup>3</sup>
	Shipments	Stocks end of month	Receipts at mills		Total from mills	New Orleans	Domestic at mills and dealers				Thous. of bbls.	Number of carloads		
	Barrels or sacks of 162 pounds				Pockets of 100 pounds				Number of carloads			No. of cars		
1913 mo. av.						169,718		191,510	26,633					
1914 mo. av.						203,340		193,597	45,687					
1915 mo. av.			468,036		479,349	196,238	757,281	212,140	57,431					
1916 mo. av.			640,627		652,912	258,484	1,021,642	179,760	109,150	1,890	6,950	11,397	1,304	
1917 mo. av.			591,159		642,918	275,513	872,667	222,059	172,990	1,752	4,754	12,055	1,596	
1918 mo. av.			633,910		699,754	278,785	682,788	446,741	139,944	1,865	5,737	3,417	14,105	1,835
1929 mo. av.			609,477		611,661	254,825	811,658	136,090	314,063	1,940	6,796	5,398	15,005	1,740
1920 mo. av.			639,610		554,723	222,175	1,287,057	109,706	327,177	2,383	8,580	5,975	14,627	2,163
1921 mo. av.			796,277		957,529	318,147	1,291,023	63,532	500,049	2,344	8,442	7,500	18,206	1,932
1922 mo. av.			837,657		797,973	275,358	1,253,992	52,946	342,952	2,566	7,734	5,882	19,930	2,163
1923 mo. av.	337,223	1,172,184	659,645	994,249	687,198	223,472	1,343,655	40,105	290,699	3,379	10,268	8,261	18,956	2,132
1924 mo. av.	188,668	386,862	707,425	896,093	691,376	156,446	1,142,799	31,728	128,758	3,438	9,009	8,562	20,178	2,502
1925 mo. av.	66,022	254,002	494,586	500,607	536,989	133,944	896,837	56,272	55,583	3,304	9,202	7,299	19,585	2,453
1926 mo. av.	211,855	579,429	630,670	842,525	635,703	160,417	1,574,641	97,415	97,910	3,845	10,380	8,095	18,895	2,685
1927 mo. av.	237,667	977,250	767,403	1,005,070	802,847	175,293	1,746,110	43,506	258,333	3,280	8,209	8,833	20,513	2,697
1928 mo. av.	185,767	1,515,738	854,334	1,040,101	853,953	168,035	1,767,620	27,999	315,799	3,604	9,675	7,848	20,886	2,813
1929 mo. av.			762,215		838,580	144,116	1,676,946	21,261	321,679	3,561	8,417	11,455	20,551	2,950
<b>1928</b>														
September	44,908	(5)	1,197,924	1,242,832	777,583	147,464	1,102,564	15,412	152,906	1,631	18,085	3,636	20,267	6,009
October	73,406	(5)	2,113,697	2,187,103	1,245,714	202,697	2,142,144	8,864	228,255	8,733	44,034	5,868	28,921	4,115
November	58,474	(5)	1,935,761	1,994,235	1,277,631	251,453	2,886,600	16,663	408,917	10,392	19,331	11,671	17,593	2,158
December	57,416	3,443,850	947,584	1,005,000	1,053,585	205,384	2,792,141	29,774	542,283	9,052	8,161	13,314	12,872	1,611
<b>1929</b>														
January	153,071	3,290,779	621,096	774,167	973,256	146,342	2,515,008	76,593	504,921	6,875	7,656	15,226	19,479	2,436
February	116,771	3,174,008	591,678	708,449	816,370	122,455	2,354,518	29,251	368,378	4,517	7,697	13,338	19,868	1,791
March	96,375	3,077,633	439,439	535,814	766,365	116,548	2,057,678	18,647	428,450	2,718	5,379	15,144	22,334	1,497
April	270,476	2,807,157	429,389	699,865	745,097	131,246	1,763,837	21,356	378,971	1,257	2,918	16,713	19,341	4,141
May	207,658	2,599,499	231,893	439,551	714,677	125,528	1,311,568	15,257	343,168	392	1,668	15,524	19,683	3,366
June	256,140	2,343,359	191,944	448,084	650,414	130,369	865,117	2,984	261,377	None.	1,001	11,820	24,321	1,700
July	142,914	2,200,445	125,737	268,651	515,342	113,969	485,177	6,556	231,401	None.	1,903	8,152	19,359	2,351
August	68,256		583,944	652,200	506,895	126,470	506,953	5,549	221,314	None.	3,532	7,348	16,871	2,545
September			1,387,795		841,027	156,232	1,099,055	6,292	131,509	1,633	13,114	5,684	23,978	5,040
October			2,330,286		1,376,400	249,474	2,173,838	6,662	229,686	7,997	36,366	8,652	31,253	5,484
November			1,415,999		1,133,769	178,168	2,551,417	12,494	340,753	9,380	14,046	8,936	15,299	2,815
December			797,381		1,023,346	132,592	2,439,182	53,488	420,212	7,967	5,729	10,927	14,826	2,232
<b>1930</b>														
January			869,702		1,073,165	88,638	2,317,594	34,334	323,281	6,034	6,095	10,091	19,857	3,277
February			961,209		1,005,421	81,050	2,360,083	20,273	221,954	4,259	6,314	10,187	19,593	2,743
March			283,753		793,008	80,506	1,899,421	25,889	209,915	2,596	5,166	10,705	21,681	2,260
April						63,189		19,755	152,572	1,299	3,607	9,653	19,350	2,874
May						107,430		10,000	203,573	463	1,966	2,104	22,588	3,975
June						65,195		5,499	202,224	None.	1,083	5,478	24,614	1,729
July						56,861				None.	3,253	5,765	22,093	2,556
August														
September														
October														
November														
December														

<sup>1</sup> Southern receipts, shipments, and stocks at mills from Rice Millers' Association, comprising movement of the whole rice crop except California rice. Data on paddy at all California warehouses from Rice Growers' Association of California. The column "Total movement to mills" is a total of the shipments from California warehouses and receipts at Southern mills, thus giving a view of the total movement of domestic rice to the mills. Shipments of rice through New Orleans compiled by New Orleans Board of Trade. Imports and exports from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, data for rough rice being reduced to the equivalent of clean rice at 162 pounds of rough to 100 pounds of clean, as barrels or sacks of 162 pounds are equivalent to clean rice pockets at 100 pounds each.

<sup>2</sup> Data on cold-storage holdings of apples and on car-lot shipments of fruits and vegetables compiled by U. S. Department of Agriculture, Bureau of Agricultural Economics. Citrus fruit shipments consist of oranges, lemons, and grapefruit.

<sup>3</sup> Compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, and represents the receipts of hay at 13 principal markets.

<sup>4</sup> Average for 10 months, March through December.

<sup>5</sup> Stocks on hand are negligible, as the crop is not warehoused until the month of December.

Table 71.—LIVESTOCK MOVEMENT<sup>1</sup>

YEAR AND MONTH	CATTLE AND CALVES					HOGS					SHEEP AND LAMBS					
	Total receipts	Shipments		Local slaughter	Price, steers, good to choice, corn fed, Chicago <sup>2</sup>	Total receipts	Shipments		Local slaughter	Price, heavy, Chicago <sup>2</sup>	Total receipts	Shipments		Local slaughter	Price <sup>3</sup>	
		Stock-er and feeder	Total				Stock-er and feeder	Total				Stock-er and feeder	Total		Ewes, Chi-cago	Lambs, Chicago
	Thousands of animals				Dolls. p. 100 lbs.	Thousands of animals				Dolls. p. 100 lbs.	Thousands of animals			Dollars per 100 pounds		
1913 mo. av.					\$8.51					\$8.37					\$4.69	\$7.79
1914 mo. av.					7.04					8.36					5.04	8.12
1915 mo. av.					8.70					7.13					5.93	9.23
1916 mo. av.		321			9.58					9.62					7.17	10.02
1917 mo. av.	1,922	401	790	1,106	12.81	3,170	66	1,048	2,120	15.71	1,685	371	918	762	10.33	16.09
1918 mo. av.	2,108	418	859	1,240	16.42	3,738	82	1,198	2,537	17.60	1,874	434	1,017	856	11.29	17.33
1919 mo. av.	2,052	441	863	1,136	17.50	3,706	75	1,197	2,501	18.24	2,271	580	1,215	1,004	9.35	16.13
1920 mo. av.	1,850	342	819	1,016	14.49	3,510	61	1,275	2,230	14.19	1,962	432	1,047	915	8.74	15.90
1921 mo. av.	1,649	292	717	923	8.76	3,425	42	1,226	2,194	8.45	2,014	241	944	1,072	3.41	9.99
1922 mo. av.	1,935	405	889	1,036	9.46	3,672	49	1,278	2,395	9.39	1,864	347	973	889	5.81	13.22
1923 mo. av.	1,934	379	838	1,086	9.96	4,611	68	1,595	3,014	7.70	1,836	373	978	856	6.09	13.46
1924 mo. av.	1,975	332	808	1,154	9.68	4,618	41	1,684	2,932	8.48	1,850	390	983	867	6.91	14.29
1925 mo. av.	2,006	319	786	1,205	10.65	3,661	44	1,356	2,305	12.22	1,842	361	976	867	7.21	15.22
1926 mo. av.	1,989	309	784	1,196	9.51	3,314	76	1,264	2,048	12.35	1,989	385	1,038	949	6.59	13.73
1927 mo. av.	1,897	301	764	1,122	12.73	3,451	77	1,254	2,195	10.12	1,995	408	1,040	955	6.12	13.79
1928 mo. av.	1,790	331	751	1,026	14.49	3,877	61	1,433	2,440	9.63	2,133	417	1,110	1,021	6.51	14.20
1929 mo. av.	1,730	304	700	992	13.49	3,675	52	1,346	2,327	10.32	2,239	464	1,166	1,071	6.23	13.72
<b>1928</b>																
May.....	1,799	283	682	1,120	13.18	3,723	66	1,296	2,420	9.61	1,952	205	994	951	7.31	15.19
June.....	1,558	184	594	963	13.56	3,548	56	1,299	2,269	10.12	1,913	278	904	1,020	5.88	13.03
July.....	1,650	196	608	1,013	14.99	2,924	45	1,193	1,719	10.86	1,898	234	828	1,068	5.38	15.18
August.....	1,829	336	814	1,007	15.11	2,523	43	1,160	1,363	11.71	2,362	564	1,250	1,097	5.72	14.31
September...	2,101	563	1,067	1,069	16.19	2,600	55	1,093	1,500	12.43	3,386	1,080	2,161	1,213	5.50	14.16
October.....	2,541	799	1,327	1,195	14.63	3,666	65	1,341	2,311	10.03	3,938	1,466	2,485	1,403	5.35	13.08
November....	1,963	497	944	1,038	14.28	4,075	62	1,475	2,602	9.02	2,053	544	1,091	1,016	5.31	12.69
December....	1,510	253	598	910	14.18	4,773	48	1,529	3,230	8.78	1,610	193	693	917	6.28	13.78
<b>1929</b>																
January.....	1,639	178	561	1,061	13.53	5,133	47	1,864	3,266	9.10	1,877	188	837	1,041	8.39	15.59
February....	1,195	117	405	790	12.06	4,000	49	1,502	2,484	10.13	1,544	115	683	840	7.72	15.59
March.....	1,450	162	497	928	12.84	3,436	72	1,365	2,073	11.39	1,527	122	699	836	8.42	16.19
April.....	1,752	292	647	1,084	13.88	3,582	73	1,277	2,291	11.46	2,012	210	954	1,051	9.18	16.45
May.....	1,660	294	682	985	13.44	3,431	57	1,306	2,133	10.75	2,173	218	1,077	1,102	5.91	12.78
June.....	1,451	176	530	907	14.38	3,275	53	1,151	2,124	10.66	1,752	226	742	1,020	5.31	12.75
July.....	1,665	173	595	1,043	14.98	3,297	38	1,202	2,092	11.20	2,119	231	883	1,217	5.55	13.80
August.....	1,619	267	687	940	14.69	2,964	38	1,132	1,835	10.66	2,544	639	1,392	1,155	5.16	12.88
September...	2,105	423	888	1,117	13.80	3,089	40	1,128	1,944	9.96	3,355	1,027	1,971	1,301	4.68	12.55
October.....	2,407	747	1,271	1,170	13.31	3,701	50	1,381	2,333	9.65	4,093	1,831	2,819	1,328	4.63	12.09
November....	1,943	556	1,012	958	12.69	3,933	52	1,396	2,543	9.27	2,168	575	1,207	995	4.98	11.960
December....	1,555	255	627	923	12.13	4,256	53	1,449	2,801	9.47	1,703	184	732	967	4.94	12.00
<b>1930</b>																
January.....	1,639	233	623	995	12.47	4,720	38	1,797	2,905	9.61	1,903	126	786	1,111	6.26	12.68
February....	1,326	201	508	806	12.63	3,791	56	1,491	2,297	10.41	1,796	101	735	1,041	5.18	10.44
March.....	1,547	207	592	919	12.80	3,294	58	1,451	1,853	9.83	2,151	99	936	1,210	5.14	9.73
April.....	1,644	255	639	1,016	12.56	3,255	57	1,280	1,980	9.98	2,230	134	975	1,278	5.13	8.94
May.....	1,517	199	569	947	11.56	3,293	47	1,216	2,084	10.02	2,334	142	1,092	1,249	4.78	9.04
June.....	1,459	129	496	953	10.73	3,215	40	1,082	2,123	9.68	2,230	216	955	1,263	3.45	9.73
July.....	1,512	109	501	1,004	9.28	2,918	30	1,139	1,782	8.94	2,296	206	940	1,362	3.06	8.13
August.....																
September...																
October.....																
November....																
December....																

<sup>1</sup> These figures, except prices, represent the movement at between 60 and 70 markets; data procured from the U. S. Department of Agriculture, Bureau of Agricultural Economics. Monthly data from 1920 appeared in November, 1922, issue (No. 15), p. 115. Data on total animals slaughtered are given in Table 36.

<sup>2</sup> From U. S. Department of Labor, Bureau of Labor Statistics, averages of weekly quotations. Monthly data from 1920 appeared in May, 1922, issue (No. 9), p. 91.



Table 72.—PORK PRODUCTS

YEAR AND MONTH	PRODUCTION <sup>1</sup> (inspected slaughter)		EXPORTS <sup>2</sup>			COLD-STORAGE HOLDINGS <sup>3</sup> (end of month)			APPAR- ENT CON- SUMP. <sup>4</sup>	WHOLESALE PRICES <sup>5</sup>	
	Total pork products	Lard	Total pork products	Lard	Other products	Total pork products	Lard	Fresh and cured	Total pork products	Smoked hams, Chicago	Lard, prime contract, New York
	Thousand of pounds									Dollars per pound	
1913 monthly average...	477, 117	-----	85, 065	-----	-----	-----	-----	-----	-----	\$0.166	\$0.110
1914 monthly average...	450, 851	-----	68, 960	-----	-----	-----	-----	-----	-----	.167	.104
1915 monthly average...	524, 294	-----	114, 039	-----	-----	-----	-----	-----	-----	.153	.094
1916 monthly average...	565, 691	-----	120, 941	35, 555	85, 386	644, 543	85, 741	558, 802	431, 847	.185	.135
1917 monthly average...	449, 570	-----	108, 142	31, 060	77, 082	669, 284	74, 117	595, 167	343, 486	.252	.219
1918 monthly average...	583, 154	-----	187, 558	45, 735	141, 823	875, 323	90, 959	784, 364	378, 420	.318	.261
1919 monthly average...	588, 977	-----	219, 803	63, 408	156, 394	920, 922	92, 212	828, 710	383, 581	.343	.290
1920 monthly average...	539, 452	-----	128, 019	51, 021	76, 998	898, 845	120, 413	778, 432	417, 203	.334	.200
1921 monthly average...	560, 212	114, 942	135, 887	72, 412	63, 476	761, 914	119, 705	642, 209	435, 295	.268	.111
1922 monthly average...	618, 276	131, 261	123, 912	63, 913	59, 999	647, 594	86, 573	561, 021	481, 376	.265	.115
1923 monthly average...	765, 178	164, 270	165, 645	86, 282	79, 363	837, 352	77, 311	760, 042	588, 051	.212	.123
1924 monthly average...	734, 963	160, 219	139, 483	78, 675	60, 808	827, 581	89, 855	737, 726	600, 103	.202	.133
1925 monthly average...	610, 226	120, 979	102, 260	57, 402	44, 857	753, 480	108, 020	645, 460	524, 712	.271	.168
1926 monthly average...	606, 045	126, 115	93, 812	58, 246	35, 065	646, 521	94, 884	551, 637	512, 824	.307	.150
1927 monthly average...	644, 230	129, 729	82, 017	56, 775	25, 241	771, 955	102, 926	669, 029	558, 796	.246	.129
1928 monthly average...	714, 941	145, 812	90, 405	63, 310	27, 095	883, 736	140, 742	742, 995	610, 872	.228	.123
1929 monthly average...	702, 527	146, 929	99, 299	69, 110	30, 189	910, 544	164, 083	756, 461	608, 288	.244	.120
<b>1928</b>											
September.....	434, 296	80, 135	65, 617	46, 158	19, 459	641, 977	126, 890	515, 087	588, 472	.254	.132
October.....	623, 716	113, 968	75, 384	59, 865	15, 519	516, 634	83, 474	433, 160	675, 222	.260	.124
November.....	741, 385	141, 720	88, 450	67, 716	20, 734	529, 019	67, 257	461, 762	641, 378	.243	.121
December.....	969, 121	196, 500	109, 672	86, 358	23, 314	755, 256	85, 217	670, 039	633, 827	.244	.117
<b>1929</b>											
January.....	974, 060	213, 780	122, 773	90, 137	32, 636	978, 806	140, 526	838, 280	628, 309	.232	.121
February.....	770, 096	164, 915	93, 681	65, 924	27, 758	1, 118, 606	173, 864	944, 742	537, 342	.231	.123
March.....	635, 791	133, 923	102, 276	70, 572	31, 704	1, 101, 389	179, 428	921, 961	551, 810	.238	.125
April.....	655, 418	137, 953	89, 813	59, 144	30, 669	1, 108, 306	184, 748	923, 558	559, 351	.248	.122
May.....	665, 985	141, 989	98, 091	64, 192	33, 899	1, 054, 275	183, 490	870, 785	622, 878	.249	.120
June.....	672, 947	144, 272	100, 556	67, 252	33, 304	1, 041, 636	199, 699	841, 937	586, 060	.254	.123
July.....	675, 915	139, 693	96, 298	64, 274	32, 024	1, 017, 364	203, 010	814, 354	604, 340	.267	.125
August.....	586, 150	121, 894	87, 277	55, 487	31, 790	899, 485	180, 085	719, 400	617, 432	.275	.124
September.....	552, 490	114, 179	84, 650	58, 329	26, 321	754, 188	153, 690	600, 498	614, 108	.267	.122
October.....	651, 681	128, 951	97, 081	70, 698	26, 383	591, 247	99, 845	491, 402	717, 951	.242	.114
November.....	738, 485	144, 987	114, 707	83, 257	31, 450	558, 146	68, 517	489, 629	657, 403	.218	.109
December.....	851, 300	176, 607	104, 377	80, 053	24, 324	703, 084	82, 098	620, 986	602, 470	.215	.108
<b>1930</b>											
January.....	874, 334	177, 251	105, 817	73, 291	32, 526	779, 277	92, 171	687, 106	692, 820	.239	.109
February.....	705, 032	147, 725	97, 263	65, 953	31, 310	897, 478	111, 914	785, 564	489, 976	.252	.112
March.....	589, 968	124, 129	97, 898	66, 533	31, 365	858, 063	105, 067	752, 996	531, 873	.243	.107
April.....	603, 184	123, 565	77, 466	50, 045	27, 421	816, 605	104, 905	711, 700	567, 651	.229	.107
May.....	665, 124	135, 785	93, 589	62, 562	31, 028	790, 437	115, 270	675, 167	598, 022	.228	.107
June.....	664, 172	133, 563	82, 054	56, 666	25, 388	799, 543	120, 322	679, 221	598, 022	.233	.102
July.....	-----	-----	-----	-----	-----	770, 974	118, 923	652, 051	-----	.230	.100
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Production of pork products, including lard, from animals slaughtered under Federal inspection reported by the U. S. Department of Agriculture, Bureau of Animal Industry, given as total dressed weight, excluding meat from condemned animals. Slaughter of hogs under Federal inspection according to 1919 census figures amounted to 68 per cent of total slaughter. Monthly data from 1920, slightly revised since, given in May, 1922, issue (No. 9), p. 95, including data on exports, storage holdings, and apparent consumption also. The figures shown here for lard revise previous figures through calculation of production from yields by the Bureau of Agricultural Economics.

<sup>2</sup> Exports reported by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. The total includes bacon, ham, shoulders, lard, neutral lard, and canned, fresh, and pickled pork. In the division between lard and other products, neutral lard is included with "Other products."

<sup>3</sup> Cold-storage holdings, reported by the U. S. Department of Agriculture, Bureau of Agricultural Economics, are distinctly seasonal.

<sup>4</sup> Apparent consumption, including only meat produced under Federal inspection, has been computed by the U. S. Department of Agriculture, Bureau of Agricultural Economics from the inspected slaughter, less condemned animals, plus net imports less exports and reexports and the change in cold-storage holdings.

<sup>5</sup> Wholesale prices are averages of weekly quotations as compiled by the U. S. Department of Labor, Bureau of Labor Statistics. Monthly data on ham prices from 1919 appeared in September, 1923, issue (No. 25), p. 55.

Table 73.—OTHER MEATS

YEAR AND MONTH	BEEF						LAMB			MISC. MEATS	TOTAL MEATS (including lard)		
	Production (inspected slaughter) <sup>1</sup>	Exports <sup>2</sup>	Cold-storage holdings, end of month <sup>3</sup>	Apparent consumption <sup>4</sup>	Wholesale prices <sup>5</sup>		Production (inspected slaughter) <sup>1</sup>	Cold-storage holdings, end of month <sup>3</sup>	Apparent consumption <sup>4</sup>	Cold-storage holdings, end of month <sup>6</sup>	Production (inspected slaughter) <sup>1</sup>	Cold-storage holdings, end of month <sup>3</sup>	Apparent consumption <sup>4</sup>
					West-ern dressed steers, N. Y.	Fresh native steers, Chicago							
	Thousands of pounds				Dolls. per pound		Thousands of pounds						
1913 monthly average.	329,811	3,016			\$0.132	\$0.130	45,661				852,589		
1914 monthly average.	314,784	7,161			.143	.136	44,623				810,258		
1915 monthly average.	331,971	31,297			.135	.129	38,445				894,710		
1916 monthly average.	383,268	22,724	127,200	354,440	.147	.138	37,564	3,722	38,439		986,523		824,727
1917 monthly average.	457,910	29,142	192,343	420,946	.188	.167	29,120	4,531	29,141	7 48,182	936,601	887,581	798,573
1918 monthly average.	522,309	58,338	256,523	467,135	.247	.221	31,831	6,026	31,299	86,774	1,137,294	1,224,646	876,854
1919 monthly average.	448,074	22,592	237,123	431,602	.254	.233	38,539	8,291	39,166	103,078	1,075,590	1,269,413	854,349
1920 monthly average.	395,093	11,599	156,117	400,648	.247	.230	34,399	20,174	37,703	82,474	968,944	1,157,610	855,554
1921 monthly average.	371,108	3,418	99,623	375,060	.178	.163	41,096	22,090	43,003	79,137	972,417	962,764	853,358
1922 monthly average.	414,045	2,723	68,521	411,561	.159	.150	34,820	3,294	35,830	53,641	1,067,141	773,050	928,766
1923 monthly average.	427,407	2,347	75,689	427,455	.176	.158	37,188	3,742	37,615	67,540	1,229,773	984,698	1,053,121
1924 monthly average.	444,005	2,171	79,712	440,131	.171	.171	38,030	2,495	38,047	72,060	1,216,993	981,848	1,078,281
1925 monthly average.	456,643	2,205	80,156	460,585	.192	.180	38,943	1,731	39,140	73,021	1,105,812	908,389	1,024,436
1926 monthly average.	479,709	2,065	64,358	479,839	.171	.164	41,741	2,622	41,691	54,644	1,127,495	768,145	1,032,502
1927 monthly average.	439,760	1,613	59,065	446,650	.200	.186	41,812	2,625	41,964	59,885	1,125,802	893,530	1,047,411
1928 monthly average.	393,917	1,110	53,801	401,113	.245	.228	43,546	3,147	43,630	64,659	1,152,494	1,005,344	1,055,615
1929 monthly average.	393,965	1,362	72,018	404,009	.236	.231	45,458	3,653	45,800	81,455	1,141,949	1,067,671	1,058,097
<b>1929</b>													
January.....	419,676	1,119	93,990	430,985	.245	.240	45,485	4,009	47,139	88,678	1,439,221	1,165,483	1,106,433
February.....	328,857	1,273	88,771	339,194	.215	.209	38,424	3,252	39,908	91,363	1,137,377	1,301,992	916,444
March.....	371,942	1,614	81,607	389,662	.217	.211	40,888	3,109	41,330	90,129	1,048,621	1,276,234	982,802
April.....	392,785	1,073	70,714	415,181	.225	.224	44,575	2,533	46,183	88,314	1,092,778	1,269,867	1,020,715
May.....	392,816	1,293	57,315	417,481	.231	.230	46,397	2,461	46,694	82,331	1,105,198	1,196,382	1,087,053
June.....	364,470	1,494	52,055	388,343	.238	.234	42,012	3,061	41,948	81,132	1,079,429	1,177,884	1,016,351
July.....	402,501	2,268	45,930	420,212	.255	.238	46,804	2,639	47,563	81,068	1,125,221	1,147,001	1,072,115
August.....	406,700	1,457	48,014	419,494	.251	.238	49,096	3,159	48,743	76,539	1,041,946	1,027,197	1,085,669
September.....	419,281	1,259	56,434	423,701	.250	.236	50,158	4,113	49,551	71,511	1,021,929	886,246	1,087,360
October.....	458,440	1,223	72,059	453,543	.238	.236	52,677	4,992	51,963	63,914	1,162,798	732,212	1,223,457
November.....	399,272	1,100	93,444	386,168	.236	.240	45,233	5,194	44,976	72,744	1,182,990	729,528	1,088,547
December.....	370,843	1,175	103,883	364,142	.235	.240	43,742	5,317	43,605	89,742	1,265,885	902,026	1,010,217
<b>1930</b>													
January.....	408,525	1,292	99,020	415,507	.235	.240	50,289	4,667	50,814	89,144	1,333,148	972,108	1,159,141
February.....	327,527	1,133	95,598	333,556	.223	.236	49,564	5,408	48,762	89,970	1,082,124	1,088,454	872,294
March.....	358,129	1,431	88,743	371,113	.215	.240	56,494	5,174	56,726	85,868	1,004,590	1,037,848	959,712
April.....	373,810	1,360	80,620	393,451	.220	.239	55,602	5,190	55,488	83,622	1,032,596	986,037	1,016,590
May.....	401,989	1,610	71,556	423,828	.220	.215	53,375	4,639	53,781	83,294	1,120,488	949,926	1,075,631
June.....	375,276	1,973	66,891	385,026	.218	.195	48,239	4,820	47,823	88,000	1,087,687	959,234	1,066,428
July.....			64,722		.177	.174		4,470				929,897	
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Production from animals slaughtered under Federal inspection reported by the U. S. Department of Agriculture, Bureau of Animal Industry, given as total dressed weight, excluding meat from condemned animals. The slaughter under Federal inspection, according to census figures for 1919, amounted to 82 per cent of the total number of animals slaughtered in the United States in the case of beef and 91 per cent for lamb. Monthly data from 1920, including also exports, storage holdings, apparent consumption, and prices, appeared in May, 1922, issue (No. 9), p. 95. Veal is included in the beef figures and mutton in the lamb figures.

<sup>2</sup> Exports, as reported by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, include fresh, canned, and pickled and cured beef.

<sup>3</sup> Cold-storage holdings, reported by the U. S. Department of Agriculture, Bureau of Agricultural Economics, are distinctly seasonal. Figures represent storage holdings on the last day of each month. Beef holdings include frozen, cured, and in process of cure, while lamb holdings embrace frozen lamb and mutton. Total meats including lard, monthly data from 1917 being shown in the July, 1928, issue (No. 83), p. 19.

<sup>4</sup> Apparent consumption, including only meat produced under Federal inspection, has been computed by the U. S. Department of Agriculture, Bureau of Agricultural Economics, from the inspected slaughter, less condemned animals, plus net imports less exports and reexports and the change in cold-storage holdings. Monthly data on total meats from 1916 appeared in the March, 1926, issue (No. 55), p. 23.

<sup>5</sup> Wholesale prices are averages for the month from U. S. Department of Labor, Bureau of Labor Statistics.

<sup>6</sup> Compiled by U. S. Department of Agriculture and include all stocks of beef, pork, and mutton trimmings and edibles offal that have been frozen, cured, or otherwise prepared for food. Data do not include trimmings that have not been frozen, cured, nor processed, nor sausage or canned-meat products. Data are given for the end of each month. Monthly data from August, 1917, appeared in the April, 1926, issue (No. 50), p. 20.

<sup>7</sup> A average for 5 months, August to December, inclusive.

Table 74.—CONDENSED AND EVAPORATED MILK

YEAR AND MONTH	PRODUCTION <sup>1</sup>				TOTAL STOCKS <sup>1</sup> (end of month)				UNSOLD STOCKS <sup>1</sup> (end of month)				WHOLE-SALE PRICES <sup>2</sup>		EXPORTS <sup>3</sup>			
	Total	Condensed		Evaporated		Total	Condensed		Evaporated	Total	Condensed		Evaporated	Case goods		Total	Condensed	Evaporated
		Case goods	Bulk goods	Case goods	Bulk goods		Case goods	Bulk goods			Case goods	Cond.		Evap.				
	Thousands of pounds													Dolls. per case		Thous. of pounds		
1920 mo. av	131,501	29,008	8,979	82,117	11,398	235,138	56,515	19,701	158,214	123,436	29,083	11,846	81,890	\$9.52	\$5.93	34,520	23,094	11,162
1921 mo. av	122,014	16,987	7,365	85,798	11,864	173,926	31,375	17,999	123,661	116,560	23,346	13,142	79,207	7.06	5.10	24,931	7,825	16,319
1922 mo. av	119,279	19,531	8,862	79,457	11,430	137,226	21,166	9,875	105,872	87,342	14,833	7,504	64,711	5.25	4.14	16,141	4,734	10,891
1923 mo. av	147,907	16,567	12,258	104,963	14,119	166,022	20,181	18,505	127,089	104,558	13,429	11,142	79,751	6.24	4.71	16,392	4,782	11,407
1924 mo. av	141,712	15,777	12,001	100,109	13,825	186,925	19,236	16,727	150,693	132,998	14,119	8,870	109,751	5.98	4.15	17,647	5,331	11,855
1925 mo. av	146,488	15,829	13,246	100,704	16,709	161,409	29,792	7,790	123,538	113,769	21,259	4,092	88,189	5.91	4.34	12,618	3,559	8,755
1926 mo. av	144,459	13,020	16,934	97,538	16,966	165,414	27,065	14,904	123,233	120,933	21,438	6,623	92,706	5.86	4.42	9,768	3,226	6,320
1927 mo. av	154,644	13,582	106,826	18,953	18,953	181,413	28,179	13,759	139,135	132,773	22,911	5,445	104,253	5.87	4.57	8,863	2,915	5,671
1928 mo. av	159,869	11,704	16,115	112,303	19,747	176,888	22,696	14,434	139,469	132,862	17,108	6,672	108,819	6.02	4.43	9,964	3,230	6,399
1929 mo. av	176,775	-----	-----	-----	-----	240,316	22,690	19,911	197,251	175,401	17,378	6,377	151,475	6.14	4.27	9,628	3,440	5,744
<b>1928</b>																		
January...	127,801	11,564	13,482	88,590	14,165	147,774	20,618	8,457	118,444	115,623	15,151	5,216	95,120	6.00	4.58	11,414	3,819	7,360
February...	138,590	12,366	13,242	97,826	15,156	119,314	17,924	7,635	93,528	83,387	12,534	5,230	65,497	5.98	4.46	10,504	2,645	7,531
March.....	166,611	14,476	17,056	116,306	18,773	100,299	15,845	8,299	75,949	73,238	10,868	6,034	56,201	5.84	4.23	13,715	4,707	8,742
April.....	181,077	13,969	18,299	128,494	20,315	124,861	18,496	11,757	94,338	91,928	13,169	6,453	72,121	5.83	4.23	9,424	2,700	6,421
May.....	223,056	13,102	25,277	157,880	26,797	158,648	22,396	16,716	119,210	122,875	18,079	8,400	95,386	5.83	4.28	11,357	3,279	7,806
June.....	255,369	11,727	30,775	183,509	29,358	244,473	31,087	25,255	187,789	190,611	25,081	13,368	151,769	5.83	4.28	8,742	3,054	5,464
July.....	197,877	11,224	16,794	142,009	27,850	232,131	30,397	20,794	180,377	157,329	23,594	8,611	124,738	5.97	4.34	8,550	3,011	5,180
August....	160,360	12,344	12,810	109,956	25,250	211,841	30,542	19,332	161,679	134,487	24,159	8,367	101,819	6.18	4.45	10,114	3,246	6,343
September	140,388	12,079	13,940	94,966	19,403	211,413	27,837	17,604	165,682	162,670	21,821	6,351	134,259	6.18	4.58	9,311	3,405	5,583
October....	118,848	9,804	11,316	82,978	14,750	203,605	23,949	14,429	164,989	161,584	17,818	4,840	138,808	6.18	4.58	8,108	2,531	5,264
November..	95,642	6,662	8,723	67,586	12,671	192,098	18,864	14,759	158,293	153,630	13,588	3,640	136,271	6.18	4.58	10,113	3,335	6,275
December..	112,808	11,126	11,669	77,540	12,473	176,198	14,398	8,165	153,351	146,980	9,428	3,556	133,835	6.18	4.58	8,077	2,892	4,821
<b>1929</b>																		
January...	129,982	13,140	13,802	90,696	12,344	153,976	10,393	6,271	137,163	120,771	5,339	2,925	112,430	6.18	4.58	9,824	3,432	6,021
February...	129,095	10,892	13,310	92,937	11,956	131,548	8,463	5,826	116,823	101,911	3,227	2,669	95,925	6.18	4.58	10,580	3,486	6,606
March.....	160,428	13,694	16,278	113,451	17,005	127,421	8,677	6,633	111,868	94,247	3,841	2,799	87,491	6.18	4.56	12,732	4,510	7,768
April.....	207,346	14,580	22,934	145,498	24,334	150,959	12,534	11,312	126,314	102,238	7,984	4,012	89,789	6.13	4.30	10,085	3,610	5,996
May.....	270,018	14,402	33,553	188,024	34,039	201,382	22,193	18,262	160,426	140,196	17,249	6,644	116,144	6.13	4.30	9,003	2,689	5,917
June.....	302,254	15,003	35,890	211,471	39,890	280,740	31,459	25,803	222,956	208,372	25,140	9,296	173,684	6.13	4.30	10,888	3,280	7,121
July.....	246,196	13,318	24,487	175,807	32,584	346,844	34,750	29,890	281,137	254,137	28,883	9,221	215,878	6.13	4.30	10,194	3,865	5,929
August....	184,726	10,213	17,247	128,256	29,010	334,795	32,142	29,217	272,427	222,602	26,950	8,751	186,717	6.13	4.30	8,225	3,366	4,609
September.	142,608	9,512	14,178	97,179	21,739	310,095	29,893	30,038	249,936	225,150	24,237	8,019	192,761	6.13	4.21	7,149	3,116	3,703
October....	124,434	-----	-----	-----	-----	300,972	29,182	27,559	244,035	223,572	23,614	7,735	192,084	6.13	3.95	9,876	4,019	5,179
November..	107,119	-----	-----	-----	-----	283,807	27,126	24,514	231,970	214,174	21,732	6,855	185,455	6.13	3.95	7,984	2,771	4,767
December..	117,095	-----	-----	-----	-----	261,248	25,462	23,606	211,954	197,445	20,341	7,600	169,345	6.13	3.95	9,000	3,100	5,339
<b>1930</b>																		
January...	125,073	-----	-----	-----	-----	221,348	21,740	23,475	175,974	166,661	16,502	6,289	143,769	6.13	3.95	9,407	2,623	5,839
February...	124,835	-----	-----	-----	-----	192,562	18,671	20,495	153,202	148,459	14,077	4,685	129,580	6.13	3.95	9,156	3,582	5,121
March.....	153,190	-----	-----	-----	-----	184,897	17,495	20,577	146,571	143,745	13,235	4,773	125,623	6.13	3.95	9,475	3,477	5,369
April.....	190,551	-----	-----	-----	-----	203,422	20,590	20,611	162,221	-----	16,213	5,117	140,371	6.13	3.95	9,527	2,710	6,181
May.....	242,206	-----	-----	-----	-----	254,661	30,124	25,203	199,334	199,261	25,467	7,598	166,196	6.13	3.95	9,309	2,502	6,308
June.....	249,057	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6.13	3.69	8,444	2,682	5,417
July.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6.13	3.74	-----	-----	-----
August....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November..	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December..	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Data on production and stocks from U. S. Department of Agriculture, Bureau of Agricultural Economics, representing practically the entire industry. Production figures by classes are reported only every three months, while stocks are available currently. Stocks, both total and unsold, are given as of the end of each month, stocks of evaporated bulk goods being included in each total, but omitted in detail on account of the small quantities usually held. Condensed milk is sweetened by the addition of sugar while evaporated milk is simply milk reduced in volume. The bulk goods are generally destined for bakeries, etc., while case goods are for the retail trade.

<sup>2</sup> Wholesale prices compiled by U. S. Department of Labor, Bureau of Labor Statistics, are averages of weekly prices at New York. A case of condensed milk contains 48 14-ounce tins, while a case of evaporated milk has 48 16-ounce tins. Monthly data from 1913 appeared in December, 1925, issue (No. 52), p. 22.

<sup>3</sup> Exports are from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

Table 75.—DAIRY PRODUCTS, POULTRY AND EGGS

YEAR AND MONTH	RAW MILK				POWDERED MILK				ICE CREAM	POULTRY		EGGS		
	Receipts		Production, Minneapolis, St. Paul <sup>3</sup>	Consumption in oleomargarine <sup>4</sup>	Production <sup>5</sup>	Net orders <sup>6</sup>	Stocks, end of month <sup>7</sup>	Exports <sup>8</sup>	Production <sup>9</sup>	Receipts at 5 markets <sup>9</sup>	Cold-storage holdings (end of mo.) <sup>10</sup>	Receipts at 5 markets <sup>9</sup>	Cold-storage holdings <sup>10</sup>	
	Greater New York <sup>1</sup>	Boston (Includ. cream) <sup>2</sup>											Case	Frozen <sup>11</sup>
	Thousands of quarts		Thousands of pounds		Thousands of pounds				Thous. of gallons	Thousands of pounds		Thousands of cases <sup>12</sup>		Thous. of lbs.
1913 monthly average..	59,765													
1914 monthly average..	60,526				1,749									
1915 monthly average..	63,593													
1916 monthly average..	64,507				1,549								3,069	4,930
1917 monthly average..	66,097	11,727			2,147					50,328			3,504	10,621
1918 monthly average..	70,516	12,193	5,715		2,530				10,242	44,032			3,367	12,071
1919 monthly average..	75,007	13,059	7,145		3,634				10,653	64,798	1,224		4,156	14,871
1920 monthly average..	81,376	13,865	7,786		4,352		11,645	264	12,358	46,146	1,079		3,261	18,866
1921 monthly average..	85,769	14,116	12,141	144,876	3,566		11,775	787	12,329	21,355	50,278	1,251	4,171	24,562
1922 monthly average..	89,326	14,878	13,224	4,386	3,901		7,314	516	13,467	23,559	54,276	1,335	5,137	22,607
1923 monthly average..	95,196	15,391	17,895	5,426	5,734		6,395	203	15,284	28,397	68,045	1,391	5,355	27,716
1924 monthly average..	99,655	15,930	21,005	5,564	6,426		12,875	461	15,130	30,265	64,900	1,284	4,593	27,426
1925 monthly average..	103,612	16,511	23,266	5,740	6,854		7,092	304	17,865	26,733	82,050	1,290	5,309	31,610
1926 monthly average..	106,196	17,389	24,769	5,931	8,541		10,225	222	17,937	30,178	70,395	1,300	4,941	37,850
1927 monthly average..	110,904	17,753	24,636	6,353	10,799		9,307	277	18,896	28,684	79,016	1,350	5,410	57,448
1928 monthly average..	113,348	17,865	26,259	7,791	13,133		15,148	335	19,349	29,659	67,952	1,345	5,338	62,366
1929 monthly average..	116,574	18,446	28,919	8,237		8,677	24,795	445		32,460	66,008	1,309	4,413	64,570
<b>1929</b>														
January.....	113,555	16,631	28,388	8,036	10,707	7,341	13,450	372	8,376	30,969	102,380	918	248	48,055
February.....	104,355	15,560	27,025	7,835	10,968	6,982	11,525	488	8,830	20,672	89,088	832	11	38,250
March.....	117,885	18,443	31,248	8,133	14,395	8,182	14,022	454	13,894	17,116	68,728	1,816	559	34,918
April.....	113,019	18,002	30,960	7,847	19,417	8,520	16,659	480	18,144	16,846	52,901	2,596	3,952	51,825
May.....	120,087	19,381	35,435	7,514	25,518	9,629	22,802	396	24,507	17,593	41,643	2,331	6,705	71,560
June.....	124,702	19,920	36,949	6,487	26,924	9,961	31,103	480	32,180	20,434	42,001	1,813	8,510	84,766
July.....	122,366	20,114	32,021	7,445	24,598	9,967	33,921	454	36,483	22,548	40,896	1,409	8,962	91,488
August.....	117,248	19,115	25,737	8,144	18,785	10,092	33,491	250	31,725	26,150	49,010	1,151	8,547	86,693
September.....	118,605	18,273	21,974	8,824	14,522	9,234	30,775	329	21,668	28,477	61,976	944	7,195	81,541
October.....	118,929	18,699	23,739	10,321		8,435	29,118	678		37,725	86,873	735	4,930	70,331
November.....	114,399	18,990	24,670	9,486		7,938	29,616	446		73,662	115,876	532	2,631	61,772
December.....	113,742	18,224	28,884	9,169		7,813	31,061	561		77,325	140,723	633	704	53,644
<b>1930</b>														
January.....	114,235	19,192	32,554	9,035		8,956	29,833	944		33,386	141,552	917	139	44,080
February.....	104,586	17,149		7,714		8,767	26,199	454		24,800	133,172	1,110	84	35,192
March.....	117,880	19,369		7,103		8,832	25,674	629		16,954	105,708	2,063	2,231	49,751
April.....		19,400		7,903		10,671	26,675	636		17,847	77,420	2,631	5,766	76,664
May.....		20,906		6,935		11,333	28,096	496		21,942	61,167	2,366	9,178	106,904
June.....		21,149		6,074		11,913		346		23,867	54,253	1,728	10,743	115,134
July.....						9,636					46,890		11,202	116,358
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Receipts of milk, excluding cream, in the metropolitan area around New York City, including many large cities in New Jersey, from the *Milk Reporter*. Monthly data from 1920 appeared in the July, 1922, issue (No. 11), p. 46. These data have been computed from original figures in 40-quart cans, previously shown in the SURVEY.

<sup>2</sup> Receipts of milk at Boston by rail, including cream, from the *Massachusetts Department of Public Utilities*. Monthly data from 1920 appeared in the July, 1922, issue (No. 11), p. 46.

<sup>3</sup> Production of whole milk by members of the *Twin City Milk Association*, including most of the area within a 40-mile radius of Minneapolis and St. Paul. Monthly data from 1920 appeared in the July, 1922, issue (No. 11), p. 46.

<sup>4</sup> Data from *U. S. Treasury Department, Bureau of Internal Revenue*, showing consumption of milk in the manufacture of oleomargarine. Monthly data from July, 1921, appeared in the March, 1926, issue (No. 55), p. 25.

<sup>5</sup> Data from *U. S. Department of Agriculture, Bureau of Agricultural Economics*, representing practically complete production, but reported only every three months. Monthly data from 1920 on production of powdered milk appeared in the October, 1925, issue (No. 50), p. 26.

<sup>6</sup> Compiled by the *American Dry Milk Institute* from reports of 61 to 70 firms. Data on stocks held by 21 institute members appeared in October, 1925, issue (No. 50), p. 26. The association reports also include production and unit prices of members.

<sup>7</sup> Compiled by *U. S. Department of Agriculture, Bureau of Agricultural Economics*. Stocks comprise powdered milk derived from whole milk, skim milk, and unskimmed milk as of the end of the month and include both case and bulk goods, the former being comparatively small. Monthly data from 1920, divided as between case and bulk goods, are given in the November, 1925, issue (No. 51), p. 23.

<sup>8</sup> Compiled by *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*.

<sup>9</sup> Receipts at the markets of Boston, New York, Philadelphia, Chicago, and San Francisco, compiled by the *U. S. Department of Agriculture, Bureau of Agricultural Economics*, are totals of weekly figures with overlapping weeks prorated. Monthly data from 1920 appeared in June, 1922, issue (No. 10), p. 43.

<sup>10</sup> Cold-storage holdings at principal warehouses compiled by *U. S. Department of Agriculture, Bureau of Agricultural Economics*. Poultry holdings are given as of the end of the month. Monthly data from 1920 on poultry appeared in June, 1922, issue (No. 10), p. 43.

<sup>11</sup> Cold-storage holdings at end of month reported by *U. S. Department of Agriculture, Bureau of Agricultural Economics*, representing about 98 per cent of stocks held in public and private cold-storage warehouses. Monthly data on storage holdings of frozen eggs since 1916 were given in the May, 1927, issue (No. 69), p. 22.

<sup>12</sup> A case of eggs equals 30 dozen, or about 45 pounds net.

<sup>13</sup> A average for 8 months, May to December, inclusive.

<sup>14</sup> 6-month period, July to December, inclusive.

Table 76.—BUTTER AND CHEESE

YEAR AND MONTH	BUTTER					CHEESE										
	Pro-duction (factory) <sup>1</sup>	Appar-ent con-sump-tion <sup>2</sup>	Re-cipients at 5 mar-kets <sup>3</sup>	Cold-storage hold-ings, cream-ery <sup>4</sup>	Price, cream-ery, 92 score <sup>5</sup>	Total, all varieties					American <sup>6</sup>					
						Pro-duction <sup>1</sup>	Appar-ent con-sump-tion <sup>2</sup>	Re-cipients at 5 mar-kets <sup>3</sup>	Cold-storage hold-ings <sup>4</sup>	Im-ports <sup>6</sup>	Exports		Pro-duction <sup>1</sup>	Cold-storage hold-ings <sup>4</sup>	Price No. 1 fresh <sup>(7)</sup>	
	U. S. <sup>(8)</sup>	Can-ada <sup>7</sup>	Dolls. p. lb.	Dolls. p. lb.												
Thousands of pounds					Thousands of pounds								Dolls. p. lb.			
1913 monthly av...					\$0.32					4,632	221	12,942				\$0.15
1914 monthly av...					.30					4,623	316	12,076				.16
1915 monthly av...					.30					3,235	5,246	11,442			<sup>10</sup> 28,995	.15
1916 monthly av...					.34					2,376	4,508	16,081				.19
1917 monthly av...	63,293	138,109		54,572	.43				<sup>10</sup> 83,887	528	4,448	16,492	22,079		47,500	.24
1918 monthly av...	66,106	123,796		49,737	.51				41,599	630	4,034	14,573	20,607		34,638	.27
1919 monthly av...	70,833	126,844	38,336	67,229	.61			16,439	53,805	944	1,180	12,684	23,486		41,442	.32
1920 monthly av...	71,965	129,466	33,563	59,754	.61	32,693	31,305	14,056	52,333	1,333	1,358	10,533	21,224		37,559	.29
1921 monthly av...	87,912	143,811	39,013	52,623	.43	31,930	31,709	15,135	43,939	2,239	981	11,135	21,811		30,066	.21
1922 monthly av...	96,126	149,671	43,893	50,959	.41	33,531	33,992	16,653	41,637	3,881	417	11,104	23,567		30,675	.20
1923 monthly av...	103,518	156,398	45,448	47,074	.47	35,852	35,733	18,253	52,431	5,368	694	9,546	25,676		39,579	.25
1924 monthly av...	113,007	164,742	48,957	73,665	.43	39,024	38,957	17,921	66,536	4,931	358	9,732	27,058		49,483	.21
1925 monthly av...	113,461	166,359	47,874	61,665	.45	41,917	40,636	18,630	68,489	5,200	766	10,580	28,937		52,056	.25
1926 monthly av...	120,981	173,954	47,745	67,693	.45	41,290	42,540	17,324	72,685	6,535	325	11,222	27,993		56,964	.23
1927 monthly av...	124,703	174,056	48,538	71,018	.47	40,197	40,925	18,180	66,949	6,650	284	9,211	25,648		50,121	.26
1928 monthly av...	123,921	173,360	48,231	62,039	.47	43,754	41,138	16,385	72,501	6,784	217	9,513	27,938		57,875	.25
1929 monthly av...	124,044	176,044	50,222	81,626	.45	36,406	38,335	14,908	80,080	6,369	220	7,746			64,044	.24
<b>1929</b>																
January.....	95,234	157,457	44,925	24,747	.48	29,219	40,192	13,781	74,016	7,291	244	1,500	16,318		57,764	.25
February.....	92,020	143,208	41,557	11,910	.50	28,761	36,450	13,878	63,968	5,687	194	714	15,978		49,546	.24
March.....	105,171	157,670	46,186	5,532	.48	34,698	34,612	12,261	58,153	5,423	278	726	19,645		45,105	.24
April.....	124,616	170,745	48,707	5,883	.45	39,880	39,886	12,331	54,618	5,553	242	804	25,371		42,032	.24
May.....	162,511	203,760	63,259	28,369	.44	53,616	40,639	16,751	61,097	6,183	204	1,692	35,437		47,641	.23
June.....	179,080	192,045	69,511	91,962	.44	62,806	38,625	18,404	79,724	8,608	209	8,403	43,231		62,737	.23
July.....	172,040	241,232	68,104	151,621	.42	54,484	36,607	20,548	98,070	6,653	285	15,074	37,809		79,907	.23
August.....	141,386	185,708	54,885	168,952	.43	46,327	39,453	18,605	106,009	5,268	138	11,047	30,908		86,558	.23
September.....	114,553	174,193	44,500	158,541	.46	39,429	38,414	15,289	102,849	4,929	284	16,954	25,167		84,815	.24
October.....	109,733	172,923	42,963	138,405	.46	27,665	42,329	14,344	94,879	6,911	195	17,144			78,058	.24
November.....	90,631	153,125	38,228	111,650	.43	22,554	37,112	11,828	86,949	6,902	130	13,925			71,065	.24
December.....	94,350	160,464	39,843	81,935	.41	22,542	35,695	10,880	80,623	7,015	241	4,963			63,478	.23
<b>1930</b>																
January.....	103,949	160,417	43,507	60,230	.37	23,807	40,424	12,525	69,223	5,361	181	1,552			53,672	.21
February.....	96,206	141,901	41,014	46,530	.36	22,293	33,807	12,467	61,891	4,395	198	280			47,818	.21
March.....	108,619	162,969	47,179	30,556	.37	25,282	36,957	12,903	55,343	5,247	171	456			41,922	.21
April.....	126,255	177,990	50,595	22,957	.39	35,380	44,680	13,026	53,025	7,125	199	229			39,324	.21
May.....	175,537	210,504	63,752	50,378	.35	52,617	49,921	15,472	68,127	12,356	158	1,884			49,172	.20
June.....	182,313	199,016	70,529	106,522	.33	57,871	41,486	17,895	90,421	6,097	159	5,560			70,186	.18
July.....				145,297					108,835						88,664	
August.....																
September.....																
October.....																
November.....																
December.....																

<sup>1</sup> Data from U. S. Department of Agriculture, Bureau of Agricultural Economics, representing practically complete factory production. Data on American cheese are reported only every 3 months. Total production figures covering cheese, which include cottage, pot, and bakers' cheese, are shown monthly from 1920 and American cheese production from 1917 in the July, 1926, issue (No. 59), p. 23.

<sup>2</sup> Compiled by U. S. Department of Agriculture, Bureau of Agricultural Economics, representing the disappearance of butter or cheese into trade. These data are computed from production (comprising actual factory data plus allowance for production on farms), imports, and the difference in cold-storage holdings. Monthly data on butter from 1917 appeared in December, 1925, issue (No. 52), p. 21, and on cheese from 1920, in the May, 1926, issue (No. 57), p. 29.

<sup>3</sup> Compiled by U. S. Department of Agriculture, Bureau of Agricultural Economics, covering Boston, New York, Philadelphia, Chicago, and San Francisco, and representing total of weekly figures with first and last weeks of month prorated.

<sup>4</sup> Cold-storage holdings at end of month reported by U. S. Department of Agriculture, Bureau of Agricultural Economics, representing about 98 per cent of stocks held in public and private cold-storage warehouses. Monthly data on total cheese holdings from 1917 appeared in the July, 1926, issue (No. 59), p. 23.

<sup>5</sup> Average of daily wholesale prices of creamery butter, 92 score at New York City, as compiled by U. S. Department of Agriculture, Bureau of Agricultural Economics. Monthly data since January, 1910, were given in the April, 1927, issue (No. 68), p. 23.

<sup>6</sup> Imports and exports for the United States from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, representing all classes of cheese. Monthly data from 1909 appeared in the July, 1926, issue (No. 59), p. 23.

<sup>7</sup> Exports from Canada from Department of Trade and Commerce, Dominion Bureau of Statistics. Yearly figures through 1925 represent monthly averages for the Canadian fiscal year ended March 31 of the year indicated.

<sup>8</sup> American cheese figures are for whole milk cheese only and do not include cheese made from part skim milk, these latter usually totaling from 1 to 2 per cent of the American cheese output.

<sup>9</sup> Average of daily wholesale prices of American cheese, No. 1, fresh, at New York City, as compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics. Monthly data since January, 1910, were given in the April, 1927, issue (No. 68), p. 23.

<sup>10</sup> Five months' average, August to December, inclusive.

Table 77.—SUGAR

YEAR AND MONTH	RAW CANE SUGAR				REFINED SUGAR			WHOLESALE PRICE <sup>2</sup>		RETAIL PRICE <sup>2</sup>		CUBAN MOVEMENT <sup>3</sup> (RAW)		
	Imports <sup>1</sup>		Meltings <sup>4</sup>	Stocks at refineries, end of month <sup>4</sup>	Shipments, 2 ports <sup>5</sup>	Stocks, end of month 2 ports <sup>5</sup>	Exports, including maple	Raw 96° centrifugal N. Y.	Granulated, in bbls. N. Y.	Granulated, N. Y.	Index, 51 cities	Receipts, Cuban ports	Exports	Stocks, end of month
	From Hawaii and Porto Rico	From foreign countries												
	Long tons							Dollars per pound			Rel. to 1913	Long tons		
1909-13 monthly av.	63,336					2,927								
1913 monthly av.	66,890	175,664				1,926	\$0.035	\$0.043	\$0.049	100	134,225	129,447	242,583	
1914 monthly av.	67,984	201,437				14,524	.038	.047	.053	108	125,726	120,972	280,333	
1915 monthly av.	69,756	196,569				35,847	.047	.056	.059	120	210,908	209,971	364,179	
1916 monthly av.	75,683	205,716				58,555	.058	.069	.075	146	246,245	237,004	436,913	
1917 monthly av.	80,581	183,802				37,604	.063	.077	.088	169	201,760	204,422	308,662	
1918 monthly av.	65,951	192,219				15,152	.064	.078	.094	176	272,066	265,707	592,065	
1919 monthly av.	69,322	261,149	326,547	115,706		54,889	.075	.089	.104	205	328,360	323,441	647,341	
1920 monthly av.	70,803	298,686	334,981	106,017		34,381	.130	.126	.182	353	288,281	274,811	410,287	
1921 monthly av.	74,572	222,005	296,130	150,497	41,338	18,063	34,739	.048	.062	.077	146	291,342	233,140	1,047,721
1922 monthly av.	68,436	362,040	429,002	191,101	62,202	12,745	68,330	.047	.059	.066	132	357,892	428,302	617,799
1923 monthly av.	63,575	286,806	345,730	175,770	53,336	30,529	16,552	.070	.084	.094	184	290,609	290,065	395,339
1924 monthly av.	79,142	307,724	378,937	184,473	62,532	27,319	16,387	.060	.075	.084	167	332,554	332,035	455,115
1925 monthly av.	100,257	332,711	426,075	202,648	69,758	22,185	28,226	.043	.055	.064	131	420,238	411,793	713,576
1926 monthly av.	96,486	344,125	431,261	323,541	71,964	36,663	7,953	.043	.055	.061	125	384,321	388,866	816,549
1927 monthly av.	100,101	306,309	406,863	287,659	67,483	39,415	9,324	.047	.058	.065	133	354,868	338,677	818,074
1928 monthly av.	113,390	286,968	393,848	449,738	59,489	30,309	9,121	.042	.056	.063	128	330,850	331,356	773,784
1929 monthly av.	99,395	363,516	398,059	708,887	66,921	44,011	7,658	.038	.051	.059	119	407,672	388,906	827,733
<b>1929</b>														
January	68,900	255,768	332,872	221,334	50,026	28,042	8,243	.038	.050	.061	122	638,996	237,350	457,157
February	101,159	444,157	380,899	381,067	63,773	37,044	9,944	.037	.049	.060	120	959,318	468,615	947,380
March	124,704	601,727	505,286	559,993	73,231	49,451	10,162	.037	.048	.057	118	1,061,472	659,501	1,296,744
April	143,628	605,003	502,980	779,091	87,466	46,341	9,265	.037	.048	.056	116	809,807	583,906	1,509,795
May	134,891	458,183	409,503	911,055	73,898	47,158	8,538	.036	.049	.056	116	440,821	510,217	1,439,050
June	112,546	338,905	450,035	875,942	81,088	50,753	6,341	.035	.049	.056	116	196,995	356,616	1,298,387
July	156,633	359,393	445,904	864,589	93,673	42,889	11,631	.038	.052	.057	116	153,925	428,066	978,543
August	90,922	410,479	504,207	830,508	89,294	47,419	8,579	.038	.054	.060	120	211,090	464,310	739,068
September	120,481	292,699	322,716	873,286	47,447	49,631	5,705	.040	.053	.061	122	120,530	349,972	503,592
October	92,684	256,953	380,758	798,870	60,610	39,375	5,674	.040	.054	.061	122	94,130	241,256	326,927
November	31,962	182,891	305,946	728,484	37,394	43,783	4,454	.038	.050	.061	122	88,875	174,904	254,694
December	14,232	156,031	235,605	682,429	45,152	46,243	3,363	.038	.050	.059	120	116,101	192,160	181,460
<b>1930</b>														
January	77,132	192,123	326,416	616,247	60,224	32,994	5,637	.037	.051	.059	120	192,153	145,189	312,187
February	140,019	166,971	328,181	570,970	42,906	32,746	4,280	.037	.049	.059	118	659,637	179,432	815,389
March	185,704	204,318	410,063	529,067	68,838	42,405	4,487	.036	.049	.055	116	793,762	153,083	1,411,983
April	188,571	272,064	432,111	574,224	72,114	63,357	4,830	.035	.048	.055	115	669,252	335,529	1,754,746
May	123,537	558,190	469,484	744,247	80,822	61,571	7,074	.032	.048	.057	115	401,856	446,188	1,701,274
June	109,929	201,442	371,714	622,945	69,423	47,827	4,742	.032	.045	.055	111	164,444	236,592	1,631,332
July								.032	.046	.054	111			
August														
September														
October														
November														
December														

<sup>1</sup> Imports of raw cane sugar and exports of refined from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Imports from foreign countries are mostly from Cuba and Central America, while sugar from the Philippine Islands is also included in the imports from foreign countries, not in the data from noncontiguous territories, including Hawaii and Porto Rico. The original data in pounds have been converted into long tons for comparison with the other data.

<sup>2</sup> Wholesale price of raw sugar, duty paid, wholesale and retail prices of granulated sugar in New York, and retail price index for 51 cities from U. S. Department of Labor, Bureau of Labor Statistics, representing averages of weekly prices, except retail prices which are as of the 15th of the month.

<sup>3</sup> Statistics of receipts at Cuban ports, exports from Cuba, and stocks at Cuban ports from Statistical Sugar Trade Journal. Monthly data from 1920 appeared in the June, 1922, issue of the SURVEY (No. 10), p. 49.

<sup>4</sup> Meltings of raw sugar by refiners compiled by the Statistical Sugar Trade Journal represent operations at the eight ports of Boston, New York, Philadelphia, Baltimore, Savannah, New Orleans, Galveston, and San Francisco, the Baltimore figures being added in 1921 upon completion of refinery in that city. The figures from the four North Atlantic ports are actual monthly totals, those for San Francisco, Savannah, and Galveston are prorated from weekly totals; while the New Orleans figures are prorated from partly estimated figures. Stocks represent the amount of raw sugar in the hands of refiners and of certain importers (the bulk of stocks being in refiners' hands) at the end of each month for the four North Atlantic ports and on the Saturday nearest to the end of each month for the other ports, the total being considered as of last day of month. Details of meltings and stocks, by ports, are given in the Statistical Sugar Trade Journal; also classification as between importers' and refiners' stocks.

<sup>5</sup> Compiled by the Federal Reserve Bank of Atlanta from reports of refiners at Savannah and New Orleans. Monthly data from 1921 appeared in the February, 1928, issue (No. 78), p. 23.

<sup>6</sup> Average for 9 months, April to December, inclusive.

Table 78.—COFFEE, TEA, COCOA, AND FISH

YEAR AND MONTH	COFFEE <sup>1</sup>							TEA		COCOA			FISH			
	Visible supply, end of month		Re-ceipts in Brazil	Clearances from Brazil		Im-ports into U. S. <sup>2</sup>	Price, Rio No. 7, Brazil grades New York <sup>3</sup>	Im-ports into U. S. <sup>2</sup>	Price, Formosa, fine, N. Y. <sup>3</sup>	Im-ports <sup>4</sup>	Ship-ments from Gold Coast and Nigeria <sup>4</sup>	Spot price, Accra, New York <sup>4</sup>	Total catch, principal fishing ports <sup>5</sup>	Cold-storage hold-ings (15th of mo.) <sup>5</sup>	Canned salmon	
	World total	United States		Total	To U. S.										Ship-ments U. S. <sup>7</sup>	Exports Canada <sup>8</sup>
	Thousands of bags						Dolls. per lb.	Thous. of lbs.	Dolls. per lb.	Long tons	Dolls. per lb.	Thous. of lbs.	Cases			
1909-13 m. a.						573	\$0. 113	8, 241	\$0. 242	5, 063						
1913 mo. av.	11, 819	1, 835	1, 138	1, 097	411	538	. 107	7, 418	. 249	5, 795		9 11, 164				36, 604
1914 mo. av.	11, 370	1, 576	936	928	461	638	. 080	8, 151	. 248	6, 601		9 11, 798				106, 083
1915 mo. av.	9, 468	1, 727	1, 431	1, 395	589	776	. 075	8, 842	. 240	8, 576		9 12, 256				60, 167
1916 mo. av.	9, 280	2, 016	1, 186	1, 078	552	737	. 094	8, 731	. 240	9, 026		16, 073	12 41, 747			85, 313
1917 mo. av.	10 10, 671	2, 611	1, 054	864	526	812	. 091	10, 566	. 316	14, 511		15, 513	36, 912			83, 875
1918 mo. av.		1, 851	994	607	373	664	. 098	11, 202	. 358	13, 391		18, 393	62, 533			76, 000
1919 mo. av.	11 7, 318	1, 213	733	1, 051	525	842	. 178	6, 747	. 353	14, 561		17, 667	62, 133			82, 833
1920 mo. av.	7, 941	1, 695	910	944	521	819	. 120	7, 521	. 337	12, 785		16, 195	45, 480			106, 813
1921 mo. av.	8, 913	1, 686	1, 138	1, 003	513	847	. 072	6, 374	. 240	11, 340		14, 196	44, 816			53, 396
1922 mo. av.	8, 730	1, 086	966	1, 035	499	787	. 103	8, 092	. 303	12, 831		14, 884	35, 321	467, 086		75, 729
1923 mo. av.	5, 863	903	992	1, 175	625	890	. 115	8, 762	. 310	15, 411	\$0. 0742	16, 318	36, 203	471, 438		55, 896
1924 mo. av.	4, 857	726	1, 280	1, 158	583	897	. 168	7, 731	. 316	14, 073	21, 286	. 0751	17, 005	45, 041	541, 804	93, 875
1925 mo. av.	5, 146	736	1, 070	1, 118	586	810	. 203	8, 414	. 350	14, 212	21, 126	. 0968	19, 951	44, 084	527, 109	134, 938
1926 mo. av.	4, 619	779	1, 143	1, 130	625	943	. 182	7, 994	. 355	15, 859	21, 958	. 1156	22, 055	46, 882	524, 806	103, 749
1927 mo. av.	4, 597	759	1, 307	1, 245	665	905	. 148	7, 431	. 342	15, 811	20, 348	. 1595	24, 056	48, 957	513, 307	95, 353
1928 mo. av.	5, 250	799	1, 177	1, 133	608	920	. 165	7, 485	. 321	14, 108	22, 498	. 1291	24, 718	53, 925	474, 162	111, 701
1929 mo. av.	5, 165	724	1, 217	1, 164	595	936	. 158	7, 448	. 318	18, 883	23, 993	. 1043	31, 102	55, 768	456, 825	105, 044
<b>1929</b>																
May	5, 335	683	1, 079	971	503	860	. 171	4, 769	. 330	15, 394	12, 464	. 1031	28, 631	30, 174	186, 202	90, 775
June	5, 352	700	1, 069	1, 020	488	817	. 168	6, 029	. 325	14, 486	9, 889	. 1069	31, 728	40, 148	217, 781	42, 794
July	5, 448	760	1, 056	1, 267	634	864	. 163	6, 734	. 310	18, 862	7, 224	. 1069	43, 185	51, 664	367, 842	38, 983
August	5, 269	685	1, 191	1, 242	655	875	. 161	7, 019	. 310	15, 922	5, 238	. 1081	43, 903	64, 723	830, 404	53, 100
September	5, 227	689	1, 266	1, 234	642	925	. 158	8, 737	. 310	10, 481	4, 459	. 1100	50, 270	72, 198	937, 041	118, 250
October	5, 043	686	1, 365	1, 324	682	1, 004	. 139	10, 555	. 310	16, 147	18, 491	. 1063	33, 243	75, 323	584, 590	162, 831
November	4, 979	598	1, 446	1, 214	573	822	. 116	9, 087	. 310	14, 270	40, 483	. 0920	27, 332	78, 968	378, 695	177, 252
December	5, 079	693	1, 553	1, 199	587	955	. 099	8, 680	. 304	22, 824	36, 748	. 0931	18, 074	75, 847	553, 078	159, 488
<b>1930</b>																
January	5, 119	671	1, 455	1, 470	881	1, 036	. 103	6, 537	. 300	25, 176	43, 838	. 0938	23, 918	62, 428	505, 831	71, 285
February	5, 322	852	1, 469	1, 427	722	1, 229	. 105	5, 602	. 300	15, 082	29, 551	. 0925	27, 583	49, 797	371, 960	91, 823
March	5, 264	875	1, 264	1, 169	590	1, 134	. 103	6, 355	. 300	11, 595	25, 543	. 0875	33, 166	35, 536	371, 070	85, 427
April	5, 264	851	1, 152	1, 152	548	1, 065	. 099	5, 796	. 300	12, 164	13, 951	. 0869	36, 799	25, 186	197, 482	29, 183
May	5, 449	790	1, 247	1, 027	530	915	. 092	4, 712	. 300	10, 721	16, 124	. 0850	34, 091	33, 605	246, 827	34, 285
June	5, 572	867	1, 031	922	441	1, 010	. 093	6, 555	. 300	15, 121	14, 694	. 0825	32, 886	47, 498	357, 729	22, 494
July	5, 378	861	1, 391	1, 025	539		. 076		. 292			. 0869		64, 847		
August																
September																
October																
November																
December																

<sup>1</sup> Data on coffee, except imports and prices, from the *New York Coffee and Sugar Exchange, Inc.* Brazilian figures cover the ports of Rio, Santos, Bahia, Victoria, Pernambuco, and Paranaguá, Victoria being added in 1925 and Pernambuco and Paranaguá at the end of 1927, these two ports being of small importance in coffee movement prior to those dates. The world visible supply consists of stocks in Europe, United States, Brazil, and afloat, all of which are shown separately in the Exchange's monthly report. Monthly data from 1913 appeared in the April, 1928, issue (No. 80), p. 23, the addition of Pernambuco figures since publication of that issue making slight revision beginning with July, 1927.

<sup>2</sup> Imports of coffee, tea, and cocoa from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Imports of coffee have been reduced to bags from original data in pounds, taking 132 pounds to the bag.

<sup>3</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, representing averages of weekly prices in the New York wholesale markets, except that prior to 1918 the prices are averages of quotations on the first day of the month.

<sup>4</sup> Shipments of cocoa compiled by the *New York Cocoa Exchange*. Shipments represent the amount of raw cocoa shipped from the Gold Coast and Nigeria, Africa. Spot price compiled by *George C. Lee Co.*, New York, and represents the average monthly spot price of Accra cocoa in New York.

<sup>5</sup> Cold-storage holdings of fish at principal warehouses, compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, and are given as the 15th of each month. Monthly data from 1916 appeared in the July, 1928, issue (No. 83), p. 19.

<sup>6</sup> Fish catch, representing landings of fresh fish from vessels at Boston and Gloucester, Mass., Portland, Me., and Seattle, Wash., compiled by U. S. Department of Commerce, Bureau of Fisheries. Details by ports are given in monthly statements.

<sup>7</sup> Shipments of canned salmon from Puget Sound, Astoria, Portland, Ore. (except small rail shipments), San Francisco, and in bond through Prince Rupert, B. C. representing practically complete pack of United States, including Alaska, reported by *Pacific Canned Fish Brokers' Association*, in cases of 48 one-pound cans to case.

<sup>8</sup> Canadian exports of canned salmon from Department of Trade and Commerce, Dominion Bureau of Statistics. Yearly figures represent monthly averages for the Canadian fiscal year ending Mar. 31 of the year indicated.

<sup>9</sup> Excluding Portland and Seattle.

<sup>10</sup> 7 month's average, January to July, inclusive.

<sup>11</sup> 8 month's average, July to December, inclusive.

<sup>12</sup> 9 month's average, October to December, inclusive.



Table 79.—TOBACCO

YEAR AND MONTH	UNMANUFACTURED						MANUFACTURED PRODUCTS				
	Production (crop estimate) <sup>1</sup>	Sales, loose-leaf warehouses <sup>2</sup>	Exports, leaf <sup>3</sup>	Stocks <sup>4</sup> (quarterly)			Consumption <sup>5</sup> (tax-paid withdrawals)			Exports <sup>3</sup>	
				Chewing, smoking, snuff, and export types	Cigar types	Total, including imported types	Manufactured tobacco and snuff	Large cigars	Small cigarettes		
	Thousands of pounds						Thous. of pounds	Thousands			
1909-1913 monthly average.....	996, 176		31, 417								
1913 monthly average.....	953, 734		37, 031	810, 469	369, 802	1, 234, 014	36, 990	630, 959	1, 296, 308	193, 233	
1914 monthly average.....	1, 034, 679		28, 941	835, 462	344, 971	1, 224, 524	36, 745	597, 849	1, 404, 636	200, 602	
1915 monthly average.....	1, 062, 237		36, 139	915, 452	361, 114	1, 343, 396	36, 863	549, 932	1, 497, 029	173, 015	
1916 monthly average.....	1, 153, 278		40, 330	821, 564	286, 007	1, 165, 332	38, 847	586, 844	2, 107, 525	354, 889	
1917 monthly average.....	1, 249, 276		20, 989	923, 240	275, 770	1, 250, 801	40, 248	629, 991	2, 944, 272	584, 977	
1918 monthly average.....	1, 439, 071		33, 902	975, 427	291, 214	1, 337, 747	41, 423	587, 796	3, 888, 075	1, 012, 128	
1919 monthly average.....	1, 465, 481	82, 149	64, 723	1, 030, 642	303, 343	1, 402, 525	35, 339	589, 363	4, 426, 649	1, 350, 981	
1920 monthly average.....	1, 582, 225	65, 280	39, 992	1, 026, 109	327, 185	1, 440, 507	33, 324	661, 418	3, 720, 072	1, 319, 489	
1921 monthly average.....	1, 069, 693	74, 254	43, 563	1, 227, 487	344, 617	1, 650, 022	32, 208	563, 219	4, 240, 181	711, 973	
1922 monthly average.....	1, 246, 837	41, 601	36, 821	1, 121, 075	386, 091	1, 587, 422	35, 019	574, 384	4, 463, 752	955, 848	
1923 monthly average.....	1, 515, 110	42, 028	41, 446	1, 207, 714	404, 584	1, 689, 639	34, 342	583, 241	5, 370, 890	1, 021, 044	
1924 monthly average.....	1, 251, 343	40, 344	47, 950	1, 329, 960	410, 435	1, 814, 686	34, 416	554, 867	5, 917, 368	874, 657	
1925 monthly average.....	1, 374, 400	52, 398	39, 791	1, 383, 519	398, 243	1, 864, 016	34, 186	541, 729	6, 663, 134	678, 803	
1926 monthly average.....	1, 361, 211	65, 118	40, 588	1, 408, 152	400, 273	1, 879, 602	34, 173	549, 077	7, 453, 926	794, 945	
1927 monthly average.....	1, 211, 909	80, 354	42, 656	1, 459, 451	357, 550	1, 913, 912	32, 840	547, 615	8, 098, 050	591, 087	
1928 monthly average.....	1, 374, 457	68, 164	48, 654	1, 357, 539	329, 467	1, 790, 776	32, 009	537, 806	8, 826, 330	975, 509	
1929 monthly average.....	1, 519, 081	74, 381	47, 333	1, 321, 423	335, 457	1, 749, 781	31, 480	545, 974	9, 919, 904	704, 617	
<b>1929</b>											
May.....		441	32, 730				33, 360	572, 413	11, 168, 407	703, 045	
June.....		48	28, 588	1, 241, 284	346, 595	1, 683, 732	32, 353	556, 746	10, 839, 673	784, 160	
July.....	1, 492, 508	5, 887	26, 266				32, 694	589, 282	10, 724, 403	504, 565	
August.....	1, 519, 383	76, 238	41, 343				34, 470	598, 583	10, 930, 629	659, 187	
September.....	1, 462, 321	133, 771	55, 965	1, 214, 166	313, 147	1, 611, 938	32, 260	591, 738	10, 350, 544	558, 249	
October.....	1, 472, 525	166, 456	79, 150				33, 738	701, 711	11, 202, 294	586, 767	
November.....	1, 480, 965	151, 945	72, 609				28, 342	622, 938	9, 041, 043	433, 294	
December.....	1, 519, 081	73, 484	66, 504	1, 373, 859	292, 645	1, 754, 451	24, 682	410, 863	8, 261, 357	683, 757	
<b>1930</b>											
January.....		60, 907	46, 885				33, 014	418, 900	10, 208, 232	465, 464	
February.....		23, 079	57, 037				30, 308	426, 522	8, 465, 005	430, 886	
March.....			54, 887	1, 508, 876	358, 224	1, 965, 246	31, 458	454, 766	9, 165, 175	497, 814	
April.....			43, 364				31, 261	469, 969	9, 535, 460	366, 674	
May.....			28, 823				32, 579	523, 775	10, 300, 768	446, 231	
June.....			30, 351	1, 295, 988	343, 392	1, 731, 962	30, 939	519, 599	11, 750, 525	566, 015	
July.....	1, 597, 670										
August.....	1, 474, 758										
September.....											
October.....											
November.....											
December.....											

<sup>1</sup> Estimate of production of the tobacco crop from the U. S. Department of Agriculture, Bureau of Agricultural Economics. The annual figures represent the latest revised estimates of the year's total crop, not monthly averages, while the monthly figures represent the current estimate of the total up to 1929 and by the U. S. Department of Agriculture, Bureau of Agricultural Economics, from then on crop for the year made the first week of each month. Revisions of the December estimate for each year are made in December of the following year.

<sup>2</sup> Sales of tobacco from loose-leaf warehouses compiled by the Federal Reserve Board, Division of Research and Statistics up to 1929 and by the U. S. Department of Agriculture, Bureau of Agricultural Economics from then on, from reports of State authorities of Kentucky, North Carolina, South Carolina, and Virginia, which States grow about 75 per cent of the total tobacco crop. Sales from Kentucky were not available for the first six months of 1919, so that the year's figure is partly estimated by estimating the Kentucky figures for the first half year as equal to the sum of the sales in the other reporting States, which is approximately the normal proportion of Kentucky sales to the total.

<sup>3</sup> Exports from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>4</sup> Stocks of leaf tobacco held by manufacturers and dealers compiled by the U. S. Department of Commerce, Bureau of the Census, up to 1929 and by the U. S. Department of Agriculture, Bureau of Agricultural Economics from then on. During the years 1913, 1914, 1915, and 1916 the data were collected semiannually in March and September, the quarterly collection commencing with December, 1916. Therefore the average for the years 1913 through 1915 are semiannual, while for 1916 three quarters are averaged, and thereafter four quarters.

<sup>5</sup> Figures of consumption of tobacco products from U. S. Treasury Department, Bureau of Internal Revenue, represent withdrawals from bonded warehouses upon payment of tax for domestic consumption. The figures for manufactured tobacco and snuff comprise plug, twist, fine-cut, and smoking tobacco and snuff. Figures for cigars are those for large cigars, weighing over 3 pounds per thousand, while for cigarettes, small cigarettes are taken, weighing 3 pounds per thousand or less; in both cases the series taken represent over 90 per cent of the totals for each class.

Table 80.—OCEAN TRANSPORTATION

YEAR AND MONTH	SHIP CLEARANCES <sup>1</sup>			VESSEL LOSSES <sup>2</sup> (quarterly)		SHIP CONSTRUCTION							FREIGHT RATES	IMMIGRATION AND EMIGRATION				
	Vessels in foreign trade			Lost	Abandoned	Completed during month <sup>3</sup>		Under construction <sup>3</sup>	World (quarterly) <sup>4</sup>			Charter rates world routes <sup>(?)</sup>		Aliens <sup>5</sup>		United States citizens <sup>4</sup>		Passports issued <sup>6</sup>
	American	Foreign	Total			Total	Steel-seagoing		Merchant vessels	Launched	Under construction, end of month			Immigrants	Emigrants	Arrivals	Departures	
	Thousands of net tons <sup>7</sup>			Gross tons <sup>8</sup>				Thous. of gross tons <sup>8</sup>	No. of ships	Thous. of gross tons <sup>8</sup>	No. of ships	Thous. of gross tons <sup>8</sup>		Rel. to 1911-13 av.	Number of people			
1913 mo. av.	1,250	3,333	4,483	31,075	10,895	28,846	438	833	100	115,610	22,859	24,600	30,069	1,954				
1914 mo. av.	1,000	3,017	4,017	38,378	13,495	26,354	330	713	114	57,375	24,470	23,238	24,580	1,693				
1915 mo. av.	1,340	2,826	4,166	44,398	19,772	23,836	186	300	108	21,557	13,387	10,161	8,954	1,093				
1916 mo. av.	1,537	2,895	4,433	32,960	13,512	46,225	241	422	106	29,647	5,810	11,208	10,321	1,927				
1917 mo. av.	1,666	2,467	4,133	66,781	11,452	86,192	278	735	99	12,747	5,638	8,187	14,161	3,135				
1918 mo. av.	1,563	2,184	3,748	101,430	9,596	226,773	467	1,362	102	9,660	6,718	6,564	27,909	4,735				
1919 mo. av.	2,083	2,189	4,271	42,411	6,910	354,845	621	1,786	384	20,613	21,810	10,839	12,247	8,163				
1920 mo. av.	2,836	2,816	5,653	62,099	8,556	238,394	1,188	440	272	59,047	21,810	17,038	21,102	13,374				
1921 mo. av.	2,507	2,704	5,211	48,291	15,272	115,569	546	344	160	46,992	20,498	19,272	23,340	11,474				
1922 mo. av.	2,639	2,756	5,395	28,842	34,173	28,246	231	213	114	31,764	9,664	24,296	24,209	11,463				
1923 mo. av.	2,329	3,228	5,556	31,216	171,683	24,099	197	163	108	62,587	5,884	23,020	21,728	10,521				
1924 mo. av.	2,503	3,232	5,735	31,772	168,445	17,507	173	218	106	29,564	7,510	26,839	25,137	12,198				
1925 mo. av.	2,329	3,525	5,854	21,527	35,845	17,595	186	201	99	24,227	6,807	30,550	28,569	14,342				
1926 mo. av.	2,378	4,209	6,587	23,051	86,228	19,006	259	140	102	28,025	6,098	31,515	30,645	14,669				
1927 mo. av.	2,483	3,804	6,287	25,862	80,183	29,946	241	182	107	26,990	5,844	34,374	33,832	15,203				
1928 mo. av.	2,650	3,994	6,644	27,686	47,566	13,661	8,188	224	97	24,191	6,467	30,883	37,664	15,775				
1929 mo. av.	2,659	4,216	6,875	23,404	96,655	17,399	9,833	250	97	22,412	4,431	39,170	37,722	16,411				
<b>1929</b>																		
January	1,950	3,534	5,484			7,413	3,392	126		17,806	4,670	23,450	28,808	9,513				
February	1,909	3,399	5,308			3,323	1,335	168		17,254	4,154	33,216	32,347	8,888				
March	2,145	3,788	5,933	19,809	48,074	11,128	3,919	187	182	20,145	2,449	37,375	27,972	17,066				
April	2,738	3,924	6,661			20,668	9,468	290		28,565	3,387	32,288	25,277	29,995				
May	2,851	4,425	7,277			9,775	3,804	268		25,711	4,985	27,169	31,505	38,715				
June	2,985	4,679	7,664	28,188	115,498	37,616	14,379	170	272	22,490	4,881	28,119	42,846	29,508				
July	3,176	4,923	8,099			21,585	15,708	160		20,068	5,086	37,636	56,339	18,115				
August	3,219	5,208	8,428			32,298	21,497	215		22,778	5,571	70,783	70,551	11,295				
September	2,833	4,726	7,559	15,589	186,462	28,325	24,322	254	237	28,020	5,150	85,946	49,429	9,135				
October	3,041	4,463	7,503			8,620	2,167	400		26,740	4,907	47,757	39,767	8,485				
November	2,982	3,989	6,971			14,347	7,369	384		21,522	3,053	25,127	20,413	8,895				
December	2,078	3,529	5,607	30,030	36,587	13,692	10,633	372	291	17,842	4,880	21,177	27,404	7,323				
<b>1930</b>																		
January	2,023	3,670	5,693			23,779	21,493	376		14,767	3,947	23,985	31,991	8,485				
February	1,977	3,391	5,368			14,241	12,217	341		13,585	3,180	34,234	33,796	9,899				
March	2,116	3,718	5,834			23,840	13,088	327	356	19,759	2,900	40,727	37,930	18,802				
April	2,966	3,738	6,703			16,930	4,166	366		22,261	3,947	32,115	26,707	33,148				
May	3,112	4,412	7,525			45,570	26,248	488		19,414	3,720	25,487	27,593	43,227				
June	2,822	4,687	7,509			20,806	17,395	487		14,944	4,320	32,284	40,103	32,405				
July														15,740				
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Tonnage of vessels cleared in foreign trade from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>2</sup> Vessels lost and abandoned, representing all classes of American vessels, from U. S. Department of Commerce, Bureau of Navigation, given for quarter ending in month stated, yearly figures representing quarterly averages. Scrapped vessels are included under abandoned vessels.

<sup>3</sup> From the U. S. Department of Commerce, Bureau of Navigation. The total completed includes ocean-going, lake, and river vessels built and officially numbered, including vessels of the U. S. Shipping Board and private American owners, but not vessels built for foreign owners. The column on merchant vessels under construction includes all kinds of ships except Government vessels building or under construction at the end of the month. Monthly data from 1915 given in the January, 1924, issue of the SURVEY (No. 29), p. 49.

<sup>4</sup> Quarterly data on world ship construction compiled by Lloyds', covering all vessels of 100 tons and over; from 1914 to 1921 figures for Germany are not included.

<sup>5</sup> Compiled by U. S. Department of Labor, Bureau of Immigration. Aliens admitted and departed include legal immigration and emigration but not nonimmigrants.

<sup>6</sup> Compiled by U. S. Department of State, Division of Passport Control and excludes passports issued to Government officials.

<sup>7</sup> Compiled by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, covering six tramp-ship commodities over 12 world-wide trade routes.

<sup>8</sup> Net ton represents 100 cubic feet internal carrying capacity after prescribed allowance for crew and engine space, while gross ton represents in units of 100 cubic feet the entire cubical capacity of the vessel, including crew and engine space.

Table 81.—RIVER AND CANAL CARGO TRAFFIC

YEAR AND MONTH	CANALS										RIVERS									
	Panama <sup>1</sup>			Sault Ste. Marie <sup>2</sup>	New York State <sup>(3)</sup>	Cape Cod <sup>4</sup>	Suez <sup>5</sup>	Wetland <sup>6</sup>	St. Lawrence <sup>6</sup>	Mississippi (Govt.-owned barges) <sup>(7)</sup>	Monongahela <sup>8</sup>	Allegheny <sup>9</sup>	Ohio (Pittsburgh to Wheeling) <sup>8</sup>	Ohio by districts <sup>10</sup> (quarterly)						
	Total	In American vessels	In British vessels											Total	Pittsburgh	Huntington	Cincinnati	Louisville		
	Thousands of long tons			Thousands of short tons		Short tons	Thous. of met. tons	Short tons					Thousands of short tons							
1913 mo. av.---				9,965	372															
1914 mo. av.---				6,921	297															
1915 mo. av.---	407	182	183	8,911	265															
1916 mo. av.---	258	71	131	11,486	232	134,107														
1917 mo. av.---	588	123	283	11,227	185	99,411														
1918 mo. av.---	628	175	218	10,710	166	153,140														
1919 mo. av.---	576	230	156	8,529	177	216,402	1,164			8,731										
1920 mo. av.---	781	379	236	9,910	203	158,600	1,421	370,105	388,429	13,392										
1921 mo. av.---	962	432	310	6,032	208	114,406	1,459	422,208	518,795	36,939										
1922 mo. av.---	1,143	546	338	8,259	264	103,226	1,780	464,809	597,653	49,841	1,144,652	247,189	298,766							
1923 mo. av.---	2,096	1,327	447	11,203	312	115,788	1,898	531,260	641,944	59,203	1,787,388	270,053	538,380							
1924 mo. av.---	2,158	1,222	529	9,140	254	70,242	2,122	682,534	759,067	70,792	1,733,135	252,667	523,497							
1925 mo. av.---	1,975	1,056	498	10,234	335	50,733	2,215	805,757	886,713	75,896	1,840,193	292,871	588,130	3,844	1,912	1,116	134	772		
1926 mo. av.---	2,299	1,238	553	10,710	339	65,110	2,117	744,931	874,814	87,054	2,039,110	209,100	776,813	4,939	2,476	1,265	138	1,060		
1927 mo. av.---	2,425	1,279	565	10,419	369	68,762	2,467	1,035,351	1,130,422	111,381	2,041,081	246,308	801,845	4,962	2,397	1,322	150	1,094		
1928 mo. av.---	2,450	1,130	683	10,874	448	117,149	2,719	1,062,802	1,201,649	119,630	2,174,763	239,458	847,918	4,989	2,505	1,314	137	1,033		
1929 mo. av.---	2,621	1,237	689	11,577	411	180,455	2,878	681,409	816,950	107,647	2,354,872	266,314	993,900							
<b>1929</b>																				
May.....	2,537	1,206	667	13,930	393	201,444	3,093	775,786	910,810	123,851	2,450,876	328,289	1,070,125							
June.....	2,424	1,186	591	14,076	387	161,143	2,590	760,431	927,933	103,934	2,460,644	345,995	1,056,795	6,420	3,070	1,348	133	1,869		
July.....	2,598	1,335	583	14,120	444	175,179	2,745	628,041	783,484	94,141	2,396,993	396,514	1,088,912							
August.....	2,681	1,311	639	14,085	380	206,188	2,762	612,943	809,323	85,000	2,500,617	330,123	1,080,996							
September.....	2,433	1,194	600	13,556	389	199,955	2,772	574,241	775,772	90,947	2,374,949	364,309	1,144,682	6,579	3,287	1,862	179	1,251		
October.....	2,846	1,344	774	11,213	491	243,668	2,997	623,651	749,287	137,021	2,464,099	366,351	1,151,819							
November.....	2,535	1,271	579	6,952	333	196,259	2,726	448,150	523,328	103,478	2,367,506	317,967	1,034,382							
December.....	2,525	1,219	718	479	None.	189,811	2,919	47,603	23,942	72,804	2,173,207	156,993	757,527							
<b>1930</b>																				
January.....	2,612	1,198	589	None.	None.	186,172	2,744	None.	None.	75,739	2,134,161	93,825	578,224							
February.....	2,378	1,058	727	None.	None.	162,509	2,474	None.	None.	75,157	2,179,305	61,420	709,242							
March.....	2,558	1,272	611	None.	None.	151,515	2,634	None.	None.	71,087	2,363,728	174,445	838,991							
April.....	2,457	1,120	685	410		184,002	2,475	141,679	110,804	101,122	2,112,586	335,262	879,401							
May.....	2,262	1,116	511	11,320		214,302	2,542	805,262	841,348	124,924	2,265,032	310,711	1,002,040							
June.....	2,147	1,062	556	12,650		208,467	2,111	756,563	874,612	139,700	2,151,936	307,823	1,015,299							
July.....				12,367																
August.....																				
September.....																				
October.....																				
November.....																				
December.....																				

<sup>1</sup> Panama Canal traffic, reported by the *Panama Canal*, represents cargo carried by commercial vessels. Figures prior to 1922 refer to fiscal years ending June 30.

<sup>2</sup> Traffic through the Sault Ste. Marie canals, including both the American and Canadian canals, reported by *U. S. War Department, Engineer Corps*. Monthly averages for each year are for eight months during which the canals are usually open—that is, the yearly totals are divided by eight in order to present a figure fairly comparable with current monthly movements. Monthly data by classes of commodities, covering the years 1913-1922, appeared in March, 1923, issue (No. 19), pp. 48 and 49.

<sup>3</sup> Traffic through New York State canals from *New York State Superintendent of Public Works*. About two-thirds of this traffic goes through the Erie Canal and one-third through the Champlain Canal. Monthly averages for each year are for the seven months during which the canals are usually open.

<sup>4</sup> Compiled by the *Boston, Cape Cod & New York Canal Co.* through March, 1923, when the Federal Government took over the canal. Thereafter figures are from the *U. S. War Department, Engineer Corps*. The average for 1916 is on a ship of nine months of operation. Monthly data from 1920 on ship tonnage (not comparable with present figures) appeared in the September, 1923, issue (No. 25), pp. 55 and 56.

<sup>5</sup> Suez Canal traffic from *Le Canal de Suez*.

<sup>6</sup> Data from the *Dominion Bureau of Statistics, Canadian Department of Trade and Commerce*. Monthly averages for each year are for seven months during the equivalent of which period the canals are usually open—that is, totals for the years are divided by 7 in order to present a figure fairly comparable with current monthly movements.

<sup>7</sup> Cargo tonnage on Government-owned barge line on Mississippi River between St. Louis and New Orleans from *U. S. War Department, Mississippi-Warrior Service*. Receipts and shipments of cargo by river at St. Louis, now discontinued, appeared in August, 1925, issue (No. 48). Monthly data from 1920, including Government barge-line traffic, appeared in July, 1922, issue (No. 11), p. 45.

<sup>8</sup> Compiled by the *U. S. War Department, Engineer Corps*, representing total cargo traffic on the Ohio River between Pittsburgh and Lock and Dam 11, located between Wellsburg and Wheeling, W. Va. The total of 3,585,188 short tons shown for the months of 1922, from which the average is computed, does not include the annual total of 1,327,199 short tons not shown separately by months, the total movement for 1922 being 4,912,387. Data are available from 1910 to 1914 for traffic between Pittsburgh and Lock No. 6 (near Beaver, Pa.), and from 1915 to 1921 between Pittsburgh and Lock No. 10 (near Steubenville, Ohio). Traffic between Pittsburgh and Lock 10 amounted to 4,733,620 short tons in 1920 and 2,840,978 in 1921.

<sup>9</sup> Compiled by the *U. S. War Department, Engineer Corps*, representing total cargo traffic on the Monongahela and Allegheny Rivers above Pittsburgh. This traffic consists mostly of coal. Monthly data from 1922 appeared in the November, 1926, issue (No. 63), p. 26.

<sup>10</sup> Compiled by the *U. S. War Department, Engineer Corps*, representing tonnage of cargo traffic on the Ohio River. Each district includes only the traffic originating in that district either on the Ohio River or on one of its tributaries, so that the total contains no duplications. Figures for 1925 and 1926 are quarterly averages, figures being reported quarterly, beginning with the third quarter of 1926. Prior to that time data were made available semiannually, the distribution as between the first two quarters of 1926 being partly estimated. The annual figures are quarterly averages.

Table 82.—RAILWAY, PULLMAN, AND EXPRESS OPERATIONS

YEAR AND MONTH	REVENUES				TOTAL OPERATING EXP. <sup>1</sup>	NET OPERATING INC. <sup>2</sup>	NET OPERATING REV. <sup>3</sup>	OPERATING RESULTS <sup>4</sup>				PULLMAN CO. <sup>5</sup>		VISITORS TO NAT. PARKS <sup>6</sup>		EXPRESS EARNINGS <sup>7</sup>		
	United States <sup>1</sup>			Canada <sup>3</sup>				United States		Canada	Freight carried 1 mile		Receipts per ton-mile	Passengers carried 1 mile	Total revenue	Passengers carried	Persons	Automobiles
	Total operating	Freight	Passenger	Total operating				United States	Canada									
	Thousands of dollars							Millions of tons		Cents	Millions	Thous. of dolls.	Thousands	Number	No. of cars	Thousands of dollars		
1913 m. a.	\$255,139	\$176,916	\$57,548	-----	\$181,732	\$59,900	\$6,224	-----	1,919	0.719	2,823	\$3,445	2,072	-----	-----	-----	-----	
1914 m. a.	241,608	165,943	54,230	-----	173,916	53,451	5,342	-----	1,839	.723	2,881	3,284	2,182	-----	-----	-----	-----	
1915 m. a.	256,630	178,804	53,798	-----	171,926	70,002	4,343	-----	1,472	.722	3,649	3,483	2,021	-----	-----	-----	-----	
1916 m. a.	302,104	214,784	58,980	-----	198,031	87,265	6,915	-----	2,350	.707	2,882	3,684	2,326	-----	-----	-----	-----	
1917 m. a.	337,539	236,177	68,985	-----	238,184	81,232	7,323	34,939	2,599	.715	3,290	4,311	2,691	-----	-----	-----	-----	
1918 m. a.	410,549	288,183	86,056	-----	334,767	57,759	4,689	36,410	2,586	.849	3,556	4,164	2,397	-----	-----	-----	-----	
1919 m. a.	432,005	296,410	98,334	-----	368,287	43,034	2,651	33,034	2,246	.973	3,863	5,756	3,112	-----	-----	\$12,613	\$2,092	
1920 m. a.	518,785	360,304	107,285	-----	485,861	4,846	420	37,445	2,605	1.052	3,904	6,012	3,271	68,887	7,230	16,306	3,615	
1921 m. a.	464,429	327,328	96,172	-----	383,651	51,329	3,034	28,731	2,199	1.275	3,111	5,370	2,600	74,966	9,548	15,640	260	
1922 m. a.	468,291	334,076	89,686	-----	371,397	64,748	3,896	31,320	2,202	1.182	2,877	5,465	2,646	81,812	10,025	13,006	116	
1923 m. a.	529,118	385,465	95,638	\$37,199	412,081	81,911	4,138	38,133	2,602	1.115	3,167	6,048	2,854	113,062	12,452	13,441	105	
1924 m. a.	498,963	362,412	89,724	39,844	379,970	82,229	5,829	35,803	2,862	1.115	3,010	6,063	2,841	132,874	16,002	12,909	91	
1925 m. a.	515,728	379,424	87,994	35,967	382,035	94,846	5,280	38,010	2,454	1.097	2,996	6,683	2,961	138,910	16,766	12,829	101	
1926 m. a.	538,619	401,610	86,993	38,315	393,940	102,698	7,583	40,725	2,715	1.082	2,958	6,820	3,006	147,851	26,030	12,873	99	
1927 m. a.	517,522	387,491	81,377	41,222	385,777	90,372	8,677	39,559	2,887	1.080	2,805	6,746	2,933	164,697	31,125	12,756	93	
1928 m. a.	515,656	391,413	75,164	46,502	373,382	100,368	10,003	39,769	3,459	1.081	2,636	6,737	2,827	171,652	32,334	12,346	99	
1929 m. a.	529,487	402,249	72,792	44,087	379,652	107,022	8,327	41,117	2,905	1.076	2,590	6,865	2,786	174,604	36,477	12,080	80	
<b>1929</b>																		
Jan.....	487,463	367,236	74,997	38,421	369,738	77,176	4,638	39,210	3,111	1.039	2,526	7,033	2,836	46,242	7,473	11,767	101	
Feb.....	476,156	363,777	68,393	38,450	350,549	84,724	5,757	38,140	2,867	1.047	2,333	6,117	2,555	43,505	10,835	11,997	98	
Mar.....	517,563	393,862	71,890	44,786	377,758	97,405	10,504	40,228	3,168	1.090	2,460	6,627	2,726	72,377	8,498	11,986	94	
Apr.....	514,700	393,710	67,521	45,069	377,045	94,168	8,887	38,346	2,834	1.124	2,335	6,404	2,582	64,807	10,460	12,278	70	
May.....	538,608	412,770	68,907	45,347	391,528	103,578	6,260	41,846	2,874	1.089	2,450	6,471	2,590	102,207	21,190	12,582	75	
June.....	532,621	391,140	79,344	44,860	382,355	105,818	5,130	40,725	2,895	1.062	2,894	7,763	3,000	273,059	59,412	12,224	68	
July.....	557,568	416,405	79,551	47,362	389,262	122,783	7,829	41,991	2,794	1.091	3,014	7,230	2,939	593,324	131,511	12,070	57	
Aug.....	586,563	446,001	84,267	45,617	395,686	152,232	8,351	44,944	2,366	1.084	3,178	7,927	3,287	523,623	112,574	12,098	74	
Sept.....	566,720	434,972	75,736	48,142	383,349	133,898	11,499	44,219	3,312	1.073	2,760	7,483	3,031	220,766	49,102	11,826	104	
Oct.....	608,661	483,038	66,118	49,575	404,327	152,987	14,974	47,814	3,601	1.074	2,365	6,800	2,721	67,012	12,415	12,187	117	
Nov.....	499,211	384,040	62,451	41,481	372,167	86,669	9,129	38,723	2,786	1.082	2,198	5,722	2,437	52,563	8,574	11,726	89	
Dec.....	468,879	340,821	74,438	39,991	362,814	72,227	6,968	36,040	2,259	1.034	2,566	6,507	2,731	35,762	5,675	12,213	15	
<b>1930</b>																		
Jan.....	451,190	337,993	70,452	33,864	356,469	55,474	1,987	36,664	2,210	1.024	2,414	7,143	2,760	47,296	19,335	11,331	95	
Feb.....	427,941	327,061	61,254	33,016	330,579	59,452	2,770	34,341	2,167	1.047	2,153	6,331	2,379	48,342	9,926	11,018	111	
Mar.....	452,717	345,204	61,788	37,643	351,279	61,074	5,812	35,310	2,354	1.089	2,174	6,316	2,457	67,306	12,841	11,341	102	
Apr.....	451,203	345,813	59,586	36,805	348,214	62,272	5,054	34,894	2,137	1.097	2,120	6,247	2,420	75,515	14,322	11,471	74	
May.....	463,130	354,326	60,406	37,845	351,780	69,174	4,107	36,956	2,213	1.071	2,197	6,171	2,351	121,194	35,819	-----	-----	
June.....	444,848	331,647	67,146	-----	334,638	68,883	-----	-----	-----	-----	-----	-----	2,679	-----	-----	-----	-----	
July.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Aug.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Sept.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Oct.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Nov.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Dec.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

<sup>1</sup> Data from the Interstate Commerce Commission, covering Class I railroads, those having annual operating revenues in excess of \$1,000,000, which comprise 193 railroads with about 98 per cent of the total operating revenues of all railroads.

<sup>2</sup> Net railway operating income, from the Interstate Commerce Commission reports on Class I railroads, includes net operating revenue (equal to the difference between total operating revenue and total operating expenses), from which there have been deducted railway tax accruals, uncollectible railway revenues, equipment, and joint facility rents.

<sup>3</sup> Annual figures, from Department of Trade and Commerce, cover all railroads in Canada, averaged for the fiscal year ending March 31 of the year indicated; monthly reports cover all railroads with annual operating revenues of \$500,000 or over, which includes 98 per cent of the total revenues of all roads. Monthly data from 1920 on net operating revenue and on freight carried appeared in July, 1922, issue (No. 11), p. 45.

<sup>4</sup> Data on the United States from the Bureau of Railway Economics, except tons per mile for 1915 and 1916, from Interstate Commerce Commission. Monthly data on ton-mile operations from 1916 appeared in December, 1923, issue (No. 28), p. 52.

<sup>5</sup> Pullman passenger traffic furnished by The Pullman Company; revenues from its reports to the Interstate Commerce Commission.

<sup>6</sup> Visitors to national parks from U. S. Department of Interior as reported by superintendents of the following 15 parks: Grand Canyon and Casa Grande, Ariz. (the latter a monument rather than a park); Hot Springs, Ark.; General Grant, Sequoia, and Yosemite, Calif.; Rocky Mountain, Colo.; Glacier, Mont.; Platt, Okla.; Crater Lake, Oreg.; Wind Cave, S. Dak.; Zion, Utah; Mount Rainier, Wash.; Yellowstone, Wyo.; and Mount McKinley, Alaska. Vehicles are not reported by Platt, Hot Springs, Wind Cave, and Mount McKinley. The largest attendance of visitors is shown at Platt Park. Monthly data from 1920 appeared in December, 1923, issue (No. 28), p. 56.

<sup>7</sup> Reports to the Interstate Commerce Commission of the American Railway Express Co., to which are added reports of the Southeastern Express Co. from the time of its organization in May, 1921, thus presenting practically complete reports of the express business on railroads. Operating income includes net operating revenues (equal to the difference between total operating revenues and operating expenses) from which have been deducted noncollectible revenue from transportation and express taxes.

Table 83.—LOCOMOTIVES

YEAR AND MONTH	ON RAILROAD LINES <sup>1</sup> (end of month)				INSTALLED <sup>1</sup>	RETIRED <sup>1</sup>	NEW ORDERS <sup>2</sup>	SHIPMENTS BY MANUFACTURERS <sup>3</sup>			UNFILLED ORDERS (end of month)				EXPORTS <sup>4</sup>	SHIPMENTS, ELECTRIC LOCOMOTIVES <sup>5</sup> (quarterly)		
	Total owned		In bad order					Total	Domestic		Reported by manufacturers <sup>3</sup>		Reported by railroads <sup>1</sup>			Steam	Mining	Industrial
	Number	Tractive power (mills. of lbs.)	Number	Per ct. of total in use					Steam	Elec- tric	Total	Steam	Elec- tric	In R. R. shops				
								Number of locomotives										
1919 monthly av.				23.8			18											
1920 monthly av.				25.3			166	224	110	26	1,447	894	122			143		
1921 monthly av.			5,559	23.9			20	130	69	18	367	206	57			85		
1922 monthly av.			17,025	26.4			217	117	88	11	892	787	40			31		
1923 monthly av.	7 64,757		12,204	19.0	7 265	7 230	165	282	248	17	1,636	1,488	85	13	846	22	318	15
1924 monthly av.	64,962	2,573	11,195	17.4	187	179	118	130	109	8	499	386	61	40	351	27	142	22
1925 monthly av.	64,371	2,592	10,819	16.9	144	250	83	101	63	12	467	335	46	59	236	30	172	14
1926 monthly av.	63,171	2,602	9,318	14.9	200	298	100	146	113	15	583	461	38	77	430	23	218	30
1927 monthly av.	61,773	2,608	8,852	14.4	163	298	55	90	61	12	331	248	43	34	164	19	203	18
1928 monthly av.	59,923	2,587	7,977	14.0	116	278	29	46	31	8	200	134	36	23	104	17	128	15
1929 monthly av.	57,752	2,545	7,790	13.6	144	300	87	71	59	3	443	383	30	48	300	18	189	17
<b>1928</b>																		
May.....	60,284	2,595	8,421	14.1	139	228	52	41	29	10	220	138	39	30	86	5		
June.....	60,095	2,591	8,006	13.4	95	284	7	51	39	11	201	109	37	30	90	15	98	13
July.....	59,975	2,590	8,310	14.0	116	235	32	46	19	5	198	98	59	17	56	32		
August.....	59,769	2,585	7,954	13.4	114	320	70	34	23	4	204	135	26	19	81	20		
September.....	59,600	2,582	7,815	13.2	93	260	8	41	28	2	178	118	27	15	98	33	121	20
October.....	59,371	2,578	8,177	13.9	102	331	4	36	26	None.	170	113	29	17	104	8		
November.....	59,097	2,571	4,671	15.1	68	313	41	35	20	1	152	104	31	26	97	21		
December.....	58,758	2,562	7,931	13.6	132	420	59	44	36	4	282	238	27	35	112	4	169	15
<b>1929</b>																		
January.....	58,608	2,559	8,161	14.0	111	236	28	23	6	6	278	251	21	42	236	18		
February.....	58,508	2,557	8,383	14.4	114	214	68	23	20	1	339	301	20	38	253	13		
March.....	58,322	2,553	8,042	13.9	121	307	142	35	31	4	488	419	24	46	326	22	180	27
April.....	58,144	2,550	8,057	14.0	130	308	58	61	57	2	495	419	24	38	308	10		
May.....	58,052	2,549	7,803	13.4	177	269	44	99	92	2	444	362	22	59	265	14		
June.....	57,876	2,546	7,453	13.0	158	297	181	78	58	1	552	489	21	55	334	14	173	15
July.....	57,635	2,541	7,681	13.4	120	369	36	69	39	3	539	490	18	45	365	32		
August.....	57,477	2,540	7,106	12.4	153	366	31	129	117	6	436	392	13	25	370	30		
September.....	57,355	2,540	7,668	13.5	127	248	84	75	60	7	429	347	55	25	329	20	196	20
October.....	57,195	2,538	7,631	13.4	166	327	125	96	90	6	423	347	49	46	248	11		
November.....	57,038	2,535	7,833	13.8	187	343	84	95	75	None.	398	340	49	65	234	21		
December.....	56,819	2,531	7,662	13.6	158	377	167	67	62	1	490	435	48	95	336	13	207	7
<b>1930</b>																		
January.....	56,753	2,530	7,937	14.1	160	227	163	48	48	None.	587	527	50	107	334	2		
February.....	56,654	2,530	8,342	14.8	115	218	16	67	60	4	533	479	46	107	343	8		
March.....	56,486	2,528	8,274	14.8	142	310	43	68	64	2	535	485	44	132	310	10	123	17
April.....	56,456	2,531	8,222	14.7	149	166	29	97	94	None.	464	417	44	123	239	4		
May.....	56,410	2,533	7,798	14.0	177	226	18	58	56	None.	419	367	43	77	354	9		
June.....	56,382	2,535	7,966	14.3	165	193	None.	81	80	None.	343	291	44	64	300	3	136	5
July.....							2	56	52	3	291	243	41					
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

<sup>1</sup> Locomotives owned, retired, and building, and in bad order both passenger and freight, on Class I railroads, from American Railway Association, Car Service Division. Data for 1919 on bad-order locomotives from U. S. Railroad Administration.

<sup>2</sup> Data from the Railway Age covering the principal transactions, each month's figures being totals of those given in the weekly issues of the publication appearing during the month, and prorated up to the annual totals made from special inquiries. The percentage used in prorating the 1924 data was 91 per cent.

<sup>3</sup> Reported direct to the U. S. Department of Commerce, Bureau of the Census, by principal locomotive manufacturing companies, exclusive of railroads making locomotives in their own shops. Both steam and electric railroad locomotives are included in these data, the totals including foreign as well as domestic business. Monthly data from 1920 showing both shipments and unfilled orders for domestic and foreign business classified between steam and electric, appeared in the May, 1926, issue (No. 57), p. 25.

<sup>4</sup> Data from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Monthly data from 1922 appeared in April, 1925, issue (No. 44), pp. 27 and 28 and annual averages prior to 1919 in the August, 1927, issue (No. 72), p. 99.

<sup>5</sup> Compiled from quarterly reports to the U. S. Department of Commerce, Bureau of the Census, from nine manufacturers comprising practically the entire industry. Press releases furnish details as to type, i. e., trolley or storage battery. Data for 1923 not available by quarters, but annual figures are reduced to quarterly averages.

<sup>6</sup> 10 months' average, March to December, inclusive.

<sup>7</sup> 8 months' average, May to December, inclusive.

<sup>8</sup> 4 months' average, September to December, inclusive.

<sup>9</sup> Quarterly average.

Table 84.—FREIGHT-CAR MOVEMENT

YEAR AND MONTH	SURPLUS <sup>1</sup>			SHORTAGE <sup>1</sup>			LOADINGS <sup>2</sup>							Total
	Box cars	Coal cars	Total cars <sup>3</sup>	Box cars	Coal cars	Total cars <sup>3</sup>	Grain and grain products	Live-stock	Coal and coke	Forest products	Ore	Merchandise and l. c. l.	Miscellaneous	
Number of cars														
1917 mo. av.	6,437		23,592	65,901		112,934								
1918 mo. av.	29,251		68,680	28,964		52,360								3,716,007
1919 mo. av.	82,135	75,605	189,396	18,991	4,200	24,174	169,393	142,937	747,450	247,532	161,869		1,721,763	3,486,045
1920 mo. av.	15,985	1,981	24,194	42,315	25,868	82,057	153,585	129,452	894,180	254,811	200,852	751,043	1,375,951	3,759,873
1921 mo. av.	127,982	154,499	339,026	1,146	444	1,896	191,065	124,744	691,016	207,314	75,592	917,508	1,069,692	3,276,930
1922 mo. av.	47,675	90,897	164,500	26,653	15,852	51,579	204,397	135,508	655,962	243,001	132,524	965,495	1,243,743	3,600,630
1923 mo. av.	33,635	23,367	69,659	10,566	13,527	27,873	189,642	147,375	851,753	312,074	195,143	1,013,754	1,441,270	4,151,009
1924 mo. av.	88,482	110,572	229,908	384	487	1,046	214,223	146,087	754,650	305,594	139,881	1,043,344	1,440,757	4,044,536
1925 mo. av.	103,747	96,843	241,289	90	112	440	192,144	136,301	794,060	311,402	167,637	1,099,383	1,567,753	4,268,679
1926 mo. av.	104,770	61,656	205,915	96	196	334	196,947	133,015	884,598	304,533	181,595	1,109,232	1,614,981	4,424,902
1927 mo. av.	138,184	85,194	265,159	1	105	142	198,229	128,914	815,139	285,217	157,648	1,103,766	1,614,072	4,302,984
1928 mo. av.	131,187	107,397	283,164	None.	20	35	209,411	126,748	775,184	277,273	159,147	1,097,131	1,654,269	4,299,157
1929 mo. av.	117,851	73,821	235,205	3	16	74	199,538	118,246	821,665	270,900	190,107	1,100,037	1,698,657	4,399,149
<b>1928</b>														
January	182,001	169,463	403,792	3	None.	4								
February	155,554	168,172	372,916	None.	None.	None.								
March	125,627	171,481	344,502	None.	None.	None.								
April	134,069	140,091	320,762	None.	None.	None.								
May	143,264	108,833	304,153	None.	None.	None.								
June	170,606	114,710	336,181	None.	None.	None.								
July	137,618	90,513	271,017	None.	32	82								
August	114,355	47,615	201,864	None.	8	8								
September	53,170	21,809	103,906	None.	159	279								
October	54,263	21,128	105,017	None.	44	44								
November	104,272	75,799	222,539	None.	None.	None.								
December	199,443	159,147	411,320	None.	None.	None.								
<b>1929</b>														
January	136,959	92,243	278,213	None.	11	79	182,094	117,943	857,973	216,960	35,640	916,161	1,244,684	3,571,455
February	98,986	72,613	217,400	None.	6	76	188,659	105,679	897,593	240,895	36,975	969,937	1,326,398	3,766,136
March	95,429	136,452	279,107	40	None.	40	213,212	121,103	846,691	335,063	57,113	1,306,178	1,936,577	4,815,937
April	89,952	87,367	220,821	None.	None.	19	143,913	106,879	632,491	278,384	110,678	1,062,048	1,654,749	3,989,142
May	109,924	64,156	222,626	None.	13	18	189,867	128,361	836,072	343,179	357,269	1,285,836	2,041,818	5,182,402
June	116,657	55,150	217,657	None.	11	75	178,439	94,308	669,448	281,226	305,924	1,042,060	1,720,476	4,291,881
July	96,577	58,485	197,923	None.	None.	3	246,841	92,030	633,584	245,248	305,437	995,783	1,641,155	4,160,078
August	87,985	31,021	158,112	None.	None.	12	315,570	121,285	916,215	343,449	378,560	1,307,417	2,208,357	5,590,853
September	72,612	12,117	118,523	None.	112	127	199,367	123,644	811,081	251,726	274,599	1,048,579	1,829,579	4,538,575
October	80,956	17,066	124,194	None.	34	436	185,681	149,101	877,576	254,356	240,164	1,086,098	1,884,399	4,677,375
November	181,198	114,826	340,740	None.	None.	None.	191,975	156,889	1,001,992	275,208	146,073	1,276,286	1,843,412	4,891,835
December	246,982	144,353	447,141	None.	None.	None.	159,676	101,798	816,589	181,810	32,877	908,085	1,140,158	3,340,993
<b>1930</b>														
January	217,024	123,469	392,552	None.	None.	9	156,665	108,036	828,272	181,810	33,657	890,152	1,150,832	3,349,424
February	206,531	180,089	440,275	None.	None.	None.	174,980	102,960	797,867	217,239	33,474	938,429	1,241,013	3,505,962
March	203,590	206,066	465,920	None.	None.	None.	201,047	118,071	735,508	294,071	45,119	1,251,013	1,769,796	4,414,625
April	203,192	168,930	427,925	None.	None.	None.	156,454	96,373	571,469	229,747	50,805	1,004,425	1,510,020	3,619,293
May	233,664	148,873	441,503	None.	None.	None.	188,117	117,224	739,739	264,693	258,680	1,210,292	1,819,850	4,598,555
June	246,622	163,396	465,464	None.	None.	None.	166,012	86,439	578,855	198,629	250,110	967,221	1,472,181	3,719,447
July	232,235	165,499	454,815	None.	None.	None.	233,312	80,293	556,605	159,618	244,998	899,253	1,381,652	3,555,731
August														
September														
October														
November														
December														

<sup>1</sup> Data from the *American Railway Association*. Daily average for the last period (7 or 8 days) of the month, exclusive of Canadian roads. The association reports the number of freight cars which are idle (surplus) and also the number of requests for cars which can not be filled (shortage). The difference between these two figures represents the net freight-car situation for the country as a whole. The car shortages can not ordinarily be filled from the idle cars because of the uneven geographical distribution of the latter.

<sup>2</sup> Compiled from reports of the *American Railway Association, Car Service Division*. The figures for the years 1929 and 1930 are put on a monthly basis from weekly reports consisting of exactly 4 weeks for the months of January, February, April, June, July, September, October and December, and 5 weeks for the months of March, May, August, and November.

<sup>3</sup> Includes other classes than groups listed.

Table 85.—RAILWAY CAR SUPPLY

YEAR AND MONTH	FREIGHT CARS										PASSENGER CARS				HOTELS <sup>4</sup>		WARE- HOUSES <sup>(5)</sup>			
	In railroad hands, end of month <sup>1</sup>				New or- ders <sup>2</sup>	Shipments by mfrs. <sup>3</sup>		Unfilled orders end of month <sup>1</sup>			In rail- road hands, end of quarter <sup>1</sup>	New or- ders <sup>2</sup>	Shipments by mfrs. <sup>3</sup>		Un- filled orders, end of quarter <sup>1</sup>	Av. sale per occupied room	Rooms occu- pied	Space occu- pied		
	Total		In bad order			Total	Do- mestic	Total	To mfrs.	In R. R. shops			Total	Do- mestic						
	Thou- sands	Capacity (millions of lbs.)	Number	P. ct. total in use	Number of cars														Dolls.	Per cent of total
1918 mo. av.			142,790	5.9		7,961	4,392						70	63						
1919 mo. av.			168,973	7.0	1,838	11,917	6,904					24	19	11						
1920 mo. av.			166,779	7.3	7,017	5,116	3,899					148	34	23						
1921 mo. av.			318,880	13.9	1,945	3,528	3,109					53,891	20	75	71	6	218			
1922 mo. av.			302,456	13.3	15,013	4,866	4,749					54,144	199	59	46	1,121				
1923 mo. av.			185,343	8.0	7,873	12,233	12,069					54,324	185	138	135	1,270				
1924 mo. av.	2,323	204,316	188,012	8.2	11,899	6,850	6,718	48,033	44,548	3,482	54,658	213	93	88	815					
1925 mo. av.	2,355	209,935	183,725	7.9	6,527	6,447	6,124	34,757	27,924	6,833	54,458	135	76	73	830					
1926 mo. av.	2,346	211,257	154,983	6.7	4,690	6,875	6,471	30,055	22,810	7,245	54,166	110	186	178	1,000	7	4.27			
1927 mo. av.	2,329	211,729	138,490	6.1	4,913	4,524	4,460	19,836	13,363	6,471	53,856	100	118	115	784	4	14			
1928 mo. av.	2,298	210,250	143,511	6.4	3,087	3,286	3,165	14,196	11,414	2,782	53,046	148	103	94	1,024	4	0.2			
1929 mo. av.	2,267	208,959	135,266	6.1	8,192	6,018	5,731	35,553	30,794	4,759	52,327	105	94	85	612	4	0.4			
<b>1928</b>																				
September	2,296	210,335	148,333	6.6	1,236	3,220	3,000	6,619	3,878	2,741	52,949	2	146	143	1,173	3.98	68			
October	2,292	210,092	138,238	6.2	1,635	2,507	2,345	5,437	1,880	3,557	56	68	68		4.07	72				
November	2,288	209,826	139,053	6.2	6,100	1,640	1,549	13,850	10,271	3,579	2	166	166		4.13	70				
December	2,282	209,539	134,267	6.0	4,668	1,639	1,327	12,671	10,109	2,562	52,769	11	181	150	853	3.88	67			
<b>1929</b>																				
January	2,275	209,014	136,319	6.2	12,452	1,814	525	28,121	24,109	4,012	228	111	109		4.12	73				
February	2,271	208,718	144,620	6.6	14,393	1,152	887	40,539	35,891	4,648	21	90	90		4.13	72				
March	2,268	208,507	139,538	6.3	11,068	3,599	3,589	41,197	35,360	5,837	52,869	53	87	87	615	3.94	69			
April	2,267	208,569	142,543	6.5	6,983	5,510	5,300	43,486	36,674	6,812	250	86	78		4.09	71				
May	2,267	208,850	144,634	6.5	8,364	8,459	8,350	39,843	33,588	6,255	111	48	44		3.88	71				
June	2,266	208,867	142,064	6.4	5,869	6,517	6,514	39,173	34,145	5,028	52,395	176	94	82	740	3.97	66			
July	2,267	209,095	137,495	6.2	242	7,109	6,963	36,014	31,500	4,424	89	64	53		3.94	63				
August	2,268	208,897	134,253	6.0	2,562	7,811	7,633	31,671	27,289	4,382	149	76	64		4.13	65				
September	2,266	209,001	132,611	6.0	4,257	7,614	7,239	29,317	25,554	3,763	52,165	None	96	77	681	4.02	69			
October	2,265	209,137	126,055	5.7	17,207	7,818	7,363	33,123	29,857	3,266	51	69	69		4.11	75				
November	2,264	209,340	124,257	5.6	5,126	6,956	6,891	30,069	25,677	4,392	57	189	149		4.17	73				
December	2,263	209,516	118,807	5.4	9,785	7,856	7,513	34,085	29,796	4,289	51,880	77	116	116	410	3.92	67			
<b>1930</b>																				
January	2,265	209,812	124,260	5.6	6,632	8,095	7,426	33,457	28,057	5,400	58	95	80		4.01	73				
February	2,267	210,135	122,327	5.5	15,931	9,600	9,366	30,800	25,722	5,078	134	78	78		4.05	70				
March	2,268	210,315	129,895	5.9	4,464	6,144	6,066	35,181	29,058	6,123	51,768	169	61	51	688	3.90	67			
April	2,270	210,726	129,865	5.9	1,543	9,087	8,874	31,846	26,518	5,328	70	77	65		4.05	68				
May	2,270	210,890	137,386	6.2	1,079	6,785	6,785	28,696	25,050	3,646	72	72	69		3.76	68				
June	2,272	211,212	140,594	6.3	794	5,066	5,059	22,759	19,161	3,598	51,693	13	66	66	587	3.89	62			
July					1,306	5,348	5,348				32	41	41							
August																				
September																				
October																				
November																				
December																				

<sup>1</sup> Compiled by the American Railway Association, Car Service Division, covering Class I railroads and some others, including about 99 per cent of total railroad operations. Cars in railroad hands include those owned or leased by railroads but not private-owned cars on their lines. Passenger coaches in railroad hands include coaches, combination, baggage, express, and all other coaches. Monthly averages for bad-order cars for the years 1913-1917; also monthly data for 1920 and 1921, appearing in the October, 1923, issue (No. 26), pp. 59 and 60. Annual figures for passenger cars in railroad hands and on unfilled order are quarterly averages.

<sup>2</sup> Data from the Railway Age covering the principal transactions, each month's figures being totals of those given in the weekly issues of the publication appearing during the month, and prorated up to the annual totals made from special inquiries. The percentage used in prorating the 1924 data was 94 per cent. Data for the years 1913 to 1918 from the Iron Trade Review appeared in May, 1924, issue (No. 33), p. 77; though not comparable month by month on account of different methods of compilation, they indicate the trend from year to year comparable to the above figures.

<sup>3</sup> The data on shipments of manufacturers for railway equipment were obtained from the Interstate Commerce Commission. Monthly data from 1919 appeared in July, 1924, issue (No. 35), p. 55.

<sup>4</sup> Compiled by Horwath & Horwath from reports of over 100 hotels, transient and resident, throughout the country. Details by cities shown in their monthly reports.

<sup>5</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of over 600 public-merchandise warehouses, excluding cold-storage and household goods. Further details are presented by States in monthly press releases.

<sup>6</sup> Average of 2 periods, June 30 and Sept. 30 (no report made for Dec. 31).

<sup>7</sup> Average of 3 months, October to December, inclusive.



Table 86.—PUBLIC UTILITIES

YEAR AND MONTH	TELEPHONE COMPANIES <sup>1</sup>		TELEGRAPH COMPANIES <sup>1</sup>			GAS AND ELECTRIC COMPANIES <sup>2</sup>		ELEC-TRIC POWER SALES <sup>3</sup>	ELECTRIC POWER PRODUCTION						ELECTRIC RAILWAYS				
	Total operating revenues	Net operating income	Com-mer-cial tele-graph tolls	Tele-graph and cable oper-ating reve-nues	Oper-ating in-come	Gross earnings	Net earnings	Gross revenue	United States <sup>4</sup>				Canada <sup>5</sup>			Passen-gers carried <sup>6</sup>	Aver-age fares <sup>7</sup>		
									Total	By water power	By fuels	In cen-tral sta-tions	In mfg. pl'ts, street rlys., etc.	Total	By water power			Ex-ported	
	Thousands of dollars								Millions of kilowatt-hours						Thous. of persons	Cents			
															212 com-panies	272 cities			
1913 m.a.	\$13,132	\$3,710				\$52,493	\$21,431	\$26,017											
1914 m.a.	13,722	3,709				54,315	22,325	28,067											
1915 m.a.	14,527	4,139				56,668	23,512	30,100											
1916 m.a.	16,452	4,785				63,039	26,051	35,458											
1917 m.a.	18,700	4,700	\$5,898	\$7,674	\$1,711	70,416	25,704	44,925											
1918 m.a.	20,225	4,649	6,287	8,477	1,282	78,725	24,387	55,442											
1919 m.a.	24,635	5,104	7,596	10,095	1,636	90,162	26,157	60,083	\$ 3,144	\$ 209	\$ 1,935								
1920 m.a.	30,320	5,415	9,113	11,698	1,438	108,871	28,949	73,575	3,630	1,346	2,284	3,334	295						
1921 m.a.	36,265	7,573	8,043	10,371	1,265	112,690	32,884	81,066	3,415	1,248	2,167	3,129	286						
1922 m.a.	40,204	8,882	8,435	10,608	1,697	119,601	37,238	90,825	3,971	1,434	2,537	3,650	321				7.354		
1923 m.a.	44,106	10,015	9,027	11,153	1,583	132,711	42,466	105,796	4,639	1,612	3,027	4,297	342				7.296		
1924 m.a.	48,412	10,555	9,085	11,210	1,548	140,939	45,511	112,969	4,918	1,664	3,254	4,569	349			784,893	7.420		
1925 m.a.	54,313	12,988	10,245	12,598	1,796	152,260	52,685	122,365	5,489	1,863	3,626	5,118	371	824	811	107	784,896	7.569	
1926 m.a.	60,483	14,560	10,829	13,372	1,765	166,285	59,596	136,925	6,149	2,182	3,967	5,732	417	932	919	126	792,790	7.706	
1927 m.a.	65,226	15,567	10,625	13,191	1,792	176,089	64,598	147,750	6,684	2,490	4,194	6,230	454	1,186	1,169	136	782,860	7.915	
1928 m.a.	68,855	16,602	10,887	13,697	1,784	185,796	72,392	160,150	7,321	2,891	4,430	6,906	419	1,328	1,309	132	772,337	8.086	
1929 m.a.	75,747	18,168	11,457	14,581	1,792	192,396	83,875	174,558	8,113	2,886	5,227	7,724	384	1,469	1,441	120	761,970	9.738	
1929																			
May	76,158	18,355	11,853	15,016	1,749	189,750	82,500	168,400	8,086	3,486	4,600	7,706	378	1,457	1,432	112	792,894	8.221	
June	74,622	18,194	11,396	14,446	1,516	183,000	79,000	162,500	7,768	3,068	4,699	7,406	362	1,378	1,361	119	744,310	8.228	
July	75,141	15,905	11,679	14,843	1,528	178,000	71,000	159,500	8,072	3,055	5,017	7,645	368	1,411	1,393	129	722,289	8.244	
Aug.	75,898	17,601	12,067	15,316	1,688	179,500	73,000	163,400	8,356	2,837	5,518	7,964	390	1,445	1,426	133	724,812	8.260	
Sept.	75,606	18,197	11,531	14,751	1,724	185,000	80,000	170,800	8,062	2,473	5,589	7,681	380	1,477	1,455	136	704,818	8.260	
Oct.	79,653	20,047	12,485	15,947	2,029	197,500	83,000	182,500	8,709	2,732	5,976	8,319	389	1,594	1,559	126	774,466	8.272	
Nov.	77,664	18,302	10,540	13,633	2,260	202,500	92,000	190,200	8,242	2,644	5,599	7,883	360	1,595	1,559	124	748,624	8.272	
Dec.	78,675	18,271	11,298	14,572	2,304	211,500	100,000	192,200	8,512	2,752	5,760	8,111	402	1,535	1,497	102	795,643	8.272	
1930																			
Jan.	77,845	18,012	10,518	13,454	435	211,000	92,000	198,300	8,652	2,935	5,717	8,240	412	1,546	1,505	113	781,927	8.288	
Feb.	75,398	17,287	9,844	12,652	532	199,500	90,000	185,800	7,618	2,705	4,913	7,177	441	1,391	1,364	117	705,454		
Mar.	79,200	17,984	10,790	13,865	1,442	199,000	88,000	176,400	8,175	3,266	4,909	7,674	501	1,508	1,484	127	760,269		
Apr.	79,850	18,877	11,002	13,964	1,673	198,000	89,500	175,900	8,000	3,284	4,716	7,482	518	1,494	1,472	118	728,820		
May	80,507	18,141	10,957	14,059	1,445	195,000	86,000	172,900	8,014	3,194	4,820			1,536	1,515	129	736,202		
June						189,000	83,000		7,748	3,053	4,695			1,424	1,404	136	681,788		
July																			
Aug.																			
Sept.																			
Oct.																			
Nov.																			
Dec.																			

<sup>1</sup> Telephone earnings are the combined reports of 12 largest telephone companies, reduced by consolidation from 13 companies, and comprising about 83 per cent of the total operating revenues of telephone companies with annual operating revenues over \$250,000, and telegraph earnings are the combined reports of the Western Union and Postal Telegraph Cos., as reported to the Interstate Commerce Commission.

<sup>2</sup> Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 95 public-utility companies or systems operating gas, electric light, heat, power, traction, and water services and comprising practically all of the important organizations in the United States, exclusive of telephone and telegraph companies. While the above figures are not complete they are believed to represent typical conditions within the public-utility field. Gross earnings consist, in general, of gross operating revenues while net earnings in general represent the gross less operating expenses and taxes, or the nearest comparable figures. In some cases the figures for earlier years do not cover exactly the same subsidiaries, owing to acquisitions, consolidations, etc., but those differences are not believed to be great in the aggregate. Monthly data from 1920 appeared in the December, 1927, issue (No. 76), p. 48.

<sup>3</sup> Gross revenue received from the sale of electrical energy as reported by the *Electrical World* represents the total receipts from the sale of electricity by companies with about 83 per cent of the installed generator rating of the country, computed to 100 per cent of the industry on the basis of the percentage which the reporting companies bear to the installed central-station rating of the country. Companies reporting sales are not identical with those reporting production of power. These figures cover light and power companies only, excluding electric railways which do not sell their current. Monthly data from 1913 appeared in July, 1923, issue of SURVEY (No. 23), p. 45.

<sup>4</sup> Compiled by the U. S. Department of the Interior, Geological Survey. Production in central stations up to March, 1928, was segregated by the U. S. Department of Commerce, Bureau of the Census, from the original records of reporting firms on file with the Geological Survey, from that produced in connection with street railways, manufacturing plants, and reclamation projects. Details, by months, since 1920 for central stations appeared in the June, 1928, issue of the SURVEY (No. 82), p. 22, while for the other items details appeared in the March, 1925, issue (No. 43), p. 28. Beginning with March, 1928, this segregation has been carried on by the Geological Survey. Monthly data from 1918 on total production and segregation by water power and fuels appeared in the November, 1927, issue (No. 75), p. 26.

<sup>5</sup> Compiled by the Department of Trade and Commerce, Dominion Bureau of Statistics, covering all the large central electric stations in Canada, which in 1925 produced 98 per cent of all stations in Canada. These data do not include the output of pulp and paper mills and other plants generating electricity only for their own use. Monthly data from 1925, including data on electric power generated by fuels, appeared in the April, 1928, issue (No. 80), p. 22.

<sup>6</sup> Data compiled by the American Electric Railway Association from reports of 212 companies operating 24,187 miles of revenue single track and 3,090 miles of bus routes and carrying about 68 per cent of the total revenue passengers carried by electric railways.

<sup>7</sup> Compiled by the American Electric Railway Association, representing the average cash fare paid in 272 cities of over 25,000 population, as of the end of each month.

<sup>8</sup> 6 months' average, January, May, June, August, November, and December missing.

Table 87.—RATE OF MANUFACTURING OPERATIONS<sup>1</sup>

(Based on consumption of electrical energy for power purposes)

YEAR AND MONTH	Activity by Geographical Divisions						Activity in leading industries throughout the country												
	United States	New England	North Central	Middle Atlantic	Southern	Western	Chemicals and allied products	Food and allied products	Rolling mills and steel plants	Metal-working plants	Metals	Leather and its products	Lumber and its products	Paper and pulp	Rubber and its products	Shipbuilding	Stone, clay, and glass	Textiles	Automobiles and repair parts
	1923-1925 monthly average=100																		
1923 monthly average..	104.9	111.0	105.6	105.5	101.7	99.0	91.4	101.8	-----	111.7	111.7	110.8	95.9	102.2	108.0	105.3	98.8	110.0	102.5
1924 monthly average..	89.9	87.5	91.1	91.0	93.1	99.3	96.2	99.1	-----	84.1	84.1	90.4	97.6	95.0	84.5	89.4	94.8	84.8	87.7
1925 monthly average..	105.2	101.5	103.3	103.5	105.2	101.7	112.4	99.1	-----	104.2	104.2	98.8	106.5	102.8	107.5	105.3	106.4	105.2	109.8
1926 monthly average..	113.5	107.8	114.4	108.4	115.8	116.5	114.4	103.4	112.9	117.1	116.9	96.4	117.1	115.5	110.0	120.8	120.0	110.0	113.7
1927 monthly average..	115.3	112.4	114.5	107.5	125.5	118.8	107.6	109.5	116.3	107.3	111.9	101.3	123.6	123.0	113.8	117.5	111.0	122.4	108.9
1928 monthly average..	123.9	114.5	132.1	121.6	120.5	126.3	128.2	119.5	132.1	129.1	130.5	102.2	110.2	128.4	133.8	83.8	132.7	113.4	141.1
1929 monthly average..	132.0	121.3	137.8	128.3	127.0	135.7	135.7	127.3	149.4	142.0	144.9	94.6	107.0	130.3	139.8	112.4	151.1	122.0	138.6
<b>1927</b>																			
September.....	118.4	114.0	116.4	111.6	136.8	124.6	122.6	127.4	109.6	105.2	107.4	105.9	141.3	122.7	114.4	106.6	118.2	121.2	109.5
October.....	119.9	114.0	115.0	111.5	134.4	125.7	115.8	120.8	111.8	109.7	110.8	111.0	139.2	127.7	115.6	117.2	111.0	125.4	114.2
November.....	115.2	109.7	111.4	110.4	137.8	117.0	115.5	117.9	108.9	106.3	107.7	104.5	135.8	126.5	117.0	100.8	109.7	119.2	100.7
December.....	109.8	103.9	107.8	109.9	128.0	116.9	109.0	104.6	110.6	101.2	105.9	98.2	123.3	122.0	96.7	94.6	98.8	112.3	106.4
<b>1928</b>																			
January.....	118.4	115.2	117.0	116.2	124.8	115.0	124.2	102.4	131.3	117.4	124.4	112.2	107.7	121.3	120.4	94.2	105.2	116.7	135.2
February.....	127.7	125.2	127.7	126.6	134.8	116.7	129.1	115.6	133.8	127.6	130.7	118.4	113.3	124.2	137.0	98.8	127.3	127.5	148.7
March.....	118.2	116.9	122.3	114.2	115.4	110.4	126.8	108.4	124.5	117.4	121.0	107.0	106.0	120.2	126.2	75.4	121.1	114.9	136.2
April.....	119.3	113.8	129.0	112.0	115.2	117.8	131.7	105.9	125.4	121.7	123.2	98.8	115.4	120.5	121.7	93.3	133.6	109.8	148.7
May.....	119.0	109.1	127.2	112.9	110.6	112.9	126.3	103.9	125.0	122.7	123.6	98.1	110.8	136.4	128.5	84.0	120.3	105.7	141.6
June.....	116.4	108.4	124.6	113.4	114.6	118.5	122.6	116.8	121.2	123.7	122.7	100.2	109.2	133.7	131.7	85.3	128.0	104.7	136.0
July.....	120.2	102.4	131.8	110.8	112.0	116.5	128.5	129.2	121.2	126.3	124.2	99.0	108.8	127.3	135.3	67.2	129.8	91.8	143.7
August.....	120.8	102.2	132.4	118.3	112.8	127.5	119.2	128.3	125.4	125.8	125.5	94.7	111.6	129.1	138.4	67.3	135.3	97.3	143.2
September.....	134.5	115.3	149.7	136.0	127.5	150.8	132.0	142.0	141.2	144.2	143.0	106.9	111.3	132.0	151.2	72.3	152.0	112.5	161.0
October.....	132.0	119.3	143.5	133.4	129.7	148.7	129.4	138.0	144.7	144.5	144.6	103.8	109.3	133.3	146.4	73.8	144.7	121.0	141.2
November.....	133.3	126.0	145.7	138.9	127.6	156.7	135.7	130.0	148.8	140.5	143.5	94.0	111.8	135.2	143.8	102.2	149.1	132.5	127.1
December.....	127.3	120.2	133.8	126.8	121.2	124.0	132.8	113.7	142.2	137.5	139.2	93.7	107.3	127.4	124.8	91.8	136.6	126.3	130.0
<b>1929</b>																			
January.....	132.5	127.6	138.8	126.7	120.5	131.9	129.2	128.0	153.5	135.8	142.6	94.3	107.4	126.2	148.2	108.2	137.4	129.4	149.4
February.....	140.4	132.8	149.5	130.7	137.7	140.8	138.7	127.5	163.3	153.7	157.3	102.1	107.6	125.2	154.7	95.5	148.7	133.0	161.5
March.....	135.7	130.8	141.9	130.4	125.4	138.2	133.0	122.2	160.3	151.4	154.9	93.4	104.2	129.2	155.8	99.7	138.0	126.6	154.5
April.....	136.4	125.4	146.5	128.0	126.3	137.0	131.7	121.2	153.3	148.3	149.9	82.0	108.0	136.0	155.7	116.1	145.0	128.1	170.6
May.....	136.9	123.3	148.9	130.4	128.1	144.7	129.2	122.6	172.2	144.2	154.8	95.2	111.1	129.9	157.6	135.2	143.5	129.9	161.8
June.....	135.2	123.5	142.0	129.5	128.4	134.2	133.8	121.8	154.3	143.4	147.9	98.7	113.8	137.3	158.1	106.9	170.3	123.0	154.0
July.....	129.0	113.4	141.3	120.5	114.7	129.4	127.0	129.9	144.4	144.4	144.2	82.0	103.2	122.3	136.7	107.7	154.7	113.4	139.5
August.....	128.2	108.7	135.5	127.9	132.7	127.0	125.0	132.2	150.9	134.6	140.7	102.2	102.3	123.6	120.2	96.3	157.7	110.0	143.0
September.....	135.8	118.2	140.6	138.0	126.3	143.1	139.9	141.2	152.3	147.4	149.2	105.4	111.4	127.0	133.7	114.9	165.7	115.5	138.1
October.....	134.6	126.2	136.9	133.0	131.2	133.8	145.0	131.7	144.8	145.0	145.1	93.0	109.8	141.0	135.1	134.4	159.2	129.8	122.4
November.....	122.9	118.1	122.2	124.3	122.8	142.6	147.3	127.9	123.2	128.7	126.7	97.6	111.8	133.7	113.1	114.0	146.2	115.5	88.4
December.....	116.4	107.0	109.0	120.5	130.4	126.0	148.0	121.1	120.5	127.2	124.9	89.0	92.8	132.1	108.4	120.4	146.2	109.8	79.4
<b>1930</b>																			
January.....	121.8	120.5	128.0	125.8	110.0	115.2	136.7	132.3	143.1	126.7	132.9	92.3	87.5	120.8	144.4	124.4	124.2	112.4	99.8
February.....	123.5	113.3	136.8	126.0	118.3	127.5	139.6	129.2	143.0	130.5	135.0	86.5	94.7	138.0	185.4	125.4	116.7	103.3	116.6
March.....	120.2	105.0	128.4	122.2	121.7	117.4	140.0	129.8	136.8	132.0	133.7	80.8	93.7	135.0	130.3	117.7	117.9	99.6	108.9
April.....	120.3	105.9	125.7	117.2	117.3	127.6	137.2	119.4	138.3	125.5	130.2	91.2	102.8	126.7	138.5	130.1	129.9	102.3	112.9
May.....	119.0	101.3	125.8	112.3	122.3	130.5	146.6	138.2	135.1	116.3	123.2	66.3	102.4	132.2	135.3	113.2	121.2	96.0	105.8
June.....	115.3	94.2	116.0	111.8	119.5	-----	138.6	145.4	115.2	106.8	110.0	96.8	107.3	137.5	104.8	111.8	136.5	95.3	102.9
July.....	105.1	87.9	109.9	102.9	106.5	-----	140.6	139.2	109.7	95.1	100.5	97.3	100.0	119.9	103.8	116.8	110.8	79.7	75.3
August.....																			
September.....																			
October.....																			
November.....																			
December.....																			

<sup>1</sup> Data compiled by the *Electrical World* and represent the utilization of electrical energy by 3,800 identical manufacturing concerns depending at all times upon electrical energy for power. About one-third of these concerns generate all the energy they consume, and two-thirds purchase all or a portion of their energy from public utilities. The basic data, therefore, does not in any way show the expansion of the market for central power with new customers. These tables revise all previous data shown on this subject.

<sup>2</sup> 7 months' average.

Table 88.—EMPLOYMENT—INDUSTRIAL, RAILWAY, MINING, AND FEDERAL

YEAR AND MONTH	FACTORY EMPLOYMENT, INDEXES BY GROUPS <sup>1</sup>															RAILWAYS <sup>2</sup>		ANTHRACITE MINES <sup>3</sup>			
	Total	Iron and steel	Machinery	Textiles	Food products	Paper and printing	Lumber and products	Transport. equip.		Leather and products	Cement, clay, and glass	Nonferrous metals	Chemicals		Rubber products	Tobacco products	Employees on payroll	Average hourly wage	Employment	Pay roll	
								Group	Automobiles				Group	Petroleum ref.							
Relative to 1922-1925																	Thousands	Dollars	Relative to 1923-1925		
1914 mo. av.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1915 mo. av.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1916 mo. av.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,647	\$0.276	-----	-----	
1917 mo. av.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,733	.313	-----	-----	
1918 mo. av.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,842	.463	-----	-----	
1919 mo. av.	106.7	99.7	117.2	97.8	109.0	96.8	93.2	96.3	86.6	107.5	84.7	114.6	108.3	-----	-----	112.9	1,913	.557	-----	-----	
1920 mo. av.	107.9	107.0	128.9	98.3	103.8	104.4	88.1	104.2	88.7	98.5	89.1	121.3	97.1	-----	-----	111.7	2,013	.667	-----	-----	
1921 mo. av.	82.4	65.4	77.0	93.0	94.8	89.1	74.5	71.7	53.8	87.8	73.6	74.5	70.8	-----	-----	110.5	1,661	.665	113.8	102.8	
1922 mo. av.	90.1	83.9	82.2	97.3	95.5	92.7	95.5	78.3	72.0	97.6	88.1	90.1	81.0	-----	-----	107.2	1,645	.618	69.0	60.4	
1923 mo. av.	104.2	104.4	107.7	105.3	102.0	99.3	100.9	106.9	100.6	106.2	100.8	107.1	101.5	102.9	102.5	105.8	1,880	.615	108.8	106.0	
1924 mo. av.	96.2	97.2	93.6	95.2	100.0	99.8	98.1	94.9	93.5	96.3	99.0	95.1	95.9	96.5	91.8	98.8	1,777	.628	115.8	117.7	
1925 mo. av.	99.6	98.4	98.7	99.6	98.0	101.0	101.0	98.3	105.8	97.5	100.2	97.9	102.6	100.6	105.7	95.4	1,769	.634	75.4	76.4	
1926 mo. av.	101.4	101.3	107.9	97.9	98.5	103.6	100.5	98.3	104.3	96.8	101.9	99.5	108.8	110.2	104.6	90.8	1,806	.641	113.8	116.0	
1927 mo. av.	98.8	96.8	100.0	100.8	99.1	103.1	92.3	88.4	91.6	97.3	97.5	97.4	107.9	110.2	104.0	93.6	1,761	.654	117.4	102.7	
1928 mo. av.	97.2	95.4	98.7	95.1	98.6	101.7	88.1	90.6	108.8	93.5	92.3	96.6	105.3	102.4	108.6	93.8	1,680	.665	113.4	97.1	
1929 mo. av.	100.4	98.9	116.1	96.9	97.7	104.2	88.2	94.6	114.3	93.7	89.6	101.1	112.3	116.5	108.3	91.6	1,686	.650	110.1	88.0	
<b>1928</b>																					
July	95.7	93.6	97.9	87.8	97.9	100.5	87.5	91.6	111.2	94.0	94.6	95.3	100.4	102.6	110.7	88.0	1,729	.661	100.7	82.5	
August	98.3	95.9	99.5	89.4	97.4	100.8	89.5	94.2	118.1	95.9	96.6	96.0	101.3	103.9	111.6	94.7	1,731	.655	110.9	97.2	
September	100.3	96.4	101.4	92.6	100.5	101.1	90.4	95.4	121.5	96.1	96.0	97.6	106.8	105.8	113.4	96.7	1,723	.673	112.7	112.5	
October	100.2	96.9	102.8	95.7	102.6	102.4	90.6	94.4	119.8	94.6	94.1	100.0	107.4	104.3	113.2	99.1	1,724	.660	135.9	134.7	
November	98.8	97.7	103.8	96.2	101.9	103.7	90.5	90.2	109.1	89.3	91.8	102.2	107.3	104.0	109.8	98.9	1,680	.674	117.7	110.1	
December	98.1	97.1	105.2	97.0	102.0	103.6	88.2	89.9	107.7	88.6	89.5	102.4	107.8	104.7	109.6	95.7	1,622	.683	109.4	92.9	
<b>1929</b>																					
January	97.4	97.1	106.7	95.9	98.6	102.5	85.5	94.0	118.3	91.9	84.3	102.4	107.6	104.0	112.2	84.1	1,595	.652	109.8	112.6	
February	99.7	98.3	110.4	98.0	98.8	103.4	85.8	99.0	129.5	94.1	84.5	106.1	110.9	106.7	112.3	92.0	1,606	.674	109.4	107.0	
March	101.3	99.3	113.8	101.1	97.6	103.1	86.6	100.5	131.1	92.7	86.8	107.9	115.5	109.2	113.3	92.0	1,628	.652	101.3	79.5	
April	101.8	99.7	116.7	99.3	96.2	102.5	88.2	101.7	131.4	90.6	90.5	107.7	119.0	111.9	114.3	91.3	1,666	.646	104.1	77.4	
May	101.6	100.7	119.1	97.3	97.3	102.8	89.2	101.5	130.0	90.3	93.1	105.3	110.3	114.4	115.3	90.3	1,714	.642	107.2	85.4	
June	101.2	100.8	120.8	96.3	99.2	103.2	90.0	97.6	120.6	89.4	93.8	102.9	107.9	116.4	115.0	91.4	1,736	.644	95.4	71.0	
July	100.7	99.8	121.5	91.5	99.8	103.6	90.5	96.4	117.8	94.6	91.6	100.5	108.9	120.0	114.2	90.5	1,745	.639	85.6	56.8	
August	102.0	101.0	119.4	94.2	99.7	104.1	92.2	95.5	115.0	98.1	93.8	99.8	111.2	121.9	111.5	93.0	1,760	.628	93.6	68.9	
September	103.4	101.0	119.5	98.4	102.4	106.0	91.8	94.8	113.1	99.5	93.6	98.6	114.5	124.0	108.3	93.7	1,748	.643	105.5	83.4	
October	102.1	99.4	118.7	99.8	104.2	106.1	90.1	90.2	101.3	99.3	91.9	98.5	116.1	124.6	102.7	95.0	1,750	.673	109.8	116.6	
November	98.2	97.0	115.0	97.1	101.6	106.7	86.7	82.9	83.7	94.4	88.9	93.6	113.8	123.7	91.2	96.1	1,681	.650	107.6	87.6	
December	94.8	92.2	112.1	94.3	100.5	106.9	81.6	81.3	79.6	90.0	82.3	89.9	111.8	120.9	89.2	89.2	1,605	.656	110.8	110.3	
<b>1930</b>																					
January	92.9	91.7	109.9	92.8	97.4	105.1	76.8	83.2	85.7	91.4	74.7	85.9	110.6	120.8	89.7	84.2	1,561	.655	105.6	92.1	
February	92.9	93.5	109.3	92.9	96.7	104.0	75.0	83.9	89.7	92.4	75.3	84.6	110.2	120.9	87.9	88.9	1,544	.680	107.8	103.7	
March	92.7	92.8	108.5	92.9	95.0	103.7	75.0	83.2	91.0	91.5	74.8	84.3	112.5	118.5	87.2	89.6	1,547	.658	83.3	67.1	
April	92.1	93.0	106.9	90.3	94.0	102.6	74.2	84.0	93.9	89.8	81.2	82.9	111.7	116.1	88.6	88.0	1,573	.652	84.8	63.9	
May	90.4	92.7	103.6	86.8	94.5	102.4	73.4	84.0	95.3	86.8	81.7	81.2	104.6	114.1	88.3	89.4	1,601	.688	94.5	84.2	
June	88.2	90.0	100.1	83.6	95.6	101.5	71.7	80.2	88.8	84.5	80.4	80.2	101.8	114.0	88.0	89.2	-----	-----	91.5	74.1	
July	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	92.3	71.6
August	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the Federal Reserve Board from data collected by the U. S. Department of Labor, Bureau of Labor Statistics, U. S. Department of Commerce, Bureau of the Census, and several other Federal and State governmental agencies. The indexes represent in their long-time fluctuations employment and pay rolls in all manufacturing industries, as shown by the Census of Manufactures from 1919 to 1927. Necessary adjustments will be made to succeeding censuses. In their current monthly fluctuations they represent 50 industries employing in the aggregate in 1927, 6,600,000 wage earners or about 78 per cent of the total engaged in manufacturing and accounted for about 80 per cent of the factory pay rolls of wage earners for that year. The industries are classified into 14 industrial groups, of which 13 are shown here. Each of the individual industry series, of which the indexes are composed, is adjusted to fluctuations shown by the census. For full description of these indexes see the Federal Reserve Bulletin for November, 1929, pp. 706-716.

<sup>2</sup> Compiled from reports of Class I carriers and 15 switching and terminal companies to the Interstate Commerce Commission. The computation of average wages excludes the officials included in total pay roll. Monthly data from 1920 given in January, 1923, issue (No. 17), p. 51.

<sup>3</sup> Compiled by the Federal Reserve Bank of Philadelphia from reports of operators to the Anthracite Bureau of Information relating to the first semimonthly pay-roll period in each month. These data appeared in table form in the June, 1929, SURVEY (No. 94) p. 18.

Table 89.—EMPLOYMENT IN FACTORIES, BY U. S. GOVERNMENT AND IN CONSTRUCTION

[Base year in bold-faced type]

YEAR AND MONTH	EMPLOYEES ON PAY ROLL																	
	Massachusetts <sup>1</sup>	New York State <sup>2</sup>	New Jersey <sup>3</sup>	Pennsylvania <sup>4</sup>	Delaware <sup>4</sup>	Maryland <sup>1</sup>	Illinois <sup>5</sup>	Ohio <sup>11</sup>	Iowa <sup>7</sup>	Wisconsin <sup>6</sup>	Cleveland <sup>8</sup>	Detroit <sup>14</sup>	Milwaukee <sup>9</sup>	New York State <sup>2</sup>	Oklahoma <sup>10</sup>	U. S. Govt. Washington (civilian) <sup>12</sup>	Ohio construction <sup>13</sup>	
	Rel. to 1925-27	Rel. to 1923	Relative to 1925-27			Rel. to 1924	Rel. to 1925-27	Rel. to 1926	Relative to 1923		Rel. to Jan. 1921	Rel. to 1923-25	Number			Number	Rel. to 1926	
1914 monthly average		15 86.4												16 478,335				
1915 monthly average		89.3												493,995				
1916 monthly average		104.7												579,295				
1917 monthly average		109.2												604,192				
1918 monthly average		110.9												613,671				
1919 monthly average		103.5												572,959		16 99,970		
1920 monthly average		107.4												594,099		92,237		
1921 monthly average		83.9								90.0	43.0	24,199		464,200		80,838		
1922 monthly average		90.3					101.9		77.8	103.6	72.3	28,151		499,542		71,061		
1923 monthly average		<b>100.0</b>	<b>104.4</b>	<b>106.9</b>	<b>110.1</b>		112.5	96.7	<b>100.0</b>	<b>100.0</b>	117.3	97.9	34,459	553,392		66,214	86.6	
1924 monthly average		91.2	96.6	95.5	91.3	<b>100.0</b>	103.1	90.5	101.0	95.1	105.6	92.0	28,959	504,484	28,234	64,743	93.6	
1925 monthly average	100.1	90.5	99.1	97.6	98.7	100.2	99.8	96.9	112.9	99.3	109.2	103.9	33,050	500,916	29,035	63,703	97.2	
1926 monthly average	102.0	90.7	101.7	100.7	103.8	103.8	103.1	100.0	122.4	99.5	114.7	103.3	34,974	501,802	31,321	60,505	100.0	
1927 monthly average	97.9	87.0	95.0	96.4	101.7	94.4	97.1	97.7	118.2	94.8	108.7	93.6	35,193	481,230	29,663	60,047	114.3	
1928 monthly average	89.3	83.5	88.5	92.7	103.6	87.8	95.3	102.5	122.6	94.2	110.6	118.5	37,258	462,284	28,561	61,590	106.8	
1929 monthly average	89.0	87.5	96.3	98.8	111.8	91.4	102.6	105.8	128.7	97.2	120.3	122.0	42,176	484,170	35,501	63,407	101.3	
<b>1929</b>																		
May	90.0	87.5	96.9	98.7	109.7	91.6	103.7	111.2	127.6	99.1	124.0	131.0	44,067	484,464	34,686	63,841	106.0	
June	88.2	87.6	97.2	99.6	108.6	93.9	104.1	110.4	130.8	98.2	123.9	128.2	43,814	484,637	36,795	63,904	108.8	
July	87.9	87.3	97.7	100.4	112.8	93.0	103.4	108.8	129.7	100.3	124.2	131.0	43,761	483,142	34,984	63,372	115.0	
August	88.8	87.7	99.0	101.4	116.5	93.0	105.1	106.5	133.2	99.2	125.0	127.0	43,736	485,330	38,978	63,632	120.9	
September	91.1	89.3	99.9	102.0	117.7	94.2	105.8	105.6	133.4	97.7	124.0	119.0	41,555	494,311	38,239	63,516	115.0	
October	90.8	89.7	99.2	101.4	115.1	93.1	103.8	102.9	133.6	98.1	119.2	99.0	40,599	496,578	38,620	63,713	114.7	
November	86.8	87.6	96.1	99.9	116.8	90.9	102.7	97.0	130.0	94.7	108.8	93.0	39,591	485,018	37,510	63,877	105.2	
December	83.5	84.2	91.1	97.3	116.3	89.2	99.3	91.5	126.8	90.1	106.2	98.0	39,016	465,915	34,093	63,946	94.1	
<b>1930</b>																		
January	82.9	82.3	89.8	96.2	113.1	86.2	97.8	92.0	122.9	90.0	109.1	106.5	39,823	455,480	33,081	64,356	80.2	
February	83.0	81.9	90.0	96.4	112.4	87.2	98.0	92.8	125.2	90.7	107.4	108.0		453,284	32,938	64,662	79.8	
March	82.0	81.8	88.6	97.8	112.9	87.5	96.9	93.1	123.0	90.6	106.7	108.5		452,472		64,954	79.1	
April	80.4	80.3	86.8	97.6	112.6	88.6	95.0		124.3			110.5		444,133		65,778		
May	78.3	79.0	85.6	95.7	109.4	87.4	93.4		126.1			109.2		436,926		67,036		
June	75.6	77.5	84.1	93.5	107.2	86.2	91.2		122.5			99.0		428,678		68,510		
July		74.6				83.3	85.7		118.1					412,693				
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Compiled from data furnished by the Maryland Commission of Labor and Statistics from about 250 manufacturers each month, link relatives being used for identical concerns from month to month. Monthly reports show details by industries. Monthly figures from 1924 appeared in the July, 1928, issue (No. 83), p. 24.

<sup>2</sup> Compiled by the Massachusetts Department of Labor and Industries, Division of Statistics, from about 1,000 firms each month. Data are connected by the chain relative method.

<sup>3</sup> Compiled by the New York State Department of Labor from reports of 1,648 firms employing more than one-third of the factory workers of New York State. Monthly data from 1914 appeared in the July, 1928, issue (No. 83), p. 23.

<sup>4</sup> Compiled by the Federal Reserve Bank of Philadelphia from reports of about 1,000 plants each month in the States of New Jersey, Pennsylvania, and Delaware. Since August, 1928, figures for New Jersey are from the New Jersey Department of Labor.

<sup>5</sup> Compiled by the Illinois Department of Labor from reports of manufacturing establishments, based on the pay roll nearest the 15th of the month.

<sup>6</sup> Compiled by the Industrial Commission of Wisconsin, based on link relatives from reports of manufacturing firms. The data have been recomputed to a 1923 base, the monthly figures from 1923 appearing in the July, 1928, issue (No. 83), p. 23.

<sup>7</sup> Compiled from data furnished by the Iowa Bureau of Labor from reports of about 300 firms, the index being compiled by the link-relative method on reports of identical firms from month to month. Monthly data from 1922 appeared in the July, 1928, issue (No. 83), p. 24.

<sup>8</sup> Compiled by the Cleveland Chamber of Commerce from reports of representative manufacturers in Cleveland.

<sup>9</sup> Compiled by the Milwaukee Public Employment Office from reports of 50 identical manufacturers, 4 of which are now out of business. Data are for the end of the month and monthly figures from 1921 appeared in the July, 1928, issue (No. 83), p. 24.

<sup>10</sup> Compiled by the Oklahoma Department of Labor from reports of 710 establishments. Monthly data from 1924 appeared in the July, 1928, issue (No. 83), p. 24.

<sup>11</sup> Compiled by the Ohio State University, Bureau of Business Research, from reports of about 600 manufacturers in Ohio. Details by industries and by cities are given in the bureau's press-releases.

<sup>12</sup> Compiled by the U. S. Civil Service Commission, giving number of civilian employees carried on rolls at end of each month. Details by departments, with data on additions and separations, are given in the monthly reports.

<sup>13</sup> Compiled by the Ohio State University, Bureau of Business Research, based on reports from firms engaged in general contracting throughout Ohio. Employment in the general contracting industry in Ohio follows very closely the trend in the entire construction industry in the State. Wage earners in this report include mechanics, artisans, laborers, and foremen, and part-time workers are reduced to a full-time basis for the week including the 15th of each month, which is used as the monthly index. The bureau also issues an index which eliminates seasonal variation.

<sup>14</sup> Data on Detroit employment from the Detroit Board of Commerce, covering about two-thirds of the working population of that city. Figures for the last day of the month are given here.

<sup>15</sup> 7 month's average, June to December, inclusive.

<sup>16</sup> 9 month's average, from April to December, inclusive.

Table 90.—EMPLOYMENT AGENCIES, TRADE-UNIONS, AND INDUSTRIAL DISPUTES

YEAR AND MONTH	EMPLOYMENT AGENCIES <sup>1</sup>							TRADE-UNION EMPLOYMENT <sup>2</sup>		EM- PLOY- MENT IN CAN- ADA <sup>3</sup>	INDUSTRIAL DISPUTES <sup>4</sup>			
	United States average	Eastern States	Central States	Southern States	Western States	Illinois	Wisconsin	Canada	United States		Canada	Dis- putes	Workers involved	Man-days lost in month
	Number of applicants per 100 jobs							Per cent of total membership		Rel. to 1926	Number			
1920 monthly av						<sup>6</sup> 101	81	103		95.4				
1921 monthly av	<sup>5</sup> 173	<sup>5</sup> 131	<sup>6</sup> 235	<sup>5</sup> 164	<sup>6</sup> 95	218	121	126		87.5	88.8			
1922 monthly av	127	106	146	125	70	134	92	117		93.0	89.0			
1923 monthly av	105	100	131	109	60	111	92	109		95.1	95.8			
1924 monthly av	143	127	180	130	69	153	113	126		93.0	93.4			
1925 monthly av	140	122	175	122	64	147	113	114		93.0	93.6			
1926 monthly av	127	119	160	108	66	142	112	119		94.9	99.6			
1927 monthly av	135	142	159	128	71	174	125	140		95.1	104.6	63	121, 117	3, 149, 950
1928 monthly av	134	159	151	183	70	161	133	135	86.9	95.6	111.6	45	90, 392	2, 629, 746
1929 monthly av	137	141	150	203	77	153	130	142	88.1	94.3	119.0	43	28, 402	831, 268
<b>1928</b>														
January	170	192	203	188	87	239	182	156	82.2	93.2	100.7	63	81, 880	2, 128, 028
February	175	208	189	222	75	208	173	156	81.8	93.0	102.0	58	103, 496	2, 145, 342
March	154	171	166	264	65	173	161	149	82.0	93.5	102.6	47	76, 069	2, 291, 337
April	137	146	147	219	69	155	131	132	84.0	94.8	102.3	48	129, 708	4, 806, 232
May	128	138	135	204	66	146	110	123	87.0	96.3	106.8	56	133, 546	3, 455, 499
June	121	147	161	221	66	168	123	126	89.0	96.8	113.8	46	143, 137	3, 670, 878
July	137	151	150	174	80	151	113	122	88.0	97.5	117.7	42	132, 187	3, 337, 386
August	129	223	132	121	69	138	107	109	91.0	97.6	119.3	42	105, 760	3, 553, 750
September	107	120	126	91	63	130	104	110	90.0	97.8	119.1	34	62, 862	2, 571, 982
October	117	128	133	142	62	133	116	123	91.0	96.9	118.8	42	41, 474	1, 304, 913
November	134	142	125	153	71	144	140	150	90.0	95.8	118.9	38	38, 745	1, 300, 362
December	100	146	146	193	69	144	138	142	87.0	93.4	116.7	29	35, 842	991, 238
<b>1929</b>														
January	156	154	164	283	80	182	138	168	85.0	93.7	109.1	36	39, 569	951, 914
February	153	152	164	267	81	169	142	158	85.0	93.2	110.5	35	40, 306	926, 679
March	142	144	153	215	76	156	138	148	86.0	94.0	111.4	37	40, 516	1, 074, 468
April	128	126	134	200	73	134	117	127	88.0	94.5	110.4	53	52, 445	1, 429, 437
May	126	126	126	198	93	124	106	127	89.0	96.0	116.2	73	64, 853	1, 727, 694
June	128	127	140	185	71	139	120	130	91.0	97.1	122.2	57	58, 152	1, 627, 565
July	131	139	141	174	83	148	115	134	91.0	97.0	124.7	53	15, 589	1, 062, 428
August	124	136	135	178	75	137	117	119	91.0	96.5	127.8	43	6, 714	358, 148
September	114	121	132	148	67	136	117	129	90.0	96.3	126.8	49	8, 132	244, 864
October	127	132	148	164	71	147	128	143	89.0	94.0	125.6	31	6, 135	272, 018
November	153	153	177	205	75	181	160	164	88.0	90.7	124.6	32	6, 067	204, 457
December	166	187	181	222	77	177	163	154	84.0	88.6	119.1	21	2, 343	95, 541
<b>1930</b>														
January	201	231	231	250	101	257	196	160	80.0	89.2	111.2	21	5, 316	182, 202
February	201	213	225	271	91	246	186	164	78.0	93.2	111.6	33	6, 562	436, 788
March	180	217	189	254	83	209	177	157	88.5	110.2	110.2	30	5, 461	287, 446
April	162	177	177	217	74	190	159	145	79.0	89.2	107.8	39	6, 776	182, 713
May	164	172	173	243	93	196	135	148	80.0	91.0	111.4			
June	186	202	209	240	81	224	155		80.0	89.7	116.5			
July						262			79.0					
August														
September														
October														
November														
December														

<sup>1</sup> Compiled from weekly reports to the U. S. Department of Labor, Employment Service, showing the number of workers and jobs registered at State and municipal employment agencies. Eastern States included in the report are Connecticut, District of Columbia, Massachusetts, New Jersey, New York, and Rhode Island. (Delaware, Maryland, and Pennsylvania, now reporting, are excluded to show true comparison.) Central States are Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin. Southern States include Alabama, Arkansas, Georgia, Kentucky, North Carolina, Oklahoma, Texas, and Virginia. Western States include Arizona, California, Colorado, Idaho, Oregon, and Washington; Montana is included beginning with March, 1922, its figures being so small as not to affect the total. Data for Illinois compiled by the Illinois Department of Labor and data for Wisconsin by the Industrial Commission of Wisconsin. These data were first shown in the April, 1929, SURVEY (No. 92), p. 22. Data for Canada compiled from weekly reports to the Dominion Department of Labor, Employment Service of Canada. The original data covering applications and job vacancies from which the Canadian data were compiled were given in the February, 1928, SURVEY, p. 110.

<sup>2</sup> Data for the United States compiled from reports of trade-union unemployment as published by the American Federation of Labor, the figures above having been inverted to show trade-union employment. Data for Canada from the Dominion Department of Labor, Employment Service of Canada, data covering yearly averages 1915 to 1919, inclusive, were given in the February, 1928, SURVEY, p. 109.

<sup>3</sup> Compiled by the Dominion Department of Labor covering employment activity in manufacturing, construction, mining, logging, and services. These data are shown as of the first of the month. This table appeared in the April, 1929, SURVEY (No. 92), p. 22.

<sup>4</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, through the cooperation of the Conciliation Service and other outside agencies. The data show the number of industrial disputes in effect at the end of the month, disputes involving fewer than six workers and those lasting less than one day being omitted. The number of work-days lost relates only to workers directly affected and is computed by multiplying the number of workers so affected by the length of the disputes measured in working-days as normally worked by the industry or trade in question. Figures given include only those disputes which have been verified by the bureau.

<sup>5</sup> 6 months' average, July to December, inclusive.

<sup>6</sup> 11 months' average, February to December, inclusive.



Table 92.—WEEKLY EARNINGS OF FACTORY LABOR

[Base year in bold-faced type]

YEAR AND MONTH	U. S. TOTALS, 23 INDUSTRIES <sup>1</sup>					BY STATES						U. S. TOTALS, 23 INDUSTRIES <sup>1</sup>					NEW YORK STATE <sup>2</sup>	ILLINOIS <sup>4</sup>	WISCONSIN <sup>5</sup>	OKLAHOMA <sup>6</sup>
	Grand total	Men			Women	New York <sup>2</sup>	Illinois <sup>4</sup>	New Jersey <sup>3</sup>	Pennsylvania <sup>3</sup>	Delaware <sup>3</sup>	Wisconsin <sup>5</sup>	Grand total	Men			Women				
		Total	Skilled	Unskilled									Total	Skilled	Unskilled					
	Relative to July, 1914					Relative to 1914		Relative to 1923			Dollars									
1914 monthly av.	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>						<b>\$12.54</b>	<b>\$13.30</b>	<b>\$14.16</b>	<b>\$10.71</b>	<b>\$7.84</b>	<b>\$12.48</b>				
1915 monthly av.					103.0					48.6						12.85				
1916 monthly av.					115.6					57.3						14.43				
1917 monthly av.					131.2					67.0						16.37				
1918 monthly av.					163.1					85.3						20.35				
1919 monthly av.					188.3					95.9						23.50				
1920 monthly av.	<b>235.4</b>	<b>238.5</b>	<b>235.2</b>	<b>253.1</b>	<b>233.0</b>	225.6				116.5	<b>29.51</b>	<b>31.72</b>	<b>33.31</b>	<b>27.11</b>	<b>18.27</b>	28.15		<b>28.58</b>		
1921 monthly av.	188.0	188.3	187.5	191.2	205.0	206.1				92.8	23.57	25.05	26.55	20.48	16.07	25.72		22.80		
1922 monthly av.	<b>191.8</b>	<b>193.2</b>	<b>193.7</b>	<b>191.7</b>	<b>204.0</b>	200.6	<b>80.1</b>			90.0	<b>24.06</b>	<b>25.69</b>	<b>27.42</b>	<b>20.53</b>	<b>15.99</b>	25.04	<b>\$24.70</b>	<b>21.66</b>		
1923 monthly av.	211.3	212.6	212.7	211.1	222.7	218.3	95.4	<b>100</b>	<b>100</b>	<b>100</b>	26.50	28.27	30.12	22.61	17.46	27.24	27.07	23.97		
1924 monthly av.	209.5	212.9	212.1	213.4	215.4	221.8	97.1	100	97	101	101.5	26.27	28.31	30.04	22.86	16.89	27.68	27.55	24.40	<b>\$26.57</b>
1925 monthly av.	214.8	220.0	218.2	220.5	220.3	226.4	98.4	101	98	99	105.6	25.94	29.26	30.90	23.62	17.27	28.26	27.93	25.56	26.91
1926 monthly av.	216.7	222.6	220.3	223.5	220.2	232.5	101.0	106	101	101	107.1	27.17	29.61	31.20	23.94	17.26	29.02	28.67	25.67	27.46
1927 monthly av.	217.1	223.1	219.8	227.5	221.0	234.8	100.5	109	101	103	106.2	27.22	29.67	31.13	24.37	17.33	29.30	28.52	25.45	27.44
1928 monthly av.	218.6	227.5	223.9	232.0	218.7	235.9	100.0	110	102	102	108.6	27.42	30.26	31.71	24.85	17.14	29.44	28.56	25.87	27.16
1929 monthly av.	225.5	233.2	229.5	237.0	224.8	240.3	101.0	113	106	106	106.7	28.26	31.01	32.50	25.36	17.62	29.99	28.69	25.90	27.37
<b>1929</b>																				
January	223.9	229.4	225.8	237.4	218.9	238.1	98.0	112	102	104	102.0	28.08	30.51	31.97	25.13	17.16	29.71	28.72	24.45	27.09
February	229.5	237.8	233.6	243.9	227.3	240.3	102.4	114	108	106	113.3	28.53	31.63	33.08	26.12	17.82	29.99	28.42	27.15	27.36
March	227.5	238.2	234.1	243.4	226.5	243.2	101.9	114	109	108	112.4	28.53	31.68	33.15	26.07	17.76	30.35	28.92	26.95	26.81
April	227.5	237.7	233.7	242.3	227.7	240.9	102.1	114	109	107	112.4	28.53	31.61	33.09	25.95	17.85	30.07	28.96	26.94	26.08
May	227.6	236.7	233.3	238.9	229.0	240.6	102.4	114	110	111	111.1	28.54	31.48	33.04	25.99	17.95	30.03	29.05	26.64	29.95
June	225.5	234.3	230.6	237.6	227.8	240.5	103.8	113	108	108	109.0	28.28	31.16	32.66	25.45	17.86	30.02	29.46	26.03	27.31
July	224.0	233.2	229.7	235.6	223.7	238.8	99.2	110	101	102	100.0	28.09	31.01	32.52	25.23	17.54	29.80	28.16	23.96	27.57
August	222.8	230.8	227.3	234.3	222.8	241.0	100.7	113	107	105	106.3	27.94	30.69	32.18	25.09	17.47	30.08	28.57	26.51	27.55
September	227.9	237.3	233.5	241.1	227.2	244.2	99.6	112	104	103	101.6	28.58	31.56	33.06	25.82	17.81	30.47	28.26	25.17	26.50
October	229.7	237.6	234.0	239.4	227.6	241.0	102.8	115	107	107	108.1	28.80	31.60	33.14	25.64	17.84	30.08	29.17	26.70	27.28
November	221.1	220.8	217.6	222.8	217.2	236.7	100.5	113	105	106	105.8	27.72	29.37	30.81	23.86	17.03	29.54	28.52	26.13	27.51
December	219.5	224.3	220.7	227.4	221.4	238.4	99.1	113	102	107	98.2	27.53	29.83	31.25	24.35	17.36	29.75	28.12	24.18	27.38
<b>1930</b>																				
January	219.4	222.0	218.0	227.0	217.1	238.0	99.7	114	102	105	95.9	27.51	29.53	30.87	24.31	17.02	29.70	28.30	24.10	27.21
February	222.5	223.7	219.5	229.6	218.0	235.3	103.1	114	104	105	102.0	27.90	29.75	31.08	24.59	17.09	29.36	29.24	24.84	27.81
March	220.0	220.8	216.8	225.4	214.8	238.8	99.6				106.4	27.59	29.37	30.70	24.14	16.84	29.80	28.25	25.75	
April	220.4	223.6	219.6	227.9	211.6	235.2	100.4					27.64	29.74	31.09	24.41	16.59	29.35	28.49	25.56	
May	215.7	219.5	215.4	222.7	207.5	232.4	99.2					27.05	29.19	30.50	23.85	16.27	29.00	28.14	24.79	
June	211.2	214.7	210.9	216.0	205.7	231.3	96.9					26.48	28.56	29.87	23.13	16.13	28.86	27.49	23.96	
July						227.6	92.6										28.40	26.27		
August																				
September																				
October																				
November																				
December																				

<sup>1</sup> Compiled by the National Industrial Conference Board from reports from 1,678 manufacturing plants employing 506,315 people in January, 1921, and representing 23 industries. The grand total weekly earnings are compiled by weighting the average earnings in each industry by the number of wage earners employed as reported by the census of manufacturers of 1919, but as it was impossible to obtain the necessary weighting factors for the classes of labor, the latter averages are unweighted; hence the relative number for the grand total sometimes is lower than the relative number of any class, owing to the different methods of computation.

<sup>2</sup> Figures represent reports from 1,648 firms in New York State employing more than one-third of the factory workers of the State, as reported by the New York State Department of Labor. The 1914 average upon which the index numbers are calculated is an average of the 7 months, June to December, 1914, inclusive. As originally published by the New York Department of Labor, the index numbers are based on June, 1914, and have been recalculated to the 7-month average.

<sup>3</sup> Compiled by the Federal Reserve Bank of Philadelphia from reports of about 1,000 plants each month in the States of New Jersey, Pennsylvania, and Delaware. Since August, 1926, figures for New Jersey are from New Jersey State Department of Labor.

<sup>4</sup> Compiled by the Illinois Department of Labor from reports of manufacturing establishments, taken from the pay roll nearest the 15th of the month.

<sup>5</sup> Compiled by the Industrial Commission of Wisconsin from reports of about 850 manufacturing establishments in Wisconsin. Monthly data on earnings from 1923 were given in the July, 1928, issue (No. 83), p. 23. Relatives prior to 1923 are recomputed from old index on 1915 base.

<sup>6</sup> Compiled by the Oklahoma Department of Labor from reports of 710 establishments. Monthly data from 1924 appeared in the July, 1928, issue (No. 83), p. 24.

<sup>7</sup> July, 1914.

<sup>8</sup> Average of last 7 months of the year.

<sup>9</sup> Average of last 6 months of the year.



Table 93.—PAY ROLL AND HOURS IN FACTORIES

YEAR AND MONTH	FACTORY PAYROLLS, INDEXES BY GROUPS <sup>1</sup>															HOURS OF WORK <sup>2</sup>		
	Total	Iron and steel	Machinery	Textiles	Food products	Paper and printing	Lumber and products	Transport. equip.		Leather and products	Cement, clay, and glass	Nonferrous metals	Chemicals		Rubber products	Tobacco products	Nominal	Actual
								Group	Auto-mobiles				Group	Petro-chem. ref.				
	Relative to 1923-1925															Hours per week		
1914 monthly average.....																	55.0	51.5
1918 monthly average.....	98.1	98.0	104.1	90.0	98.0	74.2	89.2	88.8	74.9	99.0	72.6	99.3	100.1		107.2		50.0	48.7
1920 monthly average.....	118.1	123.8	135.6	107.8	109.2	100.3	109.2	111.5	90.4	105.9	93.6	130.4	113.7		124.6		49.7	45.5
1921 monthly average.....	76.8	55.8	69.6	89.2	93.3	83.3	68.0	72.7	48.7	87.0	67.4	66.7	66.9		104.6		49.7	45.5
1922 monthly average.....	81.1	69.9	72.8	91.0	90.2	86.1	82.1	76.4	66.2	96.0	73.2	82.3	73.7		99.2		50.0	49.2
1923 monthly average.....	103.4	103.8	107.0	105.8	100.1	96.1	100.0	107.1	100.8	106.8	98.9	105.3	99.8	102.1	101.5	104.2	49.9	49.2
1924 monthly average.....	95.7	96.7	92.6	94.4	100.5	99.7	98.4	93.2	90.2	95.5	100.7	94.8	96.3	95.2	92.7	99.4	49.7	46.8
1925 monthly average.....	100.9	99.4	100.4	99.8	99.4	104.2	101.6	99.7	109.1	97.8	100.3	99.9	103.9	102.7	105.8	96.3	49.9	48.2
1926 monthly average.....	104.3	104.2	111.9	98.4	101.2	110.4	102.0	99.1	105.2	98.1	101.5	103.0	111.0	111.4	106.2	92.1	49.8	48.2
1927 monthly average.....	102.0	98.5	103.5	104.1	102.4	110.1	95.1	91.3	93.5	98.6	96.2	100.3	109.7	112.2	108.5	91.1	49.6	47.9
1928 monthly average.....	101.8	99.9	104.7	96.4	102.5	109.8	90.5	97.2	117.6	92.4	90.4	107.1	106.0	105.7	114.8	88.4	49.6	47.9
1929 monthly average.....	107.2	106.0	125.6	99.6	104.5	114.5	90.6	103.5	122.0	93.1	87.0	115.2	113.4	120.2	111.0	87.7	49.6	48.7
<b>1928</b>																		
May.....	100.8	102.1	104.2	92.0	100.2	108.9	86.5	100.9	124.2	82.9	94.0	105.3	103.4	101.6	109.3	84.1	49.4	47.8
June.....	100.9	99.6	106.1	90.9	102.8	109.0	91.3	98.5	117.6	87.1	94.0	104.8	102.9	104.2	112.5	89.7	49.7	47.7
July.....	98.3	93.8	102.5	85.8	103.1	107.3	88.3	94.8	115.2	94.3	91.0	101.2	102.5	107.1	114.8	84.9	49.6	47.5
August.....	102.5	99.8	105.3	90.2	101.5	107.5	91.5	100.4	128.3	100.4	95.1	106.7	103.6	108.6	117.9	88.7	49.6	47.9
September.....	104.2	99.1	106.0	94.9	104.3	100.2	93.4	100.1	129.0	99.6	92.8	109.4	106.3	109.3	123.8	92.9	49.8	48.2
October.....	107.5	105.1	111.3	101.0	106.0	111.5	95.8	104.7	134.1	95.9	94.1	116.6	109.2	107.8	120.4	95.2	49.6	48.0
November.....	103.6	105.1	110.3	96.7	104.9	111.7	94.4	96.1	114.5	80.1	90.7	118.5	108.2	107.1	112.4	94.1	49.6	47.8
December.....	104.2	103.3	114.0	100.3	106.3	113.7	90.8	95.8	112.4	86.0	88.4	120.5	108.1	107.2	114.1	94.3	49.6	48.5
<b>1929</b>																		
January.....	100.7	101.3	112.3	97.0	102.2	111.4	83.4	93.6	114.5	90.2	79.0	117.4	106.3	105.3	111.7	76.3	49.7	48.5
February.....	108.0	107.2	120.7	103.6	102.5	113.0	86.5	111.4	147.4	94.5	81.0	124.1	111.3	110.2	123.3	82.3	49.7	49.5
March.....	110.8	108.5	126.5	108.8	101.2	114.9	88.4	113.9	148.2	91.4	84.8	127.6	113.6	112.1	123.6	84.4	49.8	49.5
April.....	111.3	110.5	129.5	103.2	100.4	113.3	90.9	117.0	152.0	87.9	89.3	127.0	117.8	117.1	124.4	86.1	49.8	49.3
May.....	111.2	111.6	131.9	99.3	103.1	114.3	92.8	116.0	147.1	88.1	91.8	123.1	113.1	118.9	125.7	86.1	49.9	49.0
June.....	109.2	109.9	131.6	97.8	105.6	113.6	92.2	107.9	130.9	89.8	92.5	117.0	111.2	120.0	120.6	88.5	49.7	48.5
July.....	104.8	103.5	128.2	90.4	105.6	111.4	93.5	97.1	110.2	97.8	86.1	112.6	111.2	123.3	115.1	87.9	49.6	48.8
August.....	109.4	109.3	127.5	97.4	105.0	112.8	94.7	106.8	128.0	105.0	91.2	113.2	113.0	125.1	110.9	90.6	49.4	48.4
September.....	110.5	108.9	127.9	103.0	108.1	116.3	96.6	103.3	120.3	104.3	91.3	112.1	116.0	129.3	104.9	93.4	49.6	49.0
October.....	110.0	107.9	129.0	104.8	108.8	117.8	96.8	99.8	108.0	100.0	90.6	112.5	118.2	129.4	100.9	94.2	49.4	49.4
November.....	102.0	100.0	121.6	96.2	105.5	117.2	89.2	89.4	84.3	83.9	86.4	99.6	115.6	126.3	85.9	94.3	49.3	46.9
December.....	98.7	93.5	119.9	93.8	105.5	118.2	82.7	85.6	72.9	84.1	80.2	96.1	114.0	124.8	85.0	88.8	49.2	47.4
<b>1930</b>																		
January.....	94.2	90.5	113.8	92.2	102.5	114.9	72.8	80.9	74.0	85.4	67.3	91.5	109.3	121.1	88.9	77.0	49.2	46.4
February.....	97.4	98.1	115.2	94.1	101.6	114.9	72.6	89.8	92.7	86.2	70.2	91.7	110.0	125.0	92.1	80.0	49.3	46.7
March.....	98.0	97.1	115.1	96.6	99.7	115.0	74.6	90.6	97.3	85.2	73.4	91.0	111.6	123.1	90.0	81.0	49.0	46.3
April.....	96.7	97.7	113.4	89.3	99.7	113.5	73.8	92.0	100.8	81.6	77.1	88.3	110.9	122.1	94.5	77.1	48.8	46.1
May.....	94.1	95.5	108.3	82.7	100.7	113.3	73.2	91.1	101.7	75.6	76.9	84.4	106.6	120.5	95.4	82.1	48.9	45.2
June.....	90.3	90.8	102.7	77.8	102.3	111.9	70.9	83.8	89.2	73.8	76.1	85.0	105.3	121.7	88.3	84.4	48.6	44.5
July.....																		
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

<sup>1</sup> Compiled by the Federal Reserve Board from data collected by the U. S. Department of Labor, Bureau of Labor Statistics, U. S. Department of Commerce, Bureau of the Census and several other Federal and State governmental agencies. The indexes represent in their long-time fluctuations employment and pay rolls in all manufacturing industries, as shown by the Census of Manufactures from 1919 to 1927. Necessary adjustments will be made to succeeding censuses. In their current monthly fluctuations they represent 50 industries employing in the aggregate in 1927, 6,600,000 wage earners or about 78 per cent of the total engaged in manufacturing and accounted for about 80 per cent of the factory pay rolls of wage earners for that year. The industries are classified into 14 industrial groups, of which 13 are shown here. Each of the individual industry series, of which the indexes are composed, is adjusted to fluctuations shown by the census. For full description of these indexes see the *Federal Reserve Bulletin* for November, 1929, pp. 706-716.

<sup>2</sup> Compiled by the National Industrial Conference Board from reports from 1,678 manufacturing plants employing 506,315 people in January, 1921, and representing 23 industries. The nominal hours per week represent the weighted number of hours the plants are supposed normally to operate, while the actual hours represent the average man hours worked each week.

<sup>3</sup> Average of last 7 months of the year.

<sup>4</sup> Average of last 6 months of the year.

Table 94.—FACTORY OPERATIONS AND LABOR TURNOVER

YEAR AND MONTH	TIME OPERATED <sup>1</sup>													LABOR TURNOVER <sup>1</sup>					
	Total, 12 groups	Food and kindred products	Textiles and their products	Iron and steel and their products	Lumber and its manufacture	Leather and its finished products	Paper and printing	Chemicals and other products	Stone, clay, and glass products	Nonferrous metals <sup>2</sup>	Tobacco manufacture	Vehicles for land transportation	Miscellaneous industries	Ratio, actual time to capacity <sup>3</sup>	Accessions	Separations			
																Total	Voluntary quits	Lay offs	Discharges
Per cent of full time													Per cent	Per cent of number on pay roll (annual basis)					
1924 monthly average.....	91	87	88	89	94	90	95	90	92	90	91	93	92	72			32.0		
1925 monthly average.....	93	88	93	93	95	91	95	95	91	96	92	96	94	77			37.0		
1926 monthly average.....	95	93	94	96	97	93	97	97	94	96	95	97	96	82	54.4	47.1	34.5	6.1	6.6
1927 monthly average.....	97	97	98	95	97	96	98	97	96	96	95	98	96	84	39.9	39.5	25.6	8.4	5.5
1928 monthly average.....	97	97	96	95	97	97	98	98	97	95	98	97	97	84	44.5	37.1	25.8	6.5	4.8
1929 monthly average.....	98	98	97	97	97	97	99	98	98	95	99	99	98	89	52.2	45.2	32.6	7.2	5.4
<b>1928</b>																			
January.....	96	96	96	93	95	97	98	98	95	96	96	98	95	81	33.4	27.8	15.7	8.5	3.6
February.....	96	96	96	94	96	98	98	98	96	97	94	98	95	82	31.6	27.6	15.1	7.9	4.6
March.....	96	96	95	95	96	98	99	99	96	96	94	98	96	83	35.9	32.8	20.1	8.4	4.3
April.....	96	96	93	95	96	94	98	100	97	97	93	99	97	83	40.0	38.2	26.0	7.1	5.1
May.....	96	97	94	96	95	95	98	98	98	97	94	98	96	84	47.2	41.5	28.2	8.3	5.0
June.....	97	97	95	95	96	97	98	97	98	98	95	99	96	84	41.3	39.5	27.1	7.5	4.9
July.....	96	97	95	95	96	97	98	97	97	96	95	98	97	84	46.9	38.0	27.2	5.9	4.9
August.....	97	97	95	96	97	98	98	98	97	97	94	98	97	84	55.7	42.3	31.9	5.1	5.3
September.....	97	99	96	96	98	98	99	98	97	97	96	98	98	87	56.9	50.6	40.3	5.0	5.3
October.....	98	99	97	97	98	96	99	99	98	98	97	99	98	88	57.1	41.9	31.9	4.7	5.3
November.....	97	99	96	96	97	94	99	99	97	98	96	98	98	86	50.1	35.3	25.6	4.8	4.9
December.....	98	98	98	97	98	96	99	98	98	98	98	99	99	87	38.1	29.2	20.1	4.7	4.4
<b>1929</b>																			
January.....	97	97	97	97	95	98	99	98	96	98	94	99	98	88	58.6	36.2	26.7	4.2	5.3
February.....	98	98	98	97	96	98	99	97	97	98	94	99	97	91	56.9	41.7	31.0	4.7	6.0
March.....	98	98	99	97	95	97	99	99	97	98	93	99	98	90	61.2	49.2	36.8	5.7	6.7
April.....	98	97	98	98	97	96	99	100	98	99	95	99	98	91	70.2	55.7	43.3	5.5	6.9
May.....	98	98	98	98	97	97	99	98	99	99	95	99	98	91	59.9	52.1	40.8	5.7	5.6
June.....	98	98	97	97	97	98	99	98	98	99	97	99	97	91	60.9	51.1	39.5	5.4	6.2
July.....	97	98	96	96	97	98	99	98	98	98	95	99	97	89	61.4	46.5	35.7	5.0	5.8
August.....	98	98	97	97	98	99	99	96	98	98	95	99	98	91	54.3	48.5	38.4	4.8	5.3
September.....	98	99	97	97	98	98	99	97	98	98	95	98	98	91	59.7	50.6	38.2	6.3	6.1
October.....	98	99	97	97	98	98	100	96	98	98	96	98	98	90	46.0	42.6	28.5	9.4	4.7
November.....	97	98	95	95	96	93	99	98	98	96	95	97	97	86	23.7	38.4	19.4	15.3	3.7
December.....	96	98	96	94	94	95	99	98	97	97	97	97	96	84	14.6	29.3	12.7	14.2	2.4
<b>1930</b>																			
January.....	95	97	93	93	93	95	98	98	95	95	93	96	95	83	23.7	28.1	13.1	12.2	2.8
February.....	95	98	94	93	91	95	98	98	95	96	91	97	95	83	26.9	33.0	16.0	13.8	3.2
March.....	95	97	93	93	91	95	98	98	96	95	92	97	94	83	23.0	31.9	16.3	12.1	3.5
April.....	94	97	92	91	91	95	98	99	96	94	88	95	94	82	24.3	35.1	17.7	14.1	3.3
May.....	94	97	91	90	91	93	98	99	96	93	91	96	94	80	24.7	34.7	17.7	13.9	3.1
June.....	93	97	90	88	90	92	98	97	95	92	93	94	88	78	19.7	30.8	14.8	13.6	2.4
July.....																			
August.....																			
September.....																			
October.....																			
November.....																			
December.....																			

<sup>1</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, from reports of over 9,000 firms, employing almost 3,000,000 people showing the percentage of full time worked by the force actually employed. Details for individual industries of each group and percentage of firms operated at full time are given in "Employment Selected in Industries," issued each month by the Bureau of Labor Statistics.

<sup>2</sup> These data, compiled by multiplying the percentage of capacity operated, as shown in the following table, by the percentage of time operated, as shown in this table, indicate the approximate actual employment time relative to capacity.

<sup>3</sup> Compiled by the Metropolitan Life Insurance Co. up to July 1, 1929, and by the Department of Labor, Bureau of Labor Statistics, thereafter. These data cover 135 companies employing about 600,000 wage earners, for the period 1919-1925. Beginning with 1926 data are from 300 firms up to the beginning of 1930. Approximately 450 plants employing 750,000 employees report at the present time. Rates are based on median reports rather than arithmetic mean, to throw out exceptional cases. The annual turnover rates were derived from the monthly rates by multiplying each month by 365 (366 for leap years) and dividing by the number of calendar days in the month represented. The total separation rate is the arithmetic sum of the last 3 columns. Monthly data on voluntary quits from 1929 appeared in the March, 1927, issue (No. 67), p. 25.

<sup>4</sup> Average of last 10 months of year.

<sup>5</sup> Includes enameled ware, bronze, and copper products.

Table 95.—FACTORY FORCES RELATIVE TO CAPACITY <sup>1</sup>

YEAR AND MONTH	Total, 12 groups	Food and kind- red prod- ucts	Textiles and their prod- ucts	Iron and steel and their prod- ucts	Lum- ber and its manu- facture	Leather and its fin- ished prod- ucts	Paper and print- ing	Chem- icals and other prod- ucts	Stone clay, and glass prod- ucts	Non- ferrous metals <sup>2</sup>	To- bacco manu- facture	Vehi- cles for land trans- porta- tion	Miscel- laneous indus- tries
1924 monthly average <sup>3</sup> .....	79	78	78	70	87	73	89	76	84	69	77	82	73
1925 monthly average.....	83	82	85	76	89	82	92	78	85	80	83	86	78
1926 monthly average.....	87	88	87	82	89	87	94	80	88	84	87	89	84
1927 monthly average.....	87	89	91	83	85	89	95	77	85	84	90	87	84
1928 monthly average.....	87	87	88	85	84	87	96	78	85	89	93	92	87
1929 monthly average.....	92	89	89	92	85	92	89	82	85	93	93	96	99
<b>1927</b>													
May.....	87	87	90	84	84	86	94	75	89	84	87	90	85
June.....	87	90	89	84	85	88	93	70	90	84	88	89	82
July.....	87	89	89	78	85	89	93	70	90	83	90	89	81
August.....	87	96	90	84	86	91	94	68	88	83	87	89	82
September.....	89	92	92	83	86	93	95	77	87	83	92	89	83
October.....	88	92	92	83	87	92	96	74	85	84	95	89	83
November.....	85	89	91	81	84	84	98	79	86	82	97	77	84
December.....	84	88	91	80	82	86	97	77	82	82	93	78	85
<b>1928</b>													
January.....	84	86	90	80	81	90	96	78	81	81	90	80	86
February.....	85	87	90	82	81	90	96	81	81	85	90	82	84
March.....	86	86	89	83	82	90	95	86	83	87	91	87	84
April.....	86	85	87	84	83	86	95	85	84	90	90	90	84
May.....	87	85	87	85	82	84	94	75	86	89	90	93	85
June.....	87	86	86	85	85	86	95	73	87	88	91	94	85
July.....	87	86	84	84	83	87	94	74	86	88	92	93	86
August.....	87	86	86	86	85	88	94	74	87	89	95	94	87
September.....	90	89	86	87	87	88	95	78	88	89	96	101	89
October.....	90	90	88	87	85	89	97	77	87	93	97	98	93
November.....	89	90	89	88	86	84	98	77	86	93	97	93	93
December.....	89	90	89	88	84	83	97	76	83	95	93	94	93
<b>1929</b>													
January.....	91	88	89	88	82	87	96	79	82	92	88	105	95
February.....	93	89	91	91	83	89	97	80	84	96	90	107	96
March.....	92	86	91	92	84	88	97	88	84	97	91	102	100
April.....	93	85	91	93	85	87	97	90	86	95	91	101	102
May.....	93	86	90	94	86	90	97	80	88	98	92	102	101
June.....	93	88	90	94	87	89	98	78	89	93	92	99	101
July.....	92	88	88	94	88	93	97	81	86	92	93	94	102
August.....	93	89	88	93	88	97	99	80	86	91	94	99	101
September.....	93	91	89	92	88	98	99	81	86	94	96	96	102
October.....	92	93	89	91	87	97	100	83	87	92	95	98	99
November.....	89	90	89	90	84	94	100	82	84	90	100	81	95
December.....	87	90	88	87	80	91	99	83	80	87	95	74	100
<b>1930</b>													
January.....	87	89	85	88	79	95	99	84	78	84	91	82	96
February.....	87	89	86	89	78	94	98	83	78	86	97	82	94
March.....	87	87	85	89	78	93	98	89	81	84	99	83	92
April.....	87	86	84	89	77	91	97	90	82	83	97	86	91
May.....	85	87	82	88	76	88	97	81	83	80	96	85	88
June.....	84	88	80	86	75	87	97	79	81	80	98	81	86
July.....													
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, from reports of over 9,000 firms, employing almost 3,000,000 people, showing the percentage of their capacity force employed each month. Details for individual industries of each group and percentage of firms operated at full capacity and at full time are given in "Employment in Selected Industries," issued each month by the Bureau of Labor Statistics.

<sup>2</sup> Includes enameled ware, bronze, and copper products.

<sup>3</sup> Average of last 10 months of year.

Table 96.—POSTAL BUSINESS AND ADVERTISING

YEAR AND MONTH	POSTAL RECEIPTS			POSTAL MONEY ORDERS				AIR MAIL	ADVERTISING				
	Total <sup>1</sup>		Sec- ond class <sup>2</sup> (quarterly)	Domestic <sup>3</sup> (50 principal cities)			For- eign <sup>4</sup>		Weight dis- patched ( <sup>5</sup> )	Magazine		Radio <sup>6</sup>	News- paper <sup>7</sup>
	50 selected cities	50 indus- trial cities		Paid		Issued		Lineage ( <sup>8</sup> )		Cost <sup>7</sup>	Use of facili- ties		
			Num- ber	Value	Num- ber	Value							
	Thousands of dollars			Thou- sands	Thous- of dolls.	Thou- sands	Thousands of dollars	Pounds	Thous. of lines	Thousands of dollars	Thous. of lines		
1913 monthly average .....			\$2,525				\$8,526		1,224				
1914 monthly average .....			2,598				6,781		1,137				
1915 monthly average .....			2,684	6,313	\$34,812	1,315	\$11,467	4,464	1,144				
1916 monthly average .....	\$13,543		2,898	7,248	40,592	1,470	12,702	3,667	1,373		61,440		
1917 monthly average .....	14,611		2,860	7,149	44,863	1,610	14,657	3,230	1,490		62,671		
1918 monthly average .....	17,066		3,367	6,784	50,587	1,711	17,837	3,151	1,351		61,067		
1919 monthly average .....	18,380		5,051	7,773	65,356	1,895	21,713	3,030	1,913		83,859		
1920 monthly average .....	20,698		5,914	8,098	72,432	2,059	25,017	2,390	2,458		95,832		
1921 monthly average .....	20,759	<sup>10</sup> \$2,157	4,898	8,211	64,827	2,107	23,351	1,877	1,596		86,661		
1922 monthly average .....	22,901	2,333	6,851	9,409	68,462	2,340	24,544	2,282	1,633		91,131		
1923 monthly average .....	25,085	2,593	7,233	10,391	78,913	2,684	28,005	3,531	1,935		97,402		
1924 monthly average .....	26,335	2,809	7,386	10,797	84,515	2,981	29,831	4,306	2,004		96,469		
1925 monthly average .....	28,831	3,068	7,664	11,161	81,288	3,105	31,094	4,669	2,178	\$12,871	101,916		
1926 monthly average .....	30,605	3,274	8,202	11,008	87,304	3,175	33,176	5,579	<sup>11</sup> 19,948	14,787	105,989		
1927 monthly average .....	31,337	3,359	8,141	11,120	86,491	3,292	34,060	5,906	2,529	15,901	92,936		
1928 monthly average .....	31,445	3,381	7,557	11,048	86,344	3,425	34,903	6,006	2,506	15,919	\$852 98,772		
1929 monthly average .....	32,348	3,469		11,501	90,963	3,697	37,656	6,237	2,750	17,479	1,561 102,427		
<b>1929</b>													
September .....	30,549	3,303	6,744	10,328	86,974	3,407	35,916	6,392	658,984	2,542	16,548	1,599	105,702
October .....	35,743	3,737		12,690	107,699	3,843	39,963	5,408	705,772	3,046	20,319	1,948	118,616
November .....	32,723	3,364		11,829	97,825	3,745	39,085	5,744	624,750	3,074	20,070	1,908	112,958
December .....	40,785	4,565		12,850	101,453	4,096	40,876	12,776	618,991	2,882	18,420	1,969	100,202
<b>1930</b>													
January .....	32,199	3,561		11,266	86,593	3,805	38,356	5,382	518,398	1,999	12,411	1,989	88,873
February .....	29,457	3,473		10,165	78,066	3,597	35,617	4,790	556,913	2,382	16,808	1,873	81,702
March .....	32,475	3,562		11,791	88,103	4,134	39,827	5,511	625,174	2,738	18,687	2,295	97,868
April .....	32,644	3,524		11,562	90,646	3,828	37,803	4,859	676,255	3,141	21,862	2,188	101,259
May .....	31,370	3,335		11,191	87,661	3,813	38,266	5,040	702,499	3,022	20,399	2,300	100,402
June .....	27,956	3,062		10,619	82,691	3,554	35,395	5,413	680,814	2,752	19,614	2,033	88,702
July .....	26,761	3,157							693,627	1,986	14,316	2,074	72,007
August .....											12,075		
September .....													
October .....													
November .....													
December .....													

<sup>1</sup> Data from U. S. Post Office Department, comprising receipts for transporting all classes of mail. The 50 selected cities cover the largest cities in the country, the industrial cities comprising the 50 most representative industrial cities in the next largest group. The war revenue act of Oct. 3, 1917, provided for an increase in the rate for first-class letter mail from 2 cents per ounce or fraction thereof prior to Nov. 1, 1917, to 3 cents per ounce or fraction thereof, from Nov. 1, 1917, to July 1, 1919, and an increase of the rate on postal and post cards from 1 cent to 2 cents each during the same period. Since July 1, 1919, the old rates on first-class mail have been restored. Under this act a stamp tax of 1 cent for each 25 cents postage charge or fraction thereof is collectible on parcel-post matter. Effective Apr. 15, 1925, the new postal rates applicable almost entirely to matter other than first class have operated to increase the magnitude of these data, thereby affecting their comparability from this point forward.

<sup>2</sup> Note that these data from U. S. Post Office Department represent quarters ending in the months specified and the annual figures represent quarterly averages for each year, not monthly averages. Second-class mail comprises regular mailings of periodicals. The war revenue act of Oct. 3, 1917, provided for a series of graduated annual rate increases on second-class mail as follows, compared with a flat rate of 1 cent per pound previous to July 1, 1918. From July 1, 1918, to June 30, 1919,  $1\frac{1}{4}$  cents, and since July 1, 1919,  $1\frac{1}{2}$  cents per pound, these changes applying regardless of zone or distance, to portions of publications devoted to reading matter. For the advertised portions the country was divided into eight zones, each with a graduated rate and its corresponding annual increase, beginning with July 1, 1918, and reaching the maximum on July 1, 1921, making, for the first time, a differentiation between the rates on reading and advertising matter.

<sup>3</sup> Total of 50 cities transacting two-thirds of the total money-order business of the country from the U. S. Post Office Department. Money orders paid include, in addition to those both issued and payable in the 50 cities, those presented for payment but issued at any of the other offices in the United States and the 22 foreign countries, mostly in North America and West Indies, to which domestic postage rates apply.

<sup>4</sup> Money orders issued to 67 principal foreign countries, representing practically the total international money orders issued by U. S. Post Office Department.

<sup>5</sup> Compiled by the U. S. Post Office Department, showing total weight of mails dispatched. Monthly figures since the inauguration of the air mail in February, 1923, appeared in the June, 1923, issue (No. 82), p. 22. Details for each route showing miles of route and service, frequency of trips, and payments to contractors are given in the department's monthly statistical report on air mail.

<sup>6</sup> Compiled by *Printer's Ink* and represents magazine advertising lineage of leading magazines of the country. The data for the last four years cover the lineage in industrial magazines. For earlier years the magazines covered are not entirely identical but represent the field with equal thoroughness.

<sup>7</sup> Compiled by the *Denny Publishing Co.* and published in *National Advertising Records*. Data on magazine advertising represent the grand total cost of all advertising for all classes in national magazines.

<sup>8</sup> Data on radio broadcasting include only the *National Broadcasting System* and *Columbia Broadcasting System* and cover charges for use of facilities only, talent not being included.

<sup>9</sup> Compiled by the *New York Evening Post* from 22 identical cities: New York, Chicago, Philadelphia, Detroit, Cleveland, St. Louis, Boston, Baltimore, Los Angeles, Buffalo, San Francisco, Milwaukee, Washington, Cincinnati, New Orleans, Minneapolis, Indianapolis, Columbus, Louisville, St. Paul, Birmingham, and Houston. For the years 1916 to 1918 no reports were available for Boston, Louisville, Houston, and Columbus. The totals for those years were computed from the actual reports of the 18 other cities, allowing 13.85 per cent of the total to the four missing cities, the average ratio of those cities to the total in the subsequent years.

<sup>10</sup> 6 months' average, July to December, inclusive.

<sup>11</sup> 11 months' average, February to December, inclusive.

Table 97.—MAIL-ORDER AND CHAIN-STORE SALES

YEAR AND MONTH	MAIL-ORDER HOUSE SALES <sup>1</sup>			GROCERIES <sup>2</sup>		FIVE AND TEN <sup>2</sup>		DRUG <sup>2</sup>	
	Total, <sup>2</sup> houses	Sears, Roebuck & Co.	Montgomery Ward & Co.	Actual	With seasonal correction	Actual	With seasonal correction	Actual	With seasonal correction
	Thousands of dollars			Relative to 1923-1925 average					
1919 monthly average .....	\$30,332	\$21,494	\$8,838	45	-----	53	-----	64	-----
1920 monthly average .....	30,409	21,216	9,193	66	-----	64	-----	78	-----
1921 monthly average .....	21,162	14,832	6,330	59	-----	66	-----	79	-----
1922 monthly average .....	22,887	15,181	7,706	69	-----	74	-----	82	-----
1923 monthly average .....	29,182	17,962	11,220	85	-----	88	-----	93	-----
1924 monthly average .....	32,075	18,515	13,560	97	-----	99	-----	98	-----
1925 monthly average .....	36,870	21,529	15,341	118	-----	113	-----	109	-----
1926 monthly average .....	39,330	22,725	16,605	143	-----	125	-----	126	-----
1927 monthly average .....	41,275	24,408	16,867	174	-----	138	-----	143	-----
1928 monthly average .....	48,277	28,998	19,363	208	-----	150	-----	166	-----
1929 monthly average .....	61,249	36,954	24,294	234	-----	164	-----	204	-----
<b>1928</b>									
January .....	37,465	24,240	13,225	187	189	104	140	146	153
February .....	38,392	23,842	14,550	193	194	115	142	148	153
March .....	41,787	23,986	17,801	227	213	133	142	163	158
April .....	40,100	24,159	15,941	202	203	135	147	155	161
May .....	40,074	24,203	15,871	214	206	139	144	164	161
June .....	44,848	25,669	19,179	208	209	139	153	162	164
July .....	40,253	26,276	13,977	197	208	128	148	163	167
August .....	45,994	28,986	17,008	204	215	136	147	169	169
September .....	50,814	30,004	20,810	202	224	144	165	164	177
October .....	63,587	37,002	26,585	230	218	164	148	169	164
November .....	61,628	36,172	25,456	219	215	158	151	169	178
December .....	74,386	42,434	31,952	221	211	305	164	224	190
<b>1929</b>									
January .....	47,400	29,271	18,129	224	219	112	146	179	180
February .....	46,396	27,741	18,655	229	240	122	157	173	186
March .....	53,413	30,796	22,617	237	231	156	167	198	199
April .....	55,619	34,046	21,573	232	224	142	153	190	190
May .....	55,006	35,126	19,880	234	226	166	172	198	195
June .....	57,702	35,748	21,954	222	232	153	174	200	211
July .....	53,309	33,501	19,808	227	231	146	162	206	203
August .....	60,088	35,133	24,955	233	245	161	174	214	214
September .....	63,078	36,950	26,128	216	240	147	168	200	215
October .....	79,256	47,075	32,181	257	244	176	159	209	202
November .....	73,697	43,846	29,851	241	237	174	166	215	227
December .....	90,019	54,220	35,799	257	246	308	165	260	220
<b>1930</b>									
January .....	51,274	32,943	18,331	-----	-----	117	152	-----	-----
February .....	46,691	28,285	18,406	-----	-----	126	162	-----	-----
March .....	47,582	26,950	20,632	-----	-----	144	164	-----	-----
April .....	56,561	32,785	23,776	-----	-----	159	161	-----	-----
May .....	59,350	34,300	25,050	-----	-----	162	174	-----	-----
June .....	54,356	30,367	23,989	-----	-----	141	160	-----	-----
July .....	48,790	30,121	18,639	-----	-----	-----	-----	-----	-----
August .....	-----	-----	-----	-----	-----	-----	-----	-----	-----
September .....	-----	-----	-----	-----	-----	-----	-----	-----	-----
October .....	-----	-----	-----	-----	-----	-----	-----	-----	-----
November .....	-----	-----	-----	-----	-----	-----	-----	-----	-----
December .....	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Sales of two principal mail-order houses include Sears, Roebuck & Co., and Montgomery Ward & Co.

<sup>2</sup> Compiled by the Federal Reserve Board, Division of Research and Statistics, from reports of the following stores in 1927: 34 grocery chains with 29,433 stores and \$1,359,371,361 in sales, 14 ten-cent chains with 2,944 stores and \$560,773,589 in sales, 13 drug chains with 936 stores and \$120,222,761 in sales. In the earlier years the number of chains was generally less, but the data are all related to the sales of the same chains in the base period; figures relate to reporting firms—with no adjustment to eliminate the influence of increase in the number of stores operated. The seasonal adjustment allows for number of working-days in the month (excluding Sundays and 6 national holidays), and seasonal eliminations are computed by the ratio-to-moving-average method; allowance is also made for the variation in the date of Easter, in the case of 5 and 10 cent store chains. Complete description of this index is given in the *Federal Reserve Bulletin* for April, 1928, pp. 232-242. Monthly data from 1919 appeared in the May, 1928, issue of the SURVEY (No. 81), p. 20.

Table 98.—TEN-CENT CHAIN STORES<sup>1</sup>.

YEAR AND MONTH	TOTAL: (4 chains)		F. W. WOOLWORTH CO.		S. S. KRESGE CO.		McCROBY STORES CORP.		S. H. KRESS CO.		METROPOLITAN		F. & W. GRAND		W. T. GRANT CO.	
	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores
	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number
1913 mo. av. ....	\$7,972	1,008	\$5,519	684	\$1,105	100	\$450	110	\$898	114						
1914 mo. av. ....	8,544	1,090	5,801	737	1,341	118	411	116	991	119						
1915 mo. av. ....	9,582	1,185	6,333	805	1,745	140	468	117	1,036	123					\$253	22
1916 mo. av. ....	11,278	1,343	7,257	920	2,200	161	566	132	1,255	130					301	25
1917 mo. av. ....	12,806	1,452	8,174	1,000	2,508	165	655	143	1,469	144					370	30
1918 mo. av. ....	14,520	1,500	8,931	1,039	3,026	169	800	147	1,763	145					495	32
1919 mo. av. ....	16,575	1,545	9,958	1,081	3,556	171	957	148	2,104	145	\$478	119	\$661	19	644	33
1920 mo. av. ....	19,575	1,600	11,741	1,111	4,270	188	1,198	156	2,415	145	868	145	735	19	845	38
1921 mo. av. ....	20,561	1,637	12,302	1,137	4,655	199	1,195	159	2,409	142	538	84	305	19	1,051	45
1922 mo. av. ....	23,344	1,694	13,934	1,176	5,433	212	1,423	161	2,554	145	520	83	360	22	1,257	50
1923 mo. av. ....	27,555	1,813	16,120	1,261	6,820	233	1,781	167	2,834	152	615	68	452	23	1,695	58
1924 mo. av. ....	30,922	1,956	17,956	1,364	7,508	256	2,103	176	3,355	160	652	68	548	28	2,070	70
1925 mo. av. ....	35,038	2,065	19,912	1,420	8,831	298	2,465	181	3,830	166	732	72	711	37	2,514	77
1926 mo. av. ....	38,111	2,220	21,137	1,484	9,935	368	2,801	199	4,323	169	917	81	875	41	2,995	106
1927 mo. av. ....	41,993	2,427	22,729	1,588	11,147	435	3,278	221	4,838	183	1,023	91	1,074	55	3,610	151
1928 mo. av. ....	44,980	2,655	23,942	1,727	12,280	506	3,430	228	5,421	194	1,127	109	1,430	81	4,582	184
1929 mo. av. ....	47,711	2,870	25,252	1,828	13,027	597	3,726	242	5,706	203	1,510	151	1,827	94	5,453	276
<b>1928</b>																
May.....	42,233	2,488	22,998	1,634	11,340	449	2,972	221	4,923	184	971	93	1,153	66	4,096	175
June.....	42,099	2,509	22,400	1,652	11,834	450	3,099	223	4,766	184	1,027	94	1,259	70	4,366	181
July.....	33,760	2,526	20,587	1,658	10,583	460	2,951	224	4,639	184	908	96	1,205	73	3,731	193
August.....	41,049	2,552	21,812	1,675	11,272	468	3,115	224	4,850	185	993	97	1,236	74	3,996	191
September.....	42,906	2,586	22,637	1,698	11,914	474	3,344	224	5,011	190	1,109	100	1,443	76	4,708	199
October.....	48,993	2,615	26,896	1,718	12,925	481	3,471	224	5,701	192	1,231	104	1,756	80	5,418	203
November.....	46,897	2,637	24,661	1,725	13,034	492	3,451	226	5,661	194	1,257	106	1,719	81	5,515	207
December.....	89,449	2,655	45,441	1,727	24,844	506	7,218	228	11,946	194	2,752	109	3,388	81	10,328	213
<b>1929</b>																
January.....	33,513	2,659	17,660	1,728	9,019	509	2,691	229	4,143	193	799	109	1,096	83	3,329	218
February.....	36,351	2,681	19,375	1,742	9,774	515	2,844	231	4,358	193	882	109	1,175	83	3,516	221
March.....	46,135	2,695	24,525	1,750	12,567	517	3,735	234	5,308	194	1,148	111	1,712	83	5,141	222
April.....	41,651	2,711	22,062	1,759	11,368	523	3,158	235	5,063	194	1,132	112	1,588	86	4,421	226
May.....	49,201	2,728	28,577	1,767	12,345	531	3,263	236	5,016	194	1,361	117	1,688	88	5,089	227
June.....	44,403	2,744	23,611	1,775	12,572	537	3,335	238	4,885	194	1,467	120	1,889	89	5,374	241
July.....	42,603	2,767	22,521	1,789	11,687	542	3,300	239	5,095	197	1,337	123	1,635	89	4,524	244
August.....	46,613	2,787	24,446	1,802	13,001	547	3,853	240	5,317	198	1,612	131	1,731	89	5,066	252
September.....	43,169	2,816	22,253	1,815	11,971	560	3,582	241	5,363	200	1,471	134	1,731	90	4,777	258
October.....	51,061	2,834	27,678	1,823	13,761	568	3,798	243	5,824	200	1,663	141	2,016	91	6,164	263
November.....	49,879	2,856	26,160	1,828	14,021	584	3,854	243	5,844	201	1,819	151	2,067	94	6,504	273
December.....	87,948	2,870	44,153	1,828	24,242	597	7,293	242	12,260	203	3,432	151	3,601	94	11,536	276
<b>1930</b>																
January.....	34,657	2,880	18,408	1,829	9,352	604	2,695	243	4,202	204	971	150	1,296	94	3,784	279
February.....	37,523	2,892	20,030	1,835	9,944	611	2,907	241	4,642	205	995	149	1,326	94	3,911	280
March.....	42,325	2,908	22,482	1,845	11,260	617	3,358	241	5,225	205	1,133	148	1,603	94	4,962	283
April.....	46,371	2,922	24,369	1,853	12,724	624	3,651	240	5,627	205	1,348	147	1,936	96	5,731	287
May.....	47,075	2,935	25,310	1,855	12,778	632	3,588	241	5,399	207	1,474	147	1,840	98	6,153	293
June.....	40,548	2,952	20,715	1,867	11,400	636	3,212	240	5,221	209	1,337	148	1,869	103	5,469	303
July.....	39,802	2,967	20,737	1,871	10,882	645	3,123	240	5,061	211	1,258	148	1,669	105	4,818	305
August.....																
September.....																
October.....																
November.....																
December.....																

<sup>1</sup> This table is submitted in response to a demand for publication of the figures of sales of the large individual ten-cent chains, as compiled from published reports in financial papers or as reported directly by the companies. Sales data represent the retail sales in dollar values of the ten-cent chains shown, while the annual figures of stores operated represent not an average of stores in operation for the year, but the stores operated at the end of each year. Monthly data on sales for some of these chains from 1920 appeared in May, 1922, issue (No. 9), p. 111. Many of the companies listed above do not limit the sales prices of their individual articles to 10 cents some selling articles valued as high as \$1, but they all come within the broad classification popularly known as "ten-cent stores."

<sup>2</sup> Includes F. W. Woolworth, S. S. Kresge Co., McCrory Stores Corporation, and S. H. Kress Co.

Table 99.—RESTAURANT AND OTHER CHAIN STORES <sup>1</sup>

YEAR AND MONTH	RESTAURANT CHAINS								OTHER CHAIN STORES					
	Total, 3 chains		Childs Co.		Waldorf System, Inc.		J. E. Thompson Co.		Isaac Silver & Bros.		J. C. Penney Co. (clothing)		G. C. Murphy Co.	
	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores	Sales	Stores
	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number	Thous. of dolls.	Number
1913 monthly average.....			\$710	79							\$220	45		
1914 monthly average.....			718	83			\$375	66			297	67		
1915 monthly average.....			756	86			448	83			402	80		
1916 monthly average.....			898	88			571	96			701	117		
1917 monthly average.....			1,141	91			696	99			1,240	165		
1918 monthly average.....			1,228	86			746	102			1,778	192		
1919 monthly average.....			1,384	83			937	102			2,398	197	\$120	45
1920 monthly average.....	\$3,681	265	1,828	86	\$790	75	1,063	104			3,569	312	171	53
1921 monthly average.....	3,954	284	2,110	95	820	87	1,023	102	<sup>2</sup> \$170	<sup>2</sup> 6	3,887	313	186	63
1922 monthly average.....	4,224	318	2,127	101	1,127	114	970	103	202	8	4,086	371	225	62
1923 monthly average.....	4,555	334	2,308	107	1,263	123	984	104	233	10	5,183	475	329	75
1924 monthly average.....	4,576	343	2,298	113	1,237	125	1,041	105	266	12	6,188	569	419	85
1925 monthly average.....	4,679	350	2,367	114	1,229	126	1,083	110	329	14	7,539	671	540	88
1926 monthly average.....	4,964	358	2,493	115	1,272	131	1,199	112	397	19	9,640	747	713	92
1927 monthly average.....	4,843	370	2,400	119	1,247	131	1,196	120	468	19	12,664	891	853	113
1928 monthly average.....	4,632	371	2,198	113	1,219	134	1,215	124	556	31	14,725	1,023	1,010	133
1929 monthly average.....	4,952	375	2,306	111	1,345	143	1,301	121	708	45	17,475	1,395	1,311	153
<b>1928</b>														
May.....	4,629	367	2,132	116	1,241	131	1,256	120	469	23	14,831	953	896	115
June.....	4,429	369	2,041	117	1,180	131	1,209	121	517	25	14,129	953	881	116
July.....	4,280	369	2,012	116	1,105	132	1,163	121	462	26	11,734	953	796	116
August.....	4,577	369	2,217	116	1,170	132	1,190	121	460	26	12,877	982	873	118
September.....	4,591	366	2,191	113	1,215	132	1,185	121	512	29	16,478	1,006	1,046	119
October.....	4,802	367	2,266	110	1,267	134	1,269	123	610	30	19,447	1,026	1,056	120
November.....	4,617	369	2,160	112	1,250	134	1,207	123	632	31	19,304	1,022	1,132	130
December.....	4,987	371	2,369	113	1,363	134	1,255	124	1,361	31	25,105	1,023	2,450	133
<b>1929</b>														
January.....	4,707	375	2,184	113	1,299	138	1,224	124	365	31	9,016	1,023	814	140
February.....	4,519	373	2,144	112	1,228	136	1,147	125	441	32	9,378	1,026	910	139
March.....	5,027	372	2,355	112	1,388	136	1,284	124	615	34	15,943	1,182	1,199	139
April.....	4,944	372	2,247	112	1,338	136	1,359	124	567	36	14,928	1,207	1,112	142
May.....	5,077	375	2,313	114	1,361	137	1,403	124	566	37	16,717	1,211	1,192	143
June.....	4,808	374	2,222	114	1,273	136	1,313	124	613	40	17,104	1,215	1,229	145
July.....	4,821	372	2,259	114	1,260	134	1,302	124	649	41	14,566	1,217	1,148	145
August.....	5,151	369	2,478	113	1,342	134	1,331	122	718	43	16,493	1,292	1,273	148
September.....	4,953	367	2,313	112	1,323	133	1,282	122	679	43	18,245	1,337	1,336	150
October.....	5,256	373	2,222	109	1,477	143	1,367	121	919	45	23,301	1,373	1,403	150
November.....	4,980	376	2,299	111	1,397	143	1,284	122	833	45	24,420	1,389	1,464	152
December.....	5,176	375	2,407	111	1,449	143	1,320	121	1,527	45	29,589	1,395	2,649	153
<b>1930</b>														
January.....	4,989	374	2,307	111	1,382	142	1,300	121	457	43	10,611	1,395	939	154
February.....	4,580	374	2,148	110	1,255	143	1,177	121	534	44	11,197	1,396	989	154
March.....	5,039	374	2,352	110	1,380	143	1,307	121	643	45	14,208	1,416	1,183	154
April.....	4,962	377	2,330	112	1,353	144	1,279	121	751	45	17,452	1,428	1,291	155
May.....	4,975	381	2,279	115	1,382	145	1,314	121	715	45	17,170	1,430	1,410	156
June.....	4,585		2,103	114	1,257	147	1,225		696	45	15,828	1,435	1,289	160
July.....			2,050	113	1,250				598	45	13,602	1,438	1,319	163
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Data compiled from published reports in financial papers or reported directly by the company to the U. S. Department of Commerce, Bureau of the Census. These sales data represent money values. Monthly data for Childs Co., including the operations of Boos Bros., since January, 1920 (comparable to present series), were given in the July, 1927, issue (No. 71), p. 21. Data for the Waldorf System include sales of the Ginter Co. and its predecessors from the middle of 1922 until its absorption into the Waldorf System in 1927, the 1922 average including undistributed estimate for the Ginter Co. for the first five months of that year. Monthly data on this basis appeared in the September, 1927, issue (No. 73), p. 21, while data for 1920 through 1922 for Waldorf System alone appeared in the October, 1923, issue (No. 26), pp. 58 and 59. Monthly data for Penney, from 1920 were given in May, 1922, issue (No. 9), p. 111. Monthly data for G. C. Murphy Co. appear on p. 23 of the February, 1928, issue (No. 78). Yearly data represent number of stores in operation at end of the year indicated.

<sup>2</sup> 7 months' average, June to December, inclusive.



Table 100.—DEPARTMENT-STORE SALES

YEAR AND MONTH	VALUE OF SALES, BY FEDERAL RESERVE DISTRICTS <sup>1</sup>														INSTALLMENT SALES <sup>2</sup>
	United States		Boston	New York	Philadelphia	Cleveland	Richmond	Atlanta	Chicago	St. Louis	Minneapolis	Kansas City <sup>3</sup>	Dallas	San Francisco	New England
	Ad-justed	Unad-justed													
	Relative to 1923-1925 average														Per cent to total
1919 monthly average.....		78	78	76	79	77	84	94			93		98	68	
1920 monthly average.....		94	91	91	93	98	93	113			105		117	83	
1921 monthly average.....		87	89	87	89	86	89	96	81	90	97		97	79	
1922 monthly average.....		88	92	89	91	87	86	90	84	89	93		90	83	
1923 monthly average.....		98	98	96	101	100	97	100	99	99	99		96	96	
1924 monthly average.....		99	100	99	99	99	99	98	98	99	99	95	100	99	
1925 monthly average.....		103	102	105	100	101	104	102	103	103	102	100	104	105	5.2
1926 monthly average.....		106	105	109	102	103	107	106	109	105	99	95	109	110	6.2
1927 monthly average.....		107	106	111	98	105	105	107	110	103	97	95	106	113	6.7
1928 monthly average.....		108	104	112	96	103	106	107	117	104	97	97	108	117	7.2
1929 monthly average.....		110	106	117	96	105	110	104	119	105	86	100	110	120	7.8
<b>1927</b>															
September.....	108	100	99	106	83	95	91	97	107	97	93	96	105	111	7.5
October.....	106	119	115	128	109	113	121	128	122	127	109	106	125	119	7.0
November.....	107	122	120	134	120	112	125	119	125	120	100	110	120	121	6.7
December.....	111	186	182	201	174	176	195	191	188	177	155	165	189	195	3.9
<b>1928</b>															
January.....	105	88	98	94	75	85	81	85	90	82	73	80	89	98	8.6
February.....	106	86	78	89	76	85	82	91	92	85	74	77	88	92	8.2
March.....	105	103	96	102	96	101	105	110	109	105	93	93	109	110	6.3
April.....	104	102	99	103	91	101	99	102	109	99	84	93	102	114	4.8
May.....	104	108	101	109	95	106	106	114	118	104	93	94	116	116	5.0
June.....	106	104	111	112	96	100	102	98	113	94	87	84	98	101	4.6
July.....	108	78	76	77	65	78	75	77	86	73	70	71	71	94	5.7
August.....	106	85	78	78	65	85	78	86	96	83	82	85	80	116	12.1
September.....	120	107	97	111	89	101	96	98	124	107	99	102	112	113	8.2
October.....	105	124	119	135	115	112	125	123	130	119	90	110	125	129	9.0
November.....	107	122	119	134	114	110	127	120	132	119	91	108	126	118	7.5
December.....	117	189	181	206	174	174	197	180	200	175	140	168	184	200	6.2
<b>1929</b>															
January.....	105	92	96	97	78	86	82	89	97	81	70	83	90	106	10.4
February.....	110	86	76	90	75	83	78	87	95	85	68	76	85	91	10.2
March.....	113	110	101	111	99	105	114	112	120	110	92	102	115	115	7.1
April.....	105	104	97	109	90	105	102	104	110	99	84	99	105	111	6.3
May.....	107	110	108	113	93	108	109	107	121	105	88	96	115	120	6.1
June.....	112	106	108	116	95	103	107	93	117	96	82	87	97	103	4.1
July.....	106	80	76	80	62	80	76	75	87	76	65	72	74	100	6.7
August.....	112	90	83	82	69	92	81	85	100	87	78	85	85	120	12.5
September.....	123	110	98	118	86	101	103	97	127	120	97	105	110	113	7.6
October.....	109	128	127	146	122	118	131	121	129	117	87	112	129	129	8.8
November.....	108	123	119	134	114	108	133	112	132	119	91	112	129	125	8.5
December.....	115	185	176	207	173	171	204	171	189	164	132	165	179	203	5.4
<b>1930</b>															
January.....	102	89	104	102	80	78	85	76	90	72	70	74	80	104	16.2
February.....	106	83	77	89	73	77	81	83	87	83	66	75	85	90	10.9
March.....	104	95	88	103	83	88	93	93	96	93	87	89	99	112	
April.....	106	112	107	120	95	112	113	104	119	109	99	97	106	114	
May.....	104	108	108	119	91	104	112	101	112	96	90	94	106	114	
June.....	100	95	89	109	84	89	100	83	98	84	80	82	89	97	
July.....															
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Compiled by the Federal Reserve Board, Division of Research and Statistics, from reports of about 525 department stores located in 225 cities, with total annual sales of over \$2,000,000,000. The index numbers are based upon aggregate values. The index for the United States as a whole is also shown as adjusted to allow for seasonal variations, differences in number of trading days, and variations in sales attributable to the movable Easter. Monthly data from 1919 appeared in the April, 1928, issue (No. 80), pp. 20 and 21, while a complete description of the methods of compilation may be found in the Federal Reserve Bulletin for February, 1928.

<sup>2</sup> 1925 monthly average=100.

<sup>3</sup> Compiled by the Federal Reserve Bank of Boston from reports of selected department stores in New England.

Table 101.—DEPARTMENT-STORE STOCKS <sup>1</sup>

YEAR AND MONTH	VALUE OF STOCKS AT END OF MONTH, BY FEDERAL RESERVE DISTRICTS													
	United States		Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City <sup>2</sup>	Dallas	San Fran- cisco
	Ad- justed	Un- adjusted												
	Relative to 1923-1925 average													
1919 monthly average.....		79	83	79	63	77	82	82			90		89	74
1920 monthly average.....		105	97	108	77	106	107	113			111		120	96
1921 monthly average.....		89	88	92	83	90	88	98	82	82	94		97	85
1922 monthly average.....		89	94	92	89	86	90	96	82	82	93		91	88
1923 monthly average.....		98	100	98	98	97	101	103	98	93	99		97	97
1924 monthly average.....		101	100	99	101	102	100	101	99	103	100	99	102	102
1925 monthly average.....		102	100	103	101	101	99	96	103	104	101	100	101	101
1926 monthly average.....		103	100	106	100	101	102	98	103	105	96	114	95	104
1927 monthly average.....		103	103	104	99	101	103	101	104	101	89	113	88	106
1928 monthly average.....		101	100	104	92	98	100	101	108	94	82	115	82	106
1929 monthly average.....		100	97	106	87	95	97	97	113	91	73	118	81	102
<b>1927</b>														
September.....	104	108	106	109	101	107	107	107	112	108	94	123	96	108
October.....	104	114	113	116	111	112	118	112	118	112	97	129	97	113
November.....	104	117	118	117	114	116	122	115	120	112	97	128	98	119
December.....	103	96	101	99	95	93	97	90	97	93	78	102	74	100
<b>1928</b>														
January.....	103	92	93	96	88	89	89	92	95	84	78	98	75	98
February.....	103	98	97	97	93	96	96	101	102	93	85	111	83	105
March.....	101	105	105	105	98	103	103	105	110	96	88	118	86	111
April.....	101	106	107	108	97	103	104	108	112	98	89	116	87	111
May.....	100	102	106	104	93	100	100	103	108	96	83	116	83	108
June.....	99	96	97	99	87	94	95	96	100	91	79	108	76	103
July.....	100	93	91	96	85	91	91	93	98	87	78	106	72	101
August.....	101	97	91	100	86	95	92	95	105	93	81	118	83	104
September.....	99	103	98	106	92	100	102	104	114	98	84	123	88	106
October.....	102	112	107	117	101	108	116	109	124	104	87	129	92	113
November.....	102	115	113	122	104	111	118	110	128	104	86	128	92	116
December.....	100	94	95	101	83	91	96	91	102	86	72	104	70	95
<b>1929</b>														
January.....	100	89	89	97	78	84	89	88	98	82	71	103	71	92
February.....	100	95	91	99	85	91	94	98	106	86	75	124	79	98
March.....	99	102	99	107	90	97	100	101	113	91	78	122	83	106
April.....	99	103	102	110	90	100	102	103	114	93	78	124	84	107
May.....	99	101	102	107	87	98	99	100	112	91	75	120	81	103
June.....	98	95	93	101	83	92	94	94	105	88	70	112	72	99
July.....	99	92	89	99	79	88	88	90	103	84	68	109	70	96
August.....	100	96	88	101	80	90	89	93	113	90	71	119	81	102
September.....	100	103	97	109	90	98	98	98	119	97	74	125	89	108
October.....	101	112	105	117	99	106	111	104	129	103	78	128	93	114
November.....	102	115	110	125	103	107	114	104	131	103	77	130	93	119
December.....	100	94	94	104	84	85	92	84	107	83	65	106	73	102
<b>1930</b>														
January.....	99	88	85	96	71	80	86	82	100	79	64	102	72	100
February.....	98	93	87	101	79	86	91	90	105	82	69	113	77	104
March.....	97	100	95	107	85	92	100	94	113	88	73	116	82	108
April.....	97	101	94	112	85	92	99	95	114	90	72	115	82	110
May.....	96	98	94	109	80	92	95	91	111	91	69	110	79	105
June.....	96	93	88	104	78	88	90	89	103	86	65	104	72	99
July.....														
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> Compiled by the Federal Reserve Board, Division of Research and Statistics, from reports of about 430 department stores, with 1925 stocks averaging \$570,000,000 in the aggregate. The index numbers are based upon aggregate values. The index for the United States as a whole is also shown as adjusted to allow for seasonal variations. Monthly data from 1919 appeared in the April, 1928, issue (No. 80), pp. 20 and 21, while a complete description of the methods of compilation may be found in the Federal Reserve Bulletin for February, 1928.

<sup>2</sup> 1925 monthly average=100.

Table 102.—NATIONAL ADVERTISING IN NEWSPAPERS<sup>1</sup>

YEAR AND MONTH	Total	Passenger cars	Tires, trucks, and accessories	Financial	Building materials	Electrical appliances and supplies	Food and beverages	Heating and plumbing equipment	Medical	Radio	Tobacco	Toilet requisites	Transportation	All other
Thousands of lines														
1928 monthly aver..	43,071	6,800	4,337	6,385	540	876	5,663	505	3,835	1,773	2,589	2,390	2,338	5,040
1929 monthly aver..	52,551	7,336	5,796	7,698	570	1,203	6,521	518	4,546	3,407	3,441	2,883	2,984	5,402
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
February.....	12,401	1,628	562	2,269	73	173	1,335	105	1,563	436	1,133	678	468	1,978
March.....	48,664	7,542	3,315	7,206	642	736	6,535	352	5,893	1,210	5,081	3,345	1,996	4,872
April.....	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.....	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
October.....	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
November.....	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
December.....	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
1929														
January.....	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
February.....	50,308	8,166	3,842	6,692	330	850	5,631	495	6,841	2,547	4,049	3,765	2,010	5,089
March.....	56,099	9,235	4,191	7,975	610	1,449	7,166	547	6,563	2,173	3,878	3,580	2,305	6,428
April.....	55,792	9,813	6,003	7,644	1,268	1,484	7,498	624	4,281	1,386	3,146	3,340	2,952	6,354
May.....	61,357	8,822	7,917	8,180	1,160	1,527	8,810	606	3,802	2,130	5,231	2,816	4,246	6,110
June.....	56,159	6,634	7,867	7,499	685	1,760	8,169	350	2,821	1,895	4,238	3,113	4,692	6,477
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	2,5	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
1930														
January.....	47,887	8,000	3,349	9,128	129	664	5,355	395	6,456	1,603	3,177	2,432	2,461	4,738
February.....	44,996	6,497	3,983	5,221	182	615	6,766	275	6,206	1,700	3,345	3,163	2,175	4,866
March.....	54,032	6,841	6,105	6,427	373	1,329	7,915	377	5,741	1,399	4,497	4,323	2,396	6,310
April.....	52,867	5,817	6,066	7,617	615	2,016	9,220	629	3,635	856	3,606	3,674	2,719	6,397
May.....	54,491	5,169	7,697	6,387	660	1,548	9,503	608	2,926	958	4,919	3,404	3,728	6,987
June.....	47,010	3,781	5,927	6,162	342	1,247	7,781	479	2,194	649	5,413	3,123	4,101	5,812
July.....														
August.....														
September.....														
October.....														
November.....														
December.....														

<sup>1</sup> 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, Louisville, Memphis, Milwaukee, Minneapolis, Nashville, Newark, New Orleans, New York, including Brooklyn, Norfolk, Oakland, Oklahoma City, Omaha, Philadelphia, Pittsburgh, Portland, Oreg., Providence, Reading, Rochester, San Francisco, Seattle, Springfield, Mass., Spokane, St. Louis, St. Paul, Syracuse, Toledo, Tulsa, 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.)*.

Table 103.—LIFE INSURANCE—NEW BUSINESS AND PREMIUMS <sup>1</sup>

(Association of Life Insurance Presidents)

YEAR AND MONTH	NEW BUSINESS								PREMIUM COLLECTIONS (new and renewal)					
	Ordinary		Industrial		Group		Total		Ordinary	Industrial	Group	Annu- ities	Total	
	Number of policies	Thou- sands of dollars	Number of policies	Thou- sands of dollars	Number of certifi- cates <sup>2</sup>	Thou- sands of dollars	Number of policies and certifi- cates	Thou- sands of dollars	Thousands of dollars					
1913 mo. av.....	79,514	\$141,450	379,819	\$51,909	2,500	\$1,736	461,833	\$195,095	\$38,953	\$10,778	\$36	-----	\$49,767	
1914 mo. av.....	78,779	138,225	410,189	55,217	4,090	3,790	493,059	197,231	40,506	11,580	52	-----	52,138	
1915 mo. av.....	83,909	146,792	428,559	58,128	6,542	3,927	519,011	208,847	42,262	12,421	97	-----	54,780	
1916 mo. av.....	96,311	181,418	414,605	58,645	11,739	6,560	522,655	246,623	45,721	13,280	143	-----	59,144	
1917 mo. av.....	110,448	210,087	414,443	61,484	25,760	14,861	550,650	286,433	50,485	14,440	308	-----	65,233	
1918 mo. av.....	111,640	219,300	433,226	66,099	26,266	20,555	571,133	305,953	54,579	15,807	536	-----	70,922	
1919 mo. av.....	180,261	382,644	465,248	77,901	39,720	35,465	685,229	496,010	64,348	18,088	991	-----	83,427	
1920 mo. av.....	205,276	464,189	499,938	93,044	38,491	35,478	743,705	592,711	75,462	20,342	1,498	-----	97,302	
1921 mo. av.....	163,313	381,688	550,065	104,813	10,299	9,257	723,678	495,758	81,424	22,587	1,545	-----	105,556	
1922 mo. av.....	166,781	419,585	582,102	118,233	21,345	22,885	770,229	500,703	89,242	25,751	1,621	-----	116,614	
1923 mo. av.....	195,841	502,495	662,259	143,338	34,847	43,337	892,946	689,170	99,631	30,057	2,092	-----	131,779	
1924 mo. av.....	196,841	532,347	703,769	163,630	29,916	49,814	930,525	745,790	110,287	34,178	2,618	-----	147,083	
1925 mo. av.....	214,168	616,551	804,380	196,598	45,533	83,232	1,064,080	896,381	125,119	39,119	4,625	-----	168,863	
1926 mo. av.....	219,762	650,368	782,247	213,838	62,690	87,550	1,064,699	951,757	130,882	44,775	4,893	-----	180,549	
1927 mo. av.....	220,145	650,367	823,700	222,278	41,749	68,698	1,085,678	941,343	145,026	50,189	5,420	-----	200,635	
1928 mo. av.....	248,640	683,281	866,910	224,377	46,621	111,361	1,162,171	1,019,019	156,161	55,209	7,332	-----	218,702	
1929 mo. av.....	273,351	733,489	901,824	241,513	51,991	98,780	1,227,166	1,073,782	165,544	58,654	9,311	-----	233,509	
<b>1928</b>														
May.....	280,180	757,879	839,453	216,396	48,839	205,195	1,168,472	1,179,470	165,718	52,184	5,930	-----	223,832	
June.....	293,224	755,699	840,312	214,882	51,895	113,711	1,185,431	1,084,292	167,916	51,509	5,574	-----	211,999	
July.....	249,738	600,062	753,773	194,642	38,905	74,196	1,042,416	928,900	152,862	53,072	7,296	-----	213,230	
August.....	245,081	626,594	740,371	193,365	24,605	56,926	1,010,057	876,885	143,386	50,228	5,705	-----	199,319	
September.....	214,010	534,112	770,416	198,949	52,943	277,943	1,037,369	1,011,004	135,743	49,343	5,738	-----	190,824	
October.....	263,201	659,844	946,284	233,530	18,911	72,119	1,228,396	965,493	154,489	55,691	6,447	-----	216,627	
November.....	257,589	667,633	782,026	202,948	42,358	53,569	1,081,973	924,150	155,032	49,154	6,577	-----	210,763	
December.....	289,606	810,127	951,002	246,045	128,296	224,330	1,368,904	1,280,502	181,752	96,864	7,078	-----	285,694	
January.....	220,823	659,843	1,051,983	265,998	57,921	98,637	1,330,727	1,024,478	160,867	53,806	8,938	-----	223,611	
February.....	238,684	683,542	891,644	230,779	26,856	58,607	1,157,187	972,928	160,630	51,956	17,600	-----	230,246	
March.....	292,232	830,244	1,045,058	274,824	35,986	64,813	1,373,276	1,169,881	175,645	56,159	7,515	-----	239,319	
April.....	284,055	793,786	964,177	256,279	47,028	72,236	1,295,260	1,122,303	172,282	55,768	8,336	-----	236,386	
May.....	293,458	801,698	888,462	240,501	45,455	109,827	1,227,375	1,152,026	174,278	52,218	7,691	-----	234,187	
June.....	277,615	750,228	880,770	242,166	66,353	106,589	1,224,738	1,098,983	158,733	55,801	7,345	-----	221,879	
July.....	273,099	722,451	809,110	223,680	72,923	147,658	1,155,132	1,093,789	169,773	57,932	11,494	-----	239,199	
August.....	273,484	698,106	795,451	219,144	40,622	99,773	1,109,557	1,017,113	154,206	56,143	7,129	-----	217,478	
September.....	245,042	608,869	805,623	221,006	21,799	75,151	1,072,464	905,026	143,078	56,773	6,485	-----	206,336	
October.....	289,055	707,478	879,483	240,489	49,062	105,393	1,217,600	1,053,360	169,724	51,705	8,497	-----	229,926	
November.....	281,360	704,316	941,358	249,246	39,571	86,165	1,262,289	1,039,727	156,465	57,973	10,081	-----	224,519	
December.....	311,303	841,215	868,763	234,046	120,316	160,514	1,300,382	1,235,775	190,844	97,619	10,560	-----	299,023	
<b>1930</b>														
January.....	254,432	712,855	802,585	218,027	43,081	64,313	1,100,098	995,195	164,920	58,711	9,669	14,390	-----	247,690
February.....	267,344	730,735	783,235	212,813	34,732	59,930	1,085,311	1,003,478	162,709	55,659	8,099	4,916	-----	231,383
March.....	330,337	884,535	973,678	264,415	45,913	73,234	1,349,928	1,222,184	182,665	65,605	8,344	5,789	-----	262,403
April.....	310,009	839,531	893,017	241,129	61,996	113,514	1,265,022	1,194,174	173,929	53,948	7,598	5,805	-----	241,280
May.....	294,362	776,394	847,842	230,083	45,832	91,263	1,188,036	1,097,740	175,397	58,459	8,003	6,086	-----	247,945
June.....	266,801	725,725	1,162,942	311,925	52,009	106,782	1,481,752	1,144,432	166,190	59,522	7,615	5,359	-----	238,686
July.....	270,285	714,748	896,318	247,506	74,171	130,036	1,240,774	1,092,290	-----	-----	-----	-----	-----	
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

<sup>1</sup> Compiled by the Association of Life Insurance Presidents. The data on new business represent only new business that has been paid for, exclusive of revivals, increases, and dividend additions. Premium collections show the amount of money actually invested in life insurance each month, and include total premium collections, new and renewal, and considerations for annuities and for supplementary contracts involving and not involving life contingencies. Annuities shown separate beginning with January, 1930. The 44 companies whose figures are included in this table had in force 82 per cent of the total legal reserve life insurance outstanding in the United States as of Dec. 31, 1927. Complete monthly data from 1921 were given in June, 1929, issue (No. 94), p. 19.

<sup>2</sup> This column, by adding together the number of policies issued for ordinary and industrial insurance and the number of certificates issued under group insurance contracts, indicates the trend in number of persons covered by new insurance, but does not show the exact number of persons covered, since one person may have several policies of ordinary insurance and in addition hold a certificate under a group contract.

Table 104.—LIFE INSURANCE—ASSETS AND NEW BUSINESS BY DISTRICTS

YEAR AND MONTH	ADMITTED ASSETS <sup>1</sup>										NEW BUSINESS, ORDINARY INSURANCE <sup>2</sup>						CANADIAN SALES, ORDINARY <sup>3</sup>	
	Grand total	Mortgage loans			Bonds and stocks (book values)					Policy loans and premium notes	United States, total	Eastern manufacturing	Western manufacturing	Western agricultural	Southern	Far western		
		Total	Farm	All other	Total	Government	Railroad	Public utilities	All other									
		Millions of dollars										Thousands of dollars						
1921 mo. av.												\$425,092	\$154,321	\$90,152	\$81,074	\$57,145	\$42,400	\$30,847
1922 mo. av.												459,292	174,242	98,380	78,899	61,645	46,126	28,421
1923 mo. av.	\$7,409	\$2,694	\$1,261	\$1,432	\$3,327	\$1,219	\$1,750	\$281	\$77	\$928	549,296	208,526	121,194	90,912	72,403	56,261	30,487	
1924 mo. av.	8,091	3,138	1,405	1,734	3,428	1,119	1,849	365	95	995	591,172	234,969	128,465	93,252	73,374	61,112	32,597	
1925 mo. av.	8,944	3,607	1,496	2,111	3,653	1,053	1,975	521	105	1,070	672,286	267,430	144,071	107,277	85,312	68,197	35,406	
1926 mo. av.	9,935	4,211	1,564	2,647	3,887	971	2,117	686	113	1,177	700,730	279,875	152,474	110,174	88,133	70,075	39,304	
1927 mo. av.	11,043	4,829	1,613	3,216	4,151	922	2,230	852	147	1,308	710,962	286,505	158,233	107,241	87,492	71,491	41,870	
1928 mo. av.	12,266	5,321	1,605	3,716	4,641	934	2,385	1,109	213	1,462	744,722	304,005	167,127	112,095	87,933	73,561	48,390	
1929 mo. av.	13,540	5,823	1,599	4,223	5,118	1,034	2,504	1,268	312	1,671	804,236	326,815	186,198	118,597	91,381	81,306	51,227	
<b>1928</b>																		
May	12,107	5,241	1,601	3,640	4,605	928	2,372	1,097	208	1,442	834,557	343,822	180,589	128,946	99,513	81,687	49,870	
June	12,197	5,292	1,600	3,692	4,621	905	2,390	1,112	214	1,459	805,695	333,895	176,121	121,089	96,796	77,794	51,844	
July	12,312	5,338	1,601	3,737	4,665	916	2,397	1,128	224	1,472	700,939	273,188	163,694	107,659	85,056	71,342	49,492	
August	12,466	5,382	1,602	3,780	4,704	927	2,411	1,138	228	1,486	702,275	273,055	163,568	104,287	86,288	75,077	43,503	
September	12,510	5,429	1,604	3,825	4,718	930	2,406	1,151	231	1,497	578,193	218,788	136,379	90,916	71,371	60,739	38,872	
October	12,634	5,484	1,606	3,878	4,752	939	2,410	1,163	240	1,510	764,577	316,574	176,739	112,916	85,408	72,940	55,743	
November	12,742	5,517	1,603	3,914	4,816	949	2,437	1,180	250	1,523	722,495	296,968	167,479	104,294	81,768	71,986	54,865	
December	12,889	5,580	1,606	3,974	4,867	957	2,448	1,203	259	1,539	886,048	352,806	199,625	132,957	108,046	92,614	56,647	
<b>1929</b>																		
January	12,982	5,619	1,604	4,015	4,912	979	2,452	1,219	262	1,554	719,491	311,189	166,287	100,841	73,292	67,882	51,097	
February	13,071	5,642	1,601	4,041	4,951	986	2,462	1,231	272	1,569	744,513	321,051	174,226	100,163	80,016	69,057	47,443	
March	13,173	5,675	1,597	4,078	5,007	1,004	2,472	1,247	284	1,587	896,333	385,309	207,017	122,062	97,421	84,524	49,406	
April	13,269	5,710	1,597	4,113	5,037	1,017	2,477	1,251	292	1,608	862,578	355,180	196,585	125,988	98,246	86,579	53,333	
May	13,373	5,750	1,599	4,151	5,085	1,033	2,498	1,256	298	1,630	873,490	352,208	200,638	125,716	102,475	92,453	51,283	
June	13,469	5,792	1,599	4,193	5,119	1,048	2,507	1,261	303	1,652	829,202	334,551	189,447	125,349	97,104	82,751	54,700	
July	13,594	5,849	1,607	4,242	5,171	1,048	2,517	1,267	339	1,670	796,900	319,437	182,763	121,224	90,954	82,522	56,078	
August	13,691	5,887	1,600	4,287	5,188	1,062	2,526	1,274	326	1,688	765,702	300,810	177,990	116,749	90,526	79,627	42,468	
September	13,798	5,925	1,600	4,325	5,208	1,070	2,527	1,281	330	1,707	677,104	261,657	161,222	104,534	77,810	71,881	43,911	
October	13,906	5,972	1,599	4,373	5,234	1,063	2,534	1,295	342	1,738	787,133	309,637	184,974	121,985	89,697	80,840	52,985	
November	14,015	6,002	1,598	4,404	5,237	1,040	2,540	1,311	346	1,807	782,497	320,244	181,245	115,195	88,032	77,781	56,673	
December	14,135	6,048	1,591	4,457	5,264	1,053	2,539	1,319	353	1,842	915,894	350,504	211,265	143,354	110,994	99,777	55,350	
<b>1930</b>																		
January	14,238	6,082	1,590	4,492	5,310	1,058	2,549	1,348	355	1,874	755,821	325,695	169,279	105,573	83,228	72,046	46,788	
February	14,329	6,100	1,588	4,512	5,344	1,062	2,554	1,367	361	1,897	798,709	345,320	177,421	107,335	86,836	81,797	45,499	
March	14,444	6,116	1,577	4,539	5,384	1,061	2,554	1,389	380	1,922	941,801	401,432	215,909	131,342	98,391	94,727	50,327	
April	14,543	6,140	1,576	4,564	5,420	1,065	2,572	1,398	385	1,942	897,871	370,797	201,268	131,635	99,928	94,243	52,708	
May	14,648	6,160	1,575	4,585	5,470	1,064	2,594	1,414	398	1,965	860,068	350,430	191,560	130,005	99,406	88,667	50,085	
June	14,736	6,171	1,573	4,598	5,531	1,073	2,600	1,441	417	1,992	822,437	330,948	188,821	121,170	94,384	87,114	55,355	
July																		
August																		
September																		
October																		
November																		
December																		

<sup>1</sup> Compiled by the Association of Life Insurance Presidents from special reports of 40 companies having 81 per cent of the total admitted life insurance assets of United States legal reserve companies. This percentage was increased to 82 beginning with September, 1929, the data are given as of the end of each month and are designed to show the fluctuations in the character of investments of life insurance companies. Admitted assets embrace all assets permitted by statute to be included for testing the solvency of the companies; in addition to the items separately listed, the total also includes real estate, collateral loans, cash, bills receivable, interest due and accrued, deferred and unpaid premiums, etc. Of the bonds and stocks, approximately 98½ per cent are bonds and 1½ per cent are stocks. A compilation of the mortgages owned by 57 life insurance companies, by States, as of Dec. 31, 1925, appeared in the September, 1926, issue (No. 61), p. 26.

<sup>2</sup> Represents data on ordinary life insurance only (thus excluding industrial and group insurance) compiled by the Life Insurance Sales Research Bureau from 81 insurance companies who held on Jan. 1, 1927, 90 per cent, and 73 companies after Jan. 1, 1928, who held 88 per cent of the total ordinary legal life reserve in force in the United States. Monthly data for 1921 were given in the April, 1924, issue (No. 32), p. 56. The Eastern Manufacturing district includes Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania; Western Manufacturing district—Ohio, Indiana, Illinois, Michigan, and Wisconsin; Western Agricultural district—Minnesota, Iowa, Missouri, North Dakota, Texas, South Dakota, Nebraska, Kansas, Arkansas, Louisiana, and Oklahoma. Southern district—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, and Mississippi; Far Western district—Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon, and California.

<sup>3</sup> Compiled by the Life Insurance Sales Research Bureau from reports of companies which had on Jan. 1, 1927, 84 per cent of the legal reserve ordinary business in force in Canada. Details by Provinces are given in the bureau's monthly reports.

Table 105.—BANKING

YEAR AND MONTH	BANK DEBITS			CONDITION OF FEDERAL RESERVE BANKS <sup>1</sup> (end of month)						CONDITION OF REPORTING MEMBER BANKS <sup>3</sup> (end of month)			BROKERS' LOANS (end of month)		SAV. DEPOSITS (end mo.) N. Y. State savings banks <sup>6</sup>	
	In New York City <sup>1</sup>	Outside New York City <sup>1</sup>	Canada <sup>2</sup>	Bills dis-counted	Notes in cir-culation	Total invest-ments	Total re-serves	Total de-posits	Re-serve ratio	Total loans and dis-counts	Total invest-ments	Net demand deposits	To N. Y. Stock Exch. mem. <sup>4</sup>			By New York banks <sup>5</sup>
													Total	Ratio to mkt value		
	Millions of dollars									Millions of dollars			Per cent	Per cent		Mills. of dolls.
1913 mo. av.			\$775													\$1,725
1914 mo. av.			659													1,772
1915 mo. av.			637	\$29	\$89		\$384		94.6							1,805
1916 mo. av.			859	24	185	\$144	586		83.5							1,918
1917 mo. av.			1,021	224	606	231	1,261	\$1,154	75.6							1,989
1918 mo. av.			1,115	1,158	1,911	466	1,991	1,738	57.0			\$9,260			7 \$696	2,017
1919 mo. av.	\$20,343	\$17,598	1,351	1,936	2,618	592	2,190	1,937	50.2			10,576				1,157
1920 mo. av.	20,119	20,133	1,632	2,557	3,154	685	2,126	1,922	43.5			11,302				977
1921 mo. av.	17,258	15,995	1,401	1,755	2,664	338	2,672	1,744	61.4	\$11,927	\$3,364	10,178				774
1922 mo. av.	19,988	16,626	1,304	550	2,215	618	3,149	1,851	77.5	10,953	4,230	10,855				1,319
1923 mo. av.	19,866	18,777	1,392	751	2,239	399	3,192	1,941	76.4	11,788	4,617	11,143				1,391
1924 mo. av.	21,961	19,013	1,367	362	1,866	583	3,196	2,111	80.4	12,343	4,968	12,065				1,565
1925 mo. av.	26,114	21,368	1,346	500	1,689	646	2,869	2,247	74.8	13,450	5,464	12,892				2,336
1926 mo. av.	28,255	22,426	1,414	581	1,707	627	2,955	2,286	74.1	14,141	5,579	12,976	\$3,122	8.76		2,704
1927 mo. av.	32,630	23,455	1,642	447	1,714	688	3,111	2,358	76.5	14,696	5,984	13,301	3,646	8.30		3,137
1928 mo. av.	41,684	25,516	1,969	880	1,654	613	2,807	2,432	68.8	15,885	6,525	13,536	5,214	9.19		4,418
1929 mo. av.	50,257	27,694	2,007	952	1,766	464	3,024	2,431	72.1	17,030	5,692	13,498	6,562	8.75		5,468
<b>1929</b>																
May	50,043	26,520	2,097	988	1,654	270	2,970	2,331	74.5	16,202	5,799	12,791	6,665	9.40		5,288
June	43,263	26,428	1,817	1,125	1,736	226	3,041	2,438	72.9	16,925	5,560	13,293	7,071	9.15		5,769
July	49,215	28,444	2,108	1,076	1,779	232	3,109	2,398	74.4	17,058	5,549	13,395	7,474	9.16		5,960
August	49,034	28,339	1,937	974	1,829	328	3,149	2,348	75.4	16,950	5,456	12,985	7,882	8.79		6,217
September	50,342	27,314	1,884	931	1,851	484	3,141	2,471	72.7	17,428	5,401	13,295	8,549	9.82		6,804
October	63,325	32,261	2,461	991	1,880	658	3,177	2,696	69.4	18,934	5,496	15,110	6,109	8.51		5,538
November	53,604	28,519	2,260	912	1,930	602	3,135	2,437	71.8	17,698	5,635	13,890	4,017	6.32		3,450
December	39,850	26,932	1,858	632	1,910	915	3,011	2,414	69.6	17,649	5,514	14,118	3,990	6.17		3,424
<b>1930</b>																
January	34,732	25,723	1,674	407	1,702	747	3,188	2,369	78.3	16,676	5,529	12,949	3,985	5.77		3,345
February	31,117	21,534	1,446	343	1,637	796	3,187	2,408	78.8	16,428	5,575	12,944	4,168	5.89		3,489
March	40,740	25,014	1,627	241	1,576	840	3,209	2,443	79.8	16,913	5,719	13,329	4,656	6.12		3,968
April	38,631	24,347	1,556	233	1,507	749	3,252	2,434	82.5	16,964	5,789	13,581	5,063	6.72		4,274
May	37,423	24,416	1,767	247	1,466	712	3,221	2,421	83.9	16,837	5,889	13,388	4,748	6.33		4,022
June	37,690	24,647	1,667	260	1,432	761	3,151	2,474	80.7	16,960	6,120	13,740	3,728	5.83		3,219
July	29,637	23,171	1,613	197	1,335	714	3,178	2,469	83.5	16,945	6,291	13,798	3,689	5.49		3,228
August																
September																
October																
November																
December																

<sup>1</sup> Bank debits for the United States are represented by debits to individual accounts as collected by the *Federal Reserve Board* from about 150 of the larger clearing house centers. These data represent check transactions more fully than clearings inasmuch as all checks debited to individual accounts are included and not merely those passing through the clearing house. Data on clearings have been discontinued owing to the variation in number of centers reporting, the annual averages back to 1913 being shown in the August, 1927, issue (No. 72), p. 123. The figures given are combined from weekly totals, the first and last weeks of the month being prorated. Data for individual cities were presented in the October, 1923, issue (No. 26), pp. 51 to 55, and in the October, 1926, issue (No. 62), pp. 22 to 24.

<sup>2</sup> Canadian bank debits are represented by bank clearings, showing volume of check transactions passing through 16 clearing houses as compiled by *Bradstreet's*. Condition reports, showing respectively the combined condition of the 12 Federal reserve banks and the condition of over 800 member banks of the Federal reserve system, are compiled by the *Federal Reserve Board*. The condition is given as of the last Wednesday of the month, but prior to April, 1921, figures are of the last Friday of the month. The reserve ratio represents the percentage which total reserves (mostly gold) form of the combined deposit and Federal reserve note liabilities. Prior to March, 1921, net deposits were used instead of total deposits in calculating reserve ratios. Monthly data from 1920 on condition of Federal reserve banks may be found in the May, 1922, issue (No. 9), p. 123, except for investments, which are given in the September, 1922, issue (No. 13), p. 47.

<sup>3</sup> Compiled by the *New York Stock Exchange* from reports of all its members as to their net borrowings on collateral outstanding at the end of each month from banks or agencies in New York City. These data include borrowings for out-of-town branch and correspondent offices. These security loans are used to carry securities not only for customers but also for investment distribution. Details as between banks and other agencies and between demand and time loans are given in the exchange's monthly reports. The ratio to market value is based on the market value of all stocks listed on the *New York Stock Exchange* on the same date computed from actual sales. Monthly data from 1926 are given on p. 138 of the August, 1928 issue (No. 84).

<sup>4</sup> Compiled by the *Federal Reserve Board* from reports, beginning with 1926, of 61 identical reporting member banks in New York City on their collateral loans to brokers and dealers on the last Wednesday in each month (not confined to members of the New York Stock Exchange). Details as to the account for which loans were made (for out-of-town banks, or others), differentiating in each case between call and time money, are given in the board's weekly press releases. Prior to 1926, the figures are based on daily reports of 43 banks, a few of them nonmembers of the Federal reserve system, and did not include for some banks the loans to dealers in securities. However, the figures are fairly comparable. Prior to April, 1921, the data represent the last Friday in each month, instead of the last Wednesday. Complete weekly data in detail from 1917 were published in the November, 1926, issue of the *Federal Reserve Bulletin*, pp. 779-786.

<sup>5</sup> Compiled from data furnished by the *Savings Bank Association of the State of New York*, comprising all savings banks in New York State at semiannual periods, totaling about 150 banks. For the intervening months, for which figures were compiled beginning in 1924, a few banks, representing about 1 per cent of the total deposits do not report and their deposited balance at the last semiannual period is added to the figures of the reporting banks to secure complete data. Yearly figures from 1914 to 1920, inclusive, and for 1923, are averages of deposits on June 30 and December 31 of each year; 1913 figures are for December 31; 1921 data are averages of four quarterly figures, and for 1922 the first three quarters are averaged.

<sup>6</sup> 3 months' average, October to December, inclusive.

Table 106.—GOLD, SILVER, AND MONEY

YEAR AND MONTH	GOLD					SILVER							UNITED STATES MONEY IN CIRCULATION <sup>6</sup>		
	Im-ports <sup>1</sup>	Ex-ports <sup>1</sup>	Monetary stock of U. S. <sup>2</sup>	Domestic receipts at mint <sup>3</sup>	Rand output <sup>4</sup>	Im-ports <sup>1</sup>	Ex-ports <sup>1</sup>	Production <sup>5</sup>			Stocks, end of month <sup>5</sup>		Price in New York <sup>4</sup>	Millions of dollars	
								United States	Canada	Mexico	U. S.	Canada			
	Thousands of dollars	Thousands of dollars	Millions of dollars	Fine ounces		Thousands of dollars	Thousands of fine ounces					Dolls. per fine ounce			
1913 monthly average	\$5,309	\$7,650	-----	148,050	732,779	\$2,989	\$5,231	5,567	-----	-----	-----	-----	-----	\$0.598	-----
1914 monthly average	4,782	18,551	-----	155,083	698,275	2,163	4,300	6,038	-----	-----	-----	-----	-----	.548	-----
1915 monthly average	37,663	2,619	-----	157,830	757,823	2,874	1,467	6,247	-----	-----	-----	-----	-----	.497	-----
1916 monthly average	57,166	12,999	-----	133,597	772,128	2,689	5,883	6,201	-----	-----	-----	-----	-----	.657	-----
1917 monthly average	46,038	30,990	-----	112,495	751,855	4,445	7,011	5,978	-----	-----	-----	-----	-----	.814	-----
1918 monthly average	5,170	3,422	-----	86,472	701,722	5,948	21,071	5,651	-----	-----	-----	-----	-----	.964	-----
1919 monthly average	6,378	30,682	-----	71,093	694,174	7,451	19,918	4,723	-----	-----	-----	-----	-----	1.111	-----
1920 monthly average	35,729	26,841	-----	62,377	679,801	7,338	9,468	4,714	-----	-----	-----	-----	-----	1.010	-----
1921 monthly average	57,604	1,991	-----	80,183	676,216	5,270	4,298	4,477	1,084	5,372	1,091	655	-----	.621	-----
1922 monthly average	22,931	3,073	-----	86,314	585,009	5,901	5,234	4,623	1,416	6,756	446	636	-----	.675	-----
1923 monthly average	26,893	2,387	\$4,060	84,044	761,088	6,204	6,039	5,514	1,418	7,568	459	409	-----	.647	\$4,821
1924 monthly average	26,643	5,137	4,438	90,234	799,803	6,162	9,158	5,362	1,412	7,620	719	544	-----	.668	4,879
1925 monthly average	10,690	21,887	4,383	87,693	799,975	5,383	8,261	5,115	1,395	7,743	453	442	-----	.691	4,870
1926 monthly average	17,792	9,642	4,452	85,390	830,238	5,800	7,688	5,077	1,771	8,191	542	839	-----	.621	4,924
1927 monthly average	17,295	16,788	4,564	81,077	844,219	4,589	6,302	4,951	1,730	8,715	384	701	-----	.564	4,892
1928 monthly average	14,075	46,730	4,207	81,776	863,216	5,677	7,282	4,679	1,694	9,045	510	741	-----	.582	4,782
1929 monthly average	24,304	9,715	4,282	81,546	867,839	5,328	6,950	5,015	1,799	9,058	1,003	619	-----	.530	4,762
<b>1928</b>															
September	4,273	3,810	4,125	83,247	857,731	5,739	6,229	4,087	2,177	9,138	872	1,457	-----	.575	4,804
October	14,331	992	4,133	121,539	897,720	7,319	7,252	4,352	2,051	8,514	856	718	-----	.581	4,836
November	29,591	22,916	4,151	102,893	872,484	5,448	7,674	4,756	1,459	8,643	905	346	-----	.580	4,860
December	24,950	1,636	4,142	77,220	859,761	5,120	8,489	5,273	1,815	10,555	1,011	1,011	-----	.573	5,008
<b>1929</b>															
January	48,577	1,378	4,115	68,042	876,452	8,260	8,264	5,023	1,747	9,241	595	344	-----	.570	4,748
February	26,913	1,425	4,143	55,651	815,284	4,458	6,595	4,776	1,124	7,190	642	684	-----	.562	4,686
March	26,470	1,635	4,166	57,765	866,529	6,435	7,814	5,223	1,569	6,855	1,274	414	-----	.563	4,709
April	24,687	1,594	4,226	65,547	872,123	3,957	5,752	5,422	1,151	6,365	867	1,032	-----	.557	4,679
May	24,098	467	4,292	70,520	897,598	4,602	7,485	5,080	1,560	6,711	1,105	360	-----	.541	4,684
June	30,762	550	4,311	73,468	856,029	5,022	5,445	4,976	1,146	8,386	1,382	543	-----	.524	4,687
July	35,525	807	4,335	92,256	889,480	4,723	6,795	4,523	1,910	11,943	682	339	-----	.525	4,764
August	19,271	881	4,351	100,387	889,601	7,345	8,522	5,006	2,744	9,000	1,074	880	-----	.526	4,777
September	18,781	1,205	4,368	77,029	849,553	4,111	4,374	4,634	2,437	9,649	1,112	914	-----	.510	4,811
October	21,321	3,805	4,381	121,193	888,690	5,403	7,314	5,130	2,605	11,934	1,451	489	-----	.499	4,810
November	7,123	30,289	4,374	113,723	861,593	5,144	8,678	5,795	1,833	10,305	1,322	598	-----	.496	4,845
December	8,121	72,547	4,324	82,970	851,134	4,479	6,369	4,592	1,761	11,122	529	827	-----	.485	4,943
<b>1930</b>															
January	12,908	8,948	4,283	75,955	882,801	4,756	5,892	4,753	1,716	5,877	535	1,244	-----	.450	4,652
February	60,198	207	4,319	72,009	818,188	3,923	5,331	5,161	1,225	12,717	977	1,144	-----	.432	4,556
March	55,768	290	4,395	73,745	889,370	4,831	5,818	4,998	1,714	8,844	338	496	-----	.417	4,533
April	65,835	110	4,443	80,694	868,606	3,570	4,648	4,627	1,705	7,514	356	690	-----	.424	4,518
May	23,552	82	4,505	76,786	916,213	3,486	4,978	4,293	1,585	9,080	348	844	-----	.407	4,497
June	13,938	26	4,528	90,764	-----	2,707	3,336	3,969	1,485	10,276	737	441	-----	.346	4,489
July	21,888	42,529	-----	115,119	-----	3,950	3,706	3,638	2,100	-----	459	312	-----	.343	-----
August	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Imports and exports of gold and silver from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

<sup>2</sup> Compiled by the Federal Reserve Board consisting of gold held in the Treasury and Federal reserve banks plus the amount in circulation. Gold held abroad by Federal reserve banks is included, but gold in the United States earmarked for foreign account is excluded. The figures are based on the daily monetary gold stock. Complete details are shown in the Federal Reserve Bulletin for December, 1927.

<sup>3</sup> Domestic receipts of unrefined gold at U. S. mint from U. S. Treasury Department, Bureau of the Mint.

<sup>4</sup> Silver prices, representing daily averages for the month in the New York market, and gold output from the Rand mines from the Engineering and Mining Journal.

<sup>5</sup> Production of silver by mines and producers' stocks from American Bureau of Metal Statistics, except annual figures previous to 1921, which are from U. S. Department of Interior, Geological Survey. The United States, Canada, and Mexico combined produced about 75 per cent of the world's output of silver in 1923. Production for both the United States and Canada includes purchases of crude silver by the mints in each country. Canadian production is incomplete, as the silver contained in blister copper, lead bullion, and zinc ores exported is omitted. Mexican production is reported to the bureau by the Mexican Government, and covers refined silver received at the mint for coinage, refined silver exported, and silver content of base bullion, blister copper, ore concentrates, etc., exported. Detailed data are contained in the bureau's monthly reports. Monthly data from 1921, except on production in the United States, appeared in the February, 1927, issue (No. 66), p. 25.

<sup>6</sup> Compiled by the U. S. Treasury Department and representing all money held outside the Treasury and the Federal reserve system, including gold and silver coin and certificates, minor coin, and notes. Details by classes of money are presented in the monthly circulation statement of the Treasury. These figures are based on the daily volume of money in circulation. A complete description of the revised computation is presented in the Federal Reserve Bulletin for December, 1927.



Table 107.—PUBLIC FINANCE, INTEREST RATES, AND BOND YIELDS

YEAR AND MONTH	UNITED STATES GOVERNMENT FINANCES <sup>1</sup>				INTEREST RATES							BOND YIELDS						
	Gross debt, end of mo.	Customs receipts	Total ordinary receipts	Ordinary expenditures	Stock Exchange		Prime bank-ers' ac-ceptances 90 days <sup>(2)</sup>	Prime compl. paper 4-6 mos. <sup>(2)</sup>	Fed. land banks <sup>(1)</sup>	Inter-med. credit banks <sup>(1)</sup>	Redis. N. Y. Fed. Res. Bk. <sup>(5)</sup>	Treas. notes and certs. 3-6 mos. <sup>(2)</sup>	Lib-erty and Treas. bds. <sup>(2)</sup>	Total, 69 high-grade bds. <sup>(3)</sup>	15 rail-roads <sup>(3)</sup>	15 in-dus-trial <sup>(3)</sup>	15 util-ities <sup>(3)</sup>	15 mu-ni-cipal <sup>(3)</sup>
					Call loans re-newal <sup>(2)</sup>	Time loans 90 days <sup>(2)</sup>												
	Mills. of dolls.	Thousands of dollars			Per cent													
1913 monthly av...	\$1,193	\$26,512	\$60,315	\$60,474	3.26	4.64								4.64	4.42	4.99	4.94	4.22
1914 monthly av...	1,188	24,344	61,195	61,282	3.72	4.37								4.58	4.46	4.93	4.87	4.12
1915 monthly av...	1,191	17,439	57,972	63,353	1.98	2.85					5.00			4.66	4.64	4.97	4.88	4.16
1916 monthly av...	1,225	17,636	65,003	61,250	2.57	3.25					5.00			4.53	4.49	4.89	4.79	3.94
1917 monthly av...	2,976	18,832	94,037	165,025	3.33	4.62			5.05		5.00			4.80	4.79	5.09	5.09	4.20
1918 monthly av...	12,244	15,000	305,382	1,058,153	5.24	5.90			5.45		5.00			5.23	5.20	5.45	5.76	4.50
1919 monthly av...	25,482	15,371	429,355	1,543,575	6.27	6.17			5.50		5.00			5.25	5.29	5.40	5.84	4.46
1920 monthly av...	24,298	26,909	557,880	540,174	7.78	8.26	7.46	6.08	5.50		6.50		5.45	5.88	5.79	6.01	6.73	4.98
1921 monthly av...	23,976	25,714	468,744	461,517	5.98	6.45	6.56	5.24	5.88		5.88	4.83	5.37	5.79	5.57	5.96	6.56	5.09
1922 monthly av...	22,964	29,704	342,425	316,275	4.29	4.63	4.48	3.51	5.71		4.20	3.47	4.35	4.94	4.85	5.21	5.46	4.23
1923 monthly av...	22,350	46,827	333,928	308,123	4.85	5.17	5.01	4.10	5.50	7.50	4.46	3.93	4.45	4.98	4.98	5.26	5.41	4.25
1924 monthly av...	21,251	45,470	334,337	292,223	3.08	3.75	3.88	2.97	5.50	5.12	3.67	2.77	4.09	4.85	4.78	5.21	5.22	4.20
1925 monthly av...	20,516	45,630	315,012	294,137	4.20	4.27	4.03	3.29	5.46	4.59	3.46	3.03	3.99	4.72	4.67	5.06	5.06	4.09
1926 monthly av...	19,643	48,286	330,813	298,749	4.50	4.61	4.35	3.59	5.30	4.70	3.84	3.25	3.95	4.60	4.51	4.91	4.90	4.08
1927 monthly av...	18,510	50,458	344,116	291,132	4.06	4.34	4.11	3.45	5.11	4.51	3.79	3.11	3.46	4.47	4.31	4.83	4.78	3.98
1928 monthly av...	17,604	47,415	336,862	303,627	6.04	5.85	4.86	4.09	5.05	4.80	4.54	3.97	3.44	4.49	4.34	4.88	4.68	4.05
1929 monthly av...	16,931	50,189	336,104	320,705	7.61	7.72	5.85	5.04	5.31	5.56	5.08	4.38	3.65	4.70	4.61	5.06	4.86	4.27
1930 monthly av...	16,185	48,917	348,162	332,846														
<b>1929</b>																		
May.....	17,167	48,279	166,722	225,269	8.91	8.75	6.00	5.50	5.13	5.56	5.00	5.09	3.67	4.69	4.58	5.06	4.85	4.23
June.....	16,931	52,401	765,882	420,473	7.70	8.13	6.00	5.50	5.20	5.62	5.00	4.80	3.71	4.73	4.65	5.09	4.90	4.26
July.....	16,832	52,144	169,473	349,825	9.23	7.75	6.00	5.13	5.29	5.67	5.00	4.55	3.68	4.73	4.67	5.09	4.90	4.28
August.....	16,805	56,427	174,502	210,725	8.23	8.88	6.13	5.13	5.31	5.67	6.00	4.70	3.72	4.74	4.67	5.09	4.89	4.31
September.....	16,720	52,612	670,736	399,068	8.50	8.88	6.25	5.13	5.44	5.67	6.00	4.58	3.70	4.76	4.71	5.12	4.90	4.32
October.....	16,698	57,607	175,998	364,678	6.43	8.00	6.25	5.13	5.51	5.68	5.00	4.37	3.67	4.73	4.66	5.08	4.91	4.29
November.....	16,692	44,126	143,889	218,407	5.44	5.38	5.75	4.19	5.79	5.70	4.50	3.47	3.45	4.70	4.57	5.09	4.88	4.25
December.....	16,301	39,298	742,942	443,191	4.83	4.88	5.00	3.88	5.79	5.57	4.50	3.03	3.46	4.64	4.50	5.03	4.80	4.22
<b>1930</b>																		
January.....	16,423	41,278	151,195	347,351	4.64	3.88	4.88	3.94	5.79	5.34	4.00	3.39	3.51	4.64	4.51	5.04	4.79	4.23
February.....	16,460	35,935	138,540	236,742	4.32	4.75	4.75	3.81	5.72	5.24	4.00	3.36	3.50	4.65	4.53	5.02	4.79	4.24
March.....	16,390	42,610	674,876	362,221	3.69	4.25	4.25	3.13	5.58	5.10	3.50	2.95	3.40	4.55	4.43	4.95	4.71	4.12
April.....	16,394	41,071	159,053	414,147	4.00	4.13	3.88	2.94	5.58	4.98	3.00	3.00	3.46	4.54	4.47	4.91	4.69	4.11
May.....	16,399	51,722	173,243	230,997	3.12	3.50	3.75	2.50	5.58	4.83	3.00	2.41	3.41	4.54	4.45	4.92	4.68	4.11
June.....	16,185	72,170	803,495	416,799	2.62	2.88	3.50	2.13	5.58	4.55	2.50	1.89	3.37	4.53	4.41	4.92	4.67	4.10
July.....	16,176	26,200	138,741	284,310	2.20	2.75	3.25	1.88			2.50	1.83	3.37	4.49	4.36	4.92	4.63	4.05
August.....																		
September.....																		
October.....																		
November.....																		
December.....																		

<sup>1</sup> Compiled by the U. S. Treasury Department. Yearly figures under this heading represent averages for the fiscal year ending June 30 of the year indicated, except the debt figures, which represent the condition on June 30. Debt figures up to the last two months are on a warrant basis, the current months being on a cash basis, as shown in the preliminary debt statement, where further details may be obtained. Monthly data extending back to 1921 appeared in the March, 1924, issue of the SURVEY (No. 31), p. 56. Receipts and expenditures are shown in detail currently in the daily statement of the U. S. Treasury. The large total receipts every three months are due to payment of income-tax installments. Expenditures represent those chargeable against ordinary receipts.

<sup>2</sup> Compiled by the Federal Reserve Board, except time loans prior to 1926 and call loans prior to 1921, which are from Ogle, Dunn & Co. Time-loan rates are those prevailing for New York Stock Exchange 90-day time loans, while call-loan rates are average renewal rates for the New York Stock Exchange. Monthly data from 1909 appeared in the June, 1928, issue (No. 82), p. 21.

<sup>3</sup> Compiled by the Standard Statistics Co., representing arithmetic averages of the yields to maturity on the individual high-grade bonds, calculated from averages of the high and low prices of the month. For the year 1914, when the exchanges were closed for several months, the average for railroad bonds excludes the months of August through October, the averages for industrials and public utilities exclude August through November, and the average for municipals excludes August through December.

<sup>4</sup> Compiled by the Federal Farm Loan Board, representing average interest rates charged by the Federal farm loan banks and intermediate credit banks, respectively. These rates are based on the interest rates on farm-loan bonds issued by the respective banks, being limited by law to a rate not exceeding 1 per cent higher than the rate of the bond issue. The law limits interest rates to a 6 per cent maximum. The rates given here for intermediate credit banks are those for direct loans only. For descriptions of these banks and the type of their loans, see Table 109. The rates shown for each month are the averages of the loan rates of the 12 banks in the systems of the Federal land and intermediate credit banks. No weight being given to the number of loans closed at the various rates. When a change of rate occurred during a month, the bank's average rate for that month was obtained, each rate during the month being weighted by the number of business days it was in force.

<sup>5</sup> From the Federal Reserve Board. Monthly averages for years prior to 1922 cover only 61-90 day commercial, agricultural, and livestock paper; since then rates shown are applicable to all classes and maturities of eligible paper.

<sup>6</sup> Average of 8 months, May to December, inclusive.

<sup>7</sup> Average of 10 months, March to December, inclusive.

<sup>8</sup> Beginning with 1927, Liberty bonds are excluded, and the average yield is calculated upon 3 issues of Treasury bonds (3½, 4, and 4½) to their last redemption dates (1952 to 1956). Prior to 1927 the yield is calculated on Liberty bonds only.

Table 108.—SECURITY PRICES AND SALES

YEAR AND MONTH	STOCK PRICES				BOND PRICE INDEXES									BOND YIELDS (%)	NEW YORK STOCK EXCHANGE SALES <sup>1</sup>			
	Com- bined index (103 stocks) ( <sup>2</sup> )	25 indus- trials ( <sup>3</sup> )	25 rail- roads ( <sup>4</sup> )	South- ern cotton mills ( <sup>5</sup> )	Com- bined index (40 bonds) ( <sup>6</sup> )	10 high- est grade rails ( <sup>6</sup> )	10 sec- ond grade rails ( <sup>6</sup> )	10 pub- lic utility bonds ( <sup>6</sup> )	10 indus- trial bonds ( <sup>6</sup> )	50 do- mestic bonds ( <sup>7</sup> )	5 Lib- erty and Treas- ury ( <sup>7</sup> )	40 rep- resen- tative foreign issues ( <sup>8</sup> )	Mun- icipal bonds	Stocks	Mis- cella- neous bonds	Liberty and Treas- ury bonds	Total bonds	
	Dollars per share				Per cent of par value of 4 per cent bond					Per cent of par value				Per cent	Thous. of shares	Thousands of dollars par value		
1913 m.a.	58.19	\$82.97											4.45	6,924	\$41,499		\$41,499	
1914 m.a.	58.08	77.57											4.16	3,992	56,959		56,959	
1915 m.a.	75.35	73.16			76.76	89.79	75.55	73.82	70.51				4.23	14,448	79,623		79,623	
1916 m.a.	99.14	80.05			80.49	92.45	78.00	77.59	75.89				4.06	19,404	94,199		94,199	
1917 m.a.	85.44	69.12			75.58	87.43	72.42	72.36	71.35				4.31	15,378	61,866	\$40,492	85,690	
1918 m.a.	80.98	61.34			69.84	80.02	66.12	63.89	69.36				4.58	11,948	47,544	117,059	164,603	
1919 m.a.	105.77	62.06			69.07	77.89	66.33	61.77	70.76				4.50	26,073	71,322	236,814	308,136	
1920 m.a.	107.21	55.94			59.70	71.33	58.56	51.98	60.12				5.04	18,728	88,563	235,406	323,969	
1921 m.a.	58.41	79.38	53.21		60.15	74.39	61.43	53.92	55.29				5.02	14,334	115,686	173,130	288,816	
1922 m.a.	69.42	98.58	62.38		74.11	85.50	71.76	67.50	74.00		99.54		4.21	21,852	206,948	136,442	343,390	
1923 m.a.	58.16	107.78	60.15	\$138.45	71.72	82.86	67.71	66.26	72.27	92.11	98.77		4.27	19,773	161,521	66,549	227,903	
1924 m.a.	53.15	115.08	67.18	124.68	74.32	85.11	71.96	68.93	73.21	94.48	101.44		4.21	23,336	243,145	72,178	315,323	
1925 m.a.	63.48	152.65	82.48	116.99	77.04	86.96	76.69	70.81	75.42	96.42	102.62		4.13	37,684	256,621	29,503	286,124	
1926 m.a.	62.92	165.70	93.27	114.25	80.31	89.48	81.21	74.40	77.86	98.38	102.73		4.13	37,425	238,734	21,311	260,045	
1927 m.a.	69.19	214.54	113.81	111.29	83.69	94.47	85.28	77.47	79.53	100.35	104.12		3.99	48,083	282,539	24,158	306,697	
1928 m.a.	77.02	268.92	122.06	107.61	84.06	92.87	84.91	80.33	79.48	100.49	104.61		4.06	76,713	231,956	14,860	246,816	
1929 m.a.	79.25	366.29	135.87	93.62	79.21	87.50	79.43	75.11	75.98	97.43	101.55		4.32	93,749	241,931	11,846	253,777	
<b>1928</b>																		
Sept.	78.49	283.99	124.82	103.31	82.53	91.05	82.51	79.51	78.18	99.57	103.11		4.16	90,907	190,582	10,467	201,049	
Oct.	78.45	293.51	123.40	103.19	82.79	90.72	81.98	81.12	78.34	99.72	103.85		4.16	99,077	226,621	11,949	238,570	
Nov.	86.20	316.15	130.07	102.58	83.31	91.30	83.11	81.30	78.57	99.84	103.75		4.14	115,434	210,897	10,569	221,466	
Dec.	87.10	286.66	126.10	101.97	82.34	89.83	81.87	80.34	78.23	99.36	103.45		4.17	92,837	190,010	16,947	206,957	
<b>1929</b>																		
Jan.	87.48	344.17	132.40	101.04	82.39	90.09	81.27	80.16	78.89	99.19	102.49		4.19	110,804	235,427	13,772	249,199	
Feb.	85.73	350.88	131.70	99.76	81.48	88.63	80.22	79.63	78.20	98.55	101.36		4.22	77,969	174,447	9,504	183,951	
Mar.	83.61	355.10	129.30	98.10	80.34	87.87	79.13	77.68	77.49	97.43	100.14		4.34	105,662	201,566	12,149	213,715	
Apr.	81.55	357.70	128.49	98.00	80.00	88.05	79.27	76.19	77.47	98.25	101.75		4.25	82,600	205,649	9,970	215,619	
May.	76.26	363.37	128.95	96.77	79.33	87.81	79.13	75.03	76.51	96.79	100.24		4.30	91,283	225,716	8,851	234,567	
June.	82.50	372.70	134.37	95.15	78.37	86.37	78.59	74.82	75.29	96.57	100.87		4.33	69,548	227,676	9,848	237,524	
July.	86.25	414.04	149.27	92.45	77.99	86.06	78.55	73.25	75.24	96.82	100.64		4.41	93,379	295,577	13,330	308,907	
Aug.	90.35	431.20	151.29	90.41	77.43	85.98	77.25	73.14	74.54	96.51	100.61		4.41	95,705	251,287	8,510	259,797	
Sept.	82.47	448.78	152.26	89.37	77.23	85.51	77.64	73.13	73.84	96.34	100.34		4.49	100,056	210,995	9,267	220,262	
Oct.	69.91	395.95	142.30	88.61	78.23	86.69	79.35	73.31	74.88	96.75	102.20		4.37	141,668	337,374	15,839	353,213	
Nov.	62.40	274.63	123.25	86.99	78.08	87.79	80.14	72.05	74.18	98.16	104.24		4.29	72,455	275,288	15,746	291,034	
Dec.	62.48	286.95	126.84	86.73	79.65	89.18	82.66	73.41	75.26	97.81	103.76	88.40	4.23	83,862	262,174	15,361	277,535	
<b>1930</b>																		
Jan.	65.46	294.78	126.29	85.63	79.44	89.52	82.39	73.45	74.49	97.90	103.08	89.74	4.29	62,308	201,401	7,975	209,375	
Feb.	66.56	315.25	131.94	84.90	79.58	88.81	82.66	74.10	74.59	98.16	103.87	90.88	4.27	68,723	195,046	8,136	203,182	
Mar.	69.71	328.24	131.55	82.20	81.27	90.52	84.73	75.63	76.06	99.20	104.53	93.88	4.15	96,552	335,934	15,222	351,156	
Apr.	64.66	349.46	131.18	80.70	81.23	89.81	84.32	75.76	76.64	98.87	104.16	91.97	4.17	126,910	264,898	9,731	274,629	
May.	64.73	327.04	123.59	77.76	81.20	90.42	84.49	75.36	76.35	99.23	104.92	92.01	4.18	78,040	220,131	7,064	227,195	
June.	54.84	284.36	113.84	74.91	81.10	91.36	84.91	74.78	75.60	99.10	105.28	90.62	4.14	76,593	218,500	11,789	230,289	
July.	282.64	113.69	71.92		81.43	92.83	85.09	74.99	75.43				4.03	46,753	183,716	10,112	193,828	
Aug.																		
Sept.																		
Oct.																		
Nov.																		
Dec.																		

<sup>1</sup> Average market yield of bonds of 20 large cities at the end of each month compiled by *The Bond Buyer*. Averages for 1913 to 1916, inclusive, taken from *Bond Buyer's Index* of the Municipal Bond Market, based on period Jan. 1 to Dec. 1; subsequent yearly data are averages for the period Jan. 31 to Dec. 31.

<sup>2</sup> Bond sales from *Dow, Jones & Co.*; stock sales from the *Analyst*. These data include only sales on the New York Stock Exchange and not those in the "over-the-counter" market or on other exchanges. Monthly data from 1920 are given for most items in this table in the May, 1922, issue (No. 9), pp. 125 and 129.

<sup>3</sup> This index, compiled as of the last day of the month by the *New York Trust Co.*, includes 25 railroad, 10 iron and steel, 5 railroad equipment, 9 motor (including accessories), 5 rubber tire, 5 shipping, 5 sugar, 5 leather and shoe, 5 tobacco, 10 public utility, 10 copper, and 9 oil.

<sup>4</sup> Prices are averages of daily closing prices for these stocks on New York Stock Exchange, taken from the *Analyst*. Monthly data from 1913 are given in the December, 1922, issue (No. 16), p. 47.

<sup>5</sup> Compiled from weekly quotations of 25 southern cotton-mill stocks as furnished by *R. S. Dickson & Co.* Monthly data from 1923 may be found on p. 24 of the March, 1926, issue (No. 55).

<sup>6</sup> These indexes are compiled by *Dow, Jones & Co.* from the yields of the average prices of the bonds for each day of the month, the average yields for the 10 bonds of each class being capitalized at 4 per cent to give the combined index.

<sup>7</sup> This index, compiled as of the last day of the month by the *New York Trust Co.*, includes 6 Liberty and Victory bonds (the 2 issues of Victory bonds being replaced at their redemption by the Treasury bonds, thus making only 5 issues), 20 railroad, 10 public utility, 5 telegraph and telephone, and 10 industrial issues.

<sup>8</sup> Compiled by the *New York Trust Co.* and represent the average value of 40 government, municipal, and industrial bonds. As far as possible bonds quoted below par have been used for the new average.

<sup>9</sup> 7 months' average, June to December, inclusive.

<sup>10</sup> 5 substitutions in this series in January, 1922, account for the violent change in the index.

<sup>11</sup> 10 months' average, March to December, inclusive.

Table 109.—STOCK PRICE INDEXES BY GROUPS AND YIELDS <sup>1</sup>

YEAR AND MONTH	PRICE INDEXES																YIELDS, Industrials	
	Total	Rail-roads	Utili-ties	Industrials												Com-mon	High grade pref.	
				Total	Auto-mob-iles	Petro-leum	Rub-ber tires and goods	Steel and iron	Ma-chin-ery	R. R. equip-ment	Copper and brass	Tex-tiles	Food, except meat	Chain stores	Tobacco and products			Thea-ter
	Number of stocks in each group																90	20
	402	33	34	335	13	16	7	9	10	9	9	30	20	17	10	7	Per cent	
Relative to 1926 average																Per cent		
1923 mo. av ..	69.0	71.9	74.7	66.6	42.0	89.7	78.4	79.5	-----	74.7	77.6	190.3	65.3	34.1	63.6	55.9	-----	6.12
1924 mo. av ..	72.8	76.7	78.9	69.8	42.5	87.1	53.6	81.3	-----	77.5	78.0	143.1	78.5	44.1	67.1	57.3	-----	6.08
1925 mo. av ..	89.7	89.5	94.9	88.4	71.9	96.8	94.2	92.1	-----	97.1	92.4	111.9	92.5	81.4	81.0	86.9	-----	5.90
1926 mo. av ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-----	100.0	100.0	100.0	100.0	100.0	100.0	100.0	-----	5.78
1927 mo. av ..	118.3	119.1	116.0	117.6	148.5	99.4	113.3	126.1	-----	110.9	122.6	112.0	114.9	121.0	114.2	136.4	-----	4.76
1928 mo. av ..	149.9	128.5	148.9	154.3	241.5	114.1	133.5	148.0	-----	136.0	131.9	164.1	132.0	158.2	141.5	144.9	-----	3.95
1929 mo. av ..	190.3	147.3	234.6	189.4	234.0	145.6	170.1	196.1	-----	165.2	141.4	270.4	117.4	173.3	141.9	140.4	-----	5.50
<b>1928</b>																		
January.....	134.4	125.3	129.5	137.4	183.5	104.1	153.3	146.7	-----	126.1	141.3	137.8	134.9	148.8	130.3	159.2	-----	4.31
February.....	132.3	121.6	130.9	134.8	182.0	100.0	139.6	141.1	-----	124.4	136.9	135.5	132.6	146.8	128.6	150.0	-----	4.39
March.....	137.9	125.9	134.4	141.1	217.4	102.7	129.3	142.0	-----	126.3	138.2	135.1	132.9	149.1	131.6	149.5	-----	5.28
April.....	145.9	130.7	142.5	149.5	241.4	109.7	127.4	145.5	-----	133.6	137.4	143.7	138.2	154.9	135.6	149.1	-----	3.89
May.....	152.1	133.2	155.3	154.9	249.4	118.7	128.8	145.6	-----	138.0	135.2	151.5	138.7	158.4	139.0	140.0	-----	5.21
June.....	145.3	126.7	148.1	148.2	235.3	112.0	115.8	137.7	-----	132.3	127.1	147.5	126.3	152.4	136.8	134.9	-----	5.32
July.....	144.2	124.6	145.3	147.8	238.4	110.9	113.3	136.6	-----	132.7	125.1	150.0	120.3	152.1	135.3	134.3	-----	5.40
August.....	148.3	126.5	147.9	152.6	244.7	112.6	119.3	143.6	-----	135.4	123.6	155.2	120.5	158.1	142.9	137.6	-----	5.43
September.....	156.6	129.6	155.8	162.2	270.0	115.7	127.6	155.8	-----	139.4	129.5	172.0	125.9	167.1	150.5	142.5	-----	5.41
October.....	159.1	128.2	154.5	166.2	283.6	117.0	137.6	158.7	-----	140.1	126.8	185.1	131.6	167.1	150.9	141.8	-----	5.44
November.....	171.1	134.9	168.6	178.9	284.3	132.6	143.2	164.6	-----	148.7	130.6	227.0	142.5	171.7	161.0	150.6	-----	5.42
December.....	171.4	134.9	173.4	178.4	268.5	132.7	167.3	157.8	-----	154.9	130.7	228.6	139.9	171.6	155.7	148.8	-----	5.43
<b>1929</b>																		
January.....	185.2	141.8	192.7	192.5	281.4	137.4	195.4	173.8	-----	167.7	139.2	262.0	143.7	180.9	158.6	153.1	-----	5.42
February.....	186.5	141.6	202.4	192.3	277.1	132.6	188.9	178.9	-----	173.5	140.2	286.2	138.3	177.4	152.9	146.1	-----	5.43
March.....	189.1	140.4	203.7	196.0	284.2	141.4	209.8	186.6	-----	167.2	144.3	329.3	136.2	173.9	149.6	142.5	-----	5.44
April.....	186.6	138.3	201.4	193.4	277.6	147.6	200.3	190.8	-----	163.1	142.4	294.0	131.5	171.4	148.7	136.4	-----	5.45
May.....	187.8	138.7	212.3	192.6	260.5	146.3	194.4	185.3	-----	160.8	138.2	279.8	127.0	172.0	148.3	139.1	-----	5.45
June.....	190.7	144.8	233.0	191.0	241.7	144.1	184.8	188.2	-----	159.4	141.7	270.8	122.4	175.6	144.5	135.1	-----	5.49
July.....	207.2	160.0	272.8	202.7	241.0	149.1	184.9	211.5	-----	171.8	148.5	280.8	120.3	189.1	148.0	139.1	-----	5.52
August.....	218.1	165.4	304.3	210.3	240.8	157.5	169.5	238.4	-----	177.2	157.8	288.9	118.1	186.7	148.7	141.6	-----	5.54
September.....	225.3	168.1	321.0	216.1	240.9	166.7	163.4	243.9	-----	191.4	157.6	294.4	114.1	191.1	154.6	141.5	-----	5.52
October.....	201.7	157.0	276.6	194.4	195.6	161.4	147.4	217.1	-----	172.3	143.6	258.7	103.1	176.2	138.7	146.4	-----	5.54
November.....	151.1	135.1	194.4	144.8	133.7	130.6	103.0	169.1	-----	135.3	119.5	204.0	77.8	141.4	104.3	128.4	-----	5.65
December.....	153.8	136.3	200.9	146.9	133.6	131.9	99.6	169.9	-----	142.5	123.7	196.0	76.6	144.1	106.1	135.0	-----	5.54
<b>1930</b>																		
January.....	153.3	136.5	208.7	148.8	135.0	128.8	95.9	177.1	-----	145.6	124.1	192.8	78.3	146.0	102.3	139.3	-----	5.53
February.....	165.5	142.5	230.6	155.9	145.0	127.5	103.7	187.8	-----	154.4	127.9	193.3	85.0	150.6	100.2	152.3	-----	5.52
March.....	172.4	143.2	242.1	163.0	154.9	140.6	111.1	191.9	-----	161.4	126.4	192.8	84.7	153.4	99.9	159.6	-----	5.48
April.....	181.0	141.7	263.7	170.8	162.0	155.7	111.1	196.4	-----	172.9	119.8	174.3	83.2	159.9	101.1	157.8	-----	5.46
May.....	170.5	136.0	250.0	160.1	151.7	147.9	99.4	174.1	-----	169.8	109.7	151.0	76.7	159.5	96.5	158.9	-----	5.48
June.....	152.8	124.5	222.5	143.1	134.0	133.1	84.0	161.1	-----	152.1	98.8	134.6	68.5	148.7	89.5	145.2	-----	5.52
July.....	149.3	124.2	215.4	139.8	132.2	132.9	76.8	159.1	-----	154.5	94.3	129.1	67.1	149.4	88.7	146.6	-----	5.56
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the Standard Statistics Co., Inc., and represent long-term indexes of common-stock market values weighted according to the number of shares of each stock outstanding, computed as of the close each Friday, and presented in relatives with the 1926 monthly average taken as equal to 100. Weekly indexes have been averaged to give monthly data. Industrial stock yields have been computed by dividing the total annual dividend rate each month by the total of monthly prices, using the average of high and low monthly stock prices. Only such stocks as have paid some dividend every year since 1914 have been included in the common grouping; extra cash dividends, on an annual basis, are added to regular dividends and are considered to be part of such regular dividends, while stock dividends are disregarded, as such adjustments are largely cared for in the market price of the stock. As preferred stocks have various dividend rates, all prices have been adjusted to an equivalent 7 per cent basis and \$100 par previous to averaging.

Table 110.—NEW SECURITY ISSUES AND AGRICULTURAL FINANCING

YEAR AND MONTH	CORPORATE SECURITIES <sup>1</sup>					MUNICIPAL SECURITIES <sup>2</sup>		CANADIAN BOND SALES <sup>3</sup>			TAX-EX. SECURITIES <sup>4</sup>	AGRICULTURAL LOANS OUTSTANDING (end of month)			FOR-IGN ISSUES <sup>7</sup>
	Total	Stocks	Bonds and notes	New capital	Refunding	Perma-nent loans (long term)	Temp-orary loans (short term)	Dom-and-prov-inci-al	Muni-cipal	Cor-pora-tion bonds	Total out-stdg. end of mo.	Federal farm loan banks <sup>5</sup>	Joint stock land banks <sup>5</sup>	Federal Inter-med. credit banks <sup>6</sup>	Offered in U. S.
	Thousands of dollars										Mil. of dolls.	Thousands of dollars			
1913 m. a.	\$137, 145					\$34, 040	\$40, 268	\$4, 422	\$9, 647	\$6, 171	\$4, 567				
1914 m. a.	119, 710					37, 200	24, 332	7, 118	3, 644	3, 644	4, 989				3, 723
1915 m. a.	119, 613					41, 049	12, 894	17, 901	5, 542	1, 888	5, 201				68, 127
1916 m. a.	182, 208					41, 450	24, 367	17, 385	4, 158	3, 540	5, 587				96, 633
1917 m. a.	127, 498					37, 078	32, 704	56, 198	2, 365	2, 708	6, 936				60, 025
1918 m. a.	112, 068					21, 902	39, 428	58, 000	4, 917	628	8, 047	\$110, 498			1, 955
1919 m. a.	228, 305	130, 484	97, 821	191, 944	36, 360	63, 528	37, 508	64, 429	2, 583	5, 121	7, 893	237, 478	\$34, 257		64, 254
1920 m. a.	247, 192	89, 257	157, 935	225, 834	21, 358	64, 742	55, 341	9, 749	4, 466	3, 846	8, 512	338, 234	76, 951		50, 245
1921 m. a.	199, 234	23, 272	175, 962	151, 909	47, 325	115, 281	63, 503	13, 395	7, 052	5, 121	9, 198	373, 381	79, 124		57, 701
1922 m. a.	256, 107	51, 999	204, 108	194, 645	61, 462	106, 629	32, 965	27, 125	7, 290	6, 729	10, 372	546, 519	143, 410		71, 921
1923 m. a.	269, 403	61, 330	208, 073	225, 208	44, 195	94, 597	42, 846	25, 107	7, 227	10, 880	11, 476	732, 365	131, 837		41, 466
1924 m. a.	319, 881	72, 191	247, 690	276, 858	43, 023	120, 557	81, 590	25, 748	7, 270	15, 284	12, 754	879, 929	421, 394	\$50, 883	101, 435
1925 m. a.	394, 843	109, 248	285, 595	341, 727	53, 115	117, 059	72, 172	22, 189	3, 849	12, 996	13, 727	974, 737	502, 183	64, 333	109, 681
1926 m. a.	441, 630	109, 814	331, 815	363, 084	78, 546	113, 503	55, 101	14, 897	5, 242	22, 146	14, 838	1, 045, 135	599, 098	81, 239	107, 372
1927 m. a.	609, 933	147, 774	462, 159	449, 251	160, 682	123, 147	49, 435	13, 202	6, 457	25, 255	15, 778	1, 128, 003	619, 597	72, 734	131, 451
1928 m. a.	651, 490	302, 180	349, 309	506, 634	144, 856	115, 818	59, 733	7, 385	2, 269	21, 787	16, 759	1, 182, 496	608, 629	73, 115	124, 113
1929 m. a.	835, 530	576, 784	258, 746	719, 953	115, 577	120, 198	76, 749	9, 913	9, 644	18, 279	17, 761	1, 201, 520	596, 667	74, 337	58, 814
<b>1929</b>															
Jan.	970, 874	633, 336	337, 538	828, 327	142, 547	73, 351	114, 675	6, 417	17, 022	13, 205	17, 116	1, 195, 089	604, 375	79, 462	38, 716
Feb.	975, 578	673, 023	302, 555	853, 184	122, 394	88, 753	71, 749	None.	7, 037	28, 725	17, 156	1, 199, 766	603, 827	78, 532	51, 423
Mar.	940, 780	565, 389	375, 391	882, 453	58, 327	109, 056	55, 411	None.	5, 444	47, 326	17, 221	1, 202, 571	604, 294	80, 706	184, 025
Apr.	720, 829	433, 307	287, 522	586, 657	134, 172	87, 343	105, 141	10, 000	1, 420	2, 485	17, 329	1, 203, 724	602, 421	77, 609	12, 659
May.	1, 313, 893	869, 271	444, 622	923, 046	390, 847	179, 455	60, 118	41, 266	22, 712	6, 607	17, 437	1, 204, 128	599, 413	69, 326	63, 285
June.	641, 129	359, 009	282, 120	624, 907	16, 222	162, 168	48, 109	2, 526	7, 363	16, 080	17, 501	1, 204, 916	597, 956	68, 101	128, 226
July.	862, 847	650, 604	212, 243	803, 553	59, 294	86, 745	59, 321	None.	1, 537	39, 525	17, 556	1, 204, 363	596, 403	68, 981	41, 708
Aug.	788, 222	670, 090	118, 132	763, 177	25, 045	80, 415	86, 164	None.	1, 449	693	17, 635	1, 203, 806	594, 876	68, 882	25, 250
Sept.	1, 507, 876	1, 265, 887	241, 989	1, 201, 284	306, 592	100, 287	95, 978	8, 257	3, 760	5, 147	18, 285	1, 202, 490	593, 388	72, 204	13, 197
Oct.	757, 254	471, 166	286, 088	724, 166	33, 088	122, 346	99, 505	2, 000	1, 080	23, 775	18, 409	1, 200, 932	590, 507	75, 373	42, 295
Nov.	202, 131	126, 733	75, 398	186, 793	15, 338	65, 974	74, 187	14, 995	18, 766	3, 944	18, 452	1, 199, 174	587, 723	76, 780	35, 005
Dec.	344, 946	203, 594	141, 352	261, 891	83, 055	286, 517	50, 624	33, 500	28, 139	31, 830	19, 040	1, 197, 282	584, 824	76, 091	69, 888
<b>1930</b>															
Jan.	702, 179	126, 813	575, 366	629, 083	73, 096	103, 851	96, 779	3, 358	7, 773	15, 000	19, 061	1, 195, 787	582, 062	77, 129	75, 000
Feb.	496, 209	156, 143	340, 066	468, 574	27, 635	78, 740	81, 724	8, 500	12, 521	35, 290	19, 173	1, 195, 735	580, 148	77, 802	101, 000
Mar.	646, 326	123, 388	522, 938	630, 889	15, 437	127, 028	102, 040	4, 165	10, 821	15, 975	19, 665	1, 194, 918	577, 195	81, 184	162, 000
Apr.	679, 703	261, 380	418, 323	628, 444	51, 259	148, 955	83, 074	19, 820	8, 861	25, 400	19, 735	1, 194, 324	574, 392	89, 507	165, 000
May.	927, 376	433, 640	493, 736	864, 042	63, 334	142, 448	24, 614	46, 993	27, 522	12, 690	19, 811	1, 194, 030	571, 885	96, 248	129, 751
June.	512, 678	154, 955	357, 723	445, 363	67, 315	153, 699	69, 742	7, 300	4, 056	13, 900	19, 769	1, 192, 720	569, 363	91, 665	187, 855
July.	428, 762	70, 430	358, 332	402, 281	26, 481	104, 986	143, 458	1, 000	12, 930	3, 475					69, 602
Aug.															
Sept.															
Oct.															
Nov.															
Dec.															

<sup>1</sup> Compiled by the *Commercial and Financial Chronicle*, except for data previous to 1920, which are from the *New York Journal of Commerce*. The columns "New capital" and "Refunding" include all types of financing to be used for the purpose designated. Distribution of bond issues by classes, from 1920 through September, 1924, appeared in June, 1923, issue (No. 22), p. 42, and in November, 1924, issue (No. 39), p. 187. Further details are given in the *Commercial and Financial Chronicle*.

<sup>2</sup> Sales of new securities by States and municipalities compiled by *The Bond Buyer*. The short-term loans are temporary, usually replaced later by permanent loans.

<sup>3</sup> Compiled, prior to 1927, by *The Financial Post, Canada*; thereafter by *A. E. Ames & Co.*, covering bonds issued in Canada; segregation between those sold in Canada and those sold in United States are shown in weekly reports.

<sup>4</sup> Compiled by the *U. S. Treasury Department* from actual reports and estimates of the net amount of fully tax-exempt securities outstanding at the end of the month (i. e., total outstanding less amounts in sinking fund or owned by the United States Government). The detailed estimates show separate classifications for (1) States, counties, cities, etc., (2) Territories and insular possessions, (3) United States Government, and (4) Federal farm loan system. Monthly figures since January, 1913, are given on p. 23 of the February, 1928, issue (No. 78).

<sup>5</sup> These data, from the *Federal Farm Loan Board*, represent loans made for agricultural development secured by mortgages on land and buildings, the Federal farm loan banks being established by the Government in 12 districts, while the joint-stock land banks, of which 70 are now in existence, are private organizations. The banks were closed during the greater part of 1920, pending litigation in the Supreme Court involving the constitutionality of the Federal farm loan act, and in 1921 many loan requests could not be granted because the cessation of bond selling had depleted the resources. Monthly figures on loans closed from 1920 appeared in June, 1923, issue (No. 22), p. 47.

<sup>6</sup> The Federal intermediate credit banks under the supervision of the *Federal Farm Loan Board* are located in the same cities as the 12 Federal land banks, as follows: Springfield, Mass.; Baltimore, Md.; Columbia, S. C.; Louisville, Ky.; New Orleans, La.; St. Louis, Mo.; St. Paul, Minn.; Omaha, Neb.; Wichita, Kans.; Houston, Tex.; Berkeley, Calif.; and Spokane, Wash. These banks lend money on staple agricultural products and make rediscounts for agricultural credit corporations and livestock loan companies.

<sup>7</sup> Compiled by the *U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce*, representing the amount of foreign capital issues, both Government and private, publicly offered in the United States by American underwriters. Details by individual issues, classified by countries, are shown in the bureau's reports. Monthly data from 1914 appeared in the April, 1928, issue (No. 80), p. 22.

<sup>8</sup> 6 months' average, March, June, September, October, November, and December.

Table 111.—NEW SECURITY ISSUES BY CLASSES <sup>1</sup>

YEAR AND MONTH	Foreign government	CORPORATE ISSUES							LONG-TERM REAL ESTATE BONDS							Interest rates	
		Total corporate	Railroads	Public utilities	Industrials	Oils	Land, building, etc.	Shipping and miscellaneous	Grand total	Purpose of issue			Kind of structure				
										To finance construction	Real estate mortgages	Acquisitions and improvements	Office and other commercial	Hotels	Apartments		
Thousands of dollars														Per ct.			
1919 mo. av.	\$36,640	\$228,805	\$17,343	\$38,523	\$73,455	\$54,310	\$5,565	\$25,908									
1920 mo. av.	24,250	247,192	31,490	41,402	88,595	38,222	7,700	30,970									
1921 mo. av.	31,606	199,234	54,607	55,924	43,881	27,671	4,542	13,450									
1922 mo. av.	35,942	256,107	54,294	80,007	52,818	25,192	14,875	28,920	\$13,338	\$8,452	\$1,066	\$2,209	\$6,171	\$2,676	\$2,404	6.91	
1923 mo. av.	20,237	269,408	43,187	94,866	68,248	18,822	21,013	23,268	19,940	13,014	2,157	3,696	9,723	4,354	3,499	6.58	
1924 mo. av.	69,000	319,881	78,358	127,470	51,512	15,627	27,958	18,956	26,604	19,001	4,328	1,057	12,214	4,964	5,567	6.50	
1925 mo. av.	53,782	394,843	42,892	143,753	76,887	23,545	62,722	40,879	57,963	33,322	12,613	7,233	21,892	9,761	8,155	6.29	
1926 mo. av.	42,844	441,630	35,215	163,996	88,938	41,643	61,347	46,889	53,701	29,480	10,643	6,861	21,806	8,637	7,261	6.18	
1927 mo. av.	64,761	609,933	80,234	248,115	97,961	35,468	55,724	86,373	47,562	22,517	11,435	5,320	15,542	4,022	5,125	6.03	
1928 mo. av.	54,260	651,490	60,645	213,524	125,989	20,051	67,447	158,465	56,855	21,077	17,736	7,464	16,676	3,730	3,517	5.89	
1929 mo. av.	5,688	835,530	68,100	203,564	166,222	29,157	43,930	314,954	27,823	11,151	6,747	4,807	8,490	3,403	1,667	6.05	
<b>1928</b>																	
January	79,808	588,035	78,222	205,155	118,902	2,200	78,741	93,793	61,167	32,759	12,900	6,533	29,000	650	4,309	6.01	
February	117,351	626,265	75,216	262,825	93,570	20,675	48,038	125,241	39,840	14,085	2,710	12,175	22,415	700	1,910	5.78	
March	85,750	766,245	192,781	233,233	132,262	12,952	73,935	119,598	62,962	13,520	35,557	4,225	11,965	4,010	4,060	5.87	
April	87,130	842,347	95,053	380,466	140,438	7,300	97,152	128,938	87,748	29,220	36,865	16,323	14,605	11,395	3,635	5.84	
May	82,885	782,232	28,601	241,697	151,551	15,629	82,253	262,002	77,450	44,515	20,910	2,600	45,175	10,300	4,265	5.81	
June	48,550	830,934	42,158	373,590	190,356	21,241	74,071	130,718	66,364	27,400	6,763	2,610	22,430	885	4,085	5.78	
July	41,396	323,748	18,874	57,598	96,810	15,030	64,538	75,374	48,495	18,581	24,079	1,510	9,786	4,020	4,600	5.86	
August	None.	201,426	13,726	97,776	32,989	None.	30,256	26,678	21,947	9,970	5,590	3,252	4,785	2,200	3,145	5.76	
September	43,500	428,184	None.	202,239	98,234	None.	57,517	70,194	52,116	4,460	32,955	530	2,510	400	270	5.79	
October	36,750	658,604	45,830	209,591	114,233	None.	85,627	178,624	64,864	33,290	11,898	1,509	15,018	9,900	8,423	6.12	
November	15,000	767,129	57,800	106,011	152,092	99,616	73,745	277,866	61,360	12,590	14,980	26,550	11,095	300	1,970	6.02	
December	13,000	1,002,728	79,479	192,108	195,434	54,169	43,492	412,553	37,952	12,530	7,622	11,750	11,325	None.	1,530	6.09	
<b>1929</b>																	
January	15,750	970,874	61,613	175,084	234,405	24,070	69,009	405,693	61,065	13,610	11,245	26,200	12,535	None.	2,925	6.04	
February	10,000	975,578	11,695	253,001	165,897	6,597	118,249	394,300	34,049	8,945	7,824	2,870	6,700	2,275	2,160	6.05	
March	10,000	940,780	21,500	316,262	215,350	11,594	77,314	289,395	68,431	23,250	31,663	9,280	22,340	375	1,375	5.87	
April	None.	720,829	159,783	127,311	145,118	35,267	33,952	202,572	21,711	12,962	4,529	2,000	5,390	7,810	1,722	5.90	
May	None.	1,313,893	105,308	342,919	459,215	36,102	48,857	319,290	22,868	8,720	4,148	2,275	4,760	2,900	1,885	6.11	
June	6,000	641,129	91,350	139,552	105,205	45,641	40,843	218,539	20,025	4,295	4,800	7,485	10,845	700	2,200	6.07	
July	None.	862,847	27,580	319,796	127,621	17,639	41,269	328,944	36,790	24,660	4,556	2,390	24,860	1,175	1,582	6.09	
August	15,000	788,222	660	108,910	91,282	2,105	35,503	549,763	28,403	16,108	8,485	105	9,875	9,995	1,588	6.03	
September	8,000	1,507,876	81,520	380,291	280,078	51,060	6,501	708,487	5,338	950	188	200	880	None.	215	6.14	
October	3,500	757,254	57,220	102,356	98,202	100,680	23,723	306,075	19,275	13,875	2,250	200	2,050	11,600	225	6.16	
November	None.	202,131	65,784	26,500	51,400	5,287	19,259	33,893	7,820	1,910	1,055	4,380	115	4,010	1,040	5.96	
December	None.	344,946	133,183	150,779	20,897	4,900	12,683	22,504	8,100	4,530	215	300	1,530	None.	3,090	6.16	
<b>1930</b>																	
January	4,000	702,179	60,483	492,000	34,595	2,275	28,193	84,634	23,363	17,500	2,075	750	17,225	690	235	6.10	
February	40,000	496,209	118,225	172,445	141,395	6,500	17,725	39,119	15,290	3,050	3,205	200	8,800	None.	None.	6.01	
March	26,000	646,326	223,013	228,481	49,931	76,000	17,075	51,226	11,350	4,740	1,360	850	5,130	None.	385	6.00	
April	121,675	679,703	178,662	130,777	169,229	63,742	64,541	72,752	27,435	8,295	180	5,000	7,685	110	5,000	6.13	
May	79,781	927,376	60,435	604,486	154,845	23,932	7,599	31,080	3,813	88	2,025	100	1,943	500	None.	5.93	
June	103,250	512,678	178,467	172,091	55,953	66,000	15,383	24,785	11,093	6,648	1,555	1,110	3,035	198	5,665	6.20	
July	42,100	428,762	62,632	234,465	45,920	625	22,070	63,050	16,425	10,725	2,590	480	3,395	1,400	10,050	5.99	
August																	
September																	
October																	
November																	
December																	

<sup>1</sup> From the *Commercial and Financial Chronicle*, showing new financing in the United States. Corporate financing includes both stock and bond finances, and foreign as well as American corporations. The industrial group comprises the following classifications given in the detailed statements: Iron, steel, coal, copper, etc.; equipment manufacturers; motors and accessories; rubber and miscellaneous industrials. The data on long-term real-estate bonds which represents only those put out by mortgage bonding houses, have been segregated from detailed figures of individual issues in the land and building group as given in the *Chronicle*, eliminating data on stocks and short-term bonds. These latter items, however, were shown in the September, 1925, issue (No. 49) of the *SURVEY*, p. 25, together with interest rates on the short-term bonds and the data shown here on long-term bonds extending back to January, 1922. In the classifications shown above by purpose of issue and by kind of structure, the miscellaneous group, making the difference between the totals of the three classes shown and the grand total, has been omitted. The interest rates shown are the average coupon rates on the long-term real-estate bonds issued during the month.

Table 112.—BUSINESS PROFITS AND LOSSES

YEAR AND MONTH	BUSINESS FAILURES <sup>1</sup>												DIVIDEND AND INTEREST PAYMENTS					
	Total commercial		Manufacturing establishments		Trade establishments		Agents and brokers		Banks (quarterly)		Canadian <sup>2</sup>		Total dividend and interest payments <sup>3</sup>	Interest payments	Dividend payments			
	Liabilities	Firms	Liabilities	Firms	Liabilities	Firms	Liabilities	Firms	Liabilities	Firms	Liabilities	Firms			Total	Industrial and miscellaneous	Steam railroads	Street railways
	Thous. of dolls.	No.	Thous. of dolls.	No.	Thous. of dolls.	No.	Thous. of dolls.	No.	Thous. of dolls.	No.	Thous. of dolls.	No.	Thousands of dollars					
1913 monthly av.....	\$22,818	1,336	\$10,366	353	\$9,583	929	\$2,869	54	\$7,887	430	\$1,388	152	\$148,103	-----	\$69,838	\$38,527	\$24,733	\$4,906
1914 monthly av.....	29,821	1,523	11,312	385	13,805	1,071	4,704	67	14,001	54	2,562	241	148,948	-----	68,481	36,530	24,549	5,368
1915 monthly av.....	25,106	1,846	9,335	426	12,436	1,336	3,335	84	9,306	33	2,698	219	155,426	-----	66,020	36,374	23,613	5,149
1916 monthly av.....	16,354	1,415	6,083	349	7,616	994	2,655	73	1,598	12	1,312	148	177,919	-----	77,176	44,986	26,095	6,020
1917 monthly av.....	15,203	1,154	6,628	308	5,843	786	2,732	61	4,614	12	1,138	93	199,095	-----	89,856	56,542	26,038	6,493
1918 monthly av.....	13,590	832	6,121	230	4,825	541	2,644	60	1,284	6	1,035	68	227,061	-----	85,184	53,788	24,135	6,318
1919 monthly av.....	9,442	538	4,301	155	3,109	334	2,002	48	4,131	12	843	52	265,764	-----	78,912	48,264	23,705	5,977
1920 monthly av.....	24,593	740	10,666	220	7,380	461	6,547	59	12,675	30	1,845	82	284,573	-----	81,841	50,140	23,832	6,074
1921 monthly av.....	52,361	1,638	19,488	375	21,232	1,166	11,641	96	43,254	102	4,221	199	278,484	-----	76,872	45,200	23,668	5,970
1922 monthly av.....	51,989	1,973	17,910	473	22,615	1,410	11,465	89	19,434	69	4,771	271	283,310	-----	77,554	43,723	23,508	5,902
1923 monthly av.....	44,948	1,560	23,379	414	17,495	1,089	4,012	57	50,934	144	4,285	243	298,768	-----	80,271	45,120	24,093	6,313
1924 monthly av.....	45,269	1,718	23,897	434	16,933	1,197	4,439	85	50,731	153	3,378	192	320,049	-----	84,391	47,181	25,100	7,008
1925 monthly av.....	36,979	1,768	13,974	424	17,948	1,263	5,058	80	41,175	116	2,900	176	340,319	\$251,246	89,073	49,671	26,251	7,778
1926 monthly av.....	34,103	1,814	13,170	450	16,779	1,272	4,155	93	53,019	152	2,369	176	365,932	268,208	97,724	55,365	27,593	9,141
1927 monthly av.....	43,342	1,929	17,626	474	19,016	1,340	6,700	115	35,862	98	2,107	168	464,212	289,283	174,929	129,623	29,125	10,390
1928 monthly av.....	40,797	1,987	15,207	494	18,775	1,373	6,815	120	32,413	93	3,045	156	502,349	308,556	193,793	141,915	32,623	10,179
1929 monthly av.....	40,271	1,909	15,561	501	18,728	1,285	5,982	124	54,732	109	2,660	174	621,087	342,496	278,592	207,175	38,758	10,600
<b>1928</b>																		
September.....	33,957	1,635	14,727	454	13,567	1,073	5,662	108	20,810	55	2,632	119	413,250	262,000	151,250	121,100	23,400	6,750
October.....	34,990	2,023	13,490	528	17,268	1,369	4,232	126	-----	-----	2,504	159	624,400	388,600	235,900	175,900	36,800	11,100
November.....	40,601	1,838	15,446	519	17,224	1,202	7,932	117	-----	-----	3,315	174	417,620	234,220	183,400	126,000	36,000	11,500
December.....	40,774	1,943	17,783	498	18,933	1,324	4,059	121	43,085	116	3,035	213	583,300	382,100	201,200	150,500	30,200	13,500
<b>1929</b>																		
January.....	53,877	2,535	16,690	614	32,024	1,769	5,164	152	-----	-----	2,533	214	925,075	516,375	408,700	289,800	43,000	16,000
February.....	34,036	1,965	11,891	478	17,891	1,378	4,255	109	-----	-----	2,442	178	439,700	199,000	240,700	179,500	40,100	9,100
March.....	36,356	1,987	15,001	512	17,190	1,349	4,165	126	37,509	81	2,531	183	528,970	264,170	264,800	204,500	39,300	7,800
April.....	35,270	2,021	10,423	499	19,102	1,388	5,745	134	-----	-----	2,434	144	678,800	398,100	280,700	208,000	34,200	10,500
May.....	41,216	1,897	18,954	515	18,191	1,266	4,071	116	-----	-----	4,417	165	490,400	237,000	253,400	173,900	30,400	7,600
June.....	31,375	1,767	12,721	496	13,931	1,154	4,723	117	54,458	148	1,534	112	658,300	386,400	271,900	185,800	33,600	6,500
July.....	32,426	1,752	12,767	461	14,605	1,190	5,053	101	-----	-----	2,592	180	897,856	515,156	382,700	284,500	55,000	13,100
August.....	33,746	1,762	13,857	482	16,002	1,163	3,888	117	-----	-----	1,376	132	410,500	201,000	209,500	165,000	37,600	6,900
September.....	34,125	1,568	14,914	427	16,660	1,039	2,551	102	74,180	81	2,423	164	480,600	292,000	188,600	152,000	29,500	7,100
October.....	31,314	1,822	12,071	483	14,464	1,211	4,778	128	-----	-----	2,577	178	737,450	424,650	312,800	241,500	43,900	15,900
November.....	52,046	1,796	14,180	481	16,122	1,166	21,744	149	-----	-----	3,302	184	514,450	263,650	250,800	186,100	40,000	12,200
December.....	67,465	2,037	33,266	559	28,550	1,344	5,649	134	52,650	127	3,754	259	690,947	412,447	278,500	215,500	38,500	14,500
<b>1930</b>																		
January.....	61,185	2,759	19,500	680	29,814	1,913	11,871	166	-----	-----	6,174	265	1,120,014	557,014	563,000	419,000	54,500	17,500
February.....	51,326	2,262	20,724	526	20,909	1,605	9,693	131	-----	-----	7,539	209	517,054	224,154	292,900	220,000	45,200	9,700
March.....	56,846	2,347	19,414	621	24,293	1,587	13,139	139	51,579	124	3,549	198	608,442	280,042	328,400	255,000	45,500	7,900
April.....	49,059	2,198	19,669	534	23,427	1,500	5,964	164	-----	-----	2,006	177	744,881	419,681	325,200	243,000	40,000	10,700
May.....	55,541	2,179	23,133	501	21,285	1,580	11,123	148	-----	-----	2,737	188	570,300	262,000	308,300	219,500	35,800	8,000
June.....	63,131	2,026	26,273	507	22,825	1,393	14,033	126	81,712	134	2,707	156	721,079	391,680	329,400	235,000	39,500	6,900
July.....	39,826	2,028	-----	-----	-----	-----	-----	-----	-----	-----	2,997	183	915,900	542,900	373,000	278,000	54,000	12,500
August.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	423,500	227,000	196,500	152,900	36,900	6,700
September.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by *Dun's Review*; for annual data in greater detail, see April, 1924, issue of the SURVEY (No. 32), pp. 57-59. Monthly data on total commercial failures from 1913 appeared in December, 1923, issue (No. 28), p. 53; monthly data on all classes from 1921 appeared in June, 1924, issue (No. 34), p. 55.  
<sup>2</sup> Canadian business failures from *Bradstreet's*.  
<sup>3</sup> Data compiled by *New York Journal of Commerce*. "Total dividends" include bank dividends not separately shown for those months where such payments are reported. Monthly data for total dividend and interest payments covering the period 1913 to 1921 appeared in the September, 1922, issue (No. 13) of the SURVEY, p. 51 (figure for July, 1917, should be \$333,011 instead of \$633,011); and for dividends classified, covering the same period, in the October, 1922, issue (No. 14), p. 46.  
<sup>4</sup> Yearly data are quarterly averages.

Table 113.—BUSINESS FAILURES BY GROUPS <sup>1</sup>

YEAR AND MONTH	MANUFACTURING ESTABLISHMENTS											TRADE ESTABLISHMENTS							
	Total	Metals	Textiles	Lumber	Chemicals	Printing and engraving	Foodstuffs	Leather, etc.	Liquors and tobacco	Stone, clay, and glass	All other	Total	General stores	Food and tobacco	Clothing	Household furniture	Chemicals and paints	Books and paper	All other
	Number of firms																		
1913 monthly average	353	32	73	42	6	15	22	11	9	12	132	929	135	343	141	140	41	7	121
1914 monthly average	385	31	87	40	6	18	24	10	10	10	147	1,071	149	384	178	168	48	9	136
1915 monthly average	426	32	88	40	6	23	30	11	15	11	169	1,336	195	472	203	222	59	10	175
1916 monthly average	349	21	57	38	4	17	41	9	11	8	145	994	116	432	126	137	45	8	129
1917 monthly average	308	22	54	43	5	12	25	7	8	8	123	786	81	366	92	96	35	4	111
1918 monthly average	230	19	34	28	4	12	15	7	7	6	98	541	48	239	70	64	26	4	85
1919 monthly average	155	17	19	20	4	5	14	4	4	4	65	334	35	158	39	37	13	2	51
1920 monthly average	220	24	48	17	5	4	24	8	5	2	84	461	52	187	72	53	11	2	85
1921 monthly average	375	45	96	30	9	12	32	15	8	4	125	1,166	190	318	215	194	40	4	202
1922 monthly average	473	53	108	33	10	14	43	20	12	8	172	1,410	189	384	246	234	50	9	298
1923 monthly average	414	48	69	38	7	14	40	17	9	6	160	1,089	126	327	193	164	47	10	223
1924 monthly average	434	44	75	32	8	16	37	17	9	8	189	1,197	121	353	243	188	49	8	238
1925 monthly average	424	39	66	39	8	17	43	14	7	5	186	1,263	109	396	247	210	47	9	245
1926 monthly average	450	33	65	54	7	19	42	11	7	5	207	1,272	101	410	222	205	60	10	264
1927 monthly average	474	31	59	71	6	22	38	12	9	8	218	1,340	101	402	248	230	67	12	281
1928 monthly average	494	37	66	81	8	14	41	13	6	8	219	1,373	87	429	263	231	67	12	284
1929 monthly average	501	37	60	95	10	15	39	12	6	9	219	1,285	85	408	221	217	66	11	277
<b>1928</b>																			
January	553	35	74	81	3	21	43	14	7	10	265	1,946	100	521	446	368	99	23	389
February	468	35	54	65	10	8	48	14	5	9	220	1,581	101	423	356	303	86	10	302
March	546	42	65	93	12	13	43	16	7	10	245	1,566	103	440	320	283	71	14	335
April	432	44	49	70	11	19	42	7	8	9	173	1,276	85	393	263	220	56	9	250
May	470	36	57	77	6	11	31	14	6	9	223	1,407	93	408	265	263	60	14	295
June	513	40	67	76	7	18	45	11	5	9	235	1,325	78	426	248	228	57	7	281
July	450	31	61	69	5	16	47	18	3	5	195	1,161	77	387	202	179	55	14	247
August	493	36	59	60	4	22	51	8	6	10	237	1,241	54	423	210	171	71	11	307
September	454	35	74	73	8	6	24	15	4	3	212	1,073	60	376	168	187	43	13	226
October	528	33	79	94	13	18	47	14	6	7	217	1,369	87	503	225	190	78	10	276
November	519	46	85	105	6	9	29	18	12	7	202	1,202	100	412	200	157	62	14	257
December	498	30	69	107	13	11	46	8	6	6	202	1,324	104	441	250	219	65	5	240
<b>1929</b>																			
January	614	30	75	92	11	25	47	24	9	15	286	1,769	116	499	351	374	66	17	346
February	478	40	54	88	6	15	39	10	7	4	215	1,378	111	424	246	266	51	13	267
March	512	40	60	103	12	10	44	11	8	9	215	1,349	101	429	233	257	69	9	251
April	499	34	52	87	15	16	48	13	4	4	226	1,388	88	446	228	252	79	15	280
May	515	30	67	103	11	15	35	15	12	12	215	1,266	86	385	228	214	60	13	280
June	496	40	47	107	19	23	45	12	3	6	194	1,154	68	373	202	200	50	13	248
July	461	39	63	88	6	15	31	10	7	9	193	1,190	68	406	201	180	54	5	278
August	482	35	48	102	11	11	34	4	6	6	225	1,163	72	399	163	179	64	15	271
September	427	29	48	77	8	10	38	11	3	9	194	1,039	60	363	168	127	54	11	256
October	453	35	66	94	3	10	36	17	4	8	210	1,211	78	408	191	167	86	10	271
November	481	41	70	82	10	13	37	6	7	12	203	1,166	67	374	198	177	69	5	276
December	559	50	69	112	11	11	28	18	6	8	246	1,344	102	386	244	209	90	6	307
<b>1930</b>																			
January	680	32	106	105	14	13	60	18	3	10	319	1,913	136	453	437	380	97	11	399
February	526	36	58	94	11	17	38	13	4	3	252	1,605	94	376	366	286	88	10	385
March	621	42	81	111	11	16	42	11	3	11	293	1,587	124	413	317	307	99	13	314
April	534	42	61	106	9	15	38	4	3	10	246	1,500	108	386	270	277	80	10	369
May	501	43	57	94	5	21	29	14	4	13	221	1,530	69	395	300	286	73	18	389
June	507	28	75	85	9	22	45	8	6	7	222	1,393	73	365	264	259	93	13	326
July																			
August																			
September																			
October																			
November																			
December																			

<sup>1</sup> Compiled by Dun's Review. These tables give in greater detail the information presented in Table 111, by combining a still more detailed classification as presented in Dun's Review into groups fairly comparable with the classification used for other data. Monthly data from 1913 appeared in the October, 1928, issue (No. 86), p. 19.



**Table 114.—CORPORATION PROFITS AND STOCKHOLDERS**  
(QUARTERLY)

YEAR AND QUARTER	NET PROFITS <sup>1</sup>													STOCKHOLDERS <sup>2</sup>								
	Grand total, groups	Total public utilities	Telephone	Other large public utilities	Class I railroads	Industrial and miscellaneous										Pennsylvania R. E. Co.		U. S. Steel Corp. (common stock)			American Teleph. & Teleg. Co.	
						Total	Automobiles, parts and accessories	Steel and railroad equipment	Oil	Food	Metals and mining	Machinery	Miscellaneous	Domestic	Foreign	Domestic	Foreign	Shares held by brokers	Domestic	Foreign		
																					Millions of dollars	
1913 quar. av.														72,714	11,258	41,436	1,529	51.48	53,205	1,041		
1914 quar. av.														78,682	11,839	47,777	1,697	46.73	56,932	1,175		
1915 quar. av.														81,603	11,816	<sup>3</sup> 42,020	<sup>3</sup> 1,980	45.87	62,279	1,270		
1916 quar. av.														85,343	6,884	39,365	939	55.08	67,504	1,187		
1917 quar. av.														93,331	2,235	44,531	1,191	51.88	78,597	999		
1918 quar. av.														102,798	1,773	64,314	1,484	43.22	96,035	1,143		
1919 quar. av.														111,316	1,727	73,510	1,475	40.65	115,482	1,239		
1920 quar. av.														126,424	1,500	88,085	1,300	30.35	131,643	1,267		
1921 quar. av.														138,450	1,743	104,621	1,341	22.45	163,703	2,013		
1922 quar. av.														136,181	2,869	97,580	1,380	24.36	217,599	2,298		
1923 quar. av.														138,846	2,847	94,489	1,431	22.76	265,638	2,644		
1924 quar. av.														142,718	2,925	96,081	1,557	22.97	322,693	3,086		
1925 quar. av.														144,380	2,968	91,043	1,511	26.31	353,217	3,796		
1926 quar. av.	799	232	53	179	308	259	74	50	30	30	11	10	54	140,954	2,911	87,467	1,587	28.01	377,563	4,753		
1927 mo. av.	771	251	57	194	272	249	82	37	17	32	10	11	61	142,178	2,877	91,075	1,599	26.23	415,734	5,248		
1928 quar. av.	886	280	63	217	298	307	103	47	25	35	15	12	71	151,182	2,955	98,546	1,685	23.69	439,514	5,313		
1929 quar. av.	998	321	69	252	319	359	89	80	30	39	21	16	84	174,196	2,970	107,345	1,982	23.85	453,085	5,320		
<b>1924</b>																						
March														142,339	2,987	97,135	1,542	22.39	296,738	2,760		
June														142,965	2,901	97,577	1,549	20.45	314,227	2,875		
September														142,307	2,903	94,904	1,558	22.82	338,183	3,199		
December														142,261	2,913	94,708	1,577	26.21	341,625	3,508		
<b>1925</b>																						
March														143,224	2,939	92,552	1,490	26.81	345,451	3,740		
June														146,988	2,966	91,910	1,525	25.45	354,279	3,994		
September														145,583	2,981	90,651	1,526	25.39	355,895	4,102		
December														141,725	2,986	89,057	1,504	27.60	357,242	4,347		
<b>1926</b>																						
March	710	240	51	189	224	246	74	48	23	28	10	10	53	141,097	2,931	89,102	1,575	29.92	362,093	4,432		
June	772	222	52	170	272	278	97	50	31	35	10	10	45	141,365	2,909	92,031	1,618	24.10	368,410	4,557		
September	884	208	52	156	394	282	82	52	37	32	10	9	60	140,153	2,892	84,287	1,572	29.01	385,907	4,937		
December	826	257	57	200	342	230	44	50	29	25	12	11	58	141,202	2,913	84,447	1,582	28.99	393,843	5,084		
<b>1927</b>																						
March	745	265	59	206	227	253	78	46	18	30	11	10	60	142,593	2,901	85,529	1,599	27.59	412,921	5,190		
June	779	244	59	185	247	288	114	45	17	35	10	11	56	141,558	2,877	88,665	1,604	26.53	415,024	5,267		
September	819	225	56	169	336	258	91	34	17	34	9	9	64	141,938	2,874	95,351	1,653	25.69	416,695	5,287		
December	739	268	54	214	276	195	46	24	14	27	8	12	64	142,622	2,854	94,756	1,539	25.11	418,295	5,247		
<b>1928</b>																						
March	769	289	63	226	217	263	95	36	11	31	10	11	69	143,011	2,810	95,902	1,691	23.86	430,181	5,220		
June	837	270	66	204	245	322	130	44	22	37	14	12	63	153,294	3,016	96,649	1,688	22.79	427,195	5,172		
September	953	252	60	192	358	343	119	48	35	36	16	13	76	154,415	3,032	102,457	1,748	23.95	451,603	5,426		
December	984	310	64	246	373	301	66	60	31	35	19	13	77	154,008	2,963	99,174	1,612	24.15	449,077	5,432		
<b>1929</b>																						
March	937	333	70	263	260	344	102	70	20	35	23	14	80	157,211	2,996	101,767	1,804	23.68	443,570	5,415		
June	1,031	313	68	245	304	414	138	88	32	39	21	17	79	158,456	2,978	<sup>4</sup> 103,805	<sup>4</sup> 1,807	<sup>4</sup> 25.27	453,434	5,425		
September	1,080	290	66	224	397	393	98	85	38	45	23	14	90	184,997	2,931	107,747	2,419	25.25	450,170	5,250		
December	945	347	72	275	314	284	19	78	30	37	15	17	88	196,119	2,974	116,060	1,897	21.21	465,165	5,190		
<b>1930</b>																						
March	777	336	66	270	176	265	58	60	16	34	15	12	70	207,158	3,094				487,390	5,370		
June														207,869	3,087				507,774	5,555		
September																						
December																						

<sup>1</sup> Compiled by the Federal Reserve Bank of New York from quarterly reports of net profits of 531 companies, consisting of 172 Class I railroads, 106 telephone, 24 motor and accessories, 18 oil, 13 steel, 22 food, 20 metal and mining, 15 machine manufacturing, 95 other public utilities, and 51 miscellaneous companies.

<sup>2</sup> These data showing the growth of stockholders in three prominent companies—a railroad, a public utility, and an industrial—have been furnished direct by the respective companies and represent the number of holders of common stock at the end of each quarter, i. e., December figures are for Dec. 31 or Jan. 1.

<sup>3</sup> Dec. 31 figures; other quarters of 1915 not available.

<sup>4</sup> As of July 31.



Table 115.—FOREIGN EXCHANGE AND CANADIAN TRADE <sup>1</sup>

YEAR AND MONTH	EUROPE							ASIA		THE AMERICAS				CANADIAN FOREIGN TRADE <sup>2</sup>	
	Eng-land	France <sup>3</sup>	Italy <sup>4</sup>	Bel-gium <sup>5</sup>	Nether-lands	Sweden	Swit-zerland	Japan	India <sup>6</sup>	Canada	Argen-tina	Brazil <sup>7</sup>	Chile <sup>8</sup>	Imports	Exports
	Rate per pound sterling	Rate per franc	Rate per lire	Rate per belga	Rate per guilder	Rate per krona	Rate per franc	Rate per yen	Rate per rupee	Rate per dollar	Rate per gold peso	Rate per milreis	Rate per paper peso	Thousands of dollars	
Par value.....	\$4.87	\$0.039	\$0.053	\$0.139	\$0.402	\$0.268	\$0.193	\$0.499	\$0.365	\$1.000	\$0.965	\$0.120	\$0.122		
1914 monthly av....	4.93	.199	.195				.194	.491						\$40,110	\$35,693
1915 monthly av....	4.78	.182	.169				.187	.495			.941	.234		37,568	54,457
1916 monthly av....	4.76	.170	.155				.191	.507			.964	.236		63,951	92,704
1917 monthly av....	4.76	.174	.137				.211	.513			.997	.249		83,838	132,791
1918 monthly av....	4.76	.178	.134				.229	.533			.999	.253		75,848	103,644
1919 monthly av....	4.43	.137	.114	.640	.394	.255	.190	.512	.403	.956	.990	.267	.226	78,418	107,903
1920 monthly av....	3.66	.070	.050	.370	.344	.205	.169	.504	.389	.893	.907	.225	.185	111,410	108,567
1921 monthly av....	3.85	.075	.043	.370	.336	.225	.174	.482	.262	.896	.730	.131	.121	66,623	68,058
1922 monthly av....	4.43	.082	.048	.385	.385	.262	.191	.478	.287	.985	.818	.129	.122	63,534	74,848
1923 monthly av....	4.57	.061	.046	.260	.391	.266	.181	.486	.311	.980	.786	.102	.122	75,253	85,710
1924 monthly av....	4.42	.052	.044	.230	.382	.265	.182	.412	.318	.987	.781	.109	.105	67,345	89,218
1925 monthly av....	4.83	.048	.040	.240	.402	.268	.193	.410	.363	1.000	.914	.122	.116	74,183	106,925
1926 monthly av....	4.86	.033	.039	.172	.401	.268	.193	.471	.363	1.000	.921	.144	.121	84,022	106,983
1927 monthly av....	4.86	.039	.052	.139	.401	.268	.193	.474	.363	1.000	.963	.118	.121	90,655	103,233
1928 monthly av....	4.87	.039	.053	.139	.402	.268	.193	.464	.365	.999	.965	.120	.121	101,850	114,511
1929 monthly av....	4.86	.039	.052	.139	.402	.268	.193	.461	.362	.992	.951	.118	.121	108,245	100,740
<b>1928</b>															
September.....	4.85	.039	.052	.139	.401	.268	.193	.458	.363	1.000	.957	.119	.121	106,066	111,856
October.....	4.85	.039	.052	.139	.401	.267	.192	.462	.365	1.000	.956	.120	.121	112,341	143,955
November.....	4.85	.039	.052	.139	.401	.267	.193	.464	.365	1.000	.958	.119	.121	102,967	170,092
December.....	4.85	.039	.052	.139	.402	.268	.193	.459	.365	.998	.958	.119	.121	94,621	133,245
<b>1929</b>															
January.....	4.85	.039	.052	.139	.401	.267	.192	.455	.365	.998	.958	.119	.121	96,959	97,296
February.....	4.85	.039	.052	.139	.401	.267	.192	.452	.364	.996	.958	.119	.121	97,042	83,812
March.....	4.85	.039	.052	.139	.401	.267	.192	.445	.364	.994	.956	.118	.121	135,287	117,520
April.....	4.85	.039	.052	.139	.401	.267	.193	.446	.363	.992	.956	.118	.121	97,517	67,154
May.....	4.85	.039	.052	.139	.402	.267	.193	.447	.362	.993	.955	.119	.120	125,615	109,436
June.....	4.85	.039	.052	.139	.402	.268	.192	.439	.360	.992	.953	.119	.120	111,949	114,492
July.....	4.85	.039	.052	.139	.401	.268	.192	.456	.360	.995	.954	.119	.120	114,201	105,686
August.....	4.85	.039	.052	.139	.401	.268	.192	.467	.360	.994	.954	.119	.121	111,631	98,395
September.....	4.85	.039	.052	.139	.401	.268	.193	.473	.360	.992	.953	.119	.121	99,380	89,424
October.....	4.87	.039	.052	.140	.403	.268	.193	.478	.362	.988	.950	.119	.121	116,261	121,437
November.....	4.88	.039	.052	.140	.404	.269	.194	.487	.363	.984	.939	.118	.121	108,733	113,746
December.....	4.88	.039	.052	.140	.404	.270	.194	.490	.364	.991	.930	.113	.121	84,365	90,477
<b>1930</b>															
January.....	4.87	.039	.052	.139	.402	.269	.194	.491	.363	.989	.913	.111	.121	84,910	75,369
February.....	4.86	.039	.052	.139	.401	.268	.193	.491	.362	.992	.865	.112	.120	80,922	68,150
March.....	4.86	.039	.052	.139	.401	.269	.194	.493	.361	.998	.856	.115	.121	112,991	91,692
April.....	4.86	.039	.052	.140	.402	.269	.194	.494	.361	1.000	.886	.117	.121	71,402	52,508
May.....	4.86	.039	.052	.140	.402	.268	.194	.494	.361	.998	.872	.118	.121	101,545	79,464
June.....	4.86	.039	.052	.140	.402	.269	.194	.494	.360	1.000	.845	.114	.121	91,554	80,536
July.....	4.87	.039	.052	.139	.402	.269	.194	.494	.361	1.001	.821	.109	.121		
August.....															
September.....															
October.....															
November.....															
December.....															

<sup>1</sup> Daily averages of noon rates for cable transfers reported to the Treasury daily by the *New York Federal Reserve Bank*. Average figures for the years 1914 to 1918, inclusive, where given, are weekly averages of commercial quotations from the *Analyst*. Monthly figures on all items back to 1920 may be found in the May, 1922, issue (No. 9), p. 135.

<sup>2</sup> Foreign trade statistics from *Department of Trade and Commerce, Dominion Bureau of Statistics*.

<sup>3</sup> Parity established June, 1928. Prior to that the par value of the franc was 19.3 cents.

<sup>4</sup> Parity established December, 1927. Prior to that the par value of the lire was 19.3 cents.

<sup>5</sup> Parity established November, 1926. Prior thereto, the average values of the Belgian franc have been multiplied by 5 to obtain an equivalent quotation for the belga. On this basis, the present belga was equivalent to 96.5 cents at the old pre-war par of the franc.

<sup>6</sup> Parity established April, 1927. Prior to that, par value of the rupee was 48.66 cents.

<sup>7</sup> Parity established December, 1926. Prior to that the par value of the milreis was 32.4 cents.

<sup>8</sup> Parity established January, 1926. The average value of the paper peso in 1913 was 19.5 cents.

Table 116.—IMPORTS AND EXPORTS BY ECONOMIC CLASSES<sup>1</sup>

YEAR AND MONTH	IMPORTS						EXPORTS						AGRICULTURAL EXPORTS <sup>2</sup>	
	Total	Crude materials	Food-stuffs, crude, and food animals	Manufactured food-stuffs	Semi-manufactures	Finished manufactures	Total	Crude materials	Food-stuffs, crude, and food animals	Manufactured food-stuffs	Semi-manufactures	Finished manufactures	All commodities	All except cotton
	Thousands of dollars												Rel. to 1910-1914	
1913 monthly av. . . . .	\$149,383	\$50,462	\$18,413	\$16,518	\$28,355	\$34,401	\$204,024	\$64,017	\$14,121	\$27,023	\$33,066	\$65,120	-----	-----
1914 monthly av. . . . .	149,106	49,790	19,561	21,378	23,006	33,936	172,675	40,938	22,939	25,727	27,949	53,243	-----	-----
1915 monthly av. . . . .	148,216	57,991	20,242	22,770	21,748	24,835	291,104	47,280	38,470	45,880	39,641	109,584	141	198
1916 monthly av. . . . .	199,303	84,132	21,678	28,226	34,822	28,798	451,887	60,118	35,107	54,003	76,022	218,780	130	193
1917 monthly av. . . . .	246,039	105,682	32,144	29,287	45,124	32,327	513,934	65,061	42,406	67,228	109,835	225,066	91	160
1918 monthly av. . . . .	252,601	101,760	28,745	33,114	54,080	33,742	503,990	79,432	45,620	117,152	87,773	172,437	116	206
1919 monthly av. . . . .	325,364	139,521	45,441	46,308	50,860	41,028	645,818	134,178	56,530	163,551	76,854	213,625	154	258
1920 monthly av. . . . .	439,873	146,073	48,136	103,179	66,835	73,094	673,402	155,902	76,498	93,080	79,909	267,032	126	197
1921 monthly av. . . . .	209,096	71,090	25,331	30,737	28,669	51,577	364,911	81,997	57,687	55,805	33,270	135,497	141	229
1922 monthly av. . . . .	259,396	96,381	27,660	32,290	45,793	55,642	313,776	81,800	38,212	48,965	36,484	107,720	126	200
1923 monthly av. . . . .	316,006	115,737	30,234	44,134	59,976	64,212	340,893	100,170	21,457	48,608	46,977	123,147	104	161
1924 monthly av. . . . .	300,830	103,008	35,406	43,467	54,657	62,446	374,804	110,528	32,724	47,791	50,889	132,338	119	172
1925 monthly av. . . . .	352,216	145,672	41,233	36,076	62,924	66,311	401,560	118,505	26,491	47,813	55,140	153,695	114	135
1926 monthly av. . . . .	369,241	149,405	44,980	34,793	67,024	73,039	392,643	105,110	27,922	41,917	54,629	163,065	117	134
1927 monthly av. . . . .	348,729	133,471	42,048	37,550	62,471	73,190	396,572	99,398	35,092	38,608	58,311	165,163	127	148
1928 monthly av. . . . .	340,954	122,217	45,820	33,789	63,554	75,574	419,175	107,771	24,556	38,818	59,696	188,334	116	133
1929 monthly av. . . . .	366,677	129,885	44,880	35,302	73,387	83,223	429,784	95,200	22,466	40,356	60,761	211,001	107	131
<b>1928</b>														
May . . . . .	353,981	137,799	47,968	34,234	59,084	74,896	413,829	89,811	19,741	33,120	67,150	204,007	92	103
June . . . . .	317,249	109,666	48,325	30,005	57,655	71,597	380,305	74,918	17,243	31,137	63,046	193,961	76	91
July . . . . .	317,848	106,065	43,174	33,314	60,038	75,258	371,471	60,177	14,217	30,661	61,397	205,019	64	84
August . . . . .	346,715	122,186	45,940	30,060	66,337	82,192	371,312	52,375	29,310	34,749	55,873	199,005	75	126
September . . . . .	319,618	110,289	37,207	33,771	63,455	74,906	414,859	120,188	42,363	35,761	51,077	165,469	138	168
October . . . . .	355,358	117,624	42,007	35,370	71,174	89,184	543,171	176,354	52,383	51,643	59,967	202,824	201	232
November . . . . .	326,565	108,350	44,573	30,758	62,501	80,385	538,375	193,999	31,577	45,840	60,859	206,100	192	172
December . . . . .	339,408	117,781	45,296	28,810	71,214	76,308	466,232	152,076	27,682	45,207	58,195	183,071	160	166
<b>1929</b>														
January . . . . .	368,897	142,251	47,681	28,773	70,981	79,211	480,384	120,619	29,666	47,536	67,704	214,859	133	155
February . . . . .	369,442	137,792	50,184	36,763	69,480	75,222	434,529	92,323	24,082	39,628	60,961	217,537	107	134
March . . . . .	383,818	138,645	48,943	44,330	70,525	81,375	481,710	86,458	21,632	43,015	66,890	263,715	102	129
April . . . . .	410,666	146,932	52,172	45,919	82,264	83,379	418,051	71,255	15,810	37,447	65,413	228,126	86	112
May . . . . .	400,149	141,739	46,561	42,290	85,875	83,684	377,083	57,412	21,212	35,922	59,820	202,717	79	122
June . . . . .	353,403	120,734	40,955	36,527	75,550	79,637	386,799	56,129	14,518	34,018	62,119	220,016	69	102
July . . . . .	352,981	119,038	42,957	32,990	71,604	86,392	393,798	50,015	20,259	35,840	60,511	227,173	70	117
August . . . . .	369,358	125,817	39,357	35,558	79,465	89,161	374,723	50,891	28,438	37,107	57,069	201,218	76	132
September . . . . .	351,304	122,062	40,700	32,327	70,146	86,069	431,801	112,260	29,943	40,963	57,691	190,944	121	143
October . . . . .	390,998	126,532	47,210	35,085	81,650	100,521	522,350	174,271	24,110	47,737	64,558	211,703	166	147
November . . . . .	338,473	121,448	40,590	28,669	65,650	82,116	435,527	144,772	22,557	43,698	51,909	172,592	150	147
December . . . . .	310,573	115,631	41,249	24,389	57,457	71,845	420,622	125,994	17,363	41,356	54,494	181,415	130	129
<b>1930</b>														
January . . . . .	310,968	109,026	39,375	23,933	68,022	70,613	404,377	103,907	17,711	39,839	50,784	192,136	113	123
February . . . . .	281,707	98,581	39,394	20,414	59,034	64,288	342,964	67,711	13,254	33,520	45,304	183,176	79	105
March . . . . .	300,460	101,685	40,136	26,933	62,692	69,014	363,162	70,429	9,325	34,373	49,429	199,606	82	98
April . . . . .	307,824	105,559	38,597	31,078	61,789	70,800	326,545	52,416	9,356	27,719	47,788	189,265	65	83
May . . . . .	284,683	86,589	34,744	41,571	53,354	68,424	312,228	40,785	12,448	30,379	49,968	178,648	56	90
June . . . . .	250,221	76,671	35,372	24,795	51,612	61,771	290,266	37,482	13,346	27,323	47,166	164,948	55	93
July . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
August . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
September . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
October . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
November . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
December . . . . .	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, except agricultural exports. For changes in valuations, see footnote on preceding page.

<sup>2</sup> Compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economics, based on quantities of agricultural products exported in the period July, 1909, to June, 1914. "All commodities" includes 44 selected commodities, comprising usually about 75 per cent of the value of agricultural exports from the United States. The quantities are weighted by the average export price for the base period. Monthly data from 1919 appeared in the March, 1925, issue (No. 43), p. 27. Details of compilation and group indexes are given in the monthly supplement to Crops and Markets, issued by the Department of Agriculture, for October, 1924, pp. 356-358.

Table 117.—IMPORTS BY GRAND DIVISIONS <sup>1</sup>

YEAR AND MONTH	FROM EUROPE					FROM NORTH AMERICA		FROM SOUTH AMERICA		FROM ASIA AND OCEANIA		FROM AFRICA	GRAND TOTAL
	Total	France	Germany	Italy	United Kingdom	Total	Canada	Total	Argentina	Total	Japan	Total	
Thousands of dollars													
1913 monthly average.	\$72,056	\$11,578	\$15,351	\$4,610	\$22,663	\$32,485	\$11,844	\$16,522	\$2,131	\$26,344	\$8,245	\$1,978	\$149,383
1914 monthly average.	65,293	8,685	12,449	4,601	23,949	36,783	13,669	19,127	4,690	26,265	8,808	1,638	149,106
1915 monthly average.	45,529	6,493	3,746	4,297	21,525	42,455	14,800	26,857	7,890	30,489	9,026	2,887	148,216
1916 monthly average.	52,776	9,074	485	5,020	25,457	54,870	19,771	35,634	9,691	50,865	15,174	5,158	199,303
1917 monthly average.	45,929	8,220	13	3,040	23,340	72,665	34,473	49,902	14,855	71,455	21,139	6,089	246,039
1918 monthly average.	26,510	4,959	26	2,028	12,385	81,218	37,641	50,911	19,032	86,837	25,162	7,126	252,601
1919 monthly average.	62,544	10,318	884	4,922	25,766	6,481	41,225	57,294	16,597	99,096	34,154	9,349	325,364
1920 monthly average.	102,320	13,805	7,403	6,280	42,821	138,555	50,989	63,417	17,315	123,058	34,548	12,524	439,873
1921 monthly average.	63,745	11,824	6,690	5,191	19,900	62,904	27,953	24,635	4,904	54,447	20,939	3,365	209,696
1922 monthly average.	82,600	11,901	9,791	5,328	29,739	68,538	30,337	29,897	7,140	72,955	29,525	5,410	259,396
1923 monthly average.	96,421	12,468	13,433	7,689	33,673	83,460	34,667	38,952	9,606	89,918	28,912	7,255	316,006
1924 monthly average.	91,341	12,303	11,605	6,251	30,539	82,930	33,262	38,840	6,275	81,638	28,338	6,083	300,830
1925 monthly average.	103,182	13,120	13,679	8,517	34,392	81,711	37,853	43,233	6,681	116,411	32,011	7,679	352,216
1926 monthly average.	107,155	12,668	16,541	8,377	31,933	84,298	39,657	47,332	7,422	122,421	33,391	8,035	369,241
1927 monthly average.	105,339	13,983	16,713	9,081	29,828	82,122	39,586	43,190	8,103	110,307	33,509	7,771	348,729
1928 monthly average.	103,896	13,229	18,511	8,474	29,045	80,059	40,775	47,451	8,287	101,865	32,038	7,517	340,954
1929 monthly average.	111,057	14,291	21,223	9,756	27,481	81,856	42,023	53,316	9,799	111,401	37,740	9,051	366,681
<b>1928</b>													
January.....	97,126	12,126	15,856	8,846	23,089	76,518	37,027	47,192	6,747	107,507	32,001	9,573	337,916
February.....	105,897	13,918	19,227	8,099	28,799	79,430	36,370	47,427	6,966	109,313	33,593	8,967	351,035
March.....	104,736	12,597	18,535	8,238	32,951	88,524	39,418	59,239	12,525	120,066	30,748	7,872	380,437
April.....	94,284	10,429	16,726	7,899	28,087	85,091	35,044	49,772	9,746	109,777	29,505	6,391	345,312
May.....	104,150	11,169	16,126	8,570	34,847	86,092	43,183	47,394	10,723	109,728	38,536	6,617	353,951
June.....	95,532	11,918	15,793	8,145	27,871	73,905	41,027	51,102	10,319	87,237	22,317	9,472	317,249
July.....	95,596	11,321	20,668	6,956	28,103	77,533	41,798	45,894	8,119	89,788	24,888	7,037	317,848
August.....	107,793	15,075	21,023	6,876	27,535	78,216	43,254	51,043	8,975	100,880	38,993	8,782	346,715
September.....	102,315	13,783	18,661	6,548	26,373	76,926	42,209	37,560	6,313	97,554	33,741	5,263	319,618
October.....	121,234	17,279	22,309	10,072	33,417	84,398	47,404	41,335	6,677	100,888	35,261	7,302	355,358
November.....	107,254	15,096	18,669	10,479	28,156	78,921	41,638	41,229	5,555	92,847	31,943	6,314	326,565
December.....	110,832	14,037	18,539	10,954	29,313	75,148	40,932	50,021	6,778	96,792	32,924	6,615	339,408
<b>1929</b>													
January.....	107,106	13,691	19,374	9,022	27,527	82,284	42,053	57,889	9,422	113,330	38,424	8,287	368,897
February.....	104,350	13,799	21,473	8,272	25,501	79,923	36,981	60,171	10,601	115,305	32,158	9,693	369,442
March.....	109,839	14,522	20,793	8,518	31,458	92,253	39,938	60,716	12,679	110,470	36,020	10,541	383,818
April.....	113,942	11,432	24,426	9,819	29,978	93,639	40,395	61,284	13,063	124,500	28,819	17,300	410,666
May.....	113,791	13,954	20,627	10,375	29,762	92,363	44,330	53,628	9,172	130,059	33,828	10,308	400,149
June.....	106,420	13,280	19,330	10,608	25,396	81,898	44,315	50,750	8,352	107,848	32,486	6,488	353,403
July.....	115,113	14,590	22,806	8,487	27,975	79,303	44,092	46,630	7,386	104,987	28,885	6,857	352,981
August.....	109,759	14,028	22,731	7,660	25,920	82,242	43,751	51,624	7,818	114,589	40,254	11,144	369,358
September.....	120,056	17,462	21,800	9,407	28,987	76,942	42,257	45,387	6,734	102,504	39,973	6,415	351,304
October.....	138,934	20,128	26,232	13,733	35,050	81,684	46,073	56,186	11,617	109,074	43,375	5,146	391,025
November.....	106,816	13,524	19,917	12,135	24,081	73,254	42,456	46,432	11,236	102,846	39,240	9,206	338,553
December.....	86,562	11,081	15,164	9,030	18,131	66,393	37,637	49,099	9,507	101,296	39,413	7,223	310,573
<b>1930</b>													
January.....	88,783	10,831	17,667	7,770	18,163	68,784	37,394	44,035	6,572	97,712	31,106	11,653	310,968
February.....	84,616	10,442	16,029	6,685	20,014	61,494	33,289	46,488	9,453	83,471	28,110	5,721	281,707
March.....	87,726	9,852	18,663	6,821	21,194	70,636	38,431	48,669	12,175	87,154	23,205	6,280	300,460
April.....	93,004	10,194	17,300	8,698	24,513	72,088	36,339	47,561	12,226	87,260	24,433	7,385	307,824
May.....	84,137	10,302	13,046	10,467	21,353	81,139	37,358	39,180	9,150	74,577	13,874	5,611	284,683
June.....	72,147	7,484	12,817	6,770	15,511	66,181	36,503	35,554	4,109	71,194	15,357	5,013	250,221
July.....													
August.....													
September.....													
October.....													
November.....													
December.....													

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, and represent imports of merchandise only. Up to and including May, 1921, import values represented "actual market value or wholesale price at the time of exportation to the United States, in the principal markets of the country from whence exported, including the value of all containers and coverings, whether holding liquids or solids, and all other costs, charges, and expenses incident to placing the merchandise, in condition, packed ready for shipment to the United States." (Tariff act of 1913.) Beginning with June, 1921, the import values are either the actual foreign market value as defined above, or "the export value, including any export tax imposed by the country of exportation," whichever is higher. (Emergency tariff act of May 27, 1921.)

Table 118.—EXPORTS BY GRAND DIVISIONS <sup>1</sup>

YEAR AND MONTH	TO EUROPE					TO NORTH AMERICA		TO SOUTH AMERICA		TO ASIA AND OCEANIA		TO AFRICA	GRAND TOTAL
	Total	France	Germany	Italy	United Kingdom	Total	Canada	Total	Argentina	Total	Japan	Total	
Thousands of dollars													
1913 monthly average	\$124,964	\$12,827	\$29,328	\$6,556	\$49,228	\$50,098	\$33,599	\$12,210	\$4,582	\$17,319	\$5,208	\$2,411	\$207,002
1914 monthly average	111,608	14,175	13,191	8,161	49,984	40,132	25,885	7,584	2,261	14,700	3,479	2,110	176,135
1915 monthly average	214,451	41,733	981	22,477	99,870	46,567	28,754	12,011	4,403	20,009	3,811	3,095	296,223
1916 monthly average	317,773	71,735	188	25,294	157,282	77,046	50,409	18,356	6,406	39,211	9,096	4,501	456,887
1917 monthly average	338,538	78,399	(?)	34,920	167,450	105,081	69,077	25,991	8,925	45,567	15,528	4,282	519,459
1918 monthly average	321,558	77,600	(?)	41,015	171,774	110,457	73,906	25,226	8,759	50,250	22,815	4,933	512,424
1919 monthly average	432,306	74,447	7,730	36,890	189,880	107,983	61,187	36,812	12,992	74,775	30,530	8,160	660,035
1920 monthly average	372,174	56,349	25,953	30,980	161,319	160,764	80,988	51,993	17,811	86,932	31,495	13,806	685,668
1921 monthly average	196,992	18,745	31,027	17,955	78,510	94,132	49,473	22,777	9,236	53,782	19,620	6,071	373,753
1922 monthly average	173,613	22,247	26,343	12,575	71,319	76,305	48,057	18,840	7,962	45,910	18,200	4,648	319,315
1923 monthly average	174,451	22,678	26,403	13,961	73,527	90,514	54,327	22,443	9,398	54,827	22,019	5,056	347,291
1924 monthly average	203,775	23,472	36,702	15,595	81,912	90,837	52,003	26,188	9,758	55,925	20,859	5,858	382,582
1925 monthly average	216,979	23,358	39,195	17,096	86,155	94,863	54,064	33,551	12,397	56,340	18,137	7,421	409,154
1926 monthly average	192,512	22,000	30,347	13,117	81,051	98,040	61,547	36,959	11,965	64,771	21,730	8,440	400,722
1927 monthly average	192,815	19,065	40,140	10,971	70,005	104,419	69,711	36,513	13,624	62,777	21,464	8,924	405,448
1928 monthly average	197,909	20,058	38,937	13,510	70,611	110,114	76,226	40,068	14,908	69,546	24,013	9,726	427,363
1929 monthly average	195,061	22,138	34,187	12,831	70,656	116,265	79,042	44,948	17,524	69,641	21,594	10,897	436,811
<b>1928</b>													
January	207,546	21,300	42,648	14,530	74,371	87,320	54,180	34,812	12,565	72,286	26,108	8,814	410,778
February	184,304	15,768	37,424	13,648	68,924	91,090	60,784	31,461	11,184	55,081	15,081	9,513	371,448
March	194,424	18,696	35,058	11,317	70,495	110,709	72,939	40,222	14,884	65,583	20,113	9,680	420,617
April	161,578	13,114	29,435	11,014	56,902	101,735	70,307	33,825	11,776	59,369	16,985	7,420	363,928
May	188,847	18,535	33,102	15,149	61,834	123,466	88,956	38,243	14,082	63,018	22,998	8,983	422,557
June	161,579	15,733	28,371	11,254	52,298	113,810	81,684	38,999	15,686	63,727	21,637	10,546	388,661
July	152,285	15,918	22,092	11,853	52,098	110,919	77,940	43,907	16,736	61,866	17,937	10,006	378,984
August	149,216	15,167	24,579	9,956	52,827	118,041	84,963	43,767	17,348	59,971	15,517	8,011	379,006
September	192,840	20,049	46,298	14,275	59,182	115,500	87,139	33,805	11,457	71,917	27,542	7,544	421,607
October	268,856	28,928	57,989	16,936	97,963	126,793	89,492	49,251	19,848	92,484	39,137	12,630	550,014
November	274,485	31,110	65,563	16,163	105,461	118,276	77,229	49,826	18,396	90,225	37,198	12,100	544,912
December	238,953	26,385	44,681	16,030	94,971	103,709	69,101	42,695	14,938	79,022	27,855	11,466	475,845
<b>1929</b>													
January	235,732	26,268	41,159	15,995	90,696	110,186	70,927	51,949	19,370	80,364	26,114	9,792	488,023
February	200,043	24,408	34,339	12,712	69,303	107,398	70,762	53,075	19,394	70,220	22,472	11,015	441,751
March	211,894	24,621	32,984	15,057	75,659	130,696	90,634	53,054	19,122	79,809	23,086	14,395	489,849
April	172,188	19,444	26,537	13,065	59,289	128,038	91,928	44,384	15,874	69,498	20,579	11,156	425,264
May	146,025	13,248	23,927	9,771	54,431	132,897	97,905	35,852	13,886	61,540	17,380	8,541	384,855
June	153,966	14,587	21,261	12,639	52,837	115,609	80,480	49,686	20,464	61,686	16,966	12,229	393,177
July	160,999	15,794	24,634	8,666	56,890	116,405	79,569	49,293	20,481	63,183	15,006	13,022	402,902
August	160,654	17,095	26,367	6,620	58,333	111,517	76,862	39,430	17,352	58,610	11,507	10,546	380,758
September	201,300	24,026	38,993	14,500	72,609	117,649	80,485	43,550	17,995	66,039	19,117	9,133	437,671
October	263,351	33,531	57,552	16,348	95,129	127,224	83,946	44,049	17,153	81,979	31,302	11,975	528,878
November	222,733	26,797	41,458	14,096	84,782	103,601	68,002	36,437	13,515	70,218	28,097	9,322	442,311
December	211,846	25,838	41,038	14,506	77,917	93,959	57,003	38,618	15,618	72,540	27,442	9,633	426,596
<b>1930</b>													
January	207,209	25,216	31,391	11,390	79,351	88,911	54,162	37,481	13,919	67,357	23,997	10,357	411,314
February	169,282	20,877	21,997	11,116	59,442	90,507	57,696	28,236	10,638	51,995	15,018	8,943	348,962
March	174,764	21,396	27,129	10,518	58,076	100,359	66,565	31,292	11,637	53,730	15,637	9,479	369,624
April	142,159	16,855	18,960	8,915	46,713	98,486	63,997	30,608	12,012	52,780	18,325	7,820	331,843
May	135,508	15,110	17,226	7,719	47,002	101,606	69,559	29,853	11,227	44,749	11,325	7,875	319,592
June	122,830	11,152	16,456	6,240	47,915	92,174	59,715	27,636	12,067	43,960	12,709	8,497	295,097
July													
August													
September													
October													
November													
December													

<sup>1</sup> Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, and represent exports, including reexports, of merchandise only. Values are those at time of exportation in the ports of the United States whence exported, except reexports from bonded warehouses, which are expressed in their importvalue.

<sup>2</sup> Total for year 1917 is \$3,275. No figures for 1918.

## SOURCES OF DATA

[Only sources presenting current material are given here: Sources of data used to fill gaps in early figures are noted in their respective detailed tables, thus making this table a complete record of current source material for the SURVEY]

SOURCE	DATA	CURRENT PUBLICATION <sup>1</sup>	DATE OF PUBLICATION
<b>I.—REPORTS FROM GOVERNMENT DEPARTMENTS, FEDERAL, STATE, AND FOREIGN</b>			
ARGENTINE MINISTRY OF AGRICULTURE.....	Flaxseed exports from Argentina.....	Estadística Agro-Pecuaria.....	Monthly.
CANADIAN DEPARTMENT OF LABOR.....	Employment in Canadian trade-unions.....	Labour Gazette (Canadian).....	Semimonthly.
	Operations of Canadian employment service.....	Labour Gazette (Canadian).....	Semimonthly.
CANADIAN DEPARTMENT OF TRADE AND COMMERCE.	Foreign trade of Canada.....	Foreign trade of Canada.....	Monthly.
	Canadian railroad operations.....	Operating Revenues, etc., of Railways*.....	Monthly.
	Canadian iron, steel, coal, flour production, etc.....	Press release*.....	
	Canadian electric power production.....	Press release*.....	
FEDERAL FARM LOAN BOARD.....	Agricultural loans by land and credit banks, etc.....	Not published currently.....	
FEDERAL RESERVE BANK OF ATLANTA.....	Refined sugar shipments.....	Monthly Business Review.....	1st of month.
FEDERAL RESERVE BANK OF BOSTON.....	Installment sales, New England dept. stores.....	Monthly Review.....	1st of month.
FEDERAL RESERVE BANK OF KANSAS CITY.....	Retail sales of lumber by yards.....	Not published in form used.....	
FEDERAL RESERVE BANK OF MINNEAPOLIS.....	Retail sales of lumber by rural yards.....	Business Conditions.....	1st of month.
FEDERAL RESERVE BANK OF NEW YORK.....	Foreign exchange rates.....	Fed. Res. Bull. and daily statement*.....	Daily and monthly.
	Corporation profits.....	Monthly Review.....	Quarterly.
FEDERAL RESERVE BANK OF PHILADELPHIA.....	Employment in Pennsylvania and Delaware.....	Business and Financial Conditions.....	1st of month.
	Employment and pay rolls, anthracite mines.....	Business and Financial Conditions.....	1st of month.
FEDERAL RESERVE BOARD.....	Debits to individual accounts.....	Fed. Res. Bull. and weekly press releases*.....	Sun. papers and monthly.
	Condition of Federal reserve banks.....	Fed. Res. Bull. and weekly press releases*.....	Fri. morn. papers and mo.
	Condition of reporting member banks.....	Fed. Res. Bull. and weekly press releases*.....	Fri. aft. papers and mo.
	Factory employment and pay roll.....	Press release*.....	24th of month.
	Monetary gold stocks and interest rates.....	Federal Reserve Bulletin.....	Monthly.
	Index numbers of production trade.....	Federal Reserve Bulletin.....	Monthly.
ILLINOIS DEPARTMENT OF LABOR.....	Employment in Illinois.....	The Employment Bulletin.....	Monthly.
INTERSTATE COMMERCE COMMISSION.....	Railway revenues and expenses.....	Preliminary statement Class I roads.....	
	Telephone operating revenue and income.....	Operations of large telephone companies.....	Monthly.
	Telegraph operations and income.....	Not published.....	
	Express operations and income.....	Not published.....	
	Fuel consumption by railroads.....	Fuel for Road Locomotives.....	Monthly.
	Railway employment.....	Not published.....	
IOWA BUREAU OF LABOR.....	Factory employment in Iowa.....	Not published in form used.....	
MARYLAND COM. LABOR AND STATISTICS.....	Factory employment in Maryland.....	Not published in form used.....	
MASSACHUSETTS DEPT. LABOR AND INDUSTRY.....	Massachusetts employment.....	Monthly statement*.....	
MASSACHUSETTS DEPT. PUBLIC UTILITIES.....	Milk receipts at Boston.....	Not published.....	
MEXICAN SECRETARY OF INDUSTRY, COMMERCE, AND LABOR.....	Mexican petroleum production and exports.....	Boletín del Petróleo.....	
MILWAUKEE PUBLIC EMPLOYMENT OFFICE.....	Factory employment in Milwaukee.....	Press release*.....	Monthly.
NEW JERSEY DEPARTMENT OF LABOR.....	New Jersey factory employment.....	Business and Financial Conditions.....	
NEW YORK STATE DEPT. LABOR.....	New York factory employment and earnings.....	Labor Market Bulletin and press releases*.....	Monthly.
NEW YORK STATE DEPT. PUBLIC WORKS.....	New York State canal traffic.....	Annual report.....	Yearly.
OKLAHOMA DEPARTMENT OF LABOR.....	Factory employment in Oklahoma.....	Oklahoma Labor Market.....	15th of month.
PANAMA CANAL.....	Panama Canal traffic.....	The Panama Canal Record.....	Last weekly issue of month.
TEXAS STATE COMPTROLLER.....	Sulphur production.....	Press release*.....	Quarterly.
U. S. CIVIL SERVICE COMMISSION.....	Government employment in Washington, D. C.....	Not published.....	
U. S. DEPARTMENT OF AGRICULTURE:			
BUREAU OF ANIMAL INDUSTRY.....	Federal inspected slaughter.....	Crops and Markets.....	Monthly supplement.
BUREAU OF AGRICULTURAL ECONOMICS.....	Prices of farm products to producers.....	Crops and Markets.....	Monthly supplement.
	Barley and rye receipts and rye stock.....	Not published.....	Monthly.
	Wool stocks in dealers' hands and wool prices.....	Crops and Markets.....	Monthly supplement.
	Crop production.....	Crops and Markets and press releases*.....	1st of mo. (cotton); and 10th (other crops).
	Cold-storage holdings.....	Crops and Markets.....	Monthly supplement.
	Movement of cattle, hogs, and sheep.....	Crops and Markets.....	Monthly supplement.
	Receipts of butter, cheese, eggs, and poultry.....	Crops and Markets.....	Weekly.
	Production of dairy products and meats.....	Crops and Markets.....	Quarterly.
	Car-lot shipments of fruits and vegetables.....	Crops and Markets.....	Monthly supplement.
	Farm labor, wages, supply, etc.....	Crops and Markets.....	Monthly supplement.
	Sales of loose-leaf tobacco.....	Crops and Markets.....	Monthly.
	Grain prices.....	Press release*.....	20th of month.
	Hay receipts.....	Crops and Markets.....	Monthly.
	Stocks of tobacco.....	Press release*.....	One month after end of qtr.
	Consumption of butter, cheese, and meats.....	Crops and Markets.....	Monthly.
	Index of agricultural exports.....	Crops and Markets.....	Monthly.
BUREAU OF PUBLIC ROADS.....	Federal-aid highways.....	Public Roads.....	Monthly.
	Wages of common labor, by geographic divs.....	Not published.....	
	Automobile financing.....	Press release*.....	20th of month.
U. S. DEPARTMENT OF COMMERCE:			
BUREAU OF THE CENSUS.....	Cotton ginned.....	Preliminary report on ginnings*.....	Semimo. during season.
	Cotton consumed and on hand.....	Preliminary report on cotton consumed.....	15th of month.
	Active textile machinery.....	Wool machinery and cotton spindles*.....	20th of month.
	Leather, hides, shoes, gloves, production, etc.....	Census of hides, skins, and leather*.....	First week of month.
	Leather gloves and mittens.....	Press release*.....	30th of month.
	Cottonseed and cottonseed oil.....	Preliminary report on cottonseed*.....	18th of month.
	Hosiery production, stocks, etc.....	Press release*.....	30th of month.
	Knit underwear production, etc.....	Press release*.....	30th of month.
	Pulverizing equipment.....	Press release*.....	20th of month.
	Men's and boys' and work clothing.....	Press release*.....	30th of month.
	Malleable castings.....	Press release*.....	30th of month.
	Wheat flour production from May, 1923.....	Press release*.....	30th of month.
	Wheat and wheat flour stocks.....	Press release*.....	One month after end of qtr.
	Pyroxylin coated textiles.....	Press release*.....	30th of month.
	Stokers, sales from January, 1923.....	Press release*.....	20th of month.
	Wool consumption and stocks.....	Press release*.....	30th of month.
	Steel barrels.....	Press release*.....	30th of month.
	Fabricated steel plate, new orders.....	Press release*.....	20th of month.
	Box board.....	Press release*.....	30th of month.
	Electrical goods, new orders.....	Press release*.....	One month after end of qtr.
	Electric locomotives, mining and industrial.....	Press release*.....	One month after end of qtr.
	Electric industrial trucks and tractors.....	Press release*.....	15th of month.
	Floor and wall tile.....	Press release*.....	30th of month.
	Fire extinguishers.....	Press release*.....	20th of month.
	Galvanized sheet metal ware.....	Press release*.....	30th of month.
	Babbitt metal consumption.....	Press release*.....	25th of month.
	Floor and wall tile.....	Press release*.....	30th of month.
	Enameled sanitary ware.....	Press release*.....	20th of month.
	Vitreous china plumbing fixtures.....	Press release*.....	25th of month.
	Fats and oils, production, consumption, stocks.....	Statistics of fats and oils*.....	One month after end of qtr.
	Glues and gelatin, production and stocks.....	Press release*.....	30 days after end of qtr.

<sup>1</sup> This is not necessarily the source of the figures published in the SURVEY, as many of them are obtained direct from the compilers prior to publication in the respective journals. This column and the right-hand column have been added to assist readers in obtaining current statistics between publication dates of the SURVEY.

\*Multigraphed or mimeographed sheets.

## SOURCES OF DATA—Continued

SOURCE	DATA	CURRENT PUBLICATION	DATE OF PUBLICATION
<b>I.—REPORTS FROM GOVERNMENT DEPARTMENTS, FEDERAL, STATE, AND FOREIGN—Continued</b>			
U. S. DEPARTMENT OF COMMERCE—Contd.			
BUREAU OF THE CENSUS (Continued)	Fabricated structural steel.....	Press release*	20th of month.
	Automobile production from July, 1921.....	Press release*	20th of month.
	Prepared roofing.....	Press release*	15th of month.
	Wood chemical operations, crude and refined.....	Press release*	30th of month.
	Steel castings, new orders and production.....	Press release*	20th of month.
	Oil burners.....	Press release*	21st of month.
	Steel furniture, shipments.....	Press release*	25th of month.
	Porcelain plumbing fixtures.....	Press release*	20th of month.
	Locomotive shipments and unfilled orders.....	Press release*	10th of month.
	Earnings of public utilities.....	Press release*	30th of month.
	Plumbing goods price index.....	Press release*	10th of month.
	Domestic pumps and water systems.....	Press release*	30th of month.
	Water softeners, shipments.....	Press release*	25th of month.
	Terra cotta, new orders.....	Press release*	15th of month.
	Steel boilers, new orders.....	Press release*	20th of month.
	Enameled sheet-metal ware.....	Press release*	30th of month.
	Public-merchandise warehouses.....	Press release*	10th of month.
BUREAU OF FISHERIES.....	Index numbers of stocks, and unfilled orders.....	Press release*	30th of month.
BUREAU OF FOREIGN AND DOMESTIC COMMERCE.	Fish catch at principal fishing ports.....	Monthly statement.	20th of month.
	All imports and exports.....	Monthly Sum. Foreign Commerce (Pt. I) <sup>1</sup>	Last week of month.
	Fuel loaded for consumption by vessels.....	Not published.	
	Vessels cleared.....	Monthly Sum. Foreign Commerce (Pt. II)	Middle of next month.
	Ship charter rates index.....	Commerce Reports.	
	World rubber stocks.....	Press release*	
	Foreign loans issued in United States.....	Commerce Reports.	
BUREAU OF MINES.....	Stocks of radio sets.....	Press release*	Quarterly.
	Petroleum, crude and refined, production, etc.....	Petroleum statistics*	30th of month.
	Explosives, production, shipments, etc.....	Explosive statistics*	Monthly.
	Coal and coke production.....	Weekly report on production of coal*	Second or third weekly issue of month.
BUREAU OF NAVIGATION.....	Portland cement, production, etc.....	Report on Portland cement output*	20th of month.
BUREAU OF STANDARDS.....	Vessel construction and losses.....	Commerce Reports.....	First weekly issue of mo.
U. S. PATENT OFFICE.....	Building material price indexes.....	Not published.	
U. S. DEPARTMENT OF THE INTERIOR: GEOLOGICAL SURVEY.....	Patents granted.....	Not published.	
	Electric power production.....	Production of electric power*	End of month.
	Consumption of fuel by public utility plants.....	Production of electric power*	End of month.
DIVISION OF NATIONAL PARKS.....	Visitors to national parks.....	Not published.	
U. S. DEPARTMENT OF LABOR: EMPLOYMENT SERVICE.....	Employment agency operations.....	Report of Activities of State and Municipal Employment Agencies.	Every 4 or 5 weeks.
	Labor turnover.....	Monthly Labor Review.....	Monthly.
BUREAU OF IMMIGRATION.....	Immigration and emigration statistics.....	Not published.	
BUREAU OF LABOR STATISTICS.....	Wholesale prices and index.....	Wholesale Prices of Commodities.....	15th of month.
	Retail price indexes.....	Monthly Labor Review.....	Monthly.
	Factory employment, pay roll, etc.....	Employment in Selected Industries.....	Monthly.
	Industrial disputes.....	Monthly Labor Review.....	Monthly.
U. S. POST OFFICE DEPARTMENT.....	Postal receipts.....	Statement of Postal Receipts*	7th of month.
	Money orders.....	Not published.	
U. S. DEPARTMENT OF STATE.....	Passports issued.....	Not published.	
U. S. TREASURY DEPARTMENT.....	Government debt, receipts, and disbursements.....	Daily Statement of the U. S. Treasury.....	10th of month.
	Tax-exempt securities.....	Not published.	Last day of month.
BUREAU OF THE MINT.....	Domestic receipts of gold at mint.....	Not published.	
BUREAU OF INTERNAL REVENUE.....	Oleomargarine, production and consumption of ingredients.....	Not published.	
	Consumption of manufactured tobacco, snuff, cigars, cigarettes, and oleomargarine.....	Statement of Tax-paid Products*	First week of month.
U. S. WAR DEPARTMENT: ENGINEER CORPS.....	Ethyl alcohol, production, stocks, etc.....	Not published.	
	Sault Ste. Marie and Cape Cod Canal traffic.....	Monthly statistical report.....	Monthly during season.
	Ohio, Monongahela, and Allegheny Rivers, cargo traffic.....	Not published.	
	Barge traffic on Mississippi River.....	Not published.	
MISSISSIPPI-WARRIOR SERVICE.....	Venezuelan petroleum production and exports.....	Not published currently.	
VENEZUELAN MINISTER OF INTERIOR.....	Wisconsin factory earnings and employment.....	Bulletin on Wisconsin labor market.....	15th of month.
WISCONSIN INDUSTRIAL COMMISSION.....			

**II.—REPORTS FROM COMMERCIAL AND TRADE ASSOCIATIONS**

ABRASIVE PAPER AND CLOTH MANUFACTURERS' EXCHANGE.....	Shipments of abrasive paper and cloth.....	Not published.	
AMALGAMATED ASSOCIATION OF IRON, STEEL, AND TIN WORKERS.....	Wages, steel workers, Youngstown district.....	Trade papers.....	Bimonthly.
AMERICAN BUREAU OF METAL STATISTICS.....	Copper, silver, lead, arsenic.....	Financial and trade papers.....	
AMERICAN DRY MILK INSTITUTE.....	Powdered milk, new orders.....	Monthly report*	Monthly.
AMERICAN ELECTRIC RAILWAY ASSOCIATION.....	Passengers carried, electric railways.....	Aera.....	
AMERICAN ERECTOR'S ASSOCIATION.....	Fabricated steel plate, new orders.....	Not published.	
AMERICAN FACE BRICK ASSOCIATION.....	Face brick production, stocks, etc.....	Trends in the Face Brick Industry.....	Monthly.
AMERICAN FEDERATION OF LABOR.....	Trade-union employment.....	The Federationist.....	Monthly.
AMERICAN FUR MERCHANTS ASSOCIATION.....	Fur sales.....	Not published.	
AMERICAN METAL MARKET.....	Tin deliveries and metal prices.....	Trade paper.....	First week of month.
AMERICAN NEWSPAPER PUBLISHERS' ASSOCN.....	Stocks and consumption of newsprint paper.....	Monthly report.....	Monthly.
AMERICAN IRON AND STEEL INSTITUTE.....	Steel ingot production.....	Press release to trade papers*	7th of month.
	Trackwork production.....	Trade papers.....	Quarterly.
	Sales of iron, steel and heavy hardware.....	Not published.	
AMERICAN STEEL AND HEAVY HARDWARE ASSOCIATION.....	Paper and wood pulp production, etc.....	Monthly report*.....	
AMERICAN PAPER AND PULP ASSOCIATION.....	Gasoline and kerosene consumption.....	Bulletin.....	
AMERICAN PETROLEUM INSTITUTE.....	Freight car surplus and shortage.....	Car Surpluses and Shortages*	Weekly.
AMERICAN RAILWAY ASSOCIATION (Car Service Division).....	Car loadings and bad-order cars and locomotives.....	Information Bulletins*	Weekly.
AMERICAN VENEER PACKAGE ASSOCIATION.....	Bushel baskets.....	Not published.	
AMERICAN WALNUT MFRS. ASSOCIATION.....	Walnut lumber and logs.....	Not published.	
AMERICAN ZINC INSTITUTE.....	Production and stocks zinc, retorts operating.....	Press release to trade papers*	13th of month.
ASPHALT SHINGLE AND ROOFING MFRS. ASSOCN.....	Prepared roofing shipments.....	Not published.	
ASSOC. CORN PRODUCTS MANUFACTURERS.....	Corn ground into starch, glucose, etc.....	Not published.	
ASSOCIATED GENERAL CONTRACTORS OF AM.....	Indexes of construction costs and volume.....	The Constructor.....	Monthly.
ASSOCIATION OF COTTON TEXTILE MERCHANTS.....	Cotton textiles, production, stocks, etc.....	Trade papers.....	
ASSOCIATION OF LIFE INSURANCE PRESIDENTS.....	Life insurance, new business, premiums, etc.....	Financial papers.....	

<sup>1</sup> Imports and exports of gold and silver in Part II.

\*Multigraphed or mimeographed sheets.

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SOURCE	DATA	CURRENT PUBLICATION	DATE OF PUBLICATION
<b>II.—REPORTS FROM COMMERCIAL AND TRADE ASSOCIATIONS—Continued</b>			
ASSN. OF MANF. OF WOODWORKING MACH. BINDERS BOARD MANUFACTURERS' ASSOCN.	Woodworking machinery	Not published	
BOSTON GRAIN AND FLOUR EXCHANGE	Binders board production	Not published	Daily.
BUREAU OF RAILWAY ECONOMICS	Receipts of wool at Boston	Trade papers	
CALIFORNIA REDWOOD ASSOCIATION	Average railway receipts per ton-mile	Not published	Monthly.
CALIFORNIA WHITE AND SUGAR PINE ASSOCN.	Passengers and tonnage carried 1 mile	Summary of operating statistics	
CENTRAL FABRICATORS ASSOCIATION	Redwood lumber production, etc.	Not published	
CHICAGO BOARD OF TRADE	Sugar pine lumber production, etc.	Not published	
CLEVELAND CHAMBER OF COMMERCE	Fabricated structural steel, new orders, etc.	Not published	Daily.
COLD-FINISHED STEEL BAR INSTITUTE	Wheat, corn, and oats, receipts, etc.	Trade papers	
COMMERCIAL LOCK WASHER STATI. BU.	Factory employment in Cleveland	The Cleveland	
COMMON BRICK MANFRS. ASSOCN. OF AMERICA	Cold-finished steel bars	Not published	
CONTINUOUS FOLD PRINTERS ASSOCIATION	Lock washer shipments	Not published	
COTTON-TEXTILE INSTITUTE	Common brick shipments, stocks, etc.	Monthly report	
DETROIT BOARD OF COMMERCE	Commercial forms	Not published	
ELECTRIC HOIST MANUFACTURERS' ASSOCN.	Cotton yarns and cloth printed	Weekly report	
ELECTRIC OVERHEAD CRANE INSTITUTE	Detroit employment	Not published	Bimonthly.
FELT MANUFACTURERS' ASSOCIATION	Electric hoists, orders and shipments	Not published	
FINE COTTON GOODS EXCHANGE	Overhead cranes, shipments, etc.	Not published	
FOUNDRY EQUIPMENT MFRS. ASSOCIATION	Roofing felt production, stocks, etc.	Not published	
GAS HEATING BOILER AND FURNACE ASSOCN.	Fine cotton goods production	Trade papers	
GLASS CONTAINER ASSOCIATION	Foundry equipment, new orders, etc.	Report on monthly volume of business	Monthly.
HARDWOOD MANUFACTURERS' INSTITUTE	Gas-fired boilers and furnaces	Not published	
HYDRAULIC SOCIETY	Glass container production, etc.	Monthly report*	
ILLUMINATING GLASSWARE GUILD	Hardwood lumber, stocks, etc.	Monthly report	
LAKE SUPERIOR IRON ORE ASSOCIATION	Steam, power, and centrifugal pumps	Not published	
LIFE INSURANCE SALES RESEARCH BUREAU	lluminating glassware production, orders, etc.	Not published	
LOWER MICHIGAN LUMBER MANUFACTURERS	Consumption, stocks, and shipments, iron ore	Monthly report*	
MAPLE FLOORING MANFRS. ASSOCIATION	Life insurance, new business and lapses, ordinary	Monthly release	18th of month,
MEDIA RECORDS, INC.	Hardwood lumber, production, etc.	Not published	
MINNEAPOLIS CHAMBER OF COMMERCE	Maple flooring production, etc.	Not published	Monthly.
MOTOR AND ACCESSORY MFRS. ASSOCIATION	National Newspaper advertising	Not published	
NATIONAL LUMBER MANUFACTURERS' ASSOCIATION	Linseed-oil and oil-cake shipments	Monthly statement	Monthly.
NATIONAL ASSOCIATION OF BUTTON MFRS.	Shipments of accessories and parts	Business Bulletin	
NATIONAL ASSOCIATION OF FINISHERS OF COTTON FABRICS	Western Pine lumber production, etc.	Published weekly	
NATIONAL BOARD OF FIRE UNDERWRITERS	Fresh-water pearl buttons, stocks, activity, etc.	Weekly report	Weekly.
NATIONAL ASSOCIATION OF FLAT ROLLED SHEET MANUFACTURERS	Finished cotton goods, billings, orders, shipments, and stocks	Not published	
NATIONAL ASSOCIATION OF GLUE MANFRS.	Fire losses	Monthly report	Monthly.
NATIONAL ASSOCN. OF REAL ESTATE BDS.	Steel sheets, production, stocks, etc.	Not published	
NATIONAL ASSOCIATION OF STEEL FURNITURE MANUFACTURERS	Shipments of animal glues	Not published	
NATIONAL AUTO. CHAMBER OF COMMERCE	Real estate conveyances	Bulletin	
NATIONAL BOILER AND RADIATOR ASSN.	Steel furniture, shipments, orders, etc.	Not published	
NATIONAL ELECTRICAL CREDIT ASSOCIATION	Production of automobiles	Not published	
NATIONAL ELECTRICAL MFRS. ASSOCIATION	Cast-iron boilers and radiators	Not published	
NATIONAL FERTILIZER ASSOCIATION	Credit conditions, electrical trade	Not published	
NATIONAL INDUSTRIAL CONFERENCE BOARD	Electrical products, shipments, orders, etc.	Not published	
NATIONAL MACHINE TOOL BUILDERS' ASSOCN.	Superphosphate and fertilizer	Not published	
NATIONAL PAPER BOX MFRS. ASSOCIATION	Cost of living, wages, and hours of labor	Monthly press release	21st of month.
NEW ORLEANS BOARD OF TRADE	Machine-tool orders, shipments, etc.	Not published	
NEW ORLEANS COTTON EXCHANGE	Paper boxes, shipments and pay roll	Not published	
NEWS PRINT SERVICE BUREAU	Rice distribution through New Orleans	Monthly report	First week of month.
NEW YORK COCOA EXCHANGE	Cotton receipts into sight	Monthly report	First week of month.
NEW YORK COFFEE AND SUGAR EXCHANGE	Newsprint production, stocks, and shipments	Monthly bulletin	
NEW YORK METAL EXCHANGE	Cocoa shipments, etc.	Monthly bulletin	
NEW YORK STOCK EXCHANGE	Coffee receipts, stocks, etc.	Monthly statement	First week of month.
NORTH CAROLINA PINE ASSOCIATION	Tin stocks and deliveries	Trade papers	First week of month.
NORTHERN HEMLOCK AND HARDWOOD MANUFACTURERS' ASSOCIATION	Loans to brokers	Financial papers	5th of month.
NORTHERN PINE MANFRS. ASSOCIATION	North Carolina pine, production, etc.	Not published	
OAK FLOORING MANFRS. ASSOCIATION	Hemlock and hardwood lumber production, etc.	Not published	
OHIO STATE FOUNDRYMEN'S ASSOCIATION	Northern pine lumber and lath	Not published	
PACIFIC CANNED FISH BROKERS' ASSOCIATION	Oak flooring, production, etc.	Not published	
PACIFIC COAST PLYWOOD MANUFACTURERS' ASSOCIATION	Ohio foundry iron, meltings, stocks, etc.	Monthly report* (not published)	Monthly.
PAPERBOARD INDUSTRIES ASSOCIATION	Shipments of canned salmon	Not published	
PLATE GLASS MFRS. OF AMERICA	Douglas fir plywood production, etc.	Weekly reports	
PLYWOOD MANUFACTURERS' ASSOCIATION	Paperboard shipping boxes and boxboard	Not published	
PORCELAIN ENAMEL MANUFACTURERS' ASSOCN.	Plate-glass production	Financial papers	
PORTLAND CEMENT ASSOCIATION	Plywood, orders, etc.	Not published	
RICE GROWERS' ASSOCIATION OF CALIFORNIA	New orders and shipments of flatware	Not published	
RICE MILLERS' ASSOCIATION	Cement paving contracts	Concrete Highway Magazine	Monthly.
ROPE PAPER SACK MANFRS. ASSOCIATION	Rice, receipts, stocks, shipments (Calif. mills)	Not published	
RUBBER ASSOCIATION OF AMERICA	Rice, receipts, stocks, etc. (southern mills)	Monthly report	
RUBBER GROWERS' ASSOCIATION	Shipments of rope-paper sacks	Not published	
RUBBER TRADE ASSOCIATION	Rubber tires, heels, soles, crude stocks, etc.	Monthly reports (not published)	Monthly.
SALES BOOK MANUFACTURERS' ASSOCIATION	Rubber stocks in Europe, Asia, and Brazil	Bulletin of Rubber Growers' Association	
SAVINGS BANK ASSOCN. OF STATE OF N. Y.	Rubber prices	Not published	
SHEET METAL WARE ASSOCIATION	Shipments and orders of sales books	Not published	
SILK ASSOCIATION OF AMERICA	Savings banks deposits in New York State	Not published in form used	
SOUTHERN FURNITURE MFRS. ASSOCIATION	Galvanized and enameled sheet metal ware	Not published	
SOUTHERN PINE ASSOCIATION	Raw silk consumption, machinery activity, etc.	Monthly press release to trade papers*	5th of month.
STEEL FOUNDERS' SOCIETY	Furniture shipments and unfilled orders	Not published in form used	
TIRE AND RIM ASSOCIATION	Yellow pine production and stocks	Not published in form used	
TWIN CITY MILK PRODUCERS' ASSOCIATION	Steel castings, bookings, and production	Not published	
UNITED TYPOTHETAE OF AMERICA	Production of automobile rims	Financial papers	20th of month.
VACUUM CLEANER MANUFACTURERS ASSN.	Milk production, Minnesota	Not published	
WEBBING MANUFACTURERS' EXCHANGE	Printing activity	Typothetae Bulletin	Monthly.
WEST COAST LUMBERMEN'S ASSOCIATION	Vacuum-cleaner shipments	Trade papers	
WESTERN SHEET AND TIN PLATE MANUFACTURERS' ASSOCIATION	Elastic webbing, shipments	Not published	
WIREBOUND BOX MANUFACTURERS' ASSOCN.	Douglas fir lumber production, etc.	Not published	
WIRE CLOTH MANUFACTURERS' ASSOCIATION	Wages, steel workers, Youngstown district	Trade papers	Bimonthly.
	Rotary cut veneer, receipts and purchases	Weekly report	
	Wire cloth, production, shipments, stocks, etc.	Not published	

\* Multigraphed or mimeographed sheets.



## SOURCES OF DATA—Continued

SOURCE	DATA	DATE OF PUBLICATION
<b>III.—REPORTS FROM TECHNICAL PERIODICALS</b>		
AMERICAN METAL MARKET.....	Composite pig iron and steel prices; tin prices.....	First or second week of month (daily).
THE ANNALIST.....	Stock sales and prices.....	First weekly issue of month (Fridays).
THE BOND BUYER.....	State and municipal bond issues and yields.....	First weekly issue of month (Saturdays).
BRADSTREET'S.....	Visible supply of grains (except rye).....	Weekly (Saturdays).
	Check payments and business failures, Canada.....	First weekly issue of month (Saturdays).
	Wholesale price index.....	Second weekly issue of month (Saturdays).
CHEMICAL AND METALLURGICAL ENGINEERING.....	Chemical price index.....	Weekly (Wednesdays).
COAL AGE.....	Mine price of bituminous coal.....	Weekly (Thursdays).
COMMERCIAL AND FINANCIAL CHRONICLE.....	Cotton, world visible supply and bond flotations.....	Weekly (Saturdays).
	New corporate securities.....	Last weekly issue of month (Saturdays).
DAILY NEWS RECORD.....	Fairchild cotton goods and silk goods index.....	First week of month (daily).
DENNY PUBLISHING CO.....	Magazine and radio advertising cost.....	Third week of month.
DOW, JONES & CO. (WALL STREET JOURNAL).....	New York bond sales and prices.....	First week of month (daily).
	Mexican petroleum shipments.....	20th of month (daily).
DUN'S REVIEW.....	Business failures and wholesale price index.....	First weekly issue of month (Saturdays).
ELECTRICAL WORLD.....	Sales and consumption of electrical energy, central stations.....	First weekly issue of month (Saturdays).
ENGINEERING AND MINING JOURNAL-PRESS.....	Rand gold production; lead, zinc, copper, and silver prices.....	Second weekly issue of month (Saturdays).
ENGINEERING NEWS RECORD.....	Construction cost index.....	First weekly issue of month.
IRON AGE.....	Pig-iron production, furnaces in blast, etc.....	First weekly issue of month (Thursdays).
IRON TRADE REVIEW.....	Iron and steel prices.....	Weekly (Thursdays).
JOPLIN GLOBE.....	Shipments, etc., zinc and lead ore, Joplin district.....	Not published.
MCGRAW HILL CO.....	Rate of Manufacturing operations.....	Not published.
MONETARY TIMES.....	Canadian fire losses.....	Not published.
NAVAL STORES REVIEW.....	Turpentine and rosin, receipts and stocks, 3 ports.....	Weekly (Saturdays).
NEW YORK EVENING POST.....	Newspaper advertising.....	Pt. II of this magazine (last of month).
NEW YORK JOURNAL OF COMMERCE.....	Dividend and interest payments.....	First week of month (daily).
		10th of month (daily).
NEW YORK PRODUCE REVIEW AND AMERICAN CREAMERY.....	Milk receipts at Greater New York.....	Last issue of month.
NORTHWESTERN MILLER.....	Flaxseed, receipts, etc.....	Weekly (Wednesdays).
OIL, PAINT, AND DRUG REPORTER.....	Price indexes of drugs, oil, etc; Argentine flaxseed stocks.....	Weekly (Mondays).
PRINTERS' INK.....	Magazine advertising.....	Second week of month.
PUBLISHERS' WEEKLY.....	Book production.....	Third week of month.
RAILWAY AGE.....	Railway equipment orders.....	Monthly.
ROCK PRODUCTS.....	Sand lime brick production, etc.....	Monthly.
RUSSELL'S COMMERCIAL NEWS.....	Wheat flour production and stocks (computed).....	Fourth week of month (Wednesdays).
STATISTICAL SUGAR TRADE JOURNAL.....	Sugar stocks, receipts, meltings, and Cuban statistics.....	Weekly (Fridays).
WORLD'S RUBBER POSITION (BRITISH).....	World shipments and stocks of rubber.....	Monthly.

SOURCE	DATA	CURRENT PUBLICATION	DATE OF PUBLICATION
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**IV.—REPORTS FROM PRIVATE ORGANIZATIONS**

(Excluding individual firms reporting data to be combined with other firms or trade associations)

ABERTHAW CONSTRUCTION Co.....	Building costs.....	Construction trade papers.....	
AMERICAN APPRAISAL Co.....	Construction costs.....	American Appraisal News.....	Monthly.
AMERICAN TELEPHONE & TELEGRAPH Co.....	Stockholders in the company.....	Financial papers.....	Third week of month.
AMES, A. E., & Co.....	Canadian bond sales.....	Weekly bond summary *.....	
CHILDS Co.....	Restaurant sales.....	Monthly report.....	Monthly.
COMPAGNIE UNIVERSELLE DU CANAL MARITIME DE SUEZ.....	Suez Canal traffic.....	Le Canal de Suez.....	5th, 15th, and 25th of month.
DICKSON, R. S., & Co.....	Southern cotton mill stocks index.....	Financial papers.....	Weekly.
DODGE, F. W., CORPORATION.....	Building contracts.....	Statement on Building Statistics.....	Monthly.
GENERAL MOTORS CORPORATION.....	Sales of closed cars, sales to dealers and to users.....	Financial papers.....	Monthly.
GRAND, F. & W., 5-10-25 CENT STORES.....	Chain-store sales.....	Financial papers.....	
GRANT, W. T., Co.....	Chain-store sales.....	Financial papers.....	
HAFFARDS, G. M., & Co.....	Fall River cotton mill dividends.....	Bradstreet's.....	Quarterly.
HERCULES POWDER Co.....	Steam naval stores, production and stocks.....	Naval Stores Review.....	Monthly.
HORWATH & HORWATH.....	Hotel room occupancy.....	Horwath Hotel Accountant.....	Monthly.
LAW, A. W., & Co.....	Mill dividends, Spartanburg County, S. C.....	Financial papers.....	Semiannually.
LEE, GEORGE C., Co.....	Cocoa, spot price.....	Not published.....	First week of month.
LLOYD'S.....	World ship construction.....	New York Journal of Commerce.....	
KRESS, S. S., Co.....	Chain-store sales.....	Financial papers.....	First week of month.
KRESS, S. H., & Co.....	Chain-store sales.....	Financial papers.....	First week of month.
MCCLEAN BUILDING REPORTS, LTD.....	Canadian building contracts.....	Canadian Building Review.....	Monthly.
MCCRODY STORES CORPORATION.....	Chain-store sales.....	Financial papers.....	First week of month.
METROPOLITAN FIVE AND TEN CENT STORES.....	Chain-store sales.....	Financial papers.....	
METROPOLITAN LIFE INSURANCE Co.....	Factory labor turnover.....	Not published.....	
MURPHY, G. C., Co.....	Chain-store sales.....	Financial papers.....	
NEW YORK TRUST Co.....	Indexes of stock and bond prices.....	The Index.....	Monthly.
OHIO STATE UNIVERSITY, BUREAU OF BUSINESS RESEARCH.....	Employment, construction industries, Ohio.....	Bulletin.....	Monthly.
O'SHAUGHNESSY'S SOUTH AMERICAN OIL REPORTS.....	Petroleum data for Mexico and Venezuela.....	South American Oil Reports.....	
PENNEY, J. C., Co.....	Chain-store sales.....	Financial papers.....	First week of month.
PENNSYLVANIA RAILROAD Co.....	Stockholders in the company.....	Financial papers.....	Quarterly.
POKE, R. L., & Co.....	New passenger-car registrations.....	National New Car Reporting Service*.....	Monthly.
PULLMAN Co.....	Pullman passenger traffic and operations.....	Not published.....	
SANFORD & KELLEY.....	New Bedford cotton mill dividends.....	Bradstreet's.....	Quarterly.
SEARS, ROEBUCK & Co.....	Mail-order sales.....	Financial papers.....	First week of month.
SEIDMAN & SEIDMAN.....	Sales of furniture in Grand Rapids district.....	Not published.....	
SILVER, ISAAC, & BROS.....	Chain-store sales.....	Financial papers.....	
STANDARD STATISTICS Co.....	Stock and bond price indexes.....	Standard Securities Service.....	
THOMPSON, J. R., Co.....	Restaurant sales.....	Monthly press release*.....	
UNITED STATES STEEL CORPORATION.....	Unfilled orders.....	Press release*.....	10th of month.
	Earnings.....	Press release*.....	Quarterly.
	Stockholders.....	Financial papers.....	Quarterly.
	Wages of common labor.....	Special reports*.....	Occasionally.
WALDORF SYSTEM, INC.....	Restaurant sales.....	Quarterly press release*.....	
WARD, MONTGOMERY, & Co.....	Mail-order sales.....	Financial papers.....	First week of month.
WOOLWORTH, F. W., & Co.....	Chain-store sales.....	Financial papers.....	First week of month.

\* Multigraphed, mimeographed, or duplicated sheets.



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## PUBLICATIONS OF THE DEPARTMENT OF COMMERCE

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

**Aviation.** Air Commerce Bulletin is issued semimonthly by the Aeronautics Branch of the Department of Commerce and contains short articles on aviation developments and a list of air transport routes.

**Glider and Gliding.** ii+8 pages. (Aeronautics Branch, Aeronautics Bulletin No. 22.) Brief account of the development of the glider and description of the different methods used for operating this kind of airplane. There are included the regulations of the Department of Commerce governing the issue of licenses to glider pilots.

**Parachute Supplement, Air Commerce Regulations.** ii+5 pages. (Aeronautics Branch, Aeronautics Bulletin No. 7-D.) Regulations governing the manufacture and use of parachutes.

**Building materials.** Tests of Composite Beams and Slabs of Hollow Tile and Concrete, by D. E. Parsons and A. H. Stang. (Bureau of Standards, Research Paper No. 181.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1930, pp. 815-849, 3 illustrations, 6 pages of plates, 14 charts. These tests were made to determine the strength of the binding of concrete and hollow tile for use in floor construction. Experiments were made also to discover the relative value of tiles of different designs and different materials. Price, 15 cents.

**Bureau of Standards Journal of Research.** Is published monthly and contains the papers formerly issued as Scientific and Technologic Papers series, which have been discontinued. The articles in the journal are known as the Research Papers series and are issued separately after publication in the journal. Single copies, 40 cents; annual subscription, \$2.75.

**Coke and By-Products in 1928,** by F. G. Tryon and H. L. Bennit. (Bureau of Mines, Mineral Resources of United States, 1928, Pt. II, pp. 705-801, 25 illustrations.) Report on the activities of the coke-producing industry during 1928. Price, 15 cents.

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

**Fruit.** Australian Canned Fruit Industry. ii+21 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 703.) This bulletin deals with the development of the canned fruit industry in Australia, its relation to irrigation, varieties of fruit trees planted, amount of production, costs of production and canning, and the marketing organization of the industry. Price, 10 cents.

**Markets for Fruit Juices and Fruit Sirups in Latin America.** ii+30 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 702.) This bulletin shows the status of the market for fruit juices and sirups in Latin American countries, and contains statistics of import trade in these products for many of the countries. Price, 10 cents.

**Fuel Briquets in 1929,** by O. E. Kiessling and J. M. Corse. (Bureau of Mines, Mineral Resources of United States, 1929, Pt. II, pp. 23-33, 1 chart.) Price, 5 cents.

**Geodesy.** Geodetic Operations in United States, January 1, 1927-December 31, 1929, by William Bowie. iv+38 pages, 1 illustration, 7 maps. (Coast and Geodetic Survey, Special Publication No. 166.) This is a report made to the section of geodesy of the International Geodetic and Geophysical Union and gives an account of surveys undertaken for use as basis for topographic maps, for location of political boundaries, and for surveys required in engineering operations.

**Heat.** Note on Theory of Heat Conduction, by M. S. Van Dusen. (Bureau of Standards, Research Paper No. 178.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1930, pp. 753-756. Price, 5 cents.

**Iron and Steel.** Blistering Phenomena in Enameling of Cast Iron, by A. I. Krynsky and W. N. Harrison. (Bureau of Standards, Research Paper No. 179.) Reprint from Bureau of Standards Journal of Research, vol. 4, June, 1930, pp. 757-807, 7 illustrations, 22 pages of plates. Report on experiments to discover the causes of blistering when enamel is applied to iron. A selected bibliography is included. Price, 30 cents.

**Stock Distribution and Gas-Solid Contact in Blast Furnace,** by C. C. Furnas and T. L. Joseph. iv+73 pages, 8 illustrations, 9 pages of plates, 29 charts. (Bureau of Mines, Technical Paper 476.) Study of gas distribution and resistance offered by ores in blast furnaces. Price, 30 cents.

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

Same, May, 1930.

**Motion Pictures.** Markets for American Motion-Picture Equipment in Asia, Africa, and Oceania. ii+46 pages. (Bureau of Foreign and Domestic Commerce, Trade Information Bulletin No. 701.) Discussion of the kinds of projectors, lamps, and screens in use in motion-picture theaters in countries of the Orient and Africa, the outlook for sales of such equipment, and the extent to which motion pictures are employed for educational purposes. Price, 10 cents.

**Petroleum and Products.** Petroleum in 1928, by G. R. Hopkins and A. B. Coons. (Bureau of Mines, Mineral Resources of United States, 1928, Pt. II, pp. 615-703, 9 charts.) Report on petroleum production and stocks in the United States, the world production, and the trade of the United States in this product. Price, 15 cents.

**Public Works.** Planning and Control of Public Works, Report of Committee on Recent Economic Changes of President's Conference on Unemployment. iv+44 pages. (Department of Commerce, Elimination of Waste Series.) Study of the stabilizing influence of public construction on business conditions and its effect on the employment situation. Price, 5 cents.

**Quarries and Quarrying.** Quarry accidents in United States During Calendar Year 1928, by William W. Adams. vi+103 pages, 1 illustration. (Bureau of Mines, Bulletin 325.) Report on number of men employed in quarries, the number killed or injured through accident, and the cause of such accidents during 1928. There is given, also, a comparison of data on accidents in quarries and mines for the same period. Price, 20 cents.

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

**Bays, Sounds, and Lakes, Other than Great Lakes, General Rules and Regulations Prescribed by Board of Supervising Inspectors as Amended at Board Meeting of January, 1930.** viii+232 pages, 6 illustrations. (Steamboat Inspection Service, Form 801C.) Rules and regulations governing the construction and equipment of vessels used to navigate the bays, sounds, and small lakes of the United States.

**Great Lakes, General Rules and Regulations Prescribed by Board of Supervising Inspectors as Amended at Board Meeting of January, 1930.** x+230 pages, 6 illustrations. (Steamboat Inspection Service, Form 801B.)

**Ocean and Coastwise, General Rules and Regulations Prescribed by Board of Supervising Inspectors as Amended at Board Meeting of January, 1930.** viii+289 pages, 8 illustrations. (Steamboat Inspection Service, Form 801A.) Construction and equipment regulations for vessels in ocean and coastwise service.

**Rivers, General Rules and Regulations Prescribed by Board of Supervising Inspectors as Amended at Board Meeting of January, 1930.** viii+224 pages, 6 illustrations. (Steamboat Inspection Service, Form 801D.) Construction and equipment regulations for vessels used on inland waterways.

**United States Coast Pilot: Philippine Islands, Part II, Palawan, Mindanao, and Sulu Archipelago.** Second edition, 1930. iv+436 pages, 1 map. (Coast and Geodetic Survey, Serial No. 474.) Describes waters of this region and gives sailing directions for their navigation. Price, 75 cents.

**Simplified Practice Recommendations.** Die-Head Chasers for Self-Opening and Adjustable Die Heads. vi+13 pages, 1 chart. (Bureau of Standards, Simplified Practice Recommendation R51-29.) Price, 10 cents.

# CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE

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