# UNITED STATES DEPARTMENT OF COMMERCE WASHINGTON 

# SURVEY OF CURRENT BUSINESS 

 AUGUST. 1930No. 108

## SEMIANNUAL NUMBER

ISSUED BY
BUREAU OF FOREIGN AND DOMESTIC COMMMERCE

## IMPORTANT NOTICE

> Thtidibution fugures gipen fram Godermitnt sourchs, there ate also incor porated for compleleness of sctoth fgater from otfier soutces genbrally, accepted by the trades, the authonty and responsibitity 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 proncipal 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 ayailable at all, are scattered in hundreds of different publications, A portion of these lata are collected by Governinent 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 a vailable, back to 1913; also blank lines sufficient for six months have been left at the bottom of each table, orabling those who care to do so to enter nem figares as soon as they appear (see pp. 22-139). In the interyening 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 nust reach the business man at the earliest possible moment, the department has arranged to distribute supplements every week to sabseribers in the United States. The supplements are usuaily mailed on Saturdays and give such information as has been received durng the week enditig on the preceding Tuesday, The monthly information contained in these bulletins is republished in the Sunvey, 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 fefering more particularly to a specíal gind of number described below) have been caleulated 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 yice versa. The difference between 100 and the felative number will give at once the per cent increase or decrease compared with the base period Thus a relative number of 115 meats an increase of 15 per cent over the base period, while a relative number of 80 means a decrease of 20 percent from the base.

Relative numbers may also be used to calculate the approxinate percentage increase or decrease in a movenent from one period to the next. Thus, if a Telatite number at one month is 120 and for a later month it is 144 there lis been an increase of 20 per ont.

When two or more series of relatite numbers are combined by a system of weightings, the resulting series is denominated an index number. The inder number, by cembining 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 Sumver of Currint Business are of the type termed Ratio Charts" (logarithmic seale), notabbly the Business Indicator charts on page 2 These chaft, 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 diagramy that is, a 10 per cent increase fo an iten is g'ty the satne rertical movenent whether its eurve is ncar the botfom 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 certhin 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 plóted 40 equidistant scale points higher than the preceding months. Antither nove. ment, with a relative number of say, 50 also mincreases 10 per cent, making its relative number 55 . On the ordinary (arithruetic) scale 'thiss item would rise only 5 equidistant points, where as the previous item rose 40 points, yet each showed the same percentage Luyreash. The ratio charts avoid difficulty and give to each of the two movements exactly the same verifical tise? and hence the slopes of the two hines are directly comparable. The ratio charts compare percentage chiages, while the aithmetic oharts 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 Reord Book of búsintss Sratistics, in which data now carried in the Suavey OF CURRENT BUSINESS are shown by moiths as far back as 1909 , if available. Full descriptions of the figures and reports of how the data are used in aetual practiee by business firms are contained in the $R$ ficond Book. The sectons 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, Govermment Printing Office, Washington, D. C. (Do not send stamps. ) Notices of other sections will be given in the Surver as they are issued.

## METHODS OF USE

Methods of using and interpreting current business statisties have been collected by the departmelt from many business concerns and are dedoribed in 4 booklet entitled 'How to Use Current Business Statistics, together with methods of collecting statistics. This booklet maxy be obtained from the Superintendent of Documents, Government Printing OMco, Washington, D. C., at 15 cents per eopy, (Do not send stamps.)

[^0]UNITED STATES DEPARTMENT OF COMMERCE SURVEY OF CURRENT BUSINESS

COMPILED BY

THE BUREAU OF FOREIGN AND DOMESTIC COMMERCE

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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 $=100$ ]









 index numbers (100 :INTEREST RATE, COMMERCIAL PAPER



## MONTHLY BUSINESS INDICATORS

The principal business indicators are shown below, all calculated on a comparable basis, the average for the years 1923 to 1825, 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 | 1824 | 1925 | 1026 | 1927 | 2928 | 1929 | May | June | May | June | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June |
|  | 1923-1925 monthly averages 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrial production: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Total minerals. | 105.0 | 06. 0 | 90.0 | 108.0 | 107.0 | 106.0 | 115.0 | 105.0 | 101.0 | 116.0 | 113.0 | 118.0 | 110.0 | 116.0 | 112.0 | 109.0 | 98.0 | 104.0 | 103.0 | 101.0 |
| Plgiron. | 111.7 | 80.7 | 101.5 | 109.0 | 101.0 | 105. 5 | 117.9 | 109.9 | 103.1 | 130.5 | 124.4 | 120.1 | 106.5 | 94.8 | 94.0 | 95.0 | 108.6 | 106.5 | 108.2 | 98.2 |
| Steol ingots | 104.8 | 88.7 | 100.4 | 113.1 | 104.6 | 120.2 | 130.9 | 121.6 | 108.3 | 152.8 | 141.8 | 131.2 | 101.8 | 84.0 | 109.8 | 118.0 | 124.4 | 119.8 | 116.4 | 99.5 |
| Automobiles. | 101.7 | 00.8 | 107.5 | 108. 4 | 85.7 | 109.9 | 135.1 | 128.8 | 120.0 | 182.9 | 165. 1 | 114.9 | 65.8 | 36.3 | 83.3 | 104.9 | 121.4 | 134.0 | 126.2 | 101.5 |
| Coment. | 92.1 | 09.8 | 108. 1 | 110.0 | 115. 8 | 118.0 | 114.1 | 139.3 | 140.8 | 129.8 | 135. 2 | 134.6 | 113.1 | 90.2 | 68.4 | 85.7 | 90.3 | 108.8 | 138.8 | 138.7 |
| Cotton (consumption) | 105.0 | 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 | 09.1 | 103.7 | 92.3 | 79.0 |
| Wool (consumption). | 112.8 | 94.6 | 92.6 | 88.7 | 97.0 | 94.7 | 103.1 | 92.7 | 87.1 | 102.9 | 03.0 | 125.3 | 98.5 | 79.8 | 02.1 | 80.9 | 78.5 | 77.7 | 68.9 | 69.2 |
| Raw materlal output: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Orops..-..... | 01.8 | 104.0 | 104. 0 | 109.0 | 113.3 | 117.0 | 114.2 | 72.4 | 51.8 | 61.1 | 56.3 | 246.3 | 154.6 | 139.2 | 78.7 | 62.6 | 55.6 | 53. | 55.6 | 9 |
| Forest products | 92.0 | 97.0 | 104.0 | 88.0 | 93.0 | 88.2 | 85.4 | 101.0 | 94.5 | 98.6 | 89.9 | 89.2 | 82.0 | 69.6 | 63.3 | 68.5 | 73.6 | 79.2 | 80. 1 | 73.0 |
| Orude petroleum | 99.4 | 06.9 | 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 | 02.5 | 99.5 | 109.7 | 09.0 | 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 |
| Oopper- | 93. 4 | 100.2 | 108. 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 |
| Power and construction: Eicotric power $\qquad$ | 92.8 | 08.1 | 109. 5 | 122.6 | 183.3 | 146.0 | 181.8 | 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 |
| Ballding 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. |
| Unfilled orders: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Genersl index. | 121.7 | 87.0 | 91.8 | 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 83 |
| ర. 8. Steel Corporation | 125. 8 | 83.6 | 90.6 | 82.1 | 71.1 | 80.7 | 87.1 | 71.6 | 76.2 | 90.1 | 88.2 | 85.6 | 86.4 | 92.5 | 93.6 | 93.8 | 95.7 | 91.2 | 85.0 | 83.1 |
| Stocks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| Mantd. commodities | 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 |
| Ootton. | 102.5 | 91.4 | 108.2 | 145. 5 | 153.1 | 123.6 | 126.8 | 95.5 | 74.7 | 88.4 | 70.9 | 177.5 | 199.8 | 200.4 | 192.5 | 177.4 | 158.3 | 141.1 | 129.5 | 118.7 |
| Oopper (refined) | 108.4 | 113.9 | 73.1 | 64.8 | 88.4 | 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 |
| Wmployment: Factories.... | 104. 2 | 96.2 | 89.7 | 101.4 | 98.8 | 97.2 | 100.4 | 95.7 | 96.2 | 101.6 | 101.2 | 102.1 | 98.2 | 94.8 | 92.8 | 92.9 | 92.7 | 92.1 | 90.4 | 2 |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm prodacts, to producers | 97: 8 | 07.1 | 100.5 | 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 |
| Wholesalo, all commodities. | 09.9 | 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 |
| Retail food. | 07.6 | 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 |
| Oost of living (inclading food).... | 88. 2 | 09.4 | 102.4 | 102.4 | 100.0 | 88.7 | 88.4 | 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 |
| Distribution (values) : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Department stores, sales | 98.0 | 90. 0 | 103.0 | 1060 | 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.c |
| - Mail-order males, 2 housea | 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 | 89.0 | 113. 0 | 125. 0 | 188.0 | 150. 0 | 164.0 | 144.0 | 153.0 | 172.0 | 174.0 | 159.0 | 168.0 | 165.0 | 152.0 | 162.0 | 164.0 | 161.0 | 174.0 | 160.0 |
| Postal recelpts. | 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 | 21. 8 | 100.8 | 107.8 | 105. 5 | 106.8 | 112. 6 | 115.2 | 111.1 | 102.3 | 101.4 | 103.6 | 189.6 | 116.5 | 112.4 | 108.3 | 91.9 | 97.4 | 88. | 84.8 | 78 |
| Transportation: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flnance: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 130.2 | 145.0 | 133.4 | 116.0 | 113.2 | 110.2 | 98.6 | 90.0 | 87.0 | 81. |
| Federal reserve ratio.. | 09.0 | 104. 1 | 98.9 | 90.0 | 00.1 | 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 | -89.9 | 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. | 109.1 |
| Pricen, rallroad atocks. | 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) | 108. 0 | 106.8 | 87.2 | 80.4 | 102.2 | 86.2 | 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



MID-YEAR STATISTICAL SUMMARY OF COMMERCE AND INDUSTRY: 1926-1930-Continued stocks of commodities


UNFILLED ORDERS FOR SPECIFIED COMMODITIES

| COMMODIT | Unit | JUNE 30- |  |  |  | Percentage change June 30, 1830 from 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 galvani | Short tons..........-. | 399,562 3 | 526,798 | 676,568 | 431,324 | -36.2 | 745, 393 | 592,094 | 443, 127 |
| Steel (U. S. Steel Corporation) | Number of long tons....-- | 3,053 400 | 3, ${ }^{637}$ | $\begin{array}{r}4,257 \\ \hline 52 \\ \hline\end{array}$ | 3,968 343 | -6.8 -37.9 | 3, ${ }^{273}$ | 3,977 | 4,417 |
| Oak flooring | M feet b. m- | 37,983 | 49,002 | 50, 832 |  |  | 27,887 | 30,956 | 45, 272 |
| Maple flocring | 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 | 10,448 |  |  | 850 | 1, 172 | 14, 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 +1865 | 12, 431 | 12, 671 | 34, 085 |
| ${ }_{\text {Ships }}$ Furniture | Thous. of gross tons | 219 53 | 264 46 | $\begin{array}{r}170 \\ 58 \\ \hline\end{array}$ | $\begin{array}{r}487 \\ 24 \\ \hline\end{array}$ | +186.5 +-58.6 | 204 29 | 94 39 | 372 32 |
| Boxboard | Short tons -..... | 94, 847 | 80, 834 | 73, 330 | 58, 866 | -19.7 | 74, 664 | 95, 329 | 58,612 |
| Tlluminating 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 ${ }^{1}$

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

|  | PRODUCTION |  |  |  |  | TRADE |  | WHOLESALE PRICES |  |  |  |  | RECEIPTS |  |  |  | BANKING AND FINANCE |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week ENDING SAT．${ }^{2}$ |  |  |  |  |  |  |  | 品量 | $\begin{gathered} \text { 思 } \\ \stackrel{y}{8} \\ \hline \end{gathered}$ | $\stackrel{\text { E }}{\stackrel{\rightharpoonup}{8}}$ |  |  | $\begin{aligned} & \text { 鬼 } \\ & \text { en } \end{aligned}$ | $\begin{aligned} & \text { E } \\ & \stackrel{5}{0} \\ & 0 \\ & \hline \end{aligned}$ | 要 |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May 41 | $\begin{aligned} & 132 . \\ & 127, \end{aligned}$ | 90.1 | 49. | 126.3 | 125．8 | 134.6 | 109.3 | 96.7 | 82.9 80.6 | 72.1 | 89.5 89.5 | 129.0 | 50．8 | 34.6 <br> 33.5 | 88． <br> 79.7 | 70.9 | 130． 1 |  | 290.9 | 192．9 | 257.6 | 105． 7 | 103.4 105.2 |
| 18 | 128.9 | 91.7 | 54. | 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 |  | 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. | 157．6 | 211.4 | 249.8 | 104.9 | 100.7 |
| June | 125 | 87. | 58 | 130 | 182.6 | 127.1 | 10 | 95.6 | 72 | 68 | 89.6 | 12 | 57.4 | 30.8 | 63.0 | 77 | 129.6 | 96.1 | 145． 5 | 205.7 | 241.8 | 104.3 | 91.9 |
| 8 | 125. | 95. | 59. | 130. | 117. | 132. | 110.1 | 95．8 | 76.0 | 69.9 | 89. | 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. | 96. | 59.6 | 131. | 149.1 | 127.9 | 111．6 | 96．6 | 79.1 | 69.5 | 89.5 | 129．0 | 70.3 | 31.2 | 68.7 | 87.2 | 130.9 | 97.0 | 187.9 | 188.6 | 253.4 | 104.5 | 104.7 |
| 22 | 126.3 | 94.4 | 58.4 | 132. | 127.4 | 142.6 | 111．6 | 97．6 | 79.1 | 68.0 |  | 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. | 129.0 | 94． 5 | 36． 5 | 72.5 | 81.7 | 133. | 97. | 212.1 | 217．1 | 268．2 | 104． 2 | 104． 4 |
| Ju | 12 |  |  |  |  |  | 95.0 |  |  |  |  | 129 | 14 | 28.8 | 53.2 |  | 135． 4 |  |  | 171.4 | 28 | 104． 2 | 83.0 |
| 13 | 122.4 | 98. | 53.9 | 138.8 | 145．9 | 121．6 | 111．2 | 98. | 90.7 | 67.6 | 88.7 | 129.0 | 207.5 | 33.5 | 75．3 | 84.3 | 135.3 |  | 209.1 | 171.4 | 284.5 | 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 | 68.8 | 88.6 | 129.0 | 374.9 | 23.1 | 83.2 | 75.7 | 135.8 | 96. | 206． 1 | 82.9 | 289.1 | 104． 1 | 98.3 |
| Aug． 3 | 12 | 95 | 54.7 | 139 | 19 | 13 | 115.2 | 98 | 101.5 | 69.5 | 88.6 | 12 |  | 23.1 | 78． 8 | 68.1 | 136.5 |  |  | 197.1 | 290.4 | 103.8 | 100.5 |
|  | 122.4 | 98. | 51.4 | 139.0 | 111.4 | 144．3 | 113.8 | 97．6 | 93.8 | 66.5 | 88.4 | 129. | 390. | 41．2 | 69.6 | 68.6 | 136 | 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 | 327.7 | 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 | 89.7 |
| Sept． 7 | 113. | 95. | 49.4 | 141.9 | 97.9 | 12 | 106. | 96.3 | 96.9 | 0. | 88.2 | 129 | 15 | 153.8 | 0 | 8 | 137.2 | 4 | 187．9 | 205.7 | 31 | 103.1 | 3.7 |
| 14 | 111. | 111.5 | 50.2 | 142.3 | 128.0 | 136.9 | 120.3 | 96. | 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 | 114.0 | 43. | 138.6 | 112. |  |  | 94.7 | 96.1 | ， | 87.8 | 129.0 |  | ． 8 | 115.2 | ， | 138 |  | 181.8 | 205.7 | 292.8 | 102.8 | 97.3 |
| 12 | 103. | 118.8 | 44.9 | 136.2 | 116.1 | 146. | 123. | 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. | 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. | 117.1 | 39.2 | 139.8 | 91.5 | 159.0 | 118.3 | 94.1 | 90.7 | 67.6 | 87.3 | 129.0 | 109.8 |  |  | 88.6 | 140.0 | 96.1 | 130.3 | 165.7 | 271.8 | 104.5 | 111.8 |
| Nov． 2 | 101 | 113 | 43. | 135 | 116 | 17 | 111 | 93. | 92.2 | 66. | 87.2 |  |  |  | 131.0 | 72.3 | 151.5 | 89.5 | 145． 5 | 142.9 | 224.3 | 103.9 | 101.7 |
| 9 | $96$ | 113. | 46. | 126．3 | 88.9 | 168 | 109． 5 | 93.3 | 91.5 | 64.7 | 87.2 | 129.0 |  | ， | 123.8 | 86.4 | 147.9 | 90.1 | 145.5 | 137.1 | 208.4 | 104． 1 | 98.8 |
| 16 | 93. | 108． 2 | 39.2 | 125.8 | 67.0 | 144.0 | 102.6 | 92. | 87．6 | 64.3 | 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 | 93.8 | 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. | 120. | 35. | 126. | 135.3 | 127.0 | 97.7 | 92 | 96. | 64. | 86 | 129 |  |  | 93.7 | 118.6 | 140.3 | 3 | 109.1 | 108.6 |  | 105.4 | 111.8 |
| 14 | 84 | 119.0 | 32.7 | 125. | 69.6 | 125．9 | 96.3 | 92. | 93.0 | 63． 6 | 86.8 | 129.0 | 88.2 | 18 | 88.6 | 111.4 | 139.0 | 92.4 | 109.1 | 114 | 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 | 29.4 | 125． 2 | 61.1 | 112.3 | 66．6 | 93.1 | 94.6 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jain． 4 | 77 | 103. | 30. | 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. | 145.5 | 114.3 | 211.3 | 104． 8 | 123．1 |
| 11 | 86 | 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 | 94. | 112.1 | 111.4 | 212.3 | 105． 2 | 179.9 |
| 18 | 90. | 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 | 97. | 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 | 63.6 | 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. | 119. | 26. | 124. |  |  |  | 93. | 88.4 | 60.3 | 85． 1 |  | 42.7 | 64.6 |  | 125． 1 |  |  | 109.1 | 114.3 | 222.7 |  | 133.9 |
| 8 | 105. | 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. | 100 | 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. | 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. | 109.1 | 111.4 | 229.4 | 104.8 | 143.7 |
| Mar． 1 | 103. | 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. | 101.7 | 106.1 | 111.4 | 228.7 | 0 | 129.2 |
| 8 | 100.0 | 87.9 | 26． 5 | 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. | 103.0 | 97.0 | 102.9 | 232.9 | 105． 2 | 129.5 |
| 15 | 97.4 | 82.9 | 27.3 | 124.0 | 109． 2 | 116.2 | 91.9 | 90.9 | 77.5 | 54． 0 | 84.4 | 129.0 | 51.3 | 48.8 | 77.8 | 81． 2 | 133.7 | 104． 3 | 93.9 | 100.0 | 233.1 | 105.9 | 137.6 |
| 22 | 96． | 80.4 | 29.0 | 121． 7 | 141．2 | 129．0 | 91.3 | 90.7 | 76．0 | 58.5 | 84.3 | 129.0 | 40．1 | 48.8 | 68.0 | 63.2 | 134.8 | 106． 4 | 72.7 | 94.3 | 236.5 | 107.0 | 137.1 |
| 29 | 100．0 | 91.4 | 27.3 | 120.7 | 112.8 | 117．1 | 92． 3 | 90.4 | 77.5 | 58.8 | 84.2 | 129.0 | 32.7 | 43.5 | 70.9 | 80.7 | 135.1 | 105．5 | 93.9 | 97． 1 | 241.0 | 106.9 | 131.0 |
| Apr． 5 | 980 | 84. | 31. | 121． 5 | 105． 7 | 140.9 | 94.7 | 90.8 | 79.1 | 61.0 | 83.5 | 129.0 | 38．7 | 39.2 | 74.4 | 75． 7 | 135.3 | 103.0 | 97.0 | 97.1 | 245.1 | 106． 5 | 123.6 |
| 12 | 100. | 84.7 | 29. | 122.9 | 118． 1 | 121．2 | 95.0 | 91.3 | 82.9 | 61.0 | 83.4 | 129.0 | 32.7 | 43.8 | 73． 1. | 76.4 | 134.7 | 105． 2 | 97.0 | 102．9 | 248.8 | 106． 4 | 121.4 |
| 19 | 102． 6 | 83.1 | 27.8 | 122.9 | 104． 0 | 129.6 | 93． 1 | 90.7 | 78． 3 | 59.6 | 83.2 | 100.0 | 29.4 | 33.8 | 66.8 | 76.3 | 134.8 | 103.7 | 97.0 | 102.9 | 249.0 | 106． 1 | 120.6 |
| 26 | 102．6 | 84.0 | 27.8 | 124.3 | 121． 7 | 116． 1 | 94.6 | 90.2 | 76.0 | 59.9 | 83.1 | 100.0 | 51.3 | 36.2 | 74.7 | 73.5 | 135． 7 | 105． 5 | 97.0 | 100.0 | 244.5 | 105.9 | 134.4 |
| May 3 | 101.3 | 85.5 | 25.7 | 124.6 | 131． 0 | 120.4 | 98.3 | 89.7 | 75.2 | 61.0 | 82.8 | 94.9 | 47.0 | 36.9 | 78.2 | 74.7 | 135. | 106. | 92.1 | 97.1 | 233.0 | 106.0 | 116.0 |
| 10 | 100 | 85.0 | 24.9 | 124.6 | 117.2 | 136.3 | 97.4 | 89.0 | 74.4 | 61.0 | 82.0 | 89.9 | 38.4 | 32． 3 | 71.8 | 78.0 | 134.8 | 107.1 | 76．6 | 91.4 | 228.6 | 106． 1 | 129.0 |
| 17 | 98. | 83.8 | 24.5 | 125． 2 | 124． 1. | 120.4 | 97.0 | 88.7 | 76.0 | 60.7 | 81.7 | 92.0 | 38.5 | 49.6 | 71.2 | 76．0 | 134.5 | 107.9 | 72.7 | 89.1 | 234.9 | 106.3 | 127.0 |
| 24 | 97.4 | 84.9 | 23.3 | 123.9 | 86.5 | 121.6 | 97.2 | 88． 4 | 77．4 | 60.3 | 81.1 | 92.8 | 59.3 | 48.8 | 70.9 | 76.0 | 134.5 | 107.7 | 72.7 | 88.6 | 231． 7 | 106． 3 | 117.9 |
| 31 | 93.4 | 77.9 | 24.9 | 125.3 | 107.9 | 113.1 | 89.7 | 87.8 | 79.8 | 59.9 | 81.1 | 92.8 | 48.3 | 40.8 | 71.5 | 78.1 | 134． 7 | 107.0 | 72.7 | 88.6 | 234.1 | 106． 4 | 102.2 |
| June 7 | 93. | 83.6 | 25.3 | 124.2 | 134.4 | 107.9 | 97.6 | 87.6 | 78． 3 | 58.5 | 81.3 | 91.3 | 57.2 | 29.6 | 83.2 | 87.8 | 136.3 | 106． 1 | 72.7 | 85.7 | 230.0 | 106.4 | 119.2 |
| 14 | 89.5 | 81.9 | 25.3 | 123.5 | 97．6 | 114.9 | 90.6 | 87.0 | 76.0 | 53.3 | 81.0 | 84.8 | 46.3 | 35.4 | 75．6 | 72.4 | 135． 8 | 107.1 | 68．6 | 85.7 | 216.1 | 106． 4 | 120.1 |
| 21 | 86.8 | 82.1 | 27.8 | 124.8 | 141． 2 | 134．9 | 96.0 | 86． 2 | 69.8 | 51.8 | 81.0 | 85.5 | 57.4 | 27.3 | 67.7 | 80.6 | 137.0 | 107.5 | 60.6 | 81.8 | 197． 7 | 106． 4 | 119.7 |
| 28 | 84.2 | 82.0 | 24.5 | 125.3 | 204． 4 | 127.5 | 97.7 | 85.7 | 65.1 | 50.0 | 80.8 | 84.1 | 62.2 | 18.8 | 52． 2 | 80.3 | 136.5 | 108.0 | 54.5 | 74.3 | 192.2 | 106． 1 | 120.4 |
| July 5 | 63.2 | 67.2 | 18.8 | 124.0 | 37．3． | 150.3 | 82.6 | 85．61 | 63.6 | 50.0 | 80.5 | 81.9 | 73.6 | 6.5 | 49.7 | 56.1 | 135.7 | 104． 1 | 57.6 | 68.6 | 197.3 | 106.2 | 106.9 |
| July 12 | 75．0 | 80.7 | 21.2 | 121.5 | 62.2 | 105． 2 | 95． 5 | 84.5 | 62.8 | 48．2 | 80.5 | 81． 2 | 230.3 | 6． 2 | 71.2 | 76．9 | 135． 0 | 105.4 | 62.5 | 70.4 | 196． 6 | 106． 5 | 105.2 |
| 19 | 76．3 | 81.3 | 20.4 | 120.0 | 90.7 | 122． 1 | 96.8 | 83.4 | 61.2 | 49.3 | 80.1 | 78．3 | 296.7 | 7． 7 | 84.8 | 74.4 | 135.3 | 105． 8 | 54.5 | 79.1 | 207． 4 | 106． 7 | 111． 1 |
| 26 | 76.3 | 82.9 | 18.4 | 119.5 | 84.9 | 110.7 |  | 83.3 | 62.8 | 47.1 | 80.0 | 78.3 | 406．0） | 7.3 | 68.8 | 65.2 | 134.8 | 107.4 | 48.5 | 80.0 | 207.1 | 106.9 | 125.3 |

1 Sources of data are as follows：Bituminous coal and beehive coke production from U．S．Department of Commerce，Bureau of Mines；Petroleum production（crude）， from American Petroleum Institute；Loadings of freight cars from American Railway，Association；Building contracts from F．W．Dodge Corporation；Receipts of wheat from Bradstreets；Receipts of cattle and hogs from 3 ．S．Department of Agriculture，Bureau of Agricultural Economics；Receipts of cotton from New Orleans Cotton Exchange；
Wholesale prices（Fisher＇s index），based on 1923－24 as 100 ，from Professor Irving Fisher；Price of cotton，middling，from New York Cotton Exchange；Price of iron and steel， composite，from Iron Trade Review；Price of Wheat，No．2，hard winter，Kansas City，U．S．Department of Agriculture，Bureau of Agricultural Economics；Loans and dis－ counts of member banks and debits to individual accounts from Federal Reserve Board；＇Call－money and Time－money rates，and Bond prices from Wall Street Journal；Stock prices from Annalist；Business failures from R．$G$ ．Dun \＆Co．
${ }^{2}$ The actual week for all items does not always end on the same day，

## INTERNAL REVENUE RECEIPTS FOR THE FISCAL YEAR $1930{ }^{1}$



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 Total, fiscal year 1929 | $\begin{aligned} & 2,410,230,889.09 \\ & 2,331,274,428.64 \end{aligned}$ | $\begin{aligned} & 628,268,040.52 \\ & 607,779,946.79 \end{aligned}$ | $\begin{aligned} & 3,038,498,929.61 \\ & 2,939,054,375.43 \end{aligned}$ |
| Increase, 1930 | 78, 956, 460. 45 | 20, 488, 093. 73 | 99, 444, 554. 18 |

${ }^{1}$ 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.
${ }_{2}$ 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 Ecenomics, quiferrous metals from the Enpineering and Mining Journal-Press, except tin, which is from the American Metal Market. All other prices are from U. S. Department of Labor, Bureau of Labor Statistics. So far as possible all quotations represent prices to producer or at mill

| COMmOdities | Unit | actual price (dollars) |  |  | relative price |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1926 average $=100$ |  |  |  |  |
|  |  | $\underset{1930}{\text { May, }}$ | June, 1930 | June, 1929 | $\underset{1930}{\substack{\text { April, } \\ \hline}}$ | $\begin{gathered} \text { May, } \\ 1930 \end{gathered}$ | $\underset{\substack{\text { June, } \\ \text { 1930 }}}{ }$ | $\underset{1929}{\mathrm{May}^{\prime}}$ | $\begin{gathered} \text { June, } \\ 1929 \end{gathered}$ |
| FARM PRODUCTS-AVERAGE PRICE TO PRODUCER |  |  |  |  |  |  |  |  |  |
| Wheat. | Bushol-....- | 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 97 | 81 | 80 | 32 | 34 |
| Cotton Cotanseg | Pound......- | ${ }_{30.61}$ | ${ }_{29 .} .140$ | ${ }_{35.83}{ }^{\text {P }}$ | $\begin{array}{r}97 \\ 109 \\ \hline\end{array}$ | $\begin{array}{r}96 \\ 113 \\ \hline\end{array}$ | $\begin{array}{r}93 \\ 109 \\ \hline\end{array}$ | 119 139 | 119 132 |
| 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 |
| FARM PRODUCTS-MARKET PRICE |  |  |  |  |  |  |  |  |  |
|  | Bushel--. | 1.07 | 1.00 | 1. 15 | 70 | 68 | 63 | 70 | 73 |
| Wheat, No. 2, red, winter (St. Louis) .ity................................. | Bushel.....-- | 1. 14 | 1.05 | 1.21 | 76 | 74 | 68 | 76 | 78 |
| Wheat, No. 2, hard, winter (Kansas City)............................... | Bushel....... | . 99 | . 89 | 1. 05 | 68 109 | ${ }^{66}$ | -60 | 68 | 71 |
|  | Bushel.....- | . 79 | . 78 | .91 | 109 105 | 105 | 105 93 | 116 | 121 |
| Oats, No. 3, white (Cbicago) | Bushel....... | . 51 | . 38 | . 45 | $\begin{array}{r}105 \\ 88 \\ \hline\end{array}$ | ${ }_{86}^{100}$ | ${ }_{7}^{93}$ | 110 | 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, $3 / 4$ blood combing, Ohio and Pennsylvania fleeces (Boston).... | Pound-...... | . 29 | . 31 | . 42 | 67 | 63 | 67 | 94 | 91 |
|  | 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 9.044 | 3.450 9.725 | 5.313 12.750 | 78 65 | 73 66 | ${ }_{71}^{52}$ | 90 93 | 81 93 |
| FOOD |  |  |  |  |  |  |  |  |  |
| Flour, standard patents (Minneapolis) | Barrel. | 5. 969 | 5.825 | 6. 375 | 72 | 71 | 69 | 73 | 76 |
| Flour, winter straights (Kansas City) | Barrel....... | 5. 270 | 4.894 | 5. 260 | 75 | 73 | 69 | 72 | 73 |
|  | Pound | . 032 | . 032 | . 035 | 80 | 74 | 84 | 82 | 81 |
|  | Pound...... | . 0488 | . 045 | .049 .096 | 88 74 | 87 74 | 83 70 | 89 | 89 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 (Cbicago).- | Pound-..... | . 228 | . 233 | . 254 | 74 | 74 | 76 | 81 | 82 |
| Butter, creamery, 92 score (New York) | Pound.--.-- | . 35 | . 33 | . 44 | 87 | 103 | 73 100 | 98 | 98 103 |
| TEXTILES |  |  |  |  |  |  |  |  |  |
| Cotton yarns, carded, white, northern, mule spun, 22-1-cones (Boston). | Pound.-..-- | . 290 | . 273 | . 348 | 84 | 81 | 76 | 99 | 97 |
| Cotton-print cloth $64 \times 60-3833^{\prime \prime}-5.35$-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. 2205 | 1. 200 | 1.450 | 87 | 85 87 | 84 87 | ${ }_{94}^{105}$ | 101 |
| Women's dress goods, French, 39 inches, at mills, serge | Yard......... | . 900 | . 900 | - ${ }^{.975}$ | 88 | 88 | 87 88 | 94 100 | 194 |
| Suitings, unfinished worsted-13-ounce, mill | Yard | 1.756 1.843 | 1.756 | 2. 1 1.959 | 85 | 85 | 85 | 90 | 90 |
| Silk, Japan, 13-15............... | Pound. | 3.940 | 3. 251 | 4.925 |  | 64 | 53 | 77 | 80 |
| Hosiery, women's pure silk, mill............................ | Dozen pair-- | 8.500 | 8.000 | 9. 250 | 73 | 73 | 69 | 82 | 80 |
| LEATHER |  |  |  |  |  |  |  |  |  |
| Hides, green salted, packers' heavy native steers (Chicugo) | Pound.-...- | . 143 | . 152 | . 168 | 100 | 102 | 108 | 106 | 119 |
| Hides, caliskins, No. 1, country, 8 to 15 pounds (Chicago) | Pound------ | . 169 | . 175 | - 188 | 91 107 | 97 105 | 101 | 1103 | 111 |
| Leather, sole, oak, scoured backs, heavy (Boston)---.-.) | Pound | 6. 750 | 6. 750 | 6. 850 | 106 | 106 | 106 | 106 | 106 |
| Boots and shoes, men's dress welt tan calf oxford (St. Louis)...........- | Pair | 4.850 | 4. 850 | 4. 850 | 100 | 100 | 100 | 100 | 100 |
| . FUEL |  |  |  |  |  |  |  |  |  |
| Coal, bituminous, mine-run (composite price) | Net ton....- | 3. 902 | 3.892 | 3. 905 | 90 | 90 | 90 | ${ }_{81}^{91}$ | 91 |
| Coal, bituminous, prepared sizes (composite price)-........--........ | Net ton-..-- | 4.085 | 4. 093 | 4. 177 | 85 | 85 | 85 | ${ }_{91}^{86}$ | ${ }_{92}$ |
|  | Long ton-..- | 12.441 | 12. 251 | 12. 2.628 2. 1. | ${ }_{6}^{94}$ | ${ }_{62}^{90}$ | 89 61 | ${ }_{68}^{91}$ | 68 |
| nellsville (range of prompt and future), furnsce-at ovens Petroleum, crude, Kansas-Oklahoma--at wells. | Barrel | 1.178 | 1. 178 | 1. 300 | 62 | 63 | 63 | 61 | 69 |
| METALS . |  |  |  |  |  |  |  |  |  |
| Pig iron, foundry No. 2, northern (Pittsburgh). | Long ton-..- | 20.260 | 20. 260 | 20. 260 | 98 | 98 | 98 | 98 | 98 |
| Pig iron, besic, 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 | ${ }_{93}^{93}$ | 89 | 103 | 101 |
| Copper ingots, electrolytic, early delivery (New York) | Pound....-- | . 1276 | . 1205 | . 1778 | 113 | 93 | 87 | 129 | 129 |
|  | Pound...--. | . 198 | . 192 | . 233 | 115 | 104 | 101 | 122 | 122 |
| Lead, pig, desilverized, for early delivery (New York) | Pound.-...-- | . 05213 | .0541 .3030 | . 0669 | 65 55 | 66 49 | 64 46 | 83 67 | 80 68 |
| Zinc, slab, western (St. Louis) | Pound --.----- | . 0464 | . 0444 | . 0669 | 66 | 63 | 61 | 90 | 91 |
| BUILDING MATERIAL AND MISCELLANEOUS |  |  |  |  |  |  |  |  |  |
|  | M feet-..--- | 36. 530 | 33.060 | 37.040 | 81 | 81 | 73 | 82 70 | 82 |
| Brick, common red, domestic building (New York) ---.-.-.-.-.-- | Thousand.-- | 10. 500 | 10.000 | 11. 000 | 68 | 64 | 61 | 70 | 67 |
| district) $\qquad$ | Barrel.-.-.--- | 1. 608 | 1. 600 | 1. 617 | 93 | 93 | 82 | 95 | 95 |
| Steel beams, mill (Pittsburgh) | Cwt | 1. 800 | 1. 700 | 1. 950 | 92 | 92 | 87 | 100 | 100 |
| Rubber, smoked sheets (New York). | Pound....... | . 14.42 | ${ }_{15} .124$ | ${ }_{15}{ }^{206}$ | ${ }_{107}^{31}$ | 29 107 | $\begin{array}{r}26 \\ 107 \\ \hline\end{array}$ | 44 107 | $\stackrel{43}{107}$ |
| Sulphuric acid, $66^{\circ}$ (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 | 04 | 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 yeur 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 Digitized for FRA敗evious 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 pyroxylincoated 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 1923-1425, 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 ㄱ9영․ 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 Digitized for FRASerther the preceding month or the corresponding period http://fraser.stlouisfed.org/
Federal Reserve Bank of St. Louis
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, 1830, 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 consuniption 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 mailorder 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 | lncrease 1920-1930 ${ }^{\text {1 }}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 |
| Hawail. | 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 |

${ }^{1}$ 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 $116 \frac{1}{2}$ 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 Digitized for $F R$ anind ${ }^{R}$ 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, 083 | 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. | 1687,232 | 604, 397 | 82, 835 | 13.7 |
| Connecticut | ${ }^{1} 1,604,711$ | 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: |  |  |  |  |
| Indiana | $13,225,600$ | 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: |  |  |  |  |
| 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. | I, 879,946 | 1, 769, 257 | 110, 689 | 6.3 |
| South Atlantic: |  |  |  |  |
| Melaware | ${ }^{1} 1.629,381$ | 1, 449, 661 | 179,660 | 12.4 |
| District of Colum | 1, 486, 869 | 1, 437, 571 | 49, 298 | 11.3 |
| Virginia. | ${ }^{1} 2,419,471$ | 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 | ${ }^{1} 1,732,567$ | 1, 683, 724 | 48, 843 | 2.9 |
| Georgia | ${ }^{1} 2,902,443$ | 2, 895, 832 | 6,611 | 0.2 |
| Florida | ${ }^{1} 1,466,625$ | 968, 470 | 498, 155 | 51.4 |
| East South Central:----------1 |  |  |  |  |
| Kentucky - | 2, 623, 668 | 2, 416, 630 | 207,038 | 8.6 11.6 |
| Tennessee. | 2, 608, 759 | 2, 337, 885 | 270, 874 | 11.6 |
| Alabama | 2, 645, 297 | 2, 348, 174 | 297, 123 | 12.7 |
|  | $12,007,979$ | 1,790,618 | 217,361 | 12.1 |
| West South Central: |  |  |  |  |
| 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 |
|  |  |  |  |  |
| Montana | 536, 332 | 548, 889 | ${ }^{2} 12,557$ | 2 2.3 3.2 |
| Idaho--.- | 445, 837 | 431, 866 | 13, 971 | 3.2 |
| W yoming | 224,597 $1,035,043$ | 194, 402 | 30,195 95,414 | 15.5 10.2 |
| Colorado... | $1,035,043$ 427,216 | 939,629 360,350 | 95,414 66,866 | 18. 6 |
| New Mexico | 435, 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 |

## 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]

| $\begin{gathered} \circ \\ \vdots \\ \text { 品 } \end{gathered}$ | Commodity Groups | Number of cars |  |  | Number of cars |  |  | Number of cars |  | Per cent inc. or dee. (-) | Number of cars |  | $\begin{gathered} \text { Per } \\ \text { cent } \\ \text { Inc. } \\ \text { (Her fee. } \\ (-) \\ (-) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\underset{\substack{\text { Agtual }}}{\text { Actas }}$ | $\begin{gathered} \text { Estl- } \\ \text { mated } \\ \text { 19300 } \end{gathered}$ |  | $\underset{1929}{ }$ | $\begin{gathered} \text { Esti- } \\ \text { matd } \\ 1930 \end{gathered}$ |  | $\underset{\text { 1929 }}{\text { Actual }}$ | $\underset{\substack{\text { Esti- } \\ \text { mated } \\ \text { 1930 }}}{\substack{\text { at }}}$ |  | $\left\lvert\, \begin{gathered} \text { Aetual } \\ \text { L929 } \end{gathered}\right.$ | $\begin{gathered} \text { Esti- } \\ \text { mated } \\ \text { 1930 } \end{gathered}$ |  |
|  |  | ALL DISTRICTS |  |  | District No. 12 |  |  | District No. ${ }^{8}$ |  |  | District No. 9ALLEGHENY |  |  |
| 1 | Grain, all | $\begin{gathered} 525,760 \\ 244,274 \\ 72,407 \\ 73,667 \\ 37,374 \\ 37 \end{gathered}$ |  | $\begin{array}{l\|} +0.9 \\ \mathbf{H}_{-3.9}^{+0.6} \\ -1.7 \\ -1.7 \end{array}$ | $\begin{aligned} & 250 \\ & 7,238 \\ & \substack{2304 \\ 1,3000} \end{aligned}$ | $\begin{array}{r} 250 \\ 7,233 \\ 1,204 \\ 1,300 \end{array}$ |  | $\begin{gathered} 8,762 \\ 13,186 \\ 6,471 \end{gathered}$ | $\begin{array}{r} 9,470 \\ 14,750 \\ 6,225 \end{array}$ | $\begin{array}{r} +22.0 \\ +12 . \\ +3.8 \end{array}$ | $\begin{gathered} 630 \\ \hline \\ \hline \end{gathered}, 6371$ | 6621,801469 | $\begin{array}{r} +5.1 \\ +10 \\ +10.0 \end{array}$ |
| ${ }_{3}^{2}$ | Flour, meal, and other |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Cotton--ed and products, except oil |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Citrus fru | $\begin{gathered} 20,947 \\ 137,471 \\ \hline 66,781 \\ 75.751 \\ 333,226 \end{gathered}$ | $\begin{gathered} 13,026 \\ 151,96 \\ 73,601 \\ 79.430 \\ 323,073 \\ 34 \end{gathered}$ | $\begin{gathered} -37.8 \\ +10.5 \\ +10.2 \\ +4.9 \\ -4.9 \end{gathered}$ | $\begin{aligned} & 2,344 \\ & \begin{array}{l} 2,045 \\ 18,565 \\ 1,574 \\ 1,474 \end{array} \end{aligned}$ |  |  |  |  | $\begin{aligned} & +20.0 \\ & +30 \\ & +10.0 \end{aligned}$ |  |  |  |
| 7 | Other fresh fruits |  |  |  |  |  |  | $\begin{aligned} & -14,436 \\ & \hline 22,885 \\ & 12,162 \end{aligned}$ |  |  |  |  | -10.0-4.5 |
| 9 | Potatoes ${ }^{\text {Other }}$ - |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Livestock |  |  |  |  |  | -10.0 |  |  |  |  | 1,813 |  |
|  | Poultry and dairy products |  |  |  | $\begin{aligned} & 23,77 \\ & 23,760 \\ & 21,450 \\ & 40 \\ & 40 \end{aligned}$ | $\begin{array}{rr\|r\|} \hline 79 \\ 20,858 \\ 390 & +20.6 \\ \hline-10.0 \end{array}$ |  | $\begin{gathered} 1,382! \\ 324,982 \\ \hline 29,958 \\ \hline \end{gathered}$ | $\begin{array}{r} 1,382 \\ 320,43 \\ 25,465 \end{array}$ | $\begin{gathered} -1.4 \\ -15.0 \end{gathered}$ | 608,788 | 594,786 | $-2.3$ |
| ${ }_{13}^{12}$ | Coal and coke--1-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | Gravel, sand, and stone |  |  |  |  |  | 114, 358 | 115, 501 | $+1.0$ | 71,47 | 72,6 | 1.7 |  |
| 15 | Salt. |  |  |  |  |  | 9,822 | 8,840 |  |  |  |  |  |
|  | Lumber and forest products. | $\begin{array}{r} 1, \left.\begin{array}{r} 155,503 \\ \hline 9,535 \end{array} \right\rvert\, \end{array}$ | 805,071 | $\begin{array}{r} -13.5 \\ +1.7 \\ +6.8 \\ +6 \end{array}$ |  |  | ${ }_{30}^{26,093}$ | -15.0 <br> +14.0 | $\begin{aligned} & 31,044 \\ & 75,294 \\ & 7,280 \end{aligned}$ | 31,04488,26812 | +8.0 |  | 18,45932,020 | -7.5+9.5 |
| 17 | Petroleum and petroleum products | 659, 866 | 670, 788 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Sugar, sirup, and molas |  | 61,175085015016 |  |  |  | ${ }_{-10.0}^{+10.0}$ | -12,811 |  | -20. ${ }^{\text {c }}$ | 256,709 | $\begin{gathered} -237,456 \\ 5,727 \\ 5,7 \end{gathered}$ | --7.5 |  |
| 20 | Machinery and boilers. |  |  | - $\begin{gathered}\text { +1.8.8 } \\ -11.9 \\ -1.8\end{gathered}$ |  | 2,348 $\substack{7,724 \\ 5,505}$ |  | 14,949 |  |  |  |  |  |  |
|  | Cerment | $\begin{array}{r}261,2080 \\ \hline 183 \\ \hline 65,373\end{array}$ |  | +2.3-15.6 |  | 5,720  <br> 2,888 -5.0 <br> 25.0  |  |  | $\begin{aligned} & 68,298 \\ & 10,334 \end{aligned}$ |  | 12,852 | -16, ${ }_{43,932}$ | ${ }_{-9.3}^{+28.8}$ |  |
| ${ }_{23}^{22}$ | Brick and clay pro |  |  |  |  |  |  | -23.0 |  | 48, 48 |  |  |  |  |
| ${ }_{24}^{23}$ | Lime and plaster--..-T |  |  | -5.8 <br> -10.3 | 3,691 | 3, $691 . \ldots-{ }^{1}+\ldots$ |  |  |  | 11,601 -8.0 |  | ${ }_{41}$ | 5,077 | +7.6 |
|  | automobiles...- | $30,538$ | 61,566 <br> 27,394 |  |  |  |  |  |  |  |  | 47 | +14.6 |  |
| $\frac{27}{27}$ | Automobiles, trucks, | $\begin{aligned} & 250,490 \\ & 72,49 \\ & 98,90 \\ & 98192 \\ & 31,62 \\ & 57,789 \end{aligned}$ |  | $\begin{aligned} & -25.3 \\ & -1.0 \\ & -1.9 \\ & -4.9 \\ & -4.2 \\ & -4.2 \end{aligned}$ | $\begin{array}{r} 1,908 \\ 1,7,62 \\ 19,691 \\ 1,635 \end{array}$ | $\begin{array}{r} 1,622 \\ 17,782 \\ 17,430 \\ 1,55 \\ 1,554 \end{array}$ | $\begin{array}{r} -15.0 \\ \hdashline-11.5 \\ -3.5 \\ -5.0 \\ -5.0 \end{array}$ | $\begin{aligned} & 8,250 \\ & 12,43 \\ & 21,737 \\ & 9,353 \\ & 15,175 \end{aligned}$ | $\begin{array}{r} 5,940 \\ 12,83 \\ 23,2581 \\ 8,881 \\ 13,880 \end{array}$ |  |  |  | $\begin{array}{r}3,751 \\ 4,139 \\ 7,69 \\ 1,252 \\ \hline\end{array}$ | $\begin{array}{r} -109 \\ -4.9 \\ -+2.6 \end{array}$ |
|  | Fertilizers, an kincs |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Paper, paper board, and prepared |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Canned goods ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |  |

PROSPECTIVE CAR LOADINGS, THIRD QUARTER OF 1930-Continued
COMPARED WITH ACTUAL LOADINGS, SAME QUARTER OF 1929-Continued
[As reported by commodity committees, regional shippers' advisory boards, and compiled by American Railway Association]

|  | Commodity Groups | Number ofcars |  | Percentinc.ordordec.$(-)$ | $\begin{aligned} & \text { Number of cars } \\ & \text { cars } \end{aligned}$ |  | $\begin{gathered} \text { Per } \\ \text { cent } \\ \text { inc. } \\ \text { ordee. } \\ (-) \\ (-) \end{gathered}$ | $\begin{aligned} & \text { Number of } \\ & \text { cars. } \end{aligned}$ |  | Percenting.( + .oree.$(-)$ | $\begin{aligned} & \text { Number of } \\ & \text { cars } \end{aligned}$ |  | $\begin{gathered} \text { Per } \\ \text { cent } \\ \text { inc. } \\ \text { ordec. } \\ (-) \end{gathered}$ | $\begin{gathered} \text { Number of } \\ \text { cars } \end{gathered}$ |  | $\begin{gathered} \text { Per } \\ \text { cent } \\ \text { inc. } \\ \text { (f) } \\ \text { ordec. } \\ (-) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\boldsymbol{A}_{1929}^{\text {Aetual }}$ | $\left\lvert\, \begin{gathered} \text { Esti- } \\ \text { mated } \\ 1930 \end{gathered}\right.$ |  | $\underset{1929}{\text { Aetual }}$ | $\left\|\begin{array}{c} \text { Esti- } \\ \text { mated } \\ \text { 1930 } \end{array}\right\|$ |  | Actual | $\underset{\substack{\text { Esti- } \\ \text { cased } \\ 1930}}{ }$ |  | $\int_{\text {ingal }}^{\text {Aetual }}$ |  |  | $\underset{1929}{\text { Actua }}$ | $\begin{gathered} \text { Esti- } \\ \text { mate } \\ \text { 1930 } \end{gathered}$ |  |
|  |  | District No. 2 GREAT LAKES |  |  | District No. ${ }^{6}$ SOUTHEAST |  |  | District No. 4OHIO VALEEY |  |  | District No. ${ }^{\text {d }}$ |  |  | District No. ${ }^{3}$ NORTHWEST |  |  |
|  | Grain, | $\begin{gathered} 22,692 \\ 42,382 \\ 7,585 \end{gathered}$ | $\begin{gathered} 17,000 \\ 45,722 \\ 6,825 \\ 6,82 \end{gathered}$ | $\left\lvert\, \begin{array}{r} -25.1 \\ -+8 \\ -10.0 \end{array}\right.$ | $\begin{array}{r} 7,890 \\ 18,072 \\ 2,180 \\ 40,435 \\ \hline 0,45 \end{array}$ | $\begin{aligned} & 7,890 \\ & 18,072 \\ & 34,289 \\ & 34,370 \end{aligned}$ | $\begin{array}{r} +5.0 \\ -15.0 \end{array}$ | $\begin{gathered} 10,544 \\ 10,114 \\ 4,324 \\ 408 \\ \hline 073 \end{gathered}$ | $\begin{gathered} 16,799 \\ 7,384 \\ 4,384 \\ 408 \\ \hline 108 \end{gathered}$ | ${ }_{-27.0}^{+1.0}$ | $\left\|\begin{array}{l} 110,012 \\ 32,070 \\ 14,767 \end{array}\right\|$ | $\left\lvert\, \begin{aligned} & 104,500 \\ & 32,070 \\ & 13,000 \end{aligned}\right.$ | $-5.0$ |  | $\begin{gathered} 110,400 \\ 32,000 \\ 2,500 \end{gathered}$ | $\begin{array}{r} +23.4 \\ +7.9 \\ -5.2 \end{array}$ |
|  | Flour, meal, and other |  |  |  |  |  |  |  |  |  |  |  | -12.0 |  |  |  |
| 4 | Cotton- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Cottonseed and produ |  |  |  |  | 18,232 |  |  |  |  |  |  |  |  |  |  |
| 6 | Citrus fruits ---.............------------------ | $\begin{aligned} & 1,720 \\ & 591 \\ & 2,006 \\ & 8,688 \end{aligned}$ | $\begin{aligned} & 1,400 \\ & 1,200 \\ & 1,850 \\ & 8,800 \end{aligned}$ |  | 27, 5928 | $\begin{array}{r} 125 \\ 30,468 \\ 3,204 \\ 4,2139 \\ 11_{1}, 720 \end{array}$ | $\begin{aligned} & -95.8 \\ & \begin{array}{l} -10.0 \\ +10.0 \end{array} \end{aligned}$ |  | $\begin{aligned} & 3,1103 \\ & 1,{ }_{2}^{244} \\ & 773 \end{aligned}$ |  |  |  |  |  |  |  |
| 7 |  |  |  | -18. |  |  |  |  |  |  | $\begin{array}{r} 9,187 \\ 3,488 \\ 3,881 \\ 0_{2}, 88 \end{array}$ | $\left\lvert\, \begin{gathered} 3,881 \\ 2,800 \\ 5,869 \end{gathered}\right.$ | $\begin{aligned} & -57.8 \\ & -15.1 \\ & -51.2 \end{aligned}$ | $\begin{array}{r} 307 \\ 6,346 \\ 727 \end{array}$ | - 3074,500727 | - |
| ${ }_{9}$ | Potates |  |  | +13.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Livestock |  |  | $-7.9$ |  |  |  |  | 12,983 | $-20.0$ |  | 90, 400 | ${ }_{-3.0}$ | 42,028 | 42,028 |  |
| 11 | Poultry |  | - -300 |  | , 127 | 12,206  <br> 86,910 +7.0 <br> 8.0  |  |  | ${ }^{1,410}$ |  |  | $\left\{\begin{array}{l} 15,400 \\ 45,000 \\ 100 \\ 1000 \end{array}\right.$ | +3.2 $\begin{aligned} & +3.0 \\ & -3.2\end{aligned}$ |  |  | +2.0-10.0-17.3 |
| $\begin{aligned} & 12 \\ & 13 \end{aligned}$ | Coal | 15,093 | 15,300 | ${ }_{-9}^{+1.4}$ | 10,247 |  |  | -10.0 |  |  |  |  |  |  |  |  |
|  | Ore and concentr | 137, 021 | 102800 | ${ }_{-25}^{-25}$ | $\left\lvert\, \begin{aligned} & 103,404 \\ & 10,404 \\ & 1601 \end{aligned}\right.$ |  | + |  | $\begin{array}{r} 1,61,76 \\ 73,776 \end{array}$ | +2.0 |  |  | - 15.0 | ${ }_{25,896}^{47}$ |  |  |
| 15 |  | 10, 273 | 10,000 |  |  |  |  |  |  |  | $\int_{385}^{2020,185}$ | $\left.\right\|_{187,150} ^{180}$ |  |  |  |  |
| 16 | Lumber and forest products <br> Petroleum and petroleum products Sugar, sirup, and molasses ron and steel | $\begin{array}{r} 10,907 \\ 25,217 \\ 1,412 \\ 6,149 \\ 9,362 \end{array}$ | 25, 200 |  | $\begin{aligned} & 300,879 \\ & 55,192 \\ & 9,922 \\ & 31,033 \end{aligned}$ |  | -14.2+5.0 |  |  |  | -32.0+9.0 |  | $\begin{aligned} & 59,440 \\ & 5,{ }^{5}, 170 \\ & \hline 6,960 \\ & 6,965 \\ & 10,160 \end{aligned}$ | -22.5 | $\begin{array}{\|l} \begin{array}{l} 22,487 \\ 4,727 \\ 4,993 \\ 3,238 \\ 1,198 \end{array} \\ 1,18 \end{array}$ | $\begin{aligned} & 19,500 \\ & 4,903 \\ & 4,933 \\ & 3,900 \\ & 1,100 \\ & 1,079 \end{aligned}$ |  |
| 17 |  |  |  |  | -6.0 |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  | -1,650 | +11.8 |  |  | -15.0 | $-25.0$ |  |  | -15.0 |  |  |  |  |  |
| 20 |  |  | 8,500 | -9.2 |  |  | 2,557 |  |  |  |  |  |  | -15.0 |  |  | -9.9 |
|  | Cement <br> Brick and clay products <br> Lime and plaster <br> Agricultural implements and vehicles, other than automobiles | $\begin{aligned} & 19,415 \\ & 13,676 \\ & 17 \\ & 17,790 \end{aligned}$ | $\begin{aligned} & 19,600 \\ & 1,617 \\ & 18,600 \end{aligned}$ | $\begin{array}{r} +1.0 \\ -150 \\ +1.2 \end{array}$ | $\begin{gathered} 2,860 \\ 21,819 \\ 5,115 \end{gathered}$ | $\begin{gathered} 21,903 \\ 18,546 \\ 4,859 \end{gathered}$ | $\left\|\begin{array}{r} +5.0 \\ -1.0 .0 \\ -5.0 \end{array}\right\|$ |  | $\begin{gathered} 17,326 \\ 1,25 \\ 2,159 \\ 2,196 \end{gathered}$ | $-3.0$ | $\begin{aligned} & 42,155 \\ & 34,140 \\ & 34,140 \end{aligned}$ | ${ }_{29,530}^{41,565}$ | $\begin{gathered} -1.4 \\ -1.5 \\ -24.5 \end{gathered}$ |  | $\begin{array}{r} 7,710 \\ 2,162 \\ 590 \end{array}$ | ( ${ }_{-7.1}^{+1.3}$ |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  | 1,207 |  |  | 18,824 | 15,060 | -20.0 | 3,501 | 4,114 | +17.5 |
|  |  | 㐌, | $\begin{array}{r} 111,367 \\ 6,077 \\ 11,000 \end{array}$ | $\left\lvert\, \begin{aligned} & -27.3 \\ & { }_{-1.6}^{+5.0} \end{aligned}\right.$ | $\begin{array}{\|c} 8,645 \\ 26,45 \\ 6,686 \\ 3,669 \\ 2,509 \\ 2,509 \end{array}$ | $\begin{gathered} 9,077 \\ 26,457 \\ 2,956 \\ 3,969 \\ 3,754 \\ 2,754 \end{gathered}$ | +5.0 | $\begin{gathered} 12,146 \\ 7,826 \\ 8,762 \\ 8,620 \end{gathered}$ | $\begin{aligned} & 7,652 \\ & 7,435 \\ & 8,500 \\ & 820 \end{aligned}$ | - $\begin{aligned} & -37.0 \\ & -5.0 \\ & -3.0\end{aligned}$ | $\begin{gathered} 26,880 \\ 7,88 \\ 15,585 \\ 5,306 \end{gathered}$ | $\begin{aligned} & 23,000 \\ & 7,7208 \\ & 13,250 \end{aligned}$ | $\begin{aligned} & -14.4 \\ & -8.6 \\ & -15.0 \\ & -15.0 \end{aligned}$ | $\begin{aligned} & 3,108 \\ & 535 \\ & 3,078 \\ & \hline 131 \end{aligned}$ | $\begin{aligned} & 2,486 \\ & 535 \\ & 3,078 \\ & \hline 131 \end{aligned}$ | 0.0 |
| ${ }^{27}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  | +180 |  |  |  |  |  |  |  |  |  |
| 29 |  | 3,720 | 3,90 | +4.8 |  |  | +10.0 | 3,061 | 2,878 | - | 13,632 | 12,270 | -10.0 |  |  |  |
|  |  | 8837,752 ${ }_{723,036}$ |  | -13.7 | 853, 337 | 796, 588 | -6.7 | 980, 917 | 882, 450 | -10.0 | 1,508,012 | 1,360, |  | 768, 133 694, |  |  |
|  | Commodity Groups | District No. 5TRANS-MISSOURI-KANSAS |  |  | District No. 7 SOUTHWEST |  |  | $\begin{aligned} & \text { District No. 10 } \\ & \text { CENTREAL_WEST- } \\ & \text { ERN } \end{aligned}$ |  |  | District No. 11ACIFIC COAST |  |  | $\begin{gathered} \text { District No. } 14 \\ \text { PACIFIC NOBTTR- } \\ \text { WEST } \end{gathered}$ |  |  |
|  | S | $: \begin{aligned} & 106,727 \\ & 49,692 \\ & 11,946 \end{aligned}$ | $\begin{aligned} & 107,000 \\ & 49,064 \\ & 13,738 \end{aligned}$ | $\begin{array}{r} +0.3 \\ +0.5 \\ +15.0 \end{array}$ | $\begin{aligned} & 62,838 \\ & 19,798 \\ & 5,599 \\ & 31,389 \\ & 15,059 \end{aligned}$ | $\begin{aligned} & 53,403 \\ & 20,788 \\ & 5,59 \\ & 36,597 \end{aligned}$ | + | $\begin{array}{r} 7,546 \\ 12,078 \\ 1,315 \\ \hline, 315 \end{array}$ | $\begin{aligned} & 78,050 \\ & 12,512 \\ & 2,855 \end{aligned}$ | $\begin{array}{r} +2.0 \\ +3.6 \\ -13.9 \end{array}$ | $\begin{aligned} & 8,929 \\ & 7,740 \\ & 8,396 \\ & \hline, 36 \\ & \hline 190 \end{aligned}$ |  |  | 17,511 |  |  |
| 2 | Flour, meal |  |  |  |  |  |  |  |  |  |  | 8,883 |  | 5,917 4,062 | - $\begin{aligned} & \text { 6,050 } \\ & 3,270\end{aligned}$ | - ${ }_{-19.5}^{+2.2}$ |
|  | Hay, |  |  |  |  |  | +15.0 |  |  |  |  |  |  |  |  |  |
| 5 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Citrus fruit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Other fres |  |  |  | 8, 130 | 30 |  |  | 8,903 | $\square 38$. | 43,636 | 54, 430 | +24.7 | 14,4 | 6, 2 | +12.3 |
| 8 | Potatoes. |  | 4,639 |  |  |  |  |  | 11, | +0.8 |  | 2,800 |  |  |  | +33.6 |
| 10 | Other fresh | 59,100 | 58,000 | ${ }_{-1.9}^{-20.0}$ | 25, 5.54 | - ${ }_{24,878}$ | -5. | -9,687 |  | ${ }_{-1.1}^{+0.4}$ | 12,890 | 12, 246 | $\pm$ | $\xrightarrow{3,863}$ | -3,7259 | +6.1 |
|  | Poultry a |  | 6,870 | -0.1 |  |  |  |  | 3,290 | +3.0 |  | 631 | -0.9 |  |  |  |
| 12 | Coal and | 39,023 | 38,768 | -0.7 | 18,083 | 19,348 | +7.0 | 64, 375 | 58, 665 | -8.9 | 6,865 | 8,938 | -13.5 | 10, 540 | 10,025 |  |
| 12 | Ore and cone |  | 5, 827 | -28.0 | 2, 53 | 2,53 |  | 14, | 11,720 | -18.8 | 38,5 | 26, 130 |  |  | 4, 513 | . 5 |
| 14 | Gravel, sand |  | 91, 720 |  | 874 | 84, 917 |  | 31, 861 | 34, 800 |  |  |  |  |  |  |  |
| 5 |  |  | 7, 245 | -1.9 | , 972 | 6,210 |  |  |  |  |  |  |  |  |  |  |
|  | Lumber and forest produ |  | ${ }_{78}^{28,653}$ |  |  |  | -10.0 | 3, ${ }^{5} 923$ | ${ }^{5,725}$ | - | 70,336 | 68,015 | -3. | ${ }^{204,529}$ | ${ }^{51,620}$ | -11.2 |
| 17 | Petroleum and petroleun | 74,397 | 76,628 | ${ }^{+3.0}$ | 198, 971 | ${ }^{191,017}$ | -4.0 | 32, 274 | 31, 500 |  | ${ }^{43,915}$ | 45,496 | +3.6 | 18,343 | 20, 195 | +10.1 |
| 18 | ar, sirup | ${ }_{6}^{1,448}$ | ${ }_{5}^{1,862}$ | ${ }_{-7.6}^{-12.8}$ | ${ }_{5}^{5,811}$ | ${ }_{5,461}^{5,811}$ |  |  | $\substack{5,600 \\ 2 \\ \hline \\ 400}$ | -1.4 | ¢, | 13, $\begin{gathered}139 \\ 5\end{gathered}$ | ${ }_{-11.9}$ |  |  |  |
| 20 | Machinery and boilers. | 1,388 | ${ }^{5}{ }_{962}$ | -30.7 | ${ }^{1}, 355$ | 1,355 |  | 2, 30 | ${ }^{2}$, 270 | -16.7 |  |  |  | , 14 | ${ }^{1,091}$ | -8.9 |
|  | Cement |  | 30, 667 | +9.4 |  |  | +10.0 |  |  | +6.7 | 13, 556 | 10, 573 | $-22.0$ |  |  |  |
| ${ }_{23}^{22}$ | Brick and clay pro | 12,647 | 9, 076 4,371 | ${ }_{-4.0}^{-28.2}$ | $\begin{aligned} & 8,773 \\ & 4825 \end{aligned}$ | $7,896$ | -10.0 | $\begin{aligned} & 1,710 \\ & 296 \end{aligned}$ | 1,800 | +5.3 | 4,011 | 3, 345 | $-16.6$ | ${ }^{1,229}$ | 1, 184 | ${ }_{-32.6}^{+6.7}$ |
|  | Agricultural implements and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | other than automobiles.........-- |  |  |  | 40 | 406 |  |  | 930 | +17.1 |  |  |  |  |  | -14.8 |
| 25 | Automo | 23,334 | 15,980 | -31.5 | ${ }^{4}, 211$ | 2, 105 | -50.0 | 1,047 | 1,970 | +88.2 | 6,396 | 5,264 | -17.7 | 206 | 610 | -53.3 |
| ${ }_{27}^{26}$ | Fertilizers, al kinds -ap-a-- |  |  |  |  |  | 12.0 |  |  |  |  |  |  | 2,969 | 3,224 | +11.4 +8.6 |
| 28 | Chemicals and explosive |  |  |  |  |  |  |  |  |  | 2.632 | 2,503 |  | 317 | 370 | +16.7 |
|  | Canned goods |  |  |  | , 958 | 958 |  | 1,191 | 1,205 | +1.2 | 8,458 | 8,880 | +5.0 | 4,760 | 4,383 | -7.9 |
|  | Total, all commodi | 81, 270 | 562, 375 | $-3$ | 320, 526 | 010 | -3. | 348, 263 | 47, 259 | -0.3 | 401, 553 | 392, 507 | -2.3 | 16,614 | 44,889 | -6.9 |

1 Account quarantine regulations.
${ }_{2}$ All canned food products, including catsups, jams, jellies, olives, pickles, preserves, etc.

Table 1．－INDEX OF INDUSTRIAL PRODUCTION ${ }^{1}$
［Adjusted for seasonal variations，except where otherwise noted］

| Year and Month | TOTAL INDUS－ TRIAL |  | MANUFACTURES |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Minerals |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\left\lvert\, \begin{gathered} \text { Un- } \\ \text { ad } \\ \text { just- } \\ \text { ed } \end{gathered}\right. \text { Ad- } \begin{gathered} \text { ed } \\ \text { edt- } \end{gathered}$ |  | Total |  |  |  | Food products | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | 兑 <br> 首 <br>  |  |  |  |  |  |  |  |  | Total |  |  |  |  |  | $\begin{aligned} & \text { … } \\ & \stackrel{\theta}{\theta} \\ & \ddot{0} \end{aligned}$ | 边 | 茄 | 产 |
|  |  |  | $\left\lvert\, \begin{aligned} & \text { Un- } \\ & \text { ad- } \\ & \text { just- } \\ & \text { ed } \end{aligned}\right.$ | $\begin{gathered} \text { Ad- } \\ \text { just- } \\ \text { ed } \\ \hline \end{gathered}$ |  |  |  |  |  |  |  |  |  | $\left\lvert\, \begin{aligned} & \text { Un- } \\ & \text { ad- } \\ & \text { just- } \\ & \text { ed } \end{aligned}\right.$ |  |  |  | $\begin{array}{\|c\|} \text { Ad- } \\ \text { just- } \\ \text { ed } \end{array}$ |  |  |  |  |  |  |  |  |
|  | Relative to 1923－1925 average |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1919 monthly av－ |  | 89 |  | 84 | 82 | 92 | 94 | 76 | 79 | 50 | 104 | 54 | －－－ |  | 67 | 54 |  | 82 |  | 77 | 89 | 109 | 52 | 91 | 81 |  |  |  |
| 1920 monthly av－ |  | 87 |  | 87 | 99 | 84 | 84 | 87 | 79 | 58 | 97 | 67 |  | 78 | 64 |  | 87 |  | 89 | 109 | 110 | 61 | 113 | 85 | 87 |  |  |
| 1921 monthly av－ |  | 67 |  | 67 | 46 | 87 | 83 | 70 | 68 | 41 | 90 | 66 |  | 39 | 64 | 55 | 85 |  | 70 | 79 | 112 | 64 | 36 | 30 | 39 | 66 | 84 |
| 1922 monthly av． |  | 85 |  | 87 | 82 | 99 | 94 | 85 | 89 | 66 | 102 | 76 | －－－ | 69 | 74 | 77 | 89 |  | 74 | 78 | 65 | 75 | 82 | 62 | 68 | 77 | 87 |
| 1923 monthly av－ |  | 101 |  | 101 | 105 | 105 | 99 | 94 | 99 | 102 | 110 | 92 | 90 | 94 | 86 | 86 | 96 |  | 105 | 108 | 115 | 99 | 114 | 93 | 96 | 88 | 104. |
| 1924 monthly av－ |  | 95 |  | 94 | 89 | 91 | 103 | 99 | 96 | 91 | 94 | 100 | 92 | 99 | 99 | 98 | 99 |  | 96 | 93 | 109 | 97 | 82 | 100 | 97 | 102 | 100 |
| 1925 monthly av－ |  | 104 |  | 105 | 106 | 104 | 98 | 107 | 105 | 107 | 96 | 108 | 118 | 107 | 115 | 116 | 105 |  | 99 | 99 | 76 | 104 | 104 | 106 | 107 | 111 | 96 |
| 1926 monthly av－ |  | 108 |  | 108 | 113 | 104 | 97. | 114 | 101 | 108 | 98 | 110 | 130 | 112 | 127 | 116 | 112 |  | 108 | 110 | 104 | 105 | 113 | 110 | 116 | 116 | 95 |
| 1927 monthly av． |  | 106 |  | 106 | 104 | 113 | 96 | 112 | 95 | 86 | 103 | 115 | 112 | 109 | 136 | 120 | 118 |  | 107 | 99 | 99 | 122 | 95 | 105 | 111 | 112 | 93 |
| 1928 monthly av－ |  | 111 |  | 111 | 119 | 107 | 88 | 118 | 94 | 110 | 103 | 118 | 132 | 115 | 152 | 144 | 124 |  | 106 | 96 | 94 | 122 | 104 | 115 | 112 | 106 | 88 |
| 1929 monthly av－ |  | 118 |  | 119 | 129 | 115 | 97 | 125 |  | 135 | 105 | 114 | 152 | 125 | 168 | 135 | 134 |  | 115 | 102 | 95 | 137 | 121 | 127 | 114 | 113 | 94 |



1 Compiled by the Federal Reserve Board，Division of Research and Statistics，from 60 individual series of data representing the production of about 35 industries and estimated to represent，directly and indirectly，about 80 per cent of the total industrial production of the United States．The igures are reduced to average daily output and in addition，the figures are corrected for seasonal variation，except the unadjusted total，which is presented to show the actual output on a daily average basis inde－ pendent of seasonal conditions．Complete description of this index，which is being substituted for the indexes of manufactures and minerals previously published，was data from 1919．appeared in the July，1928，issue of the SURVEY（No．83），pp． 21 and 22.

Table 2.-INDEXES OF MARKETINGS OF AGRICULTURAL AND FOREST PRODUCTS ${ }^{1}$

${ }^{1}$ 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: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | UNFILLED ORDERS, END OF MONTK a |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Manufactured goods |  |  |  |  |  |  |  |  |  |  | Raw materials |  |  |  |  |  |  |  |  |  |  |
|  |  | E |  |  |  | $\begin{gathered} \text { Nonferrous } \\ \text { metals } \end{gathered}$ |  | $\begin{gathered} \text { Stone, clay, and } \\ \text { glass } \end{gathered}$ | -7u!d put suded |  | $\frac{b}{6}$ |  | $\frac{E}{E}$ |  |  |  |  | $$ |  |  |  | $\begin{aligned} & \text { 터 } \\ & \text { 豆 } \\ & \text { 톨 } \end{aligned}$ | Brick and glass |
|  | Relative to 1923-1925 average |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1919 monthly av- | 93 | 90 | 127 |  | 70 |  |  |  | 92 |  | - | 59 | 94 | 96 |  | 90 | 47 |  |  |  |  |  |  |
| 1920 monthly av. | 88 | 84 | 118 |  | 59 |  |  |  | 89 |  | -- | 58 | 87 | 78 | 124 | 100 | 49 | 210 | 74 | 220 | 484 | 62 | 115 |
| 1921 monthly av. | 102 | 97 | 97 | 85 | 84 | 151 | 100 | 84 | 115 | 125 | 68 | 77 | 105 | 99 | 143 | 101 | 66 | 101 | 103 | 104 | 211 | 33 | 43 |
| 1922 monthly av. | 95 | 87 | 84 | 100 | 76 | 94 | 89 | 98 | 87 | 12.1 | 82 | 77 | 100 | 100 | 116 | 103 | 77 | 108 | 125 | 111 | 118 | 83 | 78 |
| 1923 monthly av_ | 95 | 94 | 100 | 109 | 88 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928May----........... | 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 | 88 | 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 | 60 | 59 |
| November.......- | 138 | 115 | 87 | 118 | 143 | 125 | 107 | 144 | 133 | 75 | 156 | 112 | 154 | 155 | 170 | 126 | 136 | 7471 | $\begin{aligned} & 72 \\ & 72 \end{aligned}$ | 7683 | 4935 | 8462 | 68 |
| December-...--- | 142 | 122 | 97 | 129 | 147 | 125 | 113 | 163 | 132 | 77 | 164 | 117 | 156 | 163 | 173 | 97 | 136 |  |  |  |  |  |  |
| $\begin{gathered} 1989 \\ \text { January } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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 | 82102 | 4767 |
| April | 130 | 122 | 109 | 120 | 147 | 116 | 102 | 191 | 104 | 72 | 191 | 129 | 136 | 187 | 108 | 68 | 99 | 93 | 84 | 92 | 104 |  |  |
| May -------.-.--- | 123 | 121 | 110 | 116 | 142 | 117 | 101 | 130 | 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 |
| $1930$ | 151 | 122 | 105 | 125 | 147 | 178 | 118 | 186 | 72 | 75 |  |  |  |  | 189100 |  | 118 | 80 | 55 | 90 | 118 | 69 | 41 |
| February. | 148 | 126 | 110 | 120 | 158 | 178 | 117 | 198 | 79 | 75 | 144 | 130 | 172 | 198 | 173 | 194 | 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 |  | 109 | 80 | 152 | 127 | 132 | 178 | 105 | 108 | 93 | 76 | 42 | 76 | 126 | 79 | 49 |
| August |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September-..---- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October...... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December-. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1 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 thisissue. This index represents a complete revision of the points at the end of each month. Details covering construction and wesghings are tormerly published No ad justment has been made for seasonal variations.
${ }^{s}{ }^{2}$ 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]

${ }^{1}$ 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 1923 appeared in the Noveraber, 1927 , issue (No 75 ) 2.24 , except for data for state of man ufacture, 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.
${ }^{2}$ Data compiled, respectiveiy, 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 Digitized for FRA 96-qemmodities. 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]


[^1]Table 6.-WOOL*

*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 .
and 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.
while the right-hand column shows the reduction te, Bureau of Foreign and Domestic Commerce. The left-band 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.
to the U. S. Department of Commerce, Bureau of the Census. These data report, Bureau of Agricultural Economics, until April, 1922, when the compilation was transferred the American Woolen Company and from 10 to 20 other concerns not being included. The pulled wool by $11 / 3$. Further details as to classes of wool and districts are given in press releases.
4. 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 jointiy 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.
May, 1919 , these data had been collected by the $U$. $S$. Department op Agticnt 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 reteases 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 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 frst of 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 ${ }^{1}$ |  |  | OVERALLS ${ }^{\text {a }}$ |  |  | HOSIERY ${ }^{\text {s }}$ |  |  |  |  | KNIT UNDERWEAR * |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Suits | Separate trou- sers | Overcoats | Cut | Net shipments | Un- <br> filled <br> or- <br> ders, <br> end of <br> mo. | $\left(\begin{array}{c} \text { Prom } \\ \text { duc- } \\ \text { tion } \\ \text { (all } \\ \text { classes) } \end{array}\right.$ | Net ship- ments | $\begin{array}{\|c\|} \hline \text { St'ks, } \\ \text { end of } \\ \text { mo. } \end{array}$ | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Un- filled orders, end of mo. | Pro-duction | $\begin{array}{\|c} \text { Net } \\ \text { ship- } \\ \text { ments } \end{array}$ | $\begin{gathered} \text { St'ks, } \\ \text { end of } \\ \text { mo. } \end{gathered}$ | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Unfilled orders, end of mo. |
|  | Thousands of garments |  |  | Thousands of dozen garments |  |  | Thousands of dozen pairs |  |  |  |  | Thousands of dozen garments |  |  |  |  |
| 1920 monthly average. |  |  |  |  |  |  |  |  |  |  |  | 986 | ${ }^{6} 765$ |  | ${ }^{6} 168$ | ${ }^{6} 837$ |
| 1921 monthly average. |  |  |  |  |  |  |  |  |  |  |  | 846 | 770 |  | 994 | 1,840 |
| 1922 monthly average. |  |  |  |  |  |  |  |  |  |  |  | 1,046 | 1,070 |  | 1,309 | 2,992 |
| 1923 monthly average. |  |  |  |  |  |  | '3,834 |  |  |  |  | 1, 170 | 1,230 |  | 1,157 | 3,807 |
| 1924 monthly average. |  |  |  |  |  |  | 3,352 | 3,331 | 6, 259 | 3,410 | 5,755 | 71,108 | ${ }^{7} 1,038$ |  | 71,119 | 2,456 |
| 1925 monthly average. |  |  |  |  |  |  | 3,812 | 3,758 | 5,771 | 3,888 | 7,394 | 1,154 | ${ }^{5} 1,156$ | ${ }^{5} 1,106$ | ${ }^{6} 1,221$ | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| January-.-.----- 1929 | 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 | $\begin{aligned} & 2,443 \\ & 2,669 \end{aligned}$ | 463 | 340 | 307 | 212 | 3,206 | 3, 076 | 6,970 | 2,928 | 4, 191 | 1,077 | 995 | 1,310 | 1,356 | 2,358 |
| March | $\begin{aligned} & 2,932 \\ & 2,304 \end{aligned}$ |  | $\begin{aligned} & 475 \\ & 296 \end{aligned}$ | 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, 670 |  | 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.. | $\begin{aligned} & 2,560 \\ & 2,645 \end{aligned}$ | 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 |  | $\begin{aligned} & 2,647 \\ & 2,637 \end{aligned}$ | 756 | 335 | 317 | 185 | 3, 245 | 3,234 | 8, 420 | 2,974 | 4, 480 | 1,091 | 1, 064 | 1,797 | 891 | 2, 103 |
| August. | $\begin{aligned} & 2,645 \\ & 2,616 \end{aligned}$ |  | 901 | 374 | 360 | 113 | 3, 352 | 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. | 2,0671,9352,091 | $\begin{aligned} & 2,511 \\ & 2,025 \\ & 1,810 \end{aligned}$ | 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 |  |  | 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. |  |  | 290 | 246 | 226 | 112 | 3,054 | 3,063 | 7,648 | 2,848 | 3,327 | 1,020 | 991 | 1,345 | 893 | 1,383 |
| 1930 | 2, 522 | 2, 293 | 307 | 319 | 289 | 147 | 3,474 | 2742 | 8,308 | 2, 662 | 3,035 | 1,109 | 944 | 1,436 | 1, 199 | 1,632 |
| February | $\begin{aligned} & 2,336 \\ & 2,294 \end{aligned}$ | 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. |  | $\begin{array}{\|l\|} 2,363 \\ 2,247 \end{array}$ | 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 | $\begin{aligned} & 2,294 \\ & 1,981 \end{aligned}$ |  | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December- |  | $\square$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*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.

1 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. ${ }^{2}$ Compiled from reports to the $U$. S. Department of Gommerce, Bureau of the Census, from approximately 250 establishments; further details by kind of overalls are given
in presssummaries. The data represent overalls, overall jackets, and one-piece overall suits, while additional data on children's play suits, work pants and breeches, in presssummaries. The data represent overalls, overall jackets, and one-piece overall suits, while additional data on children's play suits, work pants and breeches,
${ }^{3}$ Compiled by the U.S. Department of Commerce, Bureau of the Census, as reported by 261 identical establishments, which produced
hosiery in 1925, according to the census of manufacturers. Further details are given in press releases. ${ }^{4}$ 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.
${ }^{5} 11$ months' average
${ }^{7} 9$ months' average.

Table 8.-TEXTILE WHOLESALE PRICES ${ }^{1}$

${ }^{1}$ 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, 28, 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 Surver (No. 75), p. 27.

Averages of weekly quotations on representative grades in the Boston market, as compiled by the U. S. Depart ment of Agricuiture, Bureau of Agricultural Economics. a 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 15 the 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.
${ }_{4}^{4}$ Fairchild cotton-goods index, compiled by the Daily News Record, represents a verage weekly wholesale quotations of 36 standard cloths in the New York market.
o 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 marke 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.

Table 9.-COTTON ${ }^{1}$

${ }^{1}$ 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 figures represent averages for the calendar year except for ginnings and production, in which case totals or the crop year are shown not an
${ }_{2}$ 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 tbe 1st day of the months shown.
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 ginuings for the cotton crop harvested in that year (not a monthly average). United States fort and interior, Egercial and Financial Chronicle, represent world visible supply on the Baturday nearest the end of the month, covering European ports, United States port and interior, Egypt, India, and quantities afloat.
$s$ 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 *


* 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 .

1 Data from U. S. Department of Commerce, Bureau of the Census, representing total cotton spindles active in textile mills during the month. The capacity percentagetakes into account working days, on a single-shift basis, exclusive of holidays. Details by States are given in press releases.
${ }^{2}$ Compiled by the National Association of Finishers of Cotton Fabrics, from reports of 33 out of 59 members in July, 1920 . The number of reporting merabers changed in November, 1920, to 35 out of 59 ; in December, 1921, to 34 out of 58 ; in November, 1922, 32 out of 57 ; in November, 1923,31 out of 51 ; in January, 1925, 29 out of 51 ; in March 1925, 23 out of 51; in A pril, 1925, 24 out of 51 ; in October, 1926, 28 out of 50 ; in February, 1929,27 out of 49 ; in October, 1929,26 out of 49 ; and in November, 1929, 25 out of 52 , 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.

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.
other cloth, bleach exports of cotton cloth from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. Exports of cotton cloth include duck and ably slightly smaller than in the corresponding linear-yard measurement. Imports include bleached and unbleached, colored, dyed, printed, and woven figured cloths. ${ }_{8}$ 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 $^{2}$ are quarterly averages.
Yearly figures are quarterly averages
9 months', average, April to December, inclusive.
${ }^{8} 6$ months', average, July to December, inclusive; previous data not available.
${ }^{9} 5$ months' average, August to December, inclusive; previous data not available.

[^2]Table 11.-COTTON TEXTILES AND BUTTONS

| Year and Month | $\underset{\text { YARN } 1}{\operatorname{CARDED}}$ |  |  | COTTON TEXTILES ${ }^{\text {a }}$ |  |  |  |  | $\begin{aligned} & \text { CLOTH } \\ & \text { PRINTING } \end{aligned}$ |  | $\begin{gathered} \text { FRESH- } \\ \text { WATERE } \\ \text { PUTRONS } \end{gathered}$ |  |  |  | $\left\lvert\, \begin{aligned} & \text { SHE } \\ & \vdots \\ & \vdots \\ & d z \\ & \hline \end{aligned}\right.$ | $\frac{\square}{\text { LLS }}$ | $\begin{aligned} & \text { TAGUAA } \\ & \text { NUTS } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro- | Stocks, | Unfilled orders. | $\underset{\text { Pro- }}{\text { Puction }}$ | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Shipments | Stocks, end of month | Unfilled orders, end of month | Pro-duetion | Stocks, end of month | Pro-duction | Stocks, end of month |  |  |  | $3$ |  |
|  | tion | month | end of |  |  |  |  |  |  |  |  |  | Imports ${ }^{\text {® }}$ |  |  |  |  |
|  | Thousands of pounds |  |  | Thousands of yards |  |  |  |  |  |  | Ratio to capacity | Thousands of gross |  |  | Thousands of pounds |  |  |
| 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... | ${ }^{\text {a }} 15,682$ | 69,887 | ${ }^{6} 27,597$ | 277,853 | 275, 206 | 271, 801 | 214, 840 | 454, 800 | ${ }^{7} 56,177$ |  | 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 | 66, 183 | ${ }^{8} 76,921$ | 47.2 | 10,880 | 77 | 11 | 543 | 199 | 1,944 |
| 1929 mo . av. | 18, 369 | 8,442 | 37, 003 | 293, 949 | 285, 022 | 288, 176 | 381, 272 | 410, 087 | 75, 202 | 83, 078 | 48.7 | 11,021 | 56 | 27 | 743 | 732 | 2,219 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January.. | 18,311 | 8,836 | 43, 246 | 342, 806 | 317,078 | 345, 354 | 389, 195 | 440, 885 | 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 | 8,328 | 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 | 60,002 | 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 | , | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the Cotton Textite 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 spindes in place, october and most of November from 134 milis with about 1, , 00, , 000 spindles in place, and beginning with the week ended November 26 from 141 mills sale to other mills, yarn used by the same mill in further manufacture being excluded.
${ }_{2}$ Compiled by the Association of Cotton Textile Merchants of New York from weekiy, 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, cheviots and plaids, ginghams, wide brown sheetings (compiled entirely by the Cotton Textile Institute
beginning with July, 1927 , with additional mills reporting), print cloth fancies (beginning Mareh, 1926), carded broadcloth (beginning July, 1926 ), canton flannels for tha beginning with July, 1927, with additional mills reporting), print cloth fancies (beginning Mareh, 1926), arded broadcloth (beginning July, 1926 ), canton flannels for tha 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 associations 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.
3 Compiled by the Cotton Textile Institute from reports of from 15 to 18 mills finishing print cloths, both job printers, ie those printing cloths not of their 0 佂 facture, and corporation printers, i. e., those both manufacturing and printing. These statistics, therefore, overlap somewhat the data of the National Association of Finishers facture, and corporation printers, i. e., those both manufacturing and printing. These statistics, therefore, overlap somewhat he data of the valional hos of cotton to abrics, as they incrude corporation printers, which the association statistics omit, and exclude white and dyed goods, which the association statistics cover in 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.
in Compiled by the National Association of Button Manufacturers from reports of 17 firms representing 95.2 per cent of the macline 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 ars 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.
${ }_{\delta}$ Compiled by the United States Department of Commerce, Bureau of Foreign and Domestic Commerce, representing theimports of buttons, and unmanufactured button stock.

Table 12.-SILK, RAYON, OTHER TEXTILES, AND FUR*


* Monthly data from 1009 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 . of Foreign and Domestic Commerce. Silk imports are a total of unmanufactured silk, including raw silk, cocoons, and waste. Unmanufactured fibers include flax, hemp, istle, iute, kapok, manila, New Zeaiand flax, sisal, etc. Rayon imports are a total of yarns, threads, and filaments.
a 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 Yoris.
${ }^{3}$ 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.

Compiled by the silk Association of America from manufacturers representing about 50 per cent of the industry. The figares 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.
aciation of America, representing average price of bleached ravon, 150 denier, A grade, in the New York market
Compiled by the Webbing Manujacturers Fxchange 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.
${ }^{2}$ 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, ete., are given in press summaries.
${ }^{8}$ Compiled by the American Fur Merchants' Association, representing sales of fur to garment manufacturers, retailers, etc., principally in Now York City, but also in other places in the United States and Canada.
${ }^{\circ} 10$ months' average, March to December, inclusive, except for pyroxylin unfilled orders, where a different 10 months' average is used, January and Octoher figures not being available.

108 months' average.

Table 13.-COAL*

| Year and Monte | BITUMINOUS |  |  |  |  |  |  |  |  |  |  |  | ANTHRACITE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production |  | $\underset{\substack{\text { ports }}}{\text { Ex- }}$ | Consumption |  |  |  |  | Stocks, end of meld by consumers ( ${ }^{\circ}$ | Prices |  |  | Pro-duc-tuon(1) | $\left\|\begin{array}{c} \text { Ext } \\ \text { por } \\ \text { Ex } \end{array}\right\|$ | St'ks end ofmo., in yds. of deal(12) | Prices |  |
|  | $\begin{gathered} \text { United } \\ \text { States } \\ \text { (1) } \end{gathered}$(1) | Canada (') |  | $\begin{aligned} & \text { By } \\ & \text { ves- } \end{aligned}$ |  | By | $\underset{\text { plan }}{\text { By }}$ | coke |  |  | Whole- sale, | $\xrightarrow{\text { Retail }}$ |  |  |  | Wholesale, | Retall, com- |
|  |  |  |  | $\begin{gathered} \text { clir- } \\ \left.\begin{array}{c} \text { ing } \\ \text { ports } \\ (1) \end{array} \right\rvert\, \end{gathered}$ | $\begin{aligned} & \text { power } \\ & \text { plants } \end{aligned}$ | roads <br> ${ }^{(8)}$ | United States (7) | $\left\{\begin{array}{c} \text { Can- } \\ \text { ada } \\ (8) \end{array}\right.$ |  | (spot) (10) | posite mine run (II) | $\begin{gathered} \text { posite, } \\ \text { site, } \\ \text { cities } \\ \text { (ii) } \end{gathered}$ |  |  |  | posite, chest${ }_{\text {nut }}$ ${ }^{(1)}$ | posite, chest(11) |
|  | Thous. of shorttons |  | Thous. of long tons |  | Thousands of short tons |  |  |  |  | Dollars per short ton |  |  | Thous. of shor tons | Thous of long tons | No. of days' sup. | $\begin{aligned} & \text { Dolls. } \\ & \text { per long } \\ & \text { ton } \end{aligned}$ | $\left.\begin{gathered} \text { Dolls. } \\ \text { per short } \\ \text { ton } \end{gathered} \right\rvert\,$ |
| 1913 monthly average.-- | 39, 870 | ...--.-- | 1,499 | 642 |  |  | -......- | -..--- |  | \$1.23 | -...---- | \$5.44 | 7,627 | 346 |  | $\square$ | \$7.92 |
| 1914 monthly average..- | 35, 225 | - | 1,150 | 606 |  |  |  |  |  | 1.14 |  | 5.72 | 7,569 | 319 |  |  | 7.89 |
| 1915 monthly average..- |  |  | 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 |
| 1017 monthly average..- | $\begin{aligned} & 45,983 \\ & 48,282 \end{aligned}$ | ----...- | 1,774 | 574 |  |  |  |  |  | 3.25 |  | 7.09 | 8,301 | 447 |  |  | 9.28 |
| 1918 monthly average..- |  |  | 1,663 | 461 |  |  |  |  | 57, 900 | 2.58 |  | 7.80 | 8, 236 | 370 | 36 |  | 10.05 |
| 1919 monthly average.-- | $\begin{aligned} & 48,282 \\ & 38,822 \end{aligned}$ | $\begin{aligned} & 1,160 \\ & 1,412 \end{aligned}$ | 1,497 | 604 | [13 2, 816 |  |  |  | 40, 400 | 2.59 |  | 8.00 | 7,341 | 370 | 31 |  | 11.89 |
| 1920 monthly average... | $\begin{aligned} & 38,822 \\ & 47,389 \end{aligned}$ |  | 2,866 | 780 | 3,094 | 9,451 |  |  | 29,933 | 5.64 |  | ${ }^{14} 11.26$ | 7,467 | 402 | 20 |  | ${ }^{14} 15.04$ |
| 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 |  | ${ }^{16} 10.21$ | 4,557 | 197 | 12 |  | ${ }^{15} 15.11$ |
| 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 | ${ }^{15} 15.17$ |
| 1926 monthly average..- | 47,781 | $\begin{aligned} & 1,373 \\ & 1,452 \\ & 1,463 \end{aligned}$ | 2,624 | 576 | 3,443 | 8,428 | 6,906 | 242 | 42,714 | 2.21 | 4.314 | 9.33 | 7,036 | 300 | 39 | 13.767 | ${ }^{16} 15.35$ |
| 1927 monthly average..- | $\begin{aligned} & 43,147 \\ & 41,729 \\ & 43,805 \end{aligned}$ |  | 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..- |  |  | 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. |  | 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 |
| 1930 | 49,778 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January.... |  | 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 <br> 1,130 | 835 | 263 | 3,418 | 7,117 | 6, 248 | 281 |  | 1.79 | 3.951 | 9.04 | 6,157 | 262 |  | 13.033 | 15.00 |
| March. | $\begin{aligned} & 35,773 \\ & 35,860 \end{aligned}$ |  | 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..................... |  | 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....-.-.-..------... | $\begin{array}{r} 35,954 \\ -\quad 33,714 \\ -\quad 34,715 \end{array}$ | $\begin{aligned} & 1,115 \\ & 1,128 \end{aligned}$ | 1,4881,394 | 278 | 3,297 | 6, 690 | 6, 572 | 290 |  | 1.67 | 3.902 | 8.53 | 5,947 | 186 |  | 12.441 | 14.33 |
| June........---...-.....-. |  |  |  | 276 | 3,191 |  | 6,155 | 268 | 32, 200 | 1.67 | 3.892 | 8.54 | 5,183 | 144 | 57 | 12. 251 | 14. 32 |
| July <br> August $\qquad$ |  |  |  |  |  |  |  |  |  | 1.71 | 3.891 | 8.65 | 5,658 |  |  | 12,336 | 14. 53 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SeptemberOctober |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Novernber $\qquad$ <br> December. $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* 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.
1 Production figures, calculated from shipments from the mine and representing complete production except for small quantities used at the mines, compiled by $J$. $S$. Department of Commerce, Bureau of Mines
${ }^{2}$ Compiled by Department of Trade and Commerce, Dominion Bureau of Statistics, including bituminous, subbituminous, and lignite. Previous to 1919 these data mprised sales, colliery consumption, and coal used by operators, and thereafter the tonnage representing output of all mines.

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.
Coal loaded for consumption by outgoing vessels at principal ports compiled by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
5 Compiled by the $U . S$. Department of the Interior, Geological Survey, representing fuel consumption by all plants producing electric powar, mainly central stations. Coal consumption in central stations alone shown in April, 1925, issue (No. 44), p. 29, and by street railmays, manufacturing plants, and reclamation projects in March, 1920; issue (No. 43), p. 28.
'Compiled by the Interstate Cominerce 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. 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 1823 was anthracite.
${ }^{\text {F }}$ Compiled by the U. S. Department of Commerce, Bureau of Mines, by applying to the coke production flgures the average amount of coal used in making both byproduct and beehive coke.
${ }^{2}$ Compiled by the Department of Trade and Commerce, Dominion Bureau of Statistics, presenting complete figures for Canada.

- 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, whille 1918 and 1919 are保 1925 and 1929,5 months, and for 1927,7 months.
utpeat of bituminous coal is sold spot, while representative biturninous fields weighted by the production in each feld, compiled by the Coal Age
in 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 25 firms, f. o. b. city, while the retail price is average consumers' price on the 15 th of the month, of luinp, egg, nut, and mine run, averaged according to the month's shipments. Anthracite wholesale prices are monthly averages tor chestnut coal as reported by 15 firms, f. o. b. city, while retail prices are unweighted quotations on Pennsyl July 15th only
${ }_{12}$ 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. A verages 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.
${ }^{14} 6$ months' average, January, May, June, August, November, and December missing.
${ }^{1} 88$ months' average.
1511 months' average, August missing.
1010 months' average, January and February missing in 1926 and November and December in 1025.

Table 14.-IRON ORE AND PIG IRON*


* 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.
onnage passing ir ore from the Lake Superior Iron Ore Association, except imports. Shipments represent movement of ore through the upper lake ports, including not only lonnage 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.
2 Compiled by the the full 12 months of the year.
ember, 1922, which are shown only in the raw state, but included those and Domestic Commerce. Imports of manganese ores exclude ores imported from Cuba since Sep-
${ }^{3}$ Pig-iron production and blast-furnace data, in the United States, comprising practically the entire output, except that made with charcoal, from the imported or
${ }^{4}$ 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.

Data on Canadian pig-iron production compiled by Canadian Department of Trade and Commerce, Dominion Fureau of Statistics, comprising complete production.

- Wholesale prices, except composite average, are averages of weekly quotations taken from U. S. Department of Labor, Bureau of Labor Statistics.

7 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 Bessemel 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 Southere oundry at Cincinnati.
${ }^{8} 9$ months' average, A pril to December, inclusive.

Table 15.-CRUDE STEEL AND COKE*

| Year and Month | BTEML INGOTS |  |  | U. S. STEEL COEPORATION |  | STEEL PRICES |  |  |  | COKE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production |  |  | Unfilled orders, end ofmonth | Earnings | Stee! billets, Eessemer (Pittsburgh)4 | Struetural stee] beams (Pittsburgh) ${ }^{4}$ | $\begin{aligned} & \text { Iron } \\ & \text { and } \\ & \text { steel } \end{aligned}$ |  | Production |  |  | ports | $\begin{aligned} & \text { Whole- } \\ & \text { sale } \\ & \text { price } \end{aligned}$ |
|  | United States ${ }^{1}$ |  | $\begin{aligned} & \text { Can:- } \\ & \text { ada: } \end{aligned}$ |  |  |  |  |  |  | United | States ${ }^{\text {] }}$ |  |  |  |
|  | Total | $\begin{aligned} & \text { Ratio } \\ & \text { to ca- } \\ & \text { pacity } \end{aligned}$ |  |  |  |  |  |  |  | Beehive | $\begin{array}{r} \text { By- } \\ \text { product } \end{array}$ | $\begin{aligned} & \text { Can- } \\ & \text { ada } \end{aligned}$ |  | Con-nellisville ${ }^{10}$ |
|  | Thous. of long tons | Per cent | Thous. of long tons |  | Thous. of dolls. | Dolls. per long ton | Dolls. per pound | Dolls. per long ton | Dolls. per pound | Thous. of short tons |  |  | Thous. of long tons | $\underset{\substack{\text { Dolls. } \\ \text { per short } \\ \text { ton }}}{ }$ |
| 1909-13 monthly average |  |  | 4,795 |  | \$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 |  | 100 | 9,722 | 27,798 | 43.95 | . 0253 | 40. 50 | . 0280 | 2,955 | 1, 589 |  | 87 | 3. 61 |
| 1917 monthly average.-- | 3, 635 |  | 130 | 10,716 | 24,608 | 70.78 | . 0374 | 70. 10 | . 0446 | 2,764 | 1, 870 |  | 105 | 8. 15 |
| 1918 monthly average .-- | 3,588 |  | 140 | 8,635 | 16, 613 | 47.30 | . 0300 | 56.68 | . 0379 | 2,540 | 2,167 |  | 126 | 6.00 |
| 1919 monthly average... | 2, 8083,407 |  | 77 | 5,995 | 11,966 | 40.54 | . 0252 | 50.32 | . 0332 | 1,587 | 2,095 |  | 53 | 4.75 |
| 1920 monthly average..-- |  |  | 92 | 10,022 | 14,724 | 56.14 | . 0284 | 65.59 | . 0363 | 1,709 | 2, 570 |  | 68 | 10.79 |
| 1921 monthly average.-- | 1,602 |  | 56 | 5,331 | 7,727 | 34. 46 | . 0204 | 40.74 | . 0269 | 462 | 1,646 |  | 23 | 3.65 |
| 1922 monthly average... | 2, 881 |  | 41 | 6, 648 | 8,461 | 33.95 | . 0173 | 37.86 | . 0231 | 714 | 2, 379 |  | 38 | 7.42 |
| 1923 monthly average.-- | 3, 624 |  | 74 | 6,009 | 14,971 | 41.65 | . 0242 | 44. 55 | . 0295 | 1,615 | 3,133 |  | 92 | 5. 55 |
| 1924 monthly average..- | 3,068 |  | 54 | 3,993 | 12,760 | 37.99 | . 0224 | 40.86 | . 0284 | 857 | 2, 832 |  | 49 | 3.53 |
| 1925 monthly average... | 3, 678 |  | 63 | 4,324 | 13,795 | 35.45 | . 0200 | 38.83 | . 0268 | 946 | 3,326 | 123 | 71 | 4.09 |
| 1926 monthly average --- | 3, 911 | 94 | 65 | 3,922 | 16,588 | 35.00 | . 0196 | 38.27 | . 0264 | 1,041 | 3,698 | 159 | 73 | 4.14 |
| 1927 monthly average..-- | 3,617 | 76 | 76 | 3,397 | 13,687 | 33.27 | . 0186 | 36.41 | . 0253 | 601 | 3,657 | 165 | 60 | 3.21 |
| 1928 monthly average..- | 4,155 | 85 | 103 | 3,852 | 16, 100 | 32.67 | . 0187 | 35. 49 | . 0250 | 374 | 4,026 | 192 | 82 | 2.79 |
| 1929 monthly average..-- | 4, 526 | 89 | 115 | 4,161 | 21,555 | 34.66 | . 0192 | 36.49 | . 0254 | 501 | 4,456 | 223 | 92 | 2.78 |
| 1929 | 4,528 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September...- |  | 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$\mathbf{2 , 9 0 3}$ | 69 | 94 | 4,125 | 18,367 | 35.00 | . 0190 | 36.04 | . 0250 | 413 | 4,321 | 224 | 98 | 2.69 |
| December. |  | 59 | 82 | 4,417 | 15,952 | 34.60 | . 0190 | 35.95 | . 0250 | 345 | 4, 181 | 222 | 111 | 2. 64 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 .-.--------..------ | $\begin{aligned} & 4,300 \\ & 4,154 \end{aligned}$ | 83 | 117 | 4,571 | 18, 104 | 33. 00 | . 0180 | 35.01 | . 0243 | 291 | 4, 304 | 224 | 58 | 2.60 |
| April.---------...-.------- |  | 80 | 103 | 4,354 | 16,114 | 33.00 | . 0180 | 34.48 | . 0239 | 302 | 4, 246 | 213 | 73 | 2.60 |
| May ------------------- | 4,0253,4402,933 | 74 | 92 | 4,059 | 16,571 | 32. 50 | . 0180 | 33.84 | . 0235 | 241 | 4,266 | 210 | 78 | 2. 53 |
| June. |  | 69 |  | 3,968 | 14,377 | 31.00 | . 0170 | 33. 53 | . 0233 | 261 | 3,954 | 193 | 68 | 2. 50 |
| July .-. |  | 56 | ---- | 4,022 | -...-...- | 31.00 | . 0165 | 33.25 | . 0229 | 262 | --...-.-- |  |  | 2.52 |
| August. | -------- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^3]Table 16.-FABRICATED STEEL PRODUCTS*

| Year and Monte | STRUBRICATED |  |  |  | FABRICATED SteEl Plate ${ }^{\text {P }}$ <br> New orders |  |  | $\begin{aligned} & \text { STEEL } \\ & \text { BOILERS } \end{aligned}$ |  | STEEL FURNITURE ${ }^{\text {d }}$ |  |  |  |  |  | $\begin{aligned} & \text { IRON AND } \\ & \text { GTEEL: } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New orders |  | Shipments |  |  |  |  | New orders |  | Business group |  |  | Sheiving |  |  |  |  |  |
|  |  |  |  |  | Tot |  |  |  |  |  |  |  |  |  | $\left\lvert\, \begin{aligned} & \text { Un- } \\ & \text { filled } \end{aligned}\right.$ |  |  |  |
|  | Computed total |  | Com= total | $\left\|\begin{array}{c} \text { tio to } \\ \text { cas } \\ \text { paco }_{\text {ity }} \end{array}\right\|$ | Quan- | $\begin{aligned} & \text { Ra- } \\ & \text { to to } \\ & \text { ca- } \\ & \text { pac. } \end{aligned}$ | $\begin{aligned} & \text { Stor- } \\ & \text { age } \\ & \text { tanks } \end{aligned}$ |  |  | Shipments | New orders | filled end mo. | Ship- | $\begin{aligned} & \text { New } \\ & \text { or- } \\ & \text { ders } \end{aligned}$ | $\begin{aligned} & \text { ord } \\ & \text { ers, } \\ & \text { end } \\ & \text { mo. } \end{aligned}$ | $\begin{gathered} \text { Exports, } \\ \text { total } \end{gathered}$ | Imports, total |  |
|  | Short tons | Per cent | Short tons | Per cent | Short | Per cent | Short tons | $\underset{\text { ber }}{\text { Num- }}$ | Thous of sq. feet | Thousands of dollars |  |  |  |  |  | Long tons |  | Rel. to Jan. 1921 |
| 1919 mo. av.-- | 143, 640 | 54 |  |  |  |  |  |  |  |  |  |  |  |  |  | 362, 920 | 26,854 |  |
| 1920 mo. av-. | 149, 040 | 54 |  |  |  |  |  |  |  |  | \$1,335 1,941 |  |  | \$46 |  | 405, 644 | 34, 546 |  |
| 1921 mo. av.-- | 99, 050 | 35 |  |  |  |  |  |  |  |  | 1,250 |  |  | 123 |  | 182, 681 | 10, 075 |  |
| 1922 mo. av... | 194, 560 | 64 |  |  |  |  |  |  |  |  | 1,432 |  |  | 205 |  | 167, 515 | 64, 115 | 122 |
| 1923 mo av. | 203, 580 | 65 |  |  | 48,489 | 60 | 25, 285 |  |  |  |  |  |  | 364 |  | 167, 565 | 59,961 | 157 |
| 1924 mo. av. | 220,050 | 68 | 222.495 | 68 | 29,028 | 36 | 10,413 |  |  | 7 \$1,936 | 1,811 1,909 | 7 \$1,256 | 7\$567 | 466 | $7 \$ 374$ | 150,580 | 38, 888 | 139 |
| 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 |
| 1928 mo. av.. | 241, 200 | 67 | 267, 900 | 74 | 42, 826 | 52 | 14, 614 |  |  | 2,619 | $\begin{aligned} & 2,616 \\ & 2,563 \end{aligned}$ | 1,694 | 611 | ${ }^{6} 12$ | 639 | 180, 587 | 77,803 | 167 |
| 1927 mo . av- | 254, 375 | 68 | 237, 813 | 63 | 41, 476 | 52 | 17, 581 | 1, 592 | 1, 483 | 2, 592 |  | 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 |
| 1929 | 273, 350 | 71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January-... |  |  | 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.- | $\begin{aligned} & 358,050 \\ & 334,050 \end{aligned}$ | 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. |  | 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.. | $\begin{aligned} & 346,500 \\ & 350,350 \end{aligned}$ | 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 |  | 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 | 1,079 | 222,408 | 46, 346 | 229 |
| October | $\begin{aligned} & 342,650 \\ & 227,150 \end{aligned}$ | 89 | 350, 350 | 91 | 32,099 | 39 | 8,786 | 1,712 | 1,871 | 2,984 | 2,842 | 2, 059 | 979 | 928 | 1,015 | 247, 646 | 49, 502 | 243 |
| November. |  | $\begin{aligned} & 59 \\ & 83 \end{aligned}$ | 284, 800 | 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 | $\begin{aligned} & 227,150 \\ & 319,550 \end{aligned}$ |  | 265, 650 | 69 | 23, 535 | 30 | 3, 689 | 1,029 | 880 | 2,782 | 2,583 | 2, 166 | 856 | 735 | 824 | 215, 242 | 39, 022 | 169 |
| $\begin{array}{r} 1930 \\ \text { January } \end{array}$ | 252,000 | 63 | 244,060 | 61 |  | 64 | 432 | 942 | 1, 082 | 2,891 | 2,886 | 1, 862 | 675 | 725 | 706 | 225, 000 | 34, 710 | 160 |
| February | $\begin{aligned} & 284,000 \\ & 248,000 \end{aligned}$ | 71 | 288,000 | 72 | 28, 332 | 36 | 7, 865 | 873 | 1,939 | 2,550 | 2,370 | 1,683 | 683 | 759 | 782 | 197, 426 | 35, 830 | 149 |
| March.. |  | 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.- | $\begin{aligned} & 248,000 \\ & 236,000 \end{aligned}$ | 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 | 0,222 | 1,283 | 1,330 | 2,342 | 2,310 | 1,651 | 752 | 725 | 754 | 196, 120 | 46, 081 | 180 |
| June. | $\begin{aligned} & 296,000 \\ & 276,000 \\ & 284,000 \end{aligned}$ | 69 | 300, 000 | 75 | 35,014 | 46 | 9,741 | 1,350 | 1,522 | 2, 123 | 2,006 | 1,265 | 705 | 699 | 746 | 159, 392 | 34,755 |  |
| July .-.-.-.------ |  | 71 | 304, 000 | 76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August.-.-.-.-- | 284,000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October-- | $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 .
1 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 $1923,326,000$ 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 ${ }_{2}$ Compiled by the US. Department of Commerce, Bureau of the Census from reports of 36 identical firms, including reports from the American Erectors Assogiation. 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 Reportes rom most of the larger labricators are included in the figures. Data for other classifications included
${ }_{a}$ Compilcd 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 classifcations 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 .
${ }_{4}^{4}$ 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.
${ }_{5}$ 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.
o Data on the value of salcs by jobbers of hardware, compiled by A merican Steel and Heavy Hardware Association, comprising reports from about 75 firms, estimated to represent about 10 per cent of the entire iron, steel, and beavy 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.
${ }^{7} 4$ months' average, September to December, inclusive; previous data not available.

Table 17.-STEEL SHEETS, BARS, BARRELS, AND WASHERS *


[^4]Table 18.-IRON AND STEEL CASTINGS*

| Year and Monte | MALLEABLE CASTINGS 1 |  |  |  | STEEL CASTINGS: |  |  |  |  |  |  |  | WRACK | OHIO FOUNDR |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production |  | Shipments | New orders | Production |  |  |  | New orders |  |  |  |  | Meltings |  |  |  |
|  | Total | Ratio <br> to ca- <br> pac- <br> ity |  |  | Total | Ratio <br> toca- <br> pac- <br> Ity$\|$ | $\begin{aligned} & \text { Rall- } \\ & \text { road } \end{aligned}$ | Miscellaneous | Total | $\begin{aligned} & \text { Ratio } \\ & \text { toca- } \\ & \text { pac- } \\ & \text { ity } \end{aligned}$ | $\begin{aligned} & \text { Rail- } \\ & \text { road } \end{aligned}$ | Miscellaneous | $\begin{gathered} \text { Pro- } \\ \text { duction } \end{gathered}$ | Actual | $\begin{aligned} & \text { Ratio } \\ & \text { nor- } \\ & \text { mal } \end{aligned}$ |  |  |
|  | Short tons | Per cent | Short tons |  |  | Per cent | Short tons |  |  | Per cent | Short tons |  |  | $\begin{aligned} & \text { Long } \\ & \text { tons } \end{aligned}$ | Per cent of normal meltings |  |  |
| 1921 mo. average |  |  |  |  |  |  |  |  | 32, 680 | 26 | 14, 370 | 18,310 | --.... | ${ }^{\circ} 7,791$ | ${ }^{5} 20.7$ |  |  |
| 1922 mo. average. |  |  |  |  |  |  |  |  | 83, 335 | 68 | 43, 480 | 39,855 |  | 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 | 19,022 | 67.6 | 85 | 52 |
| 1925 mo average... | 66, 100 | 55.3 | 66, 181 | 62,583 |  |  |  |  | 81,779 | 60 | 35, 304 | 46, 475 | 14, 283 | 18,632 | 77.8 | 91 | 66 |
| 1826 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, 1.56 | 58 | 30,964 | 54, 192 | 83, 352 | 57 | 32,489 | 50,864 | 11,637 | 16, 170 | 88.6 | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May | 67, 903 | 70.7 | 65, 823 | 63, 847 | 93, 833 | 63 | 36,599 | 56,734 | 86,796 | 59 | 34, 995 | 51,801 | 14, 141 | 13,887 | 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 | 60,064 | 78, 648 | 53 | 27, 501 | 51, 147 | 66,992 | 45 | 20,483 | 46,509 | 11,776 | 19,967 | 103.0 | 127 | 107 |
| August | 68,600 | 72.1 | 66, 862 | 66, 128 | 87,742 | 60 | 27, 157 | 60,585 | 81, 280 | 55 | 25, 171 | 56, 115 | 11,040 | 12,932 | 103.4 | 129 | 99 |
| September | 62,685 | 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, 560 | 66.8 | 58,346 | 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 |
| $19 凤 8$ <br> 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 | 128 | 105 |
| February | 73,875 | 77.1 | 71,093 | 77, 076 | 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 | 749 | 72, 346 | 65, 315 | 116, 221 | 80 | 54, 154 | 62,067 | 95, 201 | 65 | 34947 | 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, 002 | 90, 287 | 62 | 33,980 | 56,307 | 10,826 | 13,782 | 73.5 | 118 | 73 |
| $\begin{array}{r} 1930 \\ J_{8} \text { anuary } \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 65, 942 |  | 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 | 7. 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.
${ }_{1}$ 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.
Society. These firms have a monthly
 f that branch, while 79,700 tons is generally dacture in the same plant, of which 67,700 tons is usually devoted to railway specialties and represents the complete capacity factured for sale and interplant transfer by steel do miscellaneous castings. New orders for 1925 were 6 per cent larger than the production of direct steel castings manutured in the foundry and machine-shop industry, wocar and roling mills and represented 93 per cent of the total of these direct steel castings and of steel castings manufac couplers, and cast-steel car wheels. Owing to reports from additional firms, these for for 1925 . Railway specialties include such items as bolsters, sidearms, draftarmas,
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
${ }^{3}$ Compiled by the American Iron and Steel Institute and covers the production of $\mathbf{T}$-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.
- Compled 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 ach 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 tocks are shown in the association's redorts.
- 10 months' average.

Table 19.-CAST-IRON PRODUCTS

| Year and | CAST-IRON BOILIERS AND RADIATORS 1 |  |  |  |  |  |  |  |  |  |  |  | GAS-FIRED BOILERS ' |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Round Bollers |  |  |  | Square Rollers |  |  |  | Radiators |  |  |  | Shipments |  | $\xrightarrow[\text { Puction }]{\text { Pron }}$ | Stocks, end of mo. |
|  | $\underset{\text { Pro- }}{\text { duction }}$ | Shlpments | New orders | Stocks, end of mo. | Priction | Shipments | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Stocks, end ef mo. | Pro- | Shipments | 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. 8 V -- | 18, 126 | 17,339 |  |  | 18,753 | 17,354 |  |  | 12,623 | 12, 304 |  |  |  |  |  |  |
| 1925 mo . $8 \mathrm{\nabla}$-- | 19, 526 | 18,935 |  |  | 20,903 | 20,480 |  |  | 13,486 | 13,769 |  |  | \$91, 729 |  |  |  |
| 1926 mo .8 av -- | 19,444 | 20,412 | 20,917 | 93,973 | 20,596 | 21, 561 | 22, 728 | 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 |
| 1927 | 22, 733 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September.-- |  | 22,311 | 20,340 | 113,561 | 29,682 | 30,687 | 25, 112 | 111,499 | 17,453 | 17,304 | 15,768 58,887 <br> 19,683 55,030 <br> 1  |  | --........ | - | -...-.- |  |
| October.. | 19,865 | 25, 734 | 25, 817 | 104, 301 | 24,758 | 31, 156 | 30,400 | 110,647 | 14,088 | 18, 156 |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 855 | 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, 208 | 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 | 11,665 | 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 | 6,670 | 13,932 | 14,798 | 47, 572 | 153, 744 | 128,380 | 83, 300 | 581, 451 |
| $\begin{array}{r} 1929 \\ \text { January } \end{array}$ | 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 | 197, 375 | 825, 707 |
| April.. | 10, 184 | 8,603 | 7,920 | 87,971 | 20,014 | 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. | $\begin{array}{r} 10,578 \\ 8,997 \end{array}$ | 10, 171 | $\begin{array}{r} 9,059 \\ 14,490 \end{array}$ | 89,437 | 16,11911,598 | 17,458 | 18, 421 | 179, 960 | 9,364$\mathbf{6 , 7 5 6}$ | 9,226 | 9,603 | 74, 189 | 285, 223 | 213, 780 | 271, 330 | 1,197,768 |
| July--. |  | $\begin{aligned} & 13,553 \\ & 15,092 \end{aligned}$ |  | 84, 027 |  | 22, 927 | 26,039 | 169, 044 * |  | 11,729 | 13,621 | 69, 277 | 315, 696 | 254, 856 | 248, 993 | 1,115,865 |
| August...-.-- | $\begin{array}{r} 8,997 \\ 12,189 \end{array}$ |  | $\begin{aligned} & 14,490 \\ & 13,916 \end{aligned}$ | 81, 162 | 19,014 | 28, 757 | 27, 242 | 159,661 | 10,365 | 13,665 | 14, 267 | 65,792 | 486, 659 | 365, 230 | 235, 877 | 951, 598 |
| September--- | 11,602 | 18,26323,487 | 16,936 | 74,25466,509 | 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.- | $\begin{array}{r} 15,407 \\ 11,430 \\ 8,972 \end{array}$ |  | $\begin{array}{r} 19,583 \\ 10,652 \\ 9,184 \end{array}$ |  | 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--- |  | $\begin{aligned} & 23,487 \\ & 12,162 \end{aligned}$ |  | 65, 855 | 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-.- |  | 10,453 |  |  | 17,398 | 20,010 | 17,972 | 126, 800 | 6,821 | 9,905 | 8,681 | 46,371 | 188, 063 | 164, 635 | 87,949 | 702, 144 |
| 1930 January | 8,972 |  | 9, 184 | 67,836 | 20,033 | 13,836 | 13,345 | 132, 837 | 9, 253 | 6,047 | 6, 276 | 49, 717 |  | 100, 030 | 215, 939 | 845, 210 |
| February... | 10,356 10,659 | $\begin{aligned} & 7,304 \\ & 5,516 \end{aligned}$ | $\begin{array}{r} 6,368 \\ 5,158 \end{array}$ | 73, 404 | 21, 355 | 10, 191 | 10,415 | 143, 638 | 9,222 | 4,433 | 4,845 | 54, 589 | $\begin{aligned} & 118,418 \\ & 111,401 \end{aligned}$ | 100,030 91,644 | 2158,939 180 | 917, 929 |
| March | $\begin{array}{r} 1,858 \\ 9,85 \\ 9,934 \end{array}$ | $\begin{aligned} & 5,516 \\ & 4,935 \end{aligned}$ | $\begin{array}{r} 5,158 \\ 4,805 \\ 4,988 \end{array}$ | 78,787 | 21, 008 | 8,854 | 10, 613 | 155, 335 | 8,518 | 3,912 | 5, 085 | 59, 0¢4 | 175,912 | 151,380 | 182, 837 | 856,070 |
| April. |  | $5,853$ |  | 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.-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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.

- 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 par 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 | $\begin{array}{\|c\|} \text { FAC- } \\ \text { CUEAAN- } \\ \text { ERS: } \end{array}$ |  | 雷 | PUMPS |  |  |  |  | PATENTS GRANTED ${ }^{\text {B }}$ |  |  | PULVERIZED FUEL EQUIPMENT ${ }^{\text {? }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Domestle ${ }^{4}$ |  | Steam, power, and centrifugal ${ }^{5}$ |  |  |  |  |  | Central system |  |  |  | Unit system |  |  |  |
|  |  |  |  | Pitcher, hand, and windmini | Pow- er, hori zentai type | New orders | Shipments | Un-filledordersend ormo. |  |  |  |  |  |  |  |  |  |  |  |
|  | Shipments |  |  |  |  |  |  |  |  |  |  | New orders |  |  |  |  |  |  |  |
|  | Number | Number of units |  |  |  | Thousands of dollars |  |  | Number |  |  | Number of pulverizers |  |  |  |  |  |  |  |
| 1919 monthly a |  |  |  |  |  | \$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. |  |  |  | ${ }^{8} 51,566$ | ${ }^{8} 738$ | 1, 408 | 1,254 | 4, 631 | 3, 201 | 49 | 49 |  |  |  |  |  |  |  |  |
| 1923 monthly av...- | 84, 692 |  |  | 49,804 | 658 | 1, 679 | 1,753 | 5,430 | 3,220 | 49 | 59 |  |  |  |  |  |  |  |  |
| 1924 monthly av-. | 75, 297 |  |  | 45, 021 | 614 | 1,212 | 1,260 | 1,252 | 3, 550 | 52 | 58 |  |  |  |  |  |  |  |  |
| 1925 monthly av.. | 79, 821 |  |  | 58,845 | 717 | 1,452 | 1,394 | 2, 676 | 3,871 | 61 | 63 |  |  |  |  |  |  |  |  |
| 1926 monthly av.. | 88,786 | 1,446 | 7, 198 | 45, 554 | 524 | 1, 582 | 1, 552 | 3, 273 | 3,729 | 53 | 51 |  |  |  |  |  |  |  |  |
| 1927 monthly av..-- | 86,551 | 1,510 | 8,404 | 43,471 | 1,094 | 1,432 | 1,400 | 3, 261 | 3,478 | 51 | 65 |  |  |  |  |  |  |  |  |
| 1928 monthly av...- | 84, 955 | 1,349 | 9,824 | 45, 937 | 2, 208 | 1,500 | 1,447 | 3, 236 | 3, 531 | 41 | 53 |  |  |  |  |  |  |  |  |
| 1929 monthly av |  | 1,330 | 10,619 | 43, 936 | 2,379 | 1,764 | 1,737 | 4, 027 | 3,777 | 51 | 56 |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |
| $\begin{array}{r} 1929 \\ \text { January } . . . . \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January -... <br> February | 71,335 86,507 | 1,080 | 7,935 | 50,723 48,135 | 2,265 2,085 | 1,695 1,432 | 1,481 | 3,800 3,659 | 3,835 3,127 | 47 | 51 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 |  |  |  |  |  |  |  |  |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January |  | 1,240 | 8,307 | 44,389 | 1,449 | 1,437 | 1,330 | 3,842 | 3, 163 | 40 | 42 | 1 |  |  | 5 | 52 | 6 |  | 1 |
| Februar |  | 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 | 2 |
| June. |  | 752 | 10,853 | 29,361 | 3, 018 | 1,291 | 1, 644 | 3, 250 | 7, 670 | 109 | 144 | 1 |  |  |  | 15 |  | 6 | 5 |
| 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 .
${ }^{1}$ Compiled by the Vacuum Cleaner Manufacturers' Association from companies representing about 90 per cent of the industry.
${ }^{2}$ 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.
${ }^{3}$ 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

- Compiled through 1926 by the Federal Reserve Bank of Chicago, covering 22 frms in 1922 and 1923 and 19 firms thereafter. Beginning with 1927 , these data have been compiled by the U. S. Depariment 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.
B 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 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, entrifugal pumps, and reciprocating deep-well pumps.
Patents granted compled rom 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 givep month represents the total of either four or five Tuesdays. Monthly data from 1913 appeared in A pril, 1923, issue (No. 20), p. 48, except for internal-combustion engines, which appeared in June, 1923, issue (No. 22), p. 52 . Agricultural implements patents lall within the offciad classification of "Agricultural implements; planters, harrows and diggers, plows, harvesters, scattering unloaders, and threshing implements."

Table 21.-INDUSTRIAL MACHINERY *

| $\underset{\text { Monti }}{\text { Mear and }}$ | $\begin{aligned} & \text { TOUNDEY } \\ & \text { EQUIPMENT } 1 \end{aligned}$ |  |  | STOKERS ${ }^{2}$ |  | $\begin{aligned} & \text { MACRINE } \\ & \text { TOOLS } \end{aligned}$ |  |  | ELECTRIC HOISTS * |  |  | ELECTRIC everimad CRANES ${ }^{\text {5 }}$ |  |  | WOODWORKING MACHINERY ${ }^{\text {a }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New orders | Shipments | Unfilled orders, end of month | $\begin{aligned} & \text { Sales (new } \\ & \text { orders) } \end{aligned}$ |  | $\begin{aligned} & \text { New } \\ & \text { or- } \\ & \text { ders } \end{aligned}$ | $\begin{aligned} & \text { Ship- } \\ & \mathbf{m}^{\prime} \text { ts } \end{aligned}$ | Unfilled ders, end mo. | New orders |  | Shipments | $\\|_{\text {Ship- }}^{\text {m'ts }}$ | $\begin{aligned} & \text { New } \\ & \text { or- } \\ & \text { ders } \end{aligned}$ | $\left\|\begin{array}{c}\text { Un- } \\ \text { olled } \\ \text { orders, } \\ \text { cnd of } \\ \text { month }\end{array}\right\|$ | New orders | Can-cel-1ations | $\left\|\begin{array}{c}\text { Un- } \\ \text { filled } \\ \text { orders. } \\ \text { end of } \\ \text { month }\end{array}\right\|$ | Shipments |  |
|  |  |  |  |  |  | Qty. |  |  | Val |  |  |  |  |  |  |  |  |  |
|  | Relative to average shipments, 1922-1924 |  |  | Num- | Total h. p. |  | Relative to average shipments, 1922-1924 |  |  | $\left\lvert\, \begin{gathered} \text { No. } \\ \text { of } \\ \text { hoists } \end{gathered}\right.$ | Dollars |  | Thousands of dollars |  |  |  |  |  |  | $\begin{aligned} & \text { No. of } \\ & \text { ma- } \\ & \text { chines } \end{aligned}$ |
| 1919 mo .8 s |  |  |  | 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 | ${ }^{8} 1,122$ |
| 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 .8 s | 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 .8 | 141.1 | 143.9 | 170.0 | 113 | 45, 519 | 162 | 167 | 294 | 300 | 160,016 | 165,089 | 977 | 974 | 7\$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. $\mathrm{av}^{\text {- }}$ | 173.3 | 156.9 | 311.6 | 124 | 42,391 | 237 | 204 | 418 | 437 | 203, 998 | 188, 601 | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| $\begin{gathered} 1929 \\ \text { January... } \end{gathered}$ | 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 | 441.1 | 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 |
| . 1930 | 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.
industry. The 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 moiding 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 a verage shipments of the reporting firms for 1922 to 1924 and
ber of reporting firms. The association reports give detailed index numbers by sizes of firms but no numerical data. ${ }_{2}$ Stoker sales through December 1922, from the Stoker Manufacturers' Association, said to represent approximately 99 per cent of the industry; beginning with January, ${ }^{2}$ 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 Gensus, 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.
${ }^{3}$ 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 unfiled orders at the end of the month 1924, issue (No. 32).

18compiled by the Electric Hoist Manufacturers' Association from the reports of 9 firms.
BCompiled by the Electric Overhead Crane Instidute, 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.
Th. 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 classifcation include hand and scroll saws, band mills, band rip and resaws, borers, circular cut-oft saws, circuar resaws, circular rip saws, combinations,
saws,
dovetailers, gainers, grinders, hand planers and glue jointers, lathes, molders, mortisers, planers and matehers, sanders, sash and door maehines, shapers, surfacers, tenoners, wheel machines, and woodworkers, besides miscellaneous woodworking machinery.

73 months' average.
86 months' averake.

Table 22.-ENAMELED WARE ${ }^{1}$

| Year and Monte | BATHS |  |  |  | LAVATORIES |  |  | SINKS |  |  | MISCELLANEOUS |  |  | TOTAL SMALL WARE ? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Shipments | Stocks, end mo. | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Unfilled orders, end mo. | Shipments | Stacks, end mo. | New orders | Shipments | Stocks, end mo. | New orders | Shipments | Stocks, end mo. | New orders | Unnilled orders, end mo. |
|  | Number of pieces |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1913 monthly av.. | 30,831 |  |  |  | 47,754 |  |  | $\begin{gathered} 53,428 \\ 57,789 \end{gathered}$ |  |  | 31, 555 |  |  |  |
| 1914 monthly av...- | 42,450 |  |  |  | 49,527 |  |  |  |  |  | 34,65529,367 |  |  |  |
| 1915 monthly av.... | 46,977 |  |  |  | 55,769 |  |  | 70,626 |  |  |  |  |  |  |
| 1916 monthly av... | 51, 181 |  |  |  | 65, 230 |  |  | 74,293 |  |  | 40,887 |  |  |  |
| 1917 monthly av. | 33, 172 |  | ${ }^{2} 21,980$ |  | 44, 888 |  | ${ }^{3} 30,063$ | 48,419 |  | ${ }^{3} 29,197$ | 22, 201 |  | ${ }^{\text {a }} 15,176$ |  |
| 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 | 288, 860 |
| 1920 monthly av... | 51,44141,510 | 20,951 | 35, 107 | 326, 490 | 51, 438 | 43,302 | 53, 438 | 60, 231 | 60,333 | 57, 502 | 31,062 | 47, 410 | 27,691 | 952, 334 |
| 1921 monthly av.- |  | 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 | 60,931 | 406, 291 |
| 1923 monthly av... | $\begin{aligned} & 90,396 \\ & 95,629 \end{aligned}$ | 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..-- |  | 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... | 90,595 | 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.-- | $\begin{aligned} & 94,267 \\ & 93,029 \end{aligned}$ | 156, 297 | 95, 572 | 41,972 | 104, 305 | 229,945 | 106, 019 | 109, 496 | 268, 582 | 111, 251 | 46,978 | 133, 868 | 46, 532 | 112, 930 |
| 1928 monthly av...- |  | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 111,067103,878 | 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... |  | 122, 167 | 96, 876 | 68, 263 | 114, 070 | 161,276 | 102, 140 | 116,497 | 216,338 | 96,830 | 54, 003 | 95, 858 | 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. | $\begin{aligned} & 68,783 \\ & 58,425 \end{aligned}$ | 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 |  | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\begin{aligned} & 82,897 \\ & 93,894 \end{aligned}$ | 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. |  | 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. | $\begin{aligned} & 89,388 \\ & 99,705 \end{aligned}$ | 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 ...-.............- |  | 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. | $\begin{array}{r} 99,705 \\ 101,050 \end{array}$ | 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.- | $\begin{aligned} & 77,374 \\ & 65,530 \end{aligned}$ | 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..... |  | 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. | 50,41746,715 | 166, 397 | 46, 374 | 41,776 | 66, 951 | 173, 570 | 56,899 | 68, 675 | 248, 685 | 63,073 | 28, 557 | 123, 138 | 27,606 | 152, 527 |
| December. |  | 163,728 | 52,592 | 40, 568 | 66, 300 | 155, 189 | 60,575 | 65,947 | 234, 340 | 55, 271 | 27, 642 | 122, 228 | 25,074 | 120,843 |
| $1930$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| February-. | 46, 204 | 178, 1723 | 64, 732 | -49,637 | 60,604 | 163,283 166,257 | 40, 836 101,866 | 58, 62,531 | 251,466 | 49, <br> 91,417 | 24,288 25,519 | 112,355 117,074 | 23,009 29,113 | 86,492 161,842 |
| March. | $\begin{aligned} & 59,887 \\ & 60,072 \end{aligned}$ | 179,910 | 68,672 | 56, 420 | 81, 226 | 170,666 | 85,929 | 79,997 | 248, 198 | 83, 357 | 33, 284 | 145, 345 | 36,638 | 167, 528 |
| April. |  | 182, 616 | 55, 366 | 51,740 | 74, 526 | 176, 181 | 66,605 | 75, 176 | 260, 237 | 70, 101 | 34, 212 | 145, 544 | 33,791 | 152, 304 |
| May | $\begin{aligned} & 59,554 \\ & 52,353 \end{aligned}$ | 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... |  | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1 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 Enameled Sanitary Ware Manufacturers Association, until its dissolution in February, 1928, after which all firms reported direct to the Bursau of the Census. A few small firms were unable to furnish complete reports prior to January, 1924 . Dats 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, Afetals and Machinery Section, pp. 36 to 39.
${ }_{2}$ Small ware includes iavatories, sinks, and miscellaneous.
${ }^{3} 9$ months' average, April to December, inclusive; previous data not available.

Table 23.-COPPER AND WIRE CLOTH*


* 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 .
Compiled by the American Bureau of Metal Statistica, 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 , compilod 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 Geolcgical 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 renners in North and South America. Domestic shipments (as distinguished from export) represent the movement or refined copper to the nited states from 12 ,resineries located in both North and south America. Stocks of blister copper of refined represent holdings at refineries in North and South America.
process. Compiled by the U. Se 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.
${ }^{3}$ Price of ingot copper, electrolytic, New York, based on averages of daily transaction compiled by the Engineering and Mining Journal-Press.
-Compiled by the Wirecloth Manufacturerg' 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.
' 9 months' average.

Table 24．－ELECTRICAL PRODUCTS

| Year and Monti |  | ELECTRICAL |  |  | LAMI－ <br> NATED <br> PHE－ <br> NOLIC <br> PROD－ <br> UCTS <br> Ship－ <br> ments | ELECTRIC MOTORS （direct current） <br> 1 to 200 H．P． |  | POWER sWITCHING EQUIPMENT ${ }^{\text {B }}$ <br> New orders |  | $\|$OUTLET <br> BOXES <br> COVD <br>  <br> Ship－ <br> ments | $\begin{aligned} & \text { VULCAN- } \\ & \text { FIBED } \end{aligned}$ |  | $\begin{aligned} & \text { INDUS- } \\ & \text { TRIAL } \\ & \text { RLE } \\ & \text { THES- } \end{aligned}$ | $\begin{aligned} & \text { ELECTRICAL } \\ & \text { TRADE: } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Shipments |  |  |  |  |  | $\frac{8}{g}$ |  |  |  |  |  |
|  | New orders | Stand- ard | Spectal | $\begin{aligned} & \text { High } \\ & \text { tension } \end{aligned}$ |  | $\begin{aligned} & \text { New } \\ & \text { orders } \end{aligned}$ | Ship－ ments |  |  | $\begin{aligned} & \text { In- } \\ & \text { door } \end{aligned}$ | Out－ door | $\begin{gathered} E \\ \frac{E}{E} \\ \hline \end{gathered}$ |  | Salcs |  |  |
|  | Thous． of dolls． | Dollars |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Number of } \\ \text { pieces } \end{gathered}$ |  | 咢家家家 | Units | Dollars | No．of firms |
| 1921 mo．av－ |  |  |  |  |  |  |  |  |  |  |  |  |  | 1\＄225，106 | 1，518 |
| 1922 mo．av． | \＄162， 472 |  |  |  |  |  |  |  |  |  |  |  |  | 202， 557 | 1，625 |
| $1923 \mathrm{mo} . \mathrm{av}_{-}$ | 215， 925 |  |  |  |  |  |  |  |  |  |  |  |  | 201，689 | 1，497 |
| 1924 mo．av． | 211， 139 | 10 \＄71，607 | ${ }^{10 \$ 217,346}$ | 118131,171 |  |  |  |  |  |  |  |  |  | 186，770 | 1，518 |
| $1925 \mathrm{mo} . \mathrm{av}^{\text {－}}$ | 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 | ${ }^{12} 1,457,461$ | \＄902 | 2，879 | ${ }^{13} 147,498$ | 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 | 12373， 704 | 1，371，679 | 987， 509 | 868， 767 | 169， 728 | 453， 555 | 2，532， 133 | 821 | 3，342 | 141， 276 | 168， 597 | 1， 195 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September－－ | 264，466 | 112， 210 | 129， 587 | 493， 067 | 1，243，476 | 957， 193 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| Fetruary． |  | 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， 044,570 | 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 | 307， 048 | 146， 189 | 354， 769 | 1，485， 610 | 599 | 2，576 | 132， 476 | 184， 652 | 1，170 |
| $\begin{gathered} 1930 \\ \text { January_. } \end{gathered}$ |  | 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 | 1，096 |
| July ．．． |  |  |  |  |  |  |  |  |  |  |  |  |  | 141， 162 | 1，106 |
| August |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September．－ <br> October |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Novernber． <br> December． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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．Quar－ terly data from 1922 through 1926 may be found in the Record Book of Business Statistics，Metals and Machinery Section， p ． 47 ．
${ }^{2}$ 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．
${ }^{3}$ Compiled by the National Electrical Manufacturers＇Association．This product is sold mostly in sheets，tubes，and cut panels and includes some material for noiseless 4 como gears．
， n 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．

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．
${ }^{7}$ Compiled by the National Electrical Manufacturers＇Association．Shipments are exclusive of intercompany sales．Consumption represents total valcanized fiber paper，both sheet and tube
${ }^{8}$ 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．
－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.

106 months＇average． 115 months＇average．$\quad 127$ months＇average．$\quad 139$ months＇average．$\quad 11$ months＇average，February to December，inclusive．

Table 25.-ELECTRICAL PRODUCTS ${ }^{1}$

${ }^{1}$ 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 885 per cent for March, 1928, and by 25 companies representing 95 per cent por cent of the industry from January, 1927 , to March, 1928 , and by 15 companies representing senting 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 aro 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. 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. Furthor details and segregation by states are shown in press releases. Similar data covering jobbers' stocks are also given in press releases of the bureau.
+11 months' average.
${ }^{5} 10$ months' average.
© Average for 2 quarters.
NUMBER OF ELECTRIC FANS SOLD ${ }^{1}$

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

[^5]Table 26.—TIN, ZINC, AND LEAD *

| $\begin{aligned} & \text { Year }_{\text {Montr }}^{\text {and }} \end{aligned}$ | TIN ${ }^{1}$ |  |  |  |  | ZINC ${ }^{\text {a }}$ |  |  |  |  |  | LEAD: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dellverles | Stocks, end of month |  | Imports, bars, blocks, ete. | Price, Straits York) | Retorts in operation, month month | Production (total mary) mary) | Stocks at refineries endmo | Ore shipments, Joplindistrict | Ore stocks, Joplín district, end mo. | Price, prime western(st. Louis) ${ }^{5}$ | Pro-duction | Oreshipments |  | $\underset{\text { in U.S. }}{\substack{\text { Re- } \\ \text { ceipts }}}$ ore | Stocks, U.S. and Mexico, end mo. | Price, pig, de-siverized (NewYork) |
|  |  | World visible | U.S. |  |  |  |  |  |  |  |  |  | Jopilin distriet | 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 |  |  |  | . 0878 |
| 1918 mo. av.. | 4, 862 | 13,894 | 288 | 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 | ${ }^{8} 38,838$ |  |  | . 0796 |
| 1921 mo. av...- | 2, 156 | 19,687 | 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 | 82, 152 | 36, 317 |  | . 0573 |
| 1923 mo. av.. | 5,846 | 21,740 | 2,667 | 5,745 | . 4271 | 84, 634 | 44, 267 | 20,042 | 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 | 30, 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, 802 | 100, 706 | . 0802 |
| 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 | 5,498 | . 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 | . 4518 | 66, 140 | 52, 568 | 48,930 | 51, 067 | 38,700 | . 0651 | 57,665 | 8,367 | 80, 952 | 54,862 | 163,836 | . 0683 |
| September | 6,885 | 19,924 | 3,508 | 8,222 | . 4807 | 61, 965 | 49,361 | 47, 015 | 41, 429 | 48,474 | . 0625 | 55, 167 | 9,326 | 65353 | 51,978 | 155, |  |
| October. | 6, 475 | 20,907 | 4, 598 | 8,048 | . 4901 | 59,832 | 50, 259 | 46,068 | 41, 165 | 53, 209 | . 0625 | 58,118 |  |  |  |  |  |
| November. | 7, 145 | 22,067 | 3, 603 | 6, 221 | . 5085 | 61, 544 | 50,260 | 46, 542 | 49, 248 | 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 |
| $\begin{gathered} 1989 \\ \text { January }-- \end{gathered}$ | 8,795 | 24, 237 | 2, 611 | 9,498 | . 4916 | 63, 698 | 50, 501 | 46, 887 | 48,777 | 27,309 | . 0635 |  | 097 |  |  |  |  |
| 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 | 5,521 | . 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 | 2,730 | 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 | 80, 545 | 51, 674 | 161, 671 | +0628 |
| 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 |
| $\begin{gathered} 1930 \\ \text { January-....... } \end{gathered}$ | 5,815 | 29, 032 | 3, 081 | 7,079 | . 3891 | 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 |  | . 2981 | 46,030 | 40, 038 | 117,381 |  |  | . 0435 |  |  | 45, 194 |  |  | . 0525 |
| August. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December...- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^6]Table 27.-MISCELLANEOUS METAL PRODUCTS AND OIL BURNERS


[^7]Table 28.-AUTOMOBLLES*

| $\begin{aligned} & \text { Year and } \\ & \text { Month } \end{aligned}$ | PRODUCTION ${ }^{1}$ |  |  |  |  |  |  | EXPORTS ${ }^{\text {a }}$ |  |  |  |  |  | GENERAL MOTORS <br> CORP. <br> Sales |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United States |  |  |  | Canada |  |  | United States |  |  | Canada |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Com | plete or | chassis | Compl | ete or ch | hassis | To dealers, inc. Camadian and overseas | United States |  |
|  |  | senger cars | $\left\lvert\, \begin{aligned} & \text { Taxi- } \\ & \text { cabs } \end{aligned}\right.$ |  |  | senger cars |  | Total | Passenger cars | Trucks | Total |  | Trucks |  | To consumers | $\underset{\text { Tealers }}{\text { To }}$ |
|  | Number of cars |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1913 mo. av. | 40,417 | 38,458 |  | 1,958 |  | 1,460 |  | 2, 241 | 2,157 | 84 |  | 500 |  |  |  |  |
| 1914 mo. $\mathrm{av}_{\text {- }}$ | 47, 421 | 45,307 |  | 2,115 |  | 1, 510 |  | 2, 147 | 1,861 | 286 |  | 468 |  |  |  |  |
| 1915 mo . $\mathrm{av}^{\text {- }}$ | 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, 812 | 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 | ${ }^{5} 297$ | 3,203 | 2,579 | 623 | 894 | 775 | 118 |  |  |  |
| 1922 mo. av ${ }^{\text {- }}$ | 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, 615 | 2, 279 | 4, 721 | 3,657 | 1,064 | 48,945 |  |  |
| 1925 mo . av.. | 355, 486 | 310,646 | 618 | 44, 222 | 13,498 | 11,298 | 2,200 | 25,244 | 20,359 | 4,885 | 6, 182 | 4,834 | 1,349 | 69,659 |  |  |
| 1926 mo . $\mathrm{av}_{-}$ | 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.. | 443, 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 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1929$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 | $\begin{aligned} & 404,063 \\ & 511,577 \end{aligned}$ | 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....-...- | $\begin{array}{r} 585,455 \\ 621,910 \end{array}$ |  | 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.-- |  | $535,878$ | 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 |  | 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, 371424,944 | 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 | $\begin{aligned} & 500,840 \\ & 498,628 \end{aligned}$ |  | 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 |  | 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 | $\begin{aligned} & 363,471 \\ & 318,462 \end{aligned}$ | $\begin{aligned} & 865 \\ & 868 \end{aligned}$ | 51, 576 | 13,817 | 10,710 | 3, 107 | 33, 919 | 20,934 | 12,985 | 6,641 | 4, 293 | 2,348 | 146,483 |  |  |
| October-.----- | $\begin{aligned} & 380,017 \\ & 217,573 \end{aligned}$ |  |  | 60, 687 | 14, 523 | 8,975 | 5,548 | 32, 443 | 20, 931 | 11, 512 | 9,637 | 5,635 | 4,002 | 122, 104 |  |  |
| November... |  | $\begin{array}{r} 167,846 \\ 91,011 \end{array}$ | $\left\{\begin{array}{l} 1,646 \\ 1,483 \end{array}\right.$ | 48, 081 | 9,424 | 7,137 | 2,287 | 25,815 | 13,929 | 11, 886 | 5,905 | 3, 522 | 2,383 | 60,977 |  |  |
| December---. | $120,007$ |  |  | 27,513 | 5,495 | 4,426 | 1,069 | 24, 741 | [3,831 | 10,910 | 4,866 | 3,015 | 1,851 | 40, 222 |  |  |
| $\begin{gathered} 1930 \\ \text { January }--.- \end{gathered}$ | 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 |
| Fehruary-.-.. | 346,940 | 296, 421 | 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, 204 |
| March ... | $\begin{array}{r} 401,313 \\ 443,038 \end{array}$ |  | 1, 389 | 64, 204 | 20,730 | 17, 165 | 3, 565 | 31, 090 | 22, 129 | 8,961 | B, 308 | 5,029 | 1,279 | 135, 830 | 123, 781 | 118, 081 |
| April...---.-.- |  | 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 ....---... | $\begin{gathered} 417,406 \\ 335,475 \\ \cdots \end{gathered}$ | $\begin{aligned} & 362,522 \\ & 289,245 \end{aligned}$ | $\begin{aligned} & 514 \\ & 459 \end{aligned}$ | 54, 370 | 24,672 | 21, 251 | 3,421 | 26, 542 | 16,876 | 9, 663 | 3,024 | 2,131 | 803 | 147, 483 | 131, 817 | 136, 169 |
| June |  |  |  | 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-..- | $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*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 .
of Commerce domestic automobiles produc of Commerce, Bureaut of the Census, including total membership of the National Automobile Chamber of Commerce. Foreign assemblies are included in these figures. Annual igures through 1921 represent production as compiled by the National Automobite Chamber of Commerce from the principal producers, covering close to 90 per cent of the 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 , isures have been furnished by the Department of Trade and Commerce, Dominion 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 A pril, 1928, issue (No. 80), p. 18. Taxicabs included with passenger cars prior to 1925.
${ }^{2}$ Automobile exports compiled by the $U . S$. Department of Commerce, Bureau of Foreign and Domestic Commerce.
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 Ohevrolet, 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.

49 months' average, April to December, inclusive.
${ }^{6} 6$ months' average, July to December, inclusive.

Table 29.-MOTOR VEHICLES


[^8]
## Table 30.-CRUDE PETROLEUM

| Yrar and Month | $\begin{aligned} & \text { PRO- } \\ & \text { DUC } \\ & \text { THON } 1 \end{aligned}$ | STOCKS ${ }^{2}$ (end of month) |  |  |  |  |  |  |  |  |  | MEXICO ${ }^{\text {a }}$ |  | VENEZUELA ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | East of California |  |  | California ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | Grand total | $\begin{array}{\|c\|} \begin{array}{c} \text { Tank } \\ \text { farms } \\ \text { and pipe } \\ \text { lines } \end{array} \\ \hline \end{array}$ | Refineries | Light | Heavy |  |  |  |  |  | Pro-duction | $\underset{\text { ports }}{\text { Ex- }}$ | Pro-duction | $\underset{\text { ports }}{\text { Ex- }}$ |
|  | Thousands of barrels |  |  |  |  |  |  |  | $\left\|\begin{array}{c} \text { P.c. } \\ \text { ca. } \\ \text { pac. } \end{array}\right\|$ | 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 |  |  | . 788 | 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 | 1031, 550 | 1048, 470 | 6,835 | 48,437 |  | 1. 439 | 1,357 | 12, 465 | 11,301 | 350 | 276 |
| 1924 monthly average. | 59, 485 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May... | 84, 415 | 379,542 | 330, 984 | 48, 558 | 29,934 | 102, 177 | 7, 552 | 84, 420 | 81 | 1. 158 | 1,200 | 3,635 | 2,023 | 12,038 | 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 | 388, 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 79,453 | 379, 826 | 335, 318 | 44, 508 | 41,868 | 107, 123 | 5,450 | 80, 163 | 71 | 1. 229 | 1,060 | 3,718 | 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 | 10,724 | 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 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September October |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 ), $p .77$.
Department of the Interior. Tank-farm stocks include total stocks at pipelines and tank farmerly carried on by the Bureau of Mines and the Geological survey under the December, 1924; since then California stocks are not included. Refinery stocks since January, 1923, the figures on tank-farm stocks included topped oil and imported oil at refinary, 1925, represent only the stocks at refineries east of California. prior to was slight. Tbis old method of socuring 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 rcpresent approximate net stocks for comparison with later figures. Refneries' 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 tem 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.
a large amount of manufactured fuel oill, for which reason California figures can not be combined with data for the courntry east gravity below $20^{\circ}$; heavy crude data include 4 arge amount of manufactured fuel oil, for which reason California figures can not be combined with data for the country east of California.
${ }^{4}$ 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 previous month's figures are comparable.
${ }^{\circ}$ 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.
${ }^{6}$ Wholesale price of Kansas-Oklahoma crude oil at wells is average for the month as compiled by the U. S. Depariment of Labor, Bureau of Labor Statistics.
${ }_{8}$ 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. 8 Compiled by the Mexican Government, Secretary of Industry, Commerce and Labor, Petroleum Department, and published in the Boletin deb Petroleo. Current figures. all derivatives therefrom. All data have been converted from cubic meters to the comparable barrel basis.
${ }^{\bullet}$ 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. ${ }_{10}$ A verage of 7 months, June to Decomber, inclusive.

Table 31.-GASOLINE AND KEROSENE

${ }^{1}$ 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. Fhe ning with June, 1923, while consumption figures since that time take account of this change in stocks.
${ }^{2}$ 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 Phillippinie Islands to agree with data by the Bureau of Mines.
${ }^{3}$ 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.
'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.
${ }_{s}$ 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. 27.1 These earlier totals are not comparable with those now published owing to the smaler number of states included. Prior to May, portion 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.

- 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 of Louisiana figures and the exclusion of estimates for Indiana, the totals presented here do not agree with those previously published.
${ }^{7} 6 \mathrm{month} \mathrm{s}^{\prime}$ average, July-December, inclusive.

Table 32.-OTHER PETROLEUM PRODUCTS


1 Compiled by the U. S. Department of Commerce, Burean 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.
2 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 .
${ }^{3}$ 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 Marh, 1925 , 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.

4 Compiled by the Interstate Commerce Commission from reports of 174 steam railroads of Class I, not including switching and terminal companies, and excluding fuel din switching locomotives. Monthly data from 1921 appeared in January, 1926 , issue (No. 53), p. 23 .
1 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, 600 D ; filtered in tank cars at refinery, and monthly data from 1923 may be found in the November, 1927 , issue (No. 75 ), p. 27.
${ }^{6}$ Compiled by the $U$. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, representing imports of foreign native asphalt. Imports have been

Table 33.-CRUDE AND SCRAP RUBBER

${ }^{1}$ 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
${ }_{2}^{2}$ Compiled by the $W_{\text {orld }}{ }^{\prime}$ 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.

Imports of rubber, including latex, into the United States compiled by the U. S. Depariment of Commerce, Bureau of Foreign and Domestic Commerce
Compiled by the U.S. Department of Commerce, Bureau of Foreign and Domestic Comnerce, 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.
${ }^{5}$ 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.

Table 34.-TIRES AND RUBBER-PROOFED FABRICS

| $\underset{\substack{\text { Year and } \\ \text { Month }}}{\text { chen }}$ | AUTOMOBILE TIRES |  |  |  |  |  |  |  |  |  |  |  |  |  | RUBBER-PROOFED FABEICS ${ }^{\text {2 }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pneumatic tires |  |  |  | Inner tubes |  |  |  | Solid tires and cushions |  |  |  | Raw material consumed |  | Production |  |  |  | $\begin{array}{\|c\|} \hline \text { Calendered } \\ \text { rubber clothing } \end{array}$ |  |
|  |  |  | Shipm | ients |  |  | Shipm | ents |  |  |  | 1离 |  |  | $\begin{aligned} & \text { ت} \\ & \stackrel{7}{8} \\ & E \end{aligned}$ |  |  | $\begin{aligned} & \text { ! } \\ & \frac{0}{3} \\ & \frac{6}{4} \end{aligned}$ |  | 䘡 |
|  | Thousands |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Thousands of } \\ & \text { pounds } \end{aligned}$ |  | Thousands of yards |  |  |  | Number of coats and sundries |  |
| 1921 mo. av -- | 1,821 | 4,321 | 1,205 | 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 | ${ }^{8} 65$ |  |  |
| 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, 953 | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September... | 5,101 | 7,324 | 5, 191 | 188 | 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 | 41,804 | 2,348 | 567 | 984 | 797 | 76,014 | 36, 363 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 56,881 | 4,409 | 1,199 | 1,48 | 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 |
| $\begin{array}{r} 1930 \\ \hline \end{array}$ | 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 | 208 | 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 |
| A.pril--- | 4, 518 | 10,401 | 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 |
| August.----- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October----- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November.. December... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^9]Table 35.-OTHER RUBBER PRODUCTS

${ }^{1}$ 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 manufactures. Only salable heels are included, none so imperfect as to result in their being reciaimed. Details by kinds 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.
${ }^{2}$ 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 manufactures. Details by classes are shown in the association's reports

3 Includes tubing, packing, mats and matting (except tiling), molded goods, lathe-cut goods, and miscellaneous, but excludes jar rings, tapes, and thread.
a 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 associat ion's reports.
Compiled hy 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 Pullman-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.

68 months', average, April through December.
I 3 months' average, October through December.

Table 36.-HIDES AND SKINS

${ }^{1}$ 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 .
${ }_{3}^{2}$ Compiled by the Compiled Sy Department of Commerce, Bureau of Foreign and Domestic Commerce.
${ }^{3}$ Compiled by the $\dot{U}$. 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 Cen sus, 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.

Data from U. S. Department of Labor, Bureau of Labor Statistics, representing average monthly prices.
${ }^{6}$-year monthy average, 1910-1913.

Table 37.-LEATHER AND LEATHER PRODUCTS

${ }^{1}$ 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.

I 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 manutacturers. 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, whieh takes several months to complete, while inished stocks are those completely tanned.
${ }^{1}$ 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.

Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, representing average monthly prices at tanneries in 6 principal centers.
Compiled by the U.S. Department of Commerce, Bureau of the Census, from over 1,000 firms eaeh month, comprising almost the entire industry. Figures for the years 1914, 1919, and 1921 are those reported by the census of manufactures 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
representing 87 per cent of the leather-plove 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 manufactures, 1921. Details by classes are given in monthly press releases.

7 Average for last 4 months of year.

Table 38.-NEWSPRINT PAPER


[^10]Table 39.-BOOK PAPER AND PRINTING


1 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 broduction figures tbe 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.
${ }_{2}$ 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.
a 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.
*Compiled by the United Typothets of America, representing the activity of job printing plants in 52 cities in 30 States, based on the productive hours of each depart. ment, the departments being weighted by their relative importance. Monthly data from 1922 appeared in the November, 1927 , issue (No. 75 ), $p .25$.
${ }^{3}$ Compiled by the Continuous Fold Printers Associatıon, 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.

- 11 months' average, February to December, inclusive.

Table 40.-PAPER BOARD AND BOXES


1 Compiled by the Binders Board Manufacturers' Association, from reports of 6 firms (including in previous years firms since consolidated or out of binsiness), the association's output representing 84 per cent of the total output of the industry in 1925 , according to the census of manufactures.
${ }^{2}$ 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 tor making boxes. Similar paper board designed for making specialites 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.
data almost completely cover the box-board industry.
${ }^{3}$ 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 iber 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
 http://fraser.stloworenaenthes.

Table 41.-WRAPPING, FINE, AND TOTAL PAPER ${ }^{1}$

| Year andMonth | WRAPPING PAPER |  |  |  | WRITING (FINE) PAPER |  |  |  | ALL OTHER GRADES |  |  | TOTAL PAPEE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production |  | Shipment | Stocks, end of month | Production |  | Shlpments | Stocks, end of month | Pro-duction | Shlpments | Stocks, end of month | Production |  | Shipments | Stocks, end of month |
|  | Actual | $\left\lvert\, \begin{gathered} \text { Rat } \\ \text { to to } \\ \text { cas- } \\ \text { pac. } \end{gathered}\right.$ |  |  | Actual | Ra- <br> lio to <br> cas- <br> pac. |  |  |  |  |  | Actual | Ra- <br> tio to <br> ca- <br> pac. |  |  |
|  | Short tons | Per cent | Short tons |  |  | Per cent | Short tons |  |  |  |  |  | Per cent | Short tons |  |
| 1917 mo. av- | 60,626$.59,500$ |  | 57,946 | 53, 551 | 24,030 |  | 23,578 | 32,500 | 70,658 | 69, 422 | 41,093 | 493, 304 |  |  | $\begin{aligned} & 238,113 \\ & 189,240 \end{aligned}$ |
| 1918 mo. av |  |  | 60, 588 | 37, 664 | 30,668 |  | 30,495 | 29,308 | 77,757 | 78, 619 | 29,308 | 504, 294 |  |  |  |
| 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 | 31,34130,810 |  | 30,511 | 43, 913 | 90,63092,752 | 89,57095,767 | 53,27957,811 | $\begin{aligned} & 594,996 \\ & 618,946 \end{aligned}$ | .. |  | $\begin{array}{r} 278,239 \\ 345,203 \end{array}$ |
| 1924 mo. av. | 84, 639 |  | 83,470 | 108,635 |  |  | 30,512 | 50, 278 |  |  |  |  |  | 617, 479 |  |
| 1925 mo . av. | 90, 615 |  | 93, 822 | 99, 577 | 37,410 |  | 37,345 | 50,650 | 99,737 | 99, 127 | 62, 855 | 660, 114 | -....- | 662, 096 | $353,290$ |
| 1926 mo. av- | 89, 582 |  | 90,41688,122 | 68,741 | 38,259 |  | 38,03537,321 | 51,571 | 102, 790 | 102,755 | 74, 312 | 693, 346 | ....-- | 693, 259 330,267 |  |
| 1927 mo. av | 90,596 | 185 |  | 75, 621 | 37, 226 | 291 |  | $\begin{aligned} & 50,564 \\ & 53,499 \end{aligned}$ | $\begin{array}{r} 99,825 \\ 102,379 \end{array}$ | $\begin{array}{r} 99,455 \\ 101,962 \end{array}$ | $\begin{aligned} & 70,436 \\ & 87,211 \end{aligned}$ | 668, 829 | $\begin{array}{r}282 \\ 85 \\ \hline\end{array}$ | 664,854 341,254 <br> 703  |  |
| 1928 mo. av | $\begin{aligned} & 93,598 \\ & 88,883 \end{aligned}$ | 87 | 92, 605 | 93, 141 | 38, 230 | 87 | 37,775 |  |  |  |  | 706, 576 |  | 703,220 379,147 <br> 727,070 355,124 |  |
| 1929 mo. av |  | 83 | 89, 267 | 87, 143 | 38,996 | 89 | 38,755 | 49, 489 | 102, 613 | 101, 680 | 58,293 | 727, 872 |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May.. | 97,793 | 87 | 94, 761 | 96,802 | 40,904 | 87 | 40, 863 | 53,791 | 107, 475 | 105, 705 | $\begin{aligned} & 71,569 \\ & 71,006 \end{aligned}$ | $\begin{aligned} & 751,619 \\ & 711,686 \end{aligned}$ | 83 | 731; 340 | 393, 406 407, 687 |
| June. | 90, 577 | 84 | 89,309 | 98,344 | 38, 225 | 84 | 38,875 | 53,155 | 104, 725 | 104, 977 |  |  | 82 | 700, 514 |  |
| July. | 88, 477 | 86 | 94, 228 | 92,467 | 33,984 | 80 | 34, 562 | 53, 156 | 95,469 | 96,056 | 70,578 | $\begin{aligned} & 651,529 \\ & 735,099 \end{aligned}$ | $83$ | $\begin{aligned} & 674,352 \\ & 734,943 \end{aligned}$ | 407, 687 396, 122 396, 137 |
| August. | 100, 779 | 89 | 100, 174 | 93,340 | 39,331 | 84 | 38,938 | 53, 535 | 110,677 | 109, 154 | 72,438 |  |  |  |  |
| September.. | 83,582 | 84 | 80, 173 | 91,977 | 34,885 | 80 | 34, 885 | 53,361 | 100, 138 | 102, 437 | 70,140 | 670,124$\mathbf{7 5 7 , 3 4 4}$ | 81 | 688,228759,990 | 381,356372,365 |
| October-.. | $\begin{aligned} & 96,907 \\ & 91,249 \end{aligned}$ | 8587 | 94,900 | 93, 416 | 39,68037,463 | 84 | 39,839 | 53,788 | 112,529 | 115, 563 | 61,340 |  | 83 |  |  |
| November |  |  | 91, 286 | 93, 203 |  | 88 | 36,676 | 54, 418 | 102, 703 | 101, 483 | 63,578 | 726, 775 | 87 | 718, 345 | 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 | 663, 163 | 388, 545 |
| $\begin{array}{r} 1929 \\ \text { January... } \end{array}$ |  |  |  |  |  | 93 | 40,522 | 50, 934 | 106, 157 | 104, 445 | 62,902 | 759, 719 | 91 | 750, 523 | 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 | 695, 762 | 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 | 764, 873 | 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 | 747,793 | 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 | 767, 888 | 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 | 705, 238 | 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 | 709, 723 | 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 | 757, 761 | 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 | 704, 970 | 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 | 780, 172 | 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 | 715, 163 | 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 | 628, 534 | 345, 819 |
| $\begin{array}{r} 1930 \\ \text { January... } \end{array}$ | 84, 693 | 79 | 86, 133 | 82,616 | 41,234 | 92 | 42,099 | 54, 573 | 98, 057 | 95, 211 | 63,546 | 734, 851 | 87 | 719, 771 | 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 | 684, 458 | 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 | 679, 060 | 390,817 |
| April.-- | 86, 561 | 88 | 87, 080 | 80,421 | 41, 133 | 87 | 38, 088 | 58, 337 | 96, 160 | 92, 072 | 66,858 | 715,857 | 81 | 694, 648 | 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 | 689, 756 | 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 | 641,370 | 435, 681 |
| July ....... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August..-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October.- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December....- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 1023, 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; 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, 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 Seroice and, after May, 1923, the figures on book paper compiled by the American Paper and Pulp Association, the agures on newsprint as compiled by the Newsprint Seroice Bureau, and the figures on box board as compiled by the 0 . 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 perlatter figures were not compled, the paper-board figures of the American Paper and Putp Association have been used, prorated up to complete production by the per-
centages 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 centages which they ore to the box-board igures in 1924, or 60 per cent on production and 73 per cent in stocks. Stock figures represent paper at mills only. 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.
; 5 months' average, September to December, inclusive.

Table 42.-WOOD PULP AND PAPER PRODUCTS

| Year and Monti | WOOD PULP |  |  |  |  |  |  |  |  | ABRASIVEPAPER ANDCLOTH |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mechanica ] |  |  |  | Chemical |  |  |  |  |  |  |  |
|  |  | Con- |  |  |  | Con |  |  | Price, |  |  |  |
|  | Production ${ }^{3}$ | sumption and shipmonts | Stocks, end of month ${ }^{\text {B }}$ | $\operatorname{Im-~}_{\text {ports }}$ | Production ${ }^{8}$ | sump- <br> tion and shipments | Stocks, end of month | $\underset{\text { ports }}{\text { Im- }}$ |  | $\begin{gathered} \text { Do- } \\ \text { mestic } \end{gathered}$ | Foreign | $\begin{aligned} & \text { Ship- } \\ & \text { m't. } \end{aligned}$ |
|  | Short tons |  |  |  |  |  |  |  | Dolls. per 100 lbs. | Reams |  |  |
| 1900-1913 monthly average_- |  |  |  | 16,463 |  |  |  | 25,521 |  |  |  |  |
| 1913 monthly average...---- | 106, 824 |  |  | 13,991 |  |  |  | 31, 130 | \$2.23 |  |  |  |
| 1914 monthly average |  |  |  | 18, 105 | 129,325 |  |  | 38,092 | 2.16 |  |  |  |
| 1915 monthly average. |  |  |  | 14, 505 |  |  |  | 32,860 | 2.12 |  |  |  |
| 1916 monthly average. | $\begin{aligned} & 125,678 \\ & 120,589 \end{aligned}$ |  | 112, 145 | 21,876 | 160, 572 |  | 25, 855 | 35, 104 | 3.81 |  |  |  |
| 1917 monthly average. |  | 117, 804 | 145, 567 | 23,256 | 159,375 | 157, 797 | 44, 799 | 33, 231 | 4.81 |  |  |  |
| 1918 monthly a verage. | $\begin{aligned} & 108,617 \\ & 120,817 \end{aligned}$ | 109,817 | 131, 170 | 15,457 | 158,008 | 158,930 | 33, 671 | 32,728 | 3.84 |  |  |  |
| 1919 monthly a verage.. |  | 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... | $\begin{aligned} & 105,668 \\ & 123,495 \end{aligned}$ | 106, 214 | 166, 889 | 15,895 | 127, 786 | 127, 467 | 53,411 | 42, 196 | 3. 50 | 47,957 | 4,379 | ${ }^{\circ} 100$ |
| 1922 monthly average |  | 127, 802 | 136, 664 | 17,984 | 165, 198 | 166, 438 | 52,518 | 86,869 | 2.56 | 72,394 | 8,836 |  |
| 1923 monthly average.... | $\begin{aligned} & 123,495 \\ & 131,073 \end{aligned}$ | 131, 266 | 95,900 | 25,007 | 185, 253 | 200,642 | 62,472 | 89,745 | 2.97 | 86,916 | 10,943 |  |
| 1924 monthly average.. | $\begin{aligned} & 145,727 \\ & 142,464 \end{aligned}$ | 139,796 | 195, 007 | 20,493 | 199, 140 | 200, 793 | 58,492 | 106,400 | 2. 58 | 79,002 | 10,165 |  |
| 1925 monthly average.. |  | 143, 569 | 225, 804 | 27, 591 | 205, 785 | 206, 147 | 41,335 | 111,044 | 2.68 | 86,891 | 12,435 |  |
| 1926 monthly average. | 142,464 154,083 | 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. | 133,827133,629 | 136, 436 | 152, 378 | 20,907 | 215, 261 | 215, 827 | 43,361 | 124, 460 | 2.52 | 90, 859 | 18, 580 | 99 |
| 1929 monthly average.-. |  | 138,886 | 130,903 | 22,789 | 229, 033 | 228, 570 | 37,009 | 134, 649 | 2.54 | 89, 023 | 20,630 | 94 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 147,640162,042 | 136, 880 | 141, 557 | 16,481 | 231, 836 | 231, 526 | 37, 638 | 85, 074 | 2.45 | 101,845 | 22, 194 | 90 |
| April.-----...........-....... |  | 142, 920 | 160,875 | 23,314 | 233, 742 | 234, 638 | 36, 150 | 123,757 | 2.45 | 98, 394 | 24, 642 | 83 |
| May | $\begin{aligned} & 166,375 \\ & 142,915 \end{aligned}$ | 148, 251 | 178, 963 | 21,044 | 241, 354 | 242, 254 | 34, 112 | 121,989 | 2.49 | 95, 224 | 26, 040 | 81 |
| June... |  | 136, 669 | 185, 209 | 24,014 | 225, 940 | 223, 016 | 36, 188 | 153, 956 | 2.53 | 90,355 | 16,698 | 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.- | $\begin{aligned} & 102,202 \\ & 122,923 \\ & 122,166 \\ & 126,523 \end{aligned}$ | 133, 514 | 106, 669 | 20,660 | 218,980 | 219, 842 | 35,796 | 134, 533 | 2. 60 | 99, 221 | 17,819 | 95 |
| October- |  | 146,600 | 88,762 | 27, 020 | 245, 072 | 244, 992 | 35,916 | 145,878 | 2.60 | 91,782 | 24, 238 | 115 |
| November.. |  | 140, 240 | 70, 688 | 21, 223 | 227, 996 | 225, 444 | 37,554 | 144, 178 | 2. 60 | 69, 103 | 24, 134 | 102 |
| December. |  | 129, 623 | 67, 588 | 36, 186 | 214,068 | 212, 880 | 37, 962 | 133, 250 | 2. 60 | 50,771 | 20,628 | 86 |
| 1930 | 142, 617 |  |  |  |  |  |  |  |  |  |  |  |
| January - |  | 144, 498 | 65, 706 | 28, 423 | 237, 226 | 237, 442 | 36,786 | 171,463 | 2. 60 |  |  | 103 |
| February.- | $\begin{aligned} & 136,898 \\ & 163,392 \end{aligned}$ | 131, 389 | 71, 215 | 39, 105 | 223, 178 | 220, 216 | 37, 414 | 178, 802 | 2.60 |  |  | 96 |
| March |  | 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 | $\begin{aligned} & 162,911 \\ & 138,997 \end{aligned}$ | 136, 293 | 147, 710 | 17,432 | 231, 134 | 225, 362 | 44, 622 | 100, 246 | 2. 48 |  |  | 80 |
| June. |  | 124,770 | 159, 294 | 18,534 | 211, 620 | 205, 862 | 45,306 |  | 2.48 |  |  | 87 |
| July |  |  |  |  |  |  |  |  | 2. 48 |  |  |  |
|  | ---------- |  |  |  |  |  |  |  |  |  |  |  |
| September $\qquad$ <br> October. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| October. <br> November. $\qquad$ | ---.------- |  |  |  |  |  |  |  |  |  |  |  |
| November. <br> December_ | $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 , fint 32 , and artificial 20 per cent. Details are given in the association's reports.
and 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.
thereater therearter 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:
echanicar pulp, 65 per cent; chemical pulp, 50 per cent.
4 Imports from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
o Price of sulphite domestic wood pulp is monthly average from U. S. Department of Labor, Bureau of Laber Statistics.

- 12 months' average July, 1921, to June, 1922. Numerical data not furnished by the association.

Table 43.-BUILDING COSTS AND HOUSING

${ }^{1}$ 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.
${ }^{2}$ This index number, furnished through the courtesy of the Aberthaw 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 Aforton 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.
${ }_{3}$ 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 , atter 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 umber, 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.

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. Quarteriy data, 1920 to 1923 , inclusive, appeared in October, 1925 , issue of the Survey (No. 50), p. 26 . s Compiled by the Associated General Contractors of A merica, combining indexes of wages and materials in the proportion of 40 per cont 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 Buildmaterials, 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
erg ers
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-hal), 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.

6 Compiled by the Associated General Contraclors 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 or 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.
${ }^{7}$ 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.
${ }^{8}$ Compiled by the National Board of Underwititers 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.
${ }^{\circ}$ 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 he periodical since 1924. Monthly data from 1909 appeared in the December, 1927 , issue of the SURVEV (No. 76), p .48.
${ }^{10}$ 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 ized for FRofacitity for that month.

Table 44.-BULLDING AND ENGINEERING CONSTRUCTION ${ }^{1}$

${ }^{1}$ Compiled by the $F$. W. Dodge Corporation from actual contract records in the 37 States easf of the Rocky Mountains, estimated te 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.

$$
5499^{\circ}-30-5
$$

Table 45.-BULDING AND ENGINEERING CONSTRUCTION ${ }^{1}$ (Continued)

| Year and Month | CONTRACTS AWARDED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | UNITED STATES (3y States) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Public buildings |  |  | Religious and memorial buildings |  |  | Social and recreational buildings |  |  | Besidential buildings-all types ${ }^{2}$ |  |  | Public works and utilities ${ }^{3}$ |  |  |
|  | Number of project | Thous. sq. ft. | Thous. dolls. | Number of project | Thous. sq. ft. | Thous. dolls. | $\left\lvert\, \begin{gathered} \text { Num- } \\ \text { ber of } \\ \text { projects } \end{gathered}\right.$ | Thous. sq. ft. | Thous. dolls. | Number of project | Thous. sq. ft. | Thous. dolls. | $\left\lvert\, \begin{gathered} \text { Num- } \\ \text { ber of } \\ \text { projects } \end{gathered}\right.$ | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 148,697 |
| 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 |
| Januery 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January .- | 69 56 | 796 | 4,950 1,454 | 121 | 494 773 | 4,383 6,184 | 138 | 914 1,433 | 6,755 14,994 | 6,905 | 29,307 27,260 | 138,069 129,486 | 670 684 | 605 836 | 66,522 57,593 |
| February | 56 | 214 | 1,454 | 116 | 773 | 6, 184 | 155 | 1,433 | 14,994 | 6,414 | 27, 260 | 129, 486 | 684 1,186 | 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 | I, 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 | 109, 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 | 11,398 | 4,180 | 17,773 | 114, C50 | 802 | 657 | 51, 821 |
| January 1930 | 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 | 10,083 | 208 | 1,131 | 10,374 | 280 | 1,416 | 10,416 | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Septembe October. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nobember |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dccember. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^11]Table 46.-DOUGLAS FIR, HEMLOCK, AND REDWOOD LUMBER


[^12]
## Table 47.-YELLOW PINE LUMBER

| Year and Month | SOUTHERN PINE ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  | NORTH CARO- |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Pro- } \\ & \text { duc- } \\ & \text { tion } \end{aligned}$ | $\left\lvert\, \begin{gathered} \text { Op- } \\ \text { era- } \\ \text { erions } \end{gathered}\right.$ | Shipments | New orders | Stocks, end of month | Unfilled orders, end mo. | Exports ${ }^{\text {a }}$ |  | Price, floorIng ${ }^{4}$ | Pro-duction | Shipment́s |
|  |  |  |  |  |  |  | Lum- | $\underset{\text { ber }}{\text { Tim: }}$ |  |  |  |
|  | $\begin{aligned} & \text { M it. } \\ & \text { b. m. } \end{aligned}$ | $\begin{aligned} & \text { P.ct. } \\ & \text { full } \\ & \text { time } \end{aligned}$ | Thousands of feet, board measure |  |  |  |  |  | Dolls. <br> M ft . <br> 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, 031 |  | 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 | ${ }^{6} 302,881$ | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 69, 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, 095 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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, $484,065,392$ ieet, 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 or the industry the resulting fgures 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. Unfiled 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 rom 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 Monthly data for 1921 and 1922 appeared on page 59 of the October, 1923 , issue (No.
data on unflled orders from 1926 appeared in the April, 1928, issue (No. 80 ), p. 22.
${ }^{2}$ 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.
${ }_{3}$ 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), $\mathrm{p}_{\text {. }}$ 56. Lumber exports comprise boards, planks, and scantlings, rough and dressed, and exclude short-leal pine and all other not long-leaf or pitch pine. Timber exports include both treated and untreated, sawed, and exclude logs and round timber.

4 From U. S. Department of Labor, Bureau of Labor Statistics, and represent average weekly prices for yellow-pine flooring, grading $\mathbf{B}$ and better, at Hattiesburg, Miss.
55 months' average, August to December, inclusive.

Table 48.-OTHER PINE LUMBER

${ }^{1}$ 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. ${ }^{2}$ Compiled by the California White and Sugar Pine Association from reports of from 13 te 26 mills prior to 1926; thereafter from 18 identical mills, except for stock a are by a varying number of mills.
mills hat 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

| $\begin{aligned} & \text { Year and } \\ & \text { MONTH } \end{aligned}$ | TOTAL ${ }^{1}$ |  |  |  |  |  | GUM ${ }^{1}$ |  |  | OAK ${ }^{1}$ |  |  | WALNUT ${ }^{\text {P }}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Stocks, end of month |  |  | Stocks, end of month |  |  | Stocks, end of month |  |  | Lumber ${ }^{2}$ |  |  |  |  | Logs |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Made |  |
|  |  |  |  | Total | Unsold |  | Tha- | $\begin{array}{\|l\|} \hline \text { Un- } \\ \text { sold } \\ \hline \end{array}$ |  | $\begin{gathered} \text { To- } \\ \text { tal } \end{gathered}$ | $\begin{aligned} & \text { Un- } \\ & \text { sold } \end{aligned}$ |  |  |  | ha |  | orders |  | $\begin{gathered} \text { ber } \\ \text { and } \\ \text { veneer } \end{gathered}$ | 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 | 32,111 | ${ }^{3} 4,207$ | 2, 410 | 2, 114 | 3,282 |
| 1924 mo. av |  |  |  | 82,639 | 3 2,058 | 3557 | 3501 | ${ }^{3} 385$ | ${ }^{3} 115$ | ${ }^{9} 933$ | ${ }^{8} 732$ | ${ }^{3} 186$ | 3,529 | 3, 144 | 11,463 | 3,359 | 5,652 | 2, 641 | 2, 727 | 3, 106 |
| 1925 mo . av. | ${ }^{8} 296$ | ${ }^{3} 314$ | ${ }^{9} 341$ | 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 | 586 | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 283 | 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, 788 | 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 | 568 | 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 | く, 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 |
| $1929$ <br> 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, 268 | 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 |
| $\begin{array}{r} 1930 \\ \text { January-.-. } \end{array}$ | 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... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1 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 unflled 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.
${ }^{2}$ 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.
' 6 months' average, July through December.

Table 50.-TOTAL LUMBER AND FLOORING


1 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. try. The data for the period $1919-1922$ include reports from 20 ident
Monthly data from 1920 appeared in July, 1922 , issue (No. 11), 43 .
Monthly data
2 Compled 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 fooring in 1927. Monthly data from 1912 appeared in May, 1924, issue (No. 33), p. 36.
${ }^{3}$ Exports consisting of boards, planks, and scantlings are from U. S. Department of Commerce, Bureau of Foreign and Domearic Commerce.

- Exports consisting of boards, planks, and scantlings are from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. 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.

Compiled by the Federal Reserve Bank of Kansas City from reports of approximately 199 retail yards in the tenth Federal reserve district.
${ }^{6} 7$ months' average, June to December, inclusive.

Table 51.-FURNITURE AND MISCELLANEOUS HARDWOODS


[^13]Table 52.-LUMBER PRODUCTS

| Year and Monti | PLYWOOD |  |  |  |  |  |  |  | $\begin{aligned} & \text { ROTARY- } \\ & \text { VEUEER } \end{aligned}$ |  | BUSHEL BASKETS * |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Douglas Fir Plywood ${ }^{1}$ |  |  |  |  | Other Plywood ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
|  | $\begin{array}{\|c} \text { Pro- } \\ \text { duction } \end{array}$ | Shipments | New orders (sales) | Unfilled orders, end of month | Stocks, end of month | New orders | Shipments | Unfilled orders, end of month | $\underset{\text { ceipts }}{\text { Re- }}$ | Pur- | $\begin{gathered} \text { Pro- } \\ \text { duction } \end{gathered}$ | Shipments | Stocks, end of month |
|  | Thousands of square feet surface |  |  |  |  |  |  |  | Number of carloads |  | Dozens |  |  |
| 1925 menthly average |  |  |  |  |  | 84,463 | 84,695 | 85,781 |  |  |  |  |  |
| 1926 monthly average. |  |  |  |  |  | 3,595 | 3,905 | 4,646 | ${ }^{6} 192$ | 192 |  |  |  |
| 1927 monthly average. |  |  |  |  |  | 2, 876 | 2,913 | 3,303 | 98 | 97 | 226, 278 | 213, 507 | 435,709 |
| 1928 monthly average. | ${ }^{7} 9,922$ | ${ }^{7} 9.615$ | ${ }^{7} 10,043$ | ${ }^{8} 7,169$ | ${ }^{8} 7,584$ | 3,428 | 3,049 | 4,387 | 185 | 206 | 180,976 | 186, 218 | 494, 322 |
| 1929 monthly average |  |  |  |  |  |  |  |  | 206 | 229 | .-......-. |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 355 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
|  | 11,823 | 13, 295 | 204529 | 16,904 | 4,722 | 5,428 | 4,876 | 6,053 | 143 | 451 | 187, 881 | 140, 205 | 480, 769 |
|  | 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 |
|  | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December.- | ---......... |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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.
Compiled building teneers into plywood of from 3 to ssociation 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.
try, concerning their purchases and receipts of rotary cut veneer for the manufacture of wire-bound boxes Details by sizes and sources are given in 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. reports also contain data on other kinds of baskets.
$\delta 9$ months' average, April to December, inclusive.
88 months' average, May to December, inclusive. $\quad{ }^{7} 6$ months' average, July to December, inclusive. ${ }^{8} 7$ months' average, June to December, inclusive.

Table 53.-BRICK, TLLE, AND TERRA COTTA

| Year and Month | COMMON BRICK ${ }^{1}$ |  |  |  |  |  | FLOOR AND WALL TILE ${ }^{2}$ |  |  |  | $\begin{aligned} & \text { TERRA } \\ & \text { COTRA } \end{aligned}$ |  | FACE BRICE ${ }^{\text {a }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stocks, end of month |  | Shlp. ments | Unfilled orders, month | Wholesale price, red, N. Y. ${ }^{\text {s }}$ | Pro-duction | Shipments |  | Stocks,end ofmonth | New orders |  | 䭴 |  | $\left\|\begin{array}{c} \text { Stocks } \\ \text { end } \\ \text { of } \\ \text { month } \end{array}\right\|$ | Unfilled orders, end of month |
|  |  | Burned | $\underset{\text { burned }}{\text { Un- }}$ |  |  |  |  | $\underset{\text { Quan- }}{\text { Quan }}$ | Falue |  | $\begin{aligned} & \text { Quan- } \\ & \text { tity } \end{aligned}$ | Value |  |  |  |  |
|  | $\left\|\begin{array}{c} \text { Num } \\ \text { ber } \end{array}\right\|$ | Thousands of brick |  |  |  | Dolis. per thous | Thous. of sq. ft. |  | Thous. of dolls. | Thous. of $\mathrm{sq} . \mathrm{It}$ | Short tons | Thous. | ] 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 | ${ }^{0} 46,687$ |  | 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 | 11,964 | 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 | 136, 844 | 10.73 | 5,683 | 5,321 | 2,089 | 18,045 | 9,902 | 1,076 | 1,065 | 997 | 4,335 | 1,333 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| Juls | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 284, 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 | 19,028 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January-- | 126 | 428, 508 | 2340126 | 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, 396 | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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, 1225, issue (No. 45), p. 27.
${ }^{2}$ 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.
${ }_{3}$ 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.
${ }_{4}^{4}$ 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.
(he ${ }^{944}$, issue (No. 39 ), p. 101.
${ }^{6} 11$ months' average, February to December, inclusive.

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

| Year and Monti | PORCELAIN PLUMBING |  |  |  | VITREOUS CHINA PLUMBING FIXTURES: |  |  |  | SAND-LIME BRICK: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Netnew orders | Shipments | Unfilled orders, month | Stocks, end of month | Net new orders | ShIpments | Unfllled orders, end of month | Stocks, end of month | Pro-duction | Shipments by rail | Shipments by truck truck | Stocks, end of month | Unflled orders, end of month |
|  | Number of pieces |  |  |  |  |  |  |  | Thousands of brick |  |  |  |  |
| 1925 monthly average |  |  |  |  | ' 223,783 | - 238, 280 | 4 439, 986 | ${ }^{4} 343,201$ |  |  |  |  |  |
| 1926 monthly average |  |  |  |  | 258, 781 | 250, 982 | 513, 133 | 501, 241 | 20,626 | 8,456 | 12,319 | ${ }^{5} 8,697$ | -18,837 |
| 1527 monthly average.. | ${ }^{6} 13,769$ | - 17,486 | - 28, 624 | ${ }^{\text {- 29, }} 566$ | 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 | 42,981 | 242,781 | 238, 395 | 455, 512 | 576, 358 | 13,555 | 4,122 | 10,193 | 12,047 | 11, 018 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{r} 1927 \\ \text { September--.... } \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 11,969 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 258 | 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, 884 | 11,615 | 9,714 | 9,925 |
| September- | 9,524 | 9,569 | 26, 115 | 39,708 | 195, 931 | 237,788215,033 | 343,775 <br> 369,348 | 566, 776 | 14, 121 | 3,960 | 10,951 | 9,326 | 13,286 |
| October. | 8,548 | 8, 269 | 25,376 | 40,682 | 240, 606 |  |  | 601, 832 | 17,563 | 5,150 | 10,863 | 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 | 8,938 | 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 | 7,008 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| February | 6,721 | 4,240 | 32,781 | 39, 352 | $\begin{aligned} & 257,783 \\ & 170,325 \end{aligned}$ | $\begin{aligned} & 205,673 \\ & 180,683 \end{aligned}$ | $\begin{aligned} & 436,348 \\ & 515,340 \end{aligned}$ | $\begin{aligned} & 632,740 \\ & 642,888 \end{aligned}$ | 4, 827 | $\begin{aligned} & 2,356 \\ & 2,489 \end{aligned}$ | 3,576 | $\begin{aligned} & 13,691 \\ & 10,286 \end{aligned}$ | 9,358 |
| March. | 9, 044 | 5,378 | 35,961 | 39, 198 |  | 180,683211,637209,366 | $\begin{aligned} & 515,340 \\ & 474,028 \end{aligned}$ | $\begin{aligned} & 642,888 \\ & 646,235 \end{aligned}$ | 7,406 | 2,489 2,846 2,810 | 4,890 | $\begin{aligned} & 10,286 \\ & 11,959 \end{aligned}$ | 12,793 |
| April. | 6,469 | 6,502 | 35,017 | 38, 240 | 133, 179 |  | 397, 841 | 635, 501 | 8,802 | 3,910 | 5,6,4 | 11, 505 | 9,229 |
| May | 7,879 |  | $35,078$ | $\begin{aligned} & 36,920 \\ & 37,410 \end{aligned}$ | $\begin{aligned} & 139,784 \\ & 130,739 \end{aligned}$ | $\begin{aligned} & 194,948 \\ & 159,018 \end{aligned}$ | $342,677$ |  | i2, 708 | 3,272 | 7,559 | 12,975 | 10,706 |
| June | 7,367 | $6,336$ | $35,674$ |  |  |  | $314,398$ | $648,820$ |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September-..-..-....-.-. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October..................-....-.-.-. .-...-...- |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the $U$. S. Department of Commerce, Bureau of the Census, from the reports of 10 manufacturers comprising the entire industry. The flgures 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, intergral 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.
a 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, showin also culls, the classication 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
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 Decomber 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.
'6 months' average, July to December, inclusive. 88 months' average, May to December, inclusive. ${ }^{6} 4$ months' average, September to December, inclusive

Table 56.-CEMENT AND HIGHWAYS


[^14]Table 56.-GLASS


[^15]Table 57.-WOOD DISTILLATION ${ }^{1}$

| Year and Monte | ACETATE OF LIME |  |  |  |  | METHANOL (CRUDE) |  |  |  |  | WOOD |  | DAILY CAPACITY |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro-duction | Shipments | Stocks end of mo. | $\left\|\begin{array}{c} \text { Ex- } \\ \text { ports } \end{array}\right\|$ |  | $\\| \begin{gathered} \text { Produc- } \\ \text { tion } \end{gathered}$ | Stocks, crude plants, end of month | Stocks, refineries, end of month |  | $\underset{\text { ports }}{\text { Ex- }}$ | Car-bonized | Stocks, end of mo. | Total | $\begin{aligned} & \text { Re-- } \\ & \text { port } \end{aligned}$ing | Shutdown |
|  |  |  |  |  |  |  |  | States | $\begin{aligned} & \text { Can- } \\ & \text { ada } \end{aligned}$ |  |  |  |  |  |  |
|  | Thousands of pounds |  |  |  | $\begin{gathered} \text { Dills. } \\ \text { per } \\ \text { cwt. } \end{gathered}$ | Gallons |  |  |  |  | Cords |  |  |  |  |
|  | 12, 421 | $\qquad$ | -...... | 1,942 | \$2.78 | $652,021$ | - | ................ |  | 58,589 | $78,580$ | 829, 227 | $5,629$ | 4,083 | 626 |
| 1920 monthly av. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1921 monthly av.. |  |  |  | 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 | ${ }^{4} 1,355,717$ | 4 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 | 13,033 | 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 | 84, 320 | 42,940 | 71,825 | 512,068 | 3,296 | 3,296 | 368 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| こimuary | 12,519 | 11,343 | 17, 596 | 1,630 | 3.50 | 699, 551 | 344, 798 | 1, 126, 152 | 56, 104 | 33, 384 | 68, 559 | 560, 568 | 3, 293 | 3, 293 | 249 |
| Fobruary. | 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. | 11,653 | 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, 320 | 10,223 | 15, 128 | 215 | 3.50 | 528, 029 | 295,455 | 558,483 | 73, 955 | 66, 785 | 68, 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 | 500, 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| t'ebruary | 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, C 36 | 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 | 3,284 | 3, 264 | 475 |
| September-- | 10, 154 | 10, 162 | 1,241 | None. | 4. 50 | 598, 548 | 256, 356 | 514, 572 | 65, 505 | 49,918 | 63,460 | 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 |
| 1930 January |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January ..... | 11,798 9,683 | 3,921 4,616 | 15,536 20,814 | None. | 4.50 4.50 | 715,886 615,006 | 389,876 507,818 | 903,304 838,421 | 9,038 16,400 | 47,571 15,691 | 73,326 80,559 | 601,972 490,157 | 3,246 3,246 | 3,246 3,246 | 222 416 |
| 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 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 | 45,440 | 77, 028 | 54,607 | 531, 244 | 3,172 | 3,172 | 756 |
| June |  |  |  | None. | 4. 23 |  |  |  |  | 126, 813 |  |  |  |  |  |
| July-... |  |  |  |  | 3.11 |  |  |  |  |  |  |  |  |  |  |
| August...- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October -.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^16]Table 58.-REFINED METHANOL, ETHYL ALCOHOL, EXPLOSIVES, AND DYES

${ }^{1}$ 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.
${ }_{2}$ Statistics of ethyl alcohol, compiled by the U. S. Treasury Department, Bureau of Internal Revenue, comprise all $160^{\circ}$ 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 nedical purposes in place of pure alcohol which was formerly used and is taxable. Data for fiscal years previous to 1920 appeared in the February, 1928, issue (No. 78), p. 79. Beginning with April, 1928 , moathly 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.
${ }^{3}$ Compiled by the U. S. Department of Commerce, Bureau of Mines, from reports from 24 companies. Data comprise black powder, permissibles, 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.
${ }^{4}$ 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.

58 months' average, May to December, inclusive.
s 9 months' a verage, April to December, inclusive.

Table 59.-NAVAL STORES


[^17]
## Table 60.-CHEMICAL PRICES, ARSENIC, AND ROOFING

[Hase year In bold-faced type]

${ }^{1}$ 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.
${ }^{2}$ The chemical price indexes from Chemical and Metallurgical Engineeting include quotations on 30 chemicals aud 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 .
${ }_{3}$ 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.

Compiled by the Department of Commerce, Bureau of the Census, from the reports of 41 manufactarers whose output constitute a large percentage of the total for the industry, Details of shipments are given in monthly releases.
repred 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. A verage prices are also included in the reports of the association

A roof square is equivalent to 100 square feet of covering as measured on the roof.
? 6 months' average, July to December, inclusive.

$$
5499^{\circ}-30-6
$$

Table 61.-CHEMICALS

${ }^{1}$ 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.
${ }^{2}$ Data compiled by the National Fertilizer Association from reports of aciduators 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. month indicated. Similar figures for quarters since June 30 , 1923, were given in the April, 1927, issue (No.68), p. 23
${ }^{4}$ Wholesale average monthly price of $66^{\circ}$ sulphuric acid at New York from U. S. Department of Labor, Bureau of Labor Statistics.
© 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 Tezas). Monthly data from 1920 in May, 1926 , issue (No. 57 ), p. 17. 6 Average for last 3 quarters of year.

## Table 62.-COTTONSEED PRODUCTS

| Year and Month | COTTONSEED ${ }^{1}$ |  |  | COTPONSEED OIL |  |  |  |  |  |  | COTTONSEED CAKEAND MEAL |  |  | MLEO- |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Crude ${ }^{1}$ |  | Refined |  |  |  |  |  |  |  |  |  |
|  | Recelpts at mills |  | Stocks at mills, month | Pro-ductlon | Stocks, end of month | Pro-duction 1 | Factory consumption |  | Stocks, end of month ${ }^{\text { }}$ |  | Pro-ductlon ${ }^{1}$ | Stocks at mills, end of month ${ }^{1}$ | $\underset{\text { Ex- }}{\text { ports }}$ | $\begin{aligned} & \text { Pro- } \\ & \text { duc- } \\ & \text { tion } \end{aligned}$ | $\begin{aligned} & \text { Con- } \\ & \text { sump- } \\ & \text { tlon } \end{aligned}$ |
|  |  |  |  |  |  |  | $\underset{(\text { (qtity. })^{\text {Tot }}}{ }$ | $\begin{gathered} \text { In } \\ \text { oleo. } 0 \end{gathered}$ |  |  |  |  |  |  |  |
|  | Short tons |  |  | Thousands of pounds |  |  |  |  |  | $\begin{aligned} & \text { Dolls. } \\ & \text { per lb. } \end{aligned}$ | Short tons |  |  | Thous. of lbs. |  |
| 1913 mo. av |  |  |  |  |  |  |  |  |  | \$0.072 |  |  | 41,878 | 12,671 | 11,861 |
| 1914 mo. av |  |  |  |  |  |  |  |  |  | . 066 |  |  | 42,062 | 11, 664 | 11,798 |
| 1915 mo. av |  |  |  |  |  |  |  |  |  | . 068 |  |  | 60,785 | 11,831 | 11,787 |
| 1916 mo. av | ${ }^{7} 768,756$ | 7463,094 | T1,007,012 | ${ }^{7} 140,040$ | ${ }^{7} \mathbf{6 4 , 4 1 9}$ | 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 | 28,877 |
| 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. ${ }^{\text {av}}$ | 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, 5:8 | 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, 5.6 | 435, 341 | 96, 286 | 72,957 | 88, 056 | 194,965 | 1,605 | 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, 833 | 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 | 38: 41 | 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 | 41, 006 | 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 |
| $\begin{gathered} 1929 \\ \text { January }--. \end{gathered}$ | 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 | 181, 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 | 21, 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 | 50,311 | 51, 727 | 12,837 | 28, 400 | 25,788 |
| 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, 108, 566 | 192, 001 | 116, 150 | 187, 050 | 324, 458 | 3, 511 | 422, 335 | . 087 | 272,531 | 203, 554 | 30, 894 | 32, 883 | 32, 145 |
| 1930 January |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 290, 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 $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November.December. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^18]Table 63.-FLAXSEED AND PRODUCTS

| Year andMonte | FlaxsEED |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Wholesale prices, No. } \\ & \text { 1, Minneapolis } \end{aligned}$ | LINSEED OIL |  |  |  |  | LINSEED CAKE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { ports }}{\operatorname{Im}}$ | Minneapolis and Duluth ${ }^{2}$ |  |  |  | $\underset{\text { (quarterly) }}{\text { Oil milis }}$ |  | Argentina |  |  | $\left\lvert\, \begin{gathered} \text { Produc- } \\ \text { tion } \\ (\mathbf{q} \boldsymbol{t l y} .) \end{gathered}\right.$ | Shipments from Min-neapo-lis.lis. lis | Factory con$\operatorname{sump}_{\text {tions }}$ (qtly.) | Stocks at factories (qtiy. | $\left\lvert\, \begin{aligned} & 01 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}\right.$ | Ship-mentsfromMin-neapo-lis $^{9}$ | $\underset{\text { ports }^{1}}{\text { Ex- }}$ |
|  |  | $\underset{\text { ceipts }}{ }{ }^{3}$ | $\begin{aligned} & \text { Ship- } \\ & \text { mhits } \end{aligned}$ | Stocks, end of mo. |  | $\begin{gathered} \text { Con- } \\ \text { sump } \\ \text { tion } \end{gathered}$ | Stocks, end of qtr. | $\underset{\text { ports }}{\text { Ex- }}$ | Stocks, end of mo. ${ }^{8}$ |  |  |  |  |  |  |  |  |
|  | Thousands of bushels |  |  |  |  |  |  |  |  | Dolls. per bu. | Thousands of pounds |  |  |  | $\begin{aligned} & \text { Dolls. } \\ & \text { per lb. } \end{aligned}$ | Thous. of lbs. |  |
| 1913 mo. av. | 548 | 2,315 | 1,526 | 2,999 |  |  |  | 3,336 |  | \$1. 36 | 126, 856 | 15,21011,868 | .-. |  | $\$ 0.062$ <br> .067 | 30, 166 | 72, 478 |
| 1914 mo. av | 771 | 1,196 | 702 | 1,907 |  |  |  | 2, 761 | 728 | 1. 54 |  |  |  |  |  | 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 | ${ }^{11} 50$ |  |  | 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 |
| $1920 \mathrm{mo} . \mathrm{av}_{\text {- }}$.- | 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 |
| $1921 \mathrm{mo} . \mathrm{av}_{\text {-. }}$ | 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 | 395 | 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, 997 | 3,430 | 3, 517 | 2.74 | 189,962 | 13,537 | 102, 835 | 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 . $\mathrm{av}_{\text {- }}$ | 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 | 4,799 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  | $\begin{aligned} & 3,963 \\ & 4,516 \end{aligned}$ | 4, 528 | 2.76 |  | 14,381 |  |  | . 120 | 12,215 | 80,855 |
| August | 1, 020 | 1,479 | 567 | 23 | 42 |  |  |  | 2,559 | 2.79 |  | 10,787 |  |  | . 129 | 15,683 | 74, 874 |
| September....- | 842 | 4, 111 | 1,655 | 909 | 572 | 10, 166 | 3,186 |  | 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 |  |  | 3,340 <br> 2,197 | 984 | 3.32 |  | 13,707 |  |  | . 159 | 30,466 | 52,423 |
| November. | 1,686 | 1,313 | 1,445 | 594 | 96 |  |  | $\begin{aligned} & 1,148 \\ & 4,064 \end{aligned}$ | 735 | 3.24 |  | 8,467 |  |  | . 150 | 17,442 | 53, 104 |
| December | 1,290 | 575 | 592 | 882 | 4,919 | 9,947 | 4,349 |  | 1,575 | 3. 22 | 182, 228 | 5,043 | 106, 025 | 140, 856 | . 147 | 18,977 | 48,745 |
| $\begin{gathered} 1930 \\ \text { January } . . \end{gathered}$ |  |  | 163 | 877 | None. |  |  |  | 3,543 | 3.08 |  | 5, 198 |  |  | . 140 | 20, 859 | 52, 833 |
| February | 2, 279 | 119 | 162 | 745 | 2,938 |  |  |  | 4,331 | 3.05 |  | 5,493 |  |  | . 141 | 13,600 | 33,970 |
| March.-.- | $\begin{aligned} & 3,233 \\ & 2,527 \end{aligned}$ | 172 | 133 | 705 |  | 7,966 | 2, 898 |  | 4, 921 | 2.92 | 145, 970 |  | 95, 601 | 154, 832 | . 140 |  | 52,082 |
| April... |  | 146 | 171 | 624 |  |  |  |  | 5,906 | 2.92 |  | 9, 141 |  |  | . 143 | 8,604 | 48,716 |
| May | $\begin{array}{r} 1,454 \\ 371 \end{array}$ | 712314 | 457 | 523 |  |  |  |  | 3,937 | 2.68 |  | 9,685 |  |  | . 140 | 7,485 | 41, 409 |
| June_..... |  |  | 267 | 433 |  | 7,270 | 2,328 |  | 3,937 | 2.71 | 130, 863 | 6,274 | 104, 276 | 108, 758 | . 140 | 5,768 | 29,066 |
| July.-- | -....--- |  |  |  |  |  |  |  | 3,543 | 2.32 |  | 6,436 |  |  | . 140 | 5,066 |  |
| August.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September----- - ------ <br> October  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November <br> December. | ------------- | ---------- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
${ }^{2}$ 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.
${ }_{3}^{3}$ Does not include mill receipts at Duluth-Superior.
${ }_{4}$ Compiled by the Northwestern Miller and represents the receipts at mills at Duluth-Superior as distinguished from the receipts at public and bonded warehouses. ${ }^{5}$ 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 1913 collected by the $U$. S. Food Administration, and published in detail in the supplement to Bulletin 769 of the $U$. S. Department of Agriculture.

0 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 , T 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.
${ }^{8}$ Compiled by the Oil, Paint, and Drug Reporter, representing stocks on the Saturday nearest to the end of the month.

- Compiled by the Minneapolis Chamber of Commerce.
${ }^{10}$ 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 $71 / 2$ pounds to the gallon. Monthly data from 1909 appeared in the November, 1926, issue (No. 63 ), p. 26 .
${ }_{11} 10$ months' average.

Table 64.-TOTAL VEGETABLE OLLS AND COPRA

${ }^{1}$ 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 prio 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.
${ }^{2}$ Compled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, including cottonseed, corn, and linseed oils. 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 $7^{3} / 4$ pounds per gallon.
${ }^{4}$ 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.
${ }_{6} 6$ months' average, July to December, inclusive.

Table 65.-ANIMAL FATS AND OILS ${ }^{1}$

| $\begin{aligned} & \text { YEAR AND } \\ & \text { MONTH } \end{aligned}$ | ANIMAL FATS |  |  | Greases |  |  | LARD COMPOUNDS AND SUBSTITUTES |  | FISE OILS |  |  | ANIMAL GLUES |  |  | $\begin{aligned} & \text { GDIBLE } \\ & \text { GELATATIN } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { Produc } \\ \text { tion }}}{\text { and }}$ | $\begin{aligned} & \text { Factory } \\ & \text { comp } \\ & \text { sumen } \\ & \text { toon } \end{aligned}$ | Stocks, end of quarter | Pro-duction | $\begin{gathered} \text { Fac- } \\ \text { tory } \\ \text { conn- } \\ \text { sumpe } \\ \text { tion } \end{gathered}$ | Stocks, end of quar | $\begin{aligned} & \text { Produc- } \\ & \text { tion } \end{aligned}$ | Stocks, end of quar | Pro-ducthon | $\left.\begin{array}{\|c\|} \text { Fac- } \\ \text { tory } \\ \text { con- } \\ \text { sumpm } \\ \text { tlon } \end{array} \right\rvert\,$ | Stocks, end of ter | Pro-duction | Stocks, end of ter | $\mid \underset{\left({ }^{2}\right)}{\text { Ship- }}$ | Pro-ductlon | Stocks, end of ter |
|  | Thousands of pounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1819 qtly. av- | 367, 519 | 144, 308 | 138,071 | 69,648 | 51,566 | 67,374 |  |  | 8,231 | 9,791 | 44, 609 |  |  |  |  |  |
| 1920 qtly. av- | 410, 676 | 149, 276 | 185, 283 | 86, 384 | 50, 273 | 69, 741 |  |  | 16,507 | 12,044 | 45, 225 |  |  |  |  |  |
| 1921 qtly. av- | 473, 266 | 141, 324 | 222, 630 | 85, 222 | 44, 325 | 95, 592 | ${ }^{\text {3 156, }} 770$ | ${ }^{3} 9,517$ | 13,916 | 19,990 | 54,009 |  |  |  |  |  |
| 1922 qtly. 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 qtly. 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 qtly. 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 | 410,454 |
| 1925 qtiy. 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 qtly. 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 qtly.av- | 529,506 | 164, 248 | 189, 875 | 94,976 | 53,497 | 50,880 | 294,749 | 25,879 | 20,660 | 42, 212 | 78,795 | 26,042 | 34, 808 | 0, 312 | 4,387 | 8,421 |
| 1928 qtly. 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, 13¢ | 6,620 | 4,267 | 8,484 |
| 1929 qtly, 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January... |  |  |  |  |  |  |  |  |  |  |  |  |  | 6,814 |  |  |
| February.. |  |  |  |  |  |  |  |  |  |  |  |  |  | 6,672 |  |  |
| March <br> April | 722, 868 | 160, 016 | 231, 458 | 106, 544 | 59, 122 | 51, 835 | 306, 938 | 26,353 | 9,462 | 59, 240 | 88,662 | 30,777 | 36, 275 | $\begin{aligned} & 6,524 \\ & 6,587 \end{aligned}$ | 8,463 | 9,138 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Мау........-.............................-1.................. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| June. | 556, 439 | 148, 592 | 267, 507 | 96, 556 | 64, 249 | 54,731 | 236, 838 | 27, 300 | 10, 307 | 47, 736 | 93, 040 | 26, 296 | 37,650 | $\begin{aligned} & 5,887 \\ & 6,621 \end{aligned}$ | 4,755 | 9,088 |
| July.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August |  |  |  |  |  |  |  |  |  |  |  |  |  | 6,780 |  |  |
| September-.. | 430, 660 | 147, 240 | 164, 493 | 84,506 | 66, 113 | 36,930 | 302, 208 | 23,540 | 49,588 | 44,910 | 110, 302 | 20, 454 | 32,843 | 6, 2567,528 | 1,824 | 7,284 |
| October- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November--- <br> December... |  |  |  |  |  |  |  |  |  |  |  |  |  | 6,958 |  |  |
|  | 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 | 6, 325 | 5,027 | 8,425 |
| $1929$ <br> January |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\begin{aligned} & 6,825 \\ & 7,259 \end{aligned}$ | 5,253 | 8,570 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\begin{aligned} & 7,225 \\ & 6,246 \\ & 6,376 \end{aligned}$ | 5,132 | 8, 227 |
| July.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\begin{aligned} & 6,749 \\ & 8,071 \end{aligned}$ | 2,808 | 6,459 |
| October-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November... <br> December-. |  |  |  |  |  |  |  |  |  |  |  |  |  | 6,146 |  |  |
|  | 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 | 5,757 | 5,054 | 7,545 |
| $\begin{gathered} 1930 \\ \text { Japuary..... } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 165 | 5,271 | 7,980 |
| April-. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { May_- } \\ & \text { June. } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the U. S. Department of Commerce, Bureau of the Census, except for shipments of animal glues, and representing practically complete production, factory comsumption, 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 quarteriy press releases. ${ }^{2}$ 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.
${ }_{3}$ A verage of last 2 quarters of the year.
4 Stocks on Dec. 31 .
8 Monthly average.

Table 66.-CROP PRODUCTION ${ }^{1}$
[Base year in bold-faced type]

| Year and Monte | wheat |  |  | CORN | OATS | $\begin{aligned} & \text { BAR- } \\ & \text { LEX: } \end{aligned}$ | RYE | RICE | $\begin{aligned} & \text { POTA- } \\ & \text { TOES } \end{aligned}$ | $\underset{\text { (total) }}{\text { APPLES }}$ | $\begin{aligned} & \text { FLAX- } \\ & \text { SEED- } \end{aligned}$ | $\begin{aligned} & \text { HAY, } \\ & \text { TAME } \end{aligned}$ | $\begin{array}{\|c} \text { TOTAL } \\ \text { VALUE } \\ \text { ORFPS } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Winter | Spring | Total |  |  |  |  |  |  |  |  |  |  |
|  | Relative to 5-year average, 1909-1913 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1909-1913 average -- | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 fnal 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 |
| 1902-1913 average.... | 445, 013 | 245, 095 | 690, 108 | 2, 712,364 | 1, 143, 407 | 184, 812 | 36, 093 | 23,770 | 357, 699 | 176, 340 | 19,543 | 67, 097 | 8, 702 |
| 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, 406, 281 | 189, 332 | 60, 490 | 52,066 | 403, 206 | 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 |
| 1929 May 1 estimate | 595, 335 |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 2,455, 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 |  |
| Decermber 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 |
| 1930 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 | 1,320,407 | 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 | 1,3163369 | 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.. |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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.
${ }^{2}$ 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

| $\begin{aligned} & \text { Year and } \\ & \text { Month } \end{aligned}$ | $\begin{aligned} & \text { GRINDINGS OF } \\ & \text { WHEAT } \end{aligned}$ |  | PRODUCTION |  |  |  |  | CON- <br> SUMP- <br> Com- <br> puted | STOCKS (end of month) |  | EXPORTS |  | $\underset{\text { PROLESALE }}{ }$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | United | d States |  |  |  |  | All po- | Held |  |  | Stand- ard | er |
|  | States ${ }^{2}$ | ada ${ }^{\text {c }}$ | Actual ${ }^{2}$ (Census) | Prorated ${ }^{4}$ $(R u z s e l l)$ | ada ${ }^{\text {a }}$ | ofral ${ }^{\text {a }}$ | pacity : |  | (computed) | $\begin{aligned} & \text { my } \\ & \text { millis, } \\ & \text { (quty.) } \end{aligned}$ | States ${ }^{\text {d }}$ | ada 6 | ents Minne- <br> apolis | $\begin{gathered} \text { Kansas } \\ \text { City } \end{gathered}$ |
|  | 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 ${ }^{\text {a }}$ - |  |  |  | 9,815 |  |  |  |  |  |  | 1,160 | 731 | 11. 39 | 10.55 |
| 1918 monthly av.. |  |  |  | 9,351 |  |  |  |  |  |  | 1,809 | 839 | ${ }^{(7)}$ | 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.. |  | 6, 386 |  | 10,467 | 1,421 |  |  | 9, 291 | 7,228 |  | 1,252 | 790 | 7.30 | 6. 14 |
| 1923 monthly av.- | ${ }^{8} 42,872$ | 6,886 | ${ }^{8} 9,288$ | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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... | $\begin{aligned} & 45,289 \\ & 42,246 \end{aligned}$ | $\begin{aligned} & 9,690 \\ & 7,600 \end{aligned}$ | 9, 9099,269 | 11, 200 | 2,1751,672 | 780,189727,305 | 6157 | $\begin{array}{r} 10,401 \\ 9,411 \end{array}$ | 7,5007,370 | 1,199  <br> 4,597 939 |  | 1,159 | 6. 23 | 5. 53 |
| December... |  |  |  | 10, 220 |  |  |  |  |  |  |  | 923 |  | 5. 50 |
| 1929 |  |  |  |  | 1,672 | 727, 305 | 57 |  |  | 4,597 | 939 |  | 6.13 |  |
| 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 | 3,826 | $\begin{aligned} & 933 \\ & 944 \end{aligned}$ | 907 | 6. 12 | 5.21 |
| June... | $\begin{aligned} & 40,833 \\ & 42,895 \end{aligned}$ | 7,029 | 8,912 | 9,838 | 1, 548 | 711, 357 | 54 | 8, 494 |  |  |  | 935 | 6.38 | 5. 26 |
| July |  | 7,2477,178 | 9,337 | 10,449 | 1,603 | 746, 628 | 55 | 8,365 | $\begin{array}{r} 8,000 \\ 10,084 \end{array}$ |  | $\begin{array}{r} 944 \\ \mathbf{1}, 085 \end{array}$ | 836 | 7.69 | 6.31 |
| August... | 50,725 |  | 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 | $\begin{aligned} & 11,870 \\ & 12,153 \end{aligned}$ | $\begin{aligned} & 1,283 \\ & 1,528 \end{aligned}$ | $\begin{aligned} & 831,523 \\ & 886,004 \end{aligned}$ | 66 | 10,006 | $\begin{aligned} & 9,500 \\ & 8,700 \end{aligned}$ | 4,479 | 1, 163 | 492 | 7.17 | 6. 10 |
| October-.. |  | 6,814 | 10,968 |  |  |  | 62 | 11,642 |  |  | 1,311 | 554 | 6.91 | 6.01 |
| November-.- | $\begin{aligned} & 43,913 \\ & 41,062 \end{aligned}$ | $\begin{aligned} & 7,281 \\ & 4,837 \end{aligned}$ | $\begin{aligned} & 9,538 \\ & 8,905 \end{aligned}$ | 10,740 | 1,629 | 776, 745 | 58 | 9,884 | 8,400 |  | 1,156 | 538 | 6. 69 | 5. 92 |
| December |  |  |  | 9,770 | 1,073 | 728, 157 | 54 | 8,043 | 9,100 | 4,724 | 1,123 | 605 | 6.88 5.95 |  |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January -.- | 43, 812 | 5,201 | 9,510 | 9,948 | 1,108 | 772, 726 | 56 | 9,808 | 8,000 | -...--.--- | 1,240925 | 503 | 6.75 | 5.84 |
| February. | 40,506 | 4,702 | 8,783 | 9,32310,207 | $\begin{aligned} & \mathbf{1 , 0 5 1} \\ & \mathbf{1 , 2 1 9} \end{aligned}$ | $\begin{aligned} & 717,926 \\ & 763,376 \end{aligned}$ | 58 | 8,098 | 8,800 |  |  | 481 | 6.39 | 5. 63 |
| March............. | 43, 083 | 5,475 | 9,347 |  |  |  | 55 | 9,163 | 8,800 | 4,239 | 1,044934 | 681 | 6. 23 5.26 |  |
| April. | 41,854 | 5,429 | 9, 071 | 9,749 | 1,215 | 742, 542 | 53 | 8,615 | 9,000 |  |  | 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.- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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. Department of Commerce, Buteau 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 factured in 1923, and over 91 per cent in 1925, according to the census or manufactures. Ther, or in transit.
to the reporting list. Stocks include flour owned by millers whether in mills, elevators, or in transit. 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.
${ }_{4}$ 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;

Exports of flour from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
${ }^{6}$ Exports of flour from Canada from Department of Trade and Commerce, Dominion Bureau of Statistics.
${ }^{7}$ No quotations.
A Average for last 6 months of year.

- Average for 2 periods only, June and December.

Table 68.-WHEAT AND CORN

| $\begin{aligned} & \text { Year and } \\ & \text { Monti } \end{aligned}$ | Wheat |  |  |  |  |  |  |  |  |  |  | CORN |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Stocks (end of month) |  |  | ceipts a | Shipments ${ }^{3}$ | Exports |  |  | Wholesale prices ${ }^{0}$ |  |  | $\left\lvert\, \begin{gathered} \text { Visible } \\ \text { sup- } \\ \text { ply, } \\ \text { end of } \\ \text { mo. } \end{gathered}\right.$ | $\underset{\text { cefpts }}{\text { Re- }}$ | Shipments | $\begin{gathered} \text { Grind- } \\ \text { ings } \end{gathered}$ | $\|$Ex- <br> ports <br> Corn, <br> in- <br> elun- <br> ing <br> corn <br> meal | Wholesale prices ${ }^{8}$ |  |
|  | $\left.\begin{array}{\|c\|} \text { Held } \\ \text { by } \\ \text { mills } \\ \text { (quar- } \\ \text { terly) } \end{array} \right\rvert\,$ | Visible supply ${ }^{\text {3 }}$ |  |  |  | United | States | Can: ada ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | United States | Canada |  |  | Wheat only | $\left\|\begin{array}{c} \text { In- } \\ \text { clud- } \\ \text { lng } \\ \text { Wheat } \\ \text { flour } \end{array}\right\|$ | In-cludWheat flour |  |  |  |  |  |  |  |  |  |  |
|  | 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 . $\mathrm{av}^{\text {. }}$ |  | 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. $\mathrm{av}^{\text {- }}$ |  | 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. $\mathrm{av}^{\text {.- }}$ |  | 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 . $\mathrm{av}^{\text {- }}$ |  | 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 | 22,600 | 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 .- | ${ }^{9} 67,712$ | 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. $\mathrm{av}_{\text {- }}$ | 92, 432 | 61, 098 | 80,399 | 40, 105 | 26, 208 | 14, 026 | 18, 834 | 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 |
| $1929 \mathrm{mo.av--}$ | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 351 | 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 |
| ${ }_{\text {January }} 1930$ |  | 168, 925 | 210,643 | 17,530 | 14, 170 | 8,245 |  |  | 1.27 | 1.34 | 1.19 |  |  |  | 7,622 | 819 | . 85 |  |
| February - |  | 160, 375 | 202, 282 | 19,920 | 11, 234 | 5,185 | 12,825 9,350 | 8, 8 8988 | 1.25 | 1.23 | 1.13 1.13 | 16, 270 | 29, 364 | 16,438 13,785 | 6, 588 | ${ }^{819}$ | . 82 | . 84 |
| March..- | 96, 568 | 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 | . 98 | 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 . |  | 161,668 | 106, 544 | 98,960 | 42,047 |  |  |  | . 92 | . 85 | . 80 | 4,012 | 16,660 | 11,699 | 6,103 |  | . 82 | . 84 |
| August |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November.. December. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \begin{tabular}{l\|l|l|l|l|l|l|l|l|l|l|l|}
\hline
\end{tabular} |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^19]Table 69.-OTHER GRAINS

| Year and Month | BARLEY |  |  |  | RYE |  |  |  | OATS |  |  |  |  |  | TOTAL <br> GRAINS <br>  <br> Exports, <br> includ- <br> fing <br> four <br> meal as <br> grains ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Re- |  |  |  | Re- |  |  |  |  |  |  |  | Can | ada ${ }^{\text {s }}$ |  |
|  | ceipts <br> at <br> prin- <br> cipal <br> interior <br> mar- <br> kets ${ }^{1}$ | Visible supply, end of month | $\left\{\begin{array}{c} \text { Exports, } \\ \text { includ } \\ \text { ing } \\ \text { mas } \\ \text { arains } \end{array}\right.$ |  |  | Visible supply, month | Exports, lind ing four as grains ${ }^{3}$ | sale prices, No. 2 Minneapolis * | Receipts <br> at <br> prim- <br> cipal <br> marker <br> mark | Visible supply, month | ports, <br> includ- <br> ing oat- <br> mea <br> grain ${ }^{3}$ | sale prices, No. ${ }^{3}$ Chit cago ${ }^{4}$ | $\begin{gathered} \text { Grind- } \\ \text { ings } \end{gathered}$ | Produc- tion, atmeal and rolled oats |  |
|  | Thousands of bushels |  |  | Dolls. per bu. | Thousands of bushels |  |  | Dolls. per bu. | Thousands of busbels |  |  | Dolls. per bu. | Thous. of bus. | Thous. of lbs. | Thous. of bus. |
| 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 1 188 | . 72 | 22, 200 | 24,390 | 3,0468,997 | . 42 |  | --...- | 25,939 |
| 1915 mo.av. | 8,385 <br> $\mathbf{9 , 4 3 8}$ | 4,071 | 2,377 | . 64 |  | $\square$ | 1,1381,320 | 1.05 | 22,65127,299 | 20,48130,336 |  |  | --------- |  | 39,731 |
| 1916 mo. av- |  | 5,040 | 2,041 | . 80 | 1,809 1,936 | ......... |  | 1.08 |  |  | 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 | 2,7773,988 |  | 1,359 | 1.99 | 28, 17719,308 | $\begin{aligned} & 22,703 \\ & 22,898 \end{aligned}$ | 10,838 | .78.70 |  | --------.---- |  |
| 1919 mo. av.. | 7,746 | 8, 708 | 4,005 | 1.17 |  | 13,018 | 3,375 | 1.50 |  |  | 5,567 |  | -.------ |  | $\begin{gathered} 35,323 \\ 36,540 \end{gathered}$ |
| 1920 mo.av.. | $\begin{aligned} & 3,815 \\ & 3,321 \end{aligned}$ | 3,438 | 1,807 | 1. 24 | 3,712 | 7,3232,785 | 4,938 | 1.80 | 17,57117,914 | 17,610 | 1,359698 | . 80 | -.-.-...--...---. |  | 35,509 |
| 1921 mo.av... |  | 2,913 | 2,815 | . 59 | 2,573 |  | 2,512 | 1.15 |  | 50,863 |  | . 37 | --..---.......- |  | 46, 678 |
| 1922 mo.av- | 3,367 | $\begin{aligned} & 2,008 \\ & 2,352 \end{aligned}$ | 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 |  | 1,240 | . 60 | $\begin{aligned} & 3,683 \\ & 5,414 \end{aligned}$ | $\begin{aligned} & 14,017 \\ & 16,288 \end{aligned}$ | 2,668 | . 70 | $\begin{aligned} & 19,913 \\ & 22,106 \end{aligned}$ | 19,637 | 996 | .43.50. | 821 | $\begin{array}{r} 9,610 \\ 10,322 \end{array}$ |  |
| 1924 mo. av. | 5,2075,517 | 2,498 | 2, 022 | . 76 |  |  | 3,0822,408 | $\begin{array}{r}.86 \\ \hline 1.09\end{array}$ |  | 30,675 | 692 |  | 1,053 | 15,361 | $27,327$ |
| 1925 mo. av. |  | 3,997 | 2,774 | . 78 | 2,489 | $\begin{aligned} & 10,340 \\ & 10493 \end{aligned}$ |  |  | $\text { 19, } 536$ | $\begin{aligned} & 58,742 \\ & 48,603 \end{aligned}$ | $\begin{aligned} & 3,112 \\ & 1,578 \end{aligned}$ | . 45 | $\begin{aligned} & 855 \\ & 893 \end{aligned}$ | 11,09811,716 | $\begin{aligned} & 20,854 \\ & 22,014 \\ & 27,603 \\ & 22,001 \end{aligned}$ |
| 1926 mo. av.. | 3,498 | 4,648 | 1,381 | .64 | 1,717 |  | 1,003 | . 92 | 13,514 |  |  | . 41 |  |  |  |
| 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 |  |
| 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 |  |
| 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 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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.. | 3,801 | 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 | 8,486 | 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 | 5,768 | 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 | 8,650 | 26 | . 98 | 7,084 | 29,314 | 443 | .45 | 793 | 8,891 | 14,673 |
| $\begin{array}{r} 1930 \\ \text { Jannary } \end{array}$ |  |  |  |  |  |  |  |  |  |  | 377 |  | 661 |  |  |
| February.- | 2,826 | 4,894 | 734 1,017 | . 58 | 1,250 505 | 9,184 9,389 | 28 36 | .91 .78 | 6,741 7,336 | 22, 222 | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^20]Table 70.-RICE, FRUITS, VEGETABLES, AND HAY

| Year andMonti | RICE ${ }^{1}$ |  |  |  |  |  |  |  |  | APPLES |  | $\begin{aligned} & \text { CIT: } \\ & \text { RUUS } \\ & \text { FR'T } \end{aligned}$ | WHITE $\underset{\text { POES }}{\text { POEA }}$ | ON- | HAY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Paddy at California warehouses |  | South- | Total movement to mills | Shipments |  | Stocks, | $\mathrm{Im}_{\text {ports }}$ |  |  |  |  |  |  |  |
|  |  |  | pad |  |  |  | month |  | Exports | Cold | Car-lot shipments ${ }^{2}$ |  |  |  |  |
|  | Shipments | Stocks end of month | Receipts at mills |  | Total from mills | New Orleans | Domestic at mills and dealers |  |  | $\left\|\begin{array}{c} \text { hold- } \\ \text { lings } \\ \text { end } \\ \text { mo. } \end{array}\right\|$ |  |  |  |  | Reipts: |
|  | Barrels or sacks of 162 pounds |  |  |  | Pockets of 100 pounds |  |  |  |  | Thous. of bbls. | 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 -- |  |  | 630, 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, 589 | 318, 147 | 1, 291, 023 | 63, 532 | 500, 049 | 2,344 | 8, 042 | 7,500 | 18, 206 | 1,932 |  |
| $1922 \mathrm{mo} . \mathrm{av}_{\text {- }}$ |  |  | 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.- | ${ }^{4} 337,223$ | ${ }^{1} 1,172,184$ | 659,645 | ${ }^{4} 994,249$ | 687, 198 | 223,472 | 1,343, 655 | 40, 105 | 290,699 | 3,379 | 10, 268 | 8, 261 | 18,956 | 2, 132 |  |
| 1924 mo. $\mathrm{av}_{\text {- }}$ | 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 |  |
| $1925 \mathrm{mo} . \mathrm{av}^{\text {- }}$ | 66,022 | 254, 002 | 404, 586 | 560, 607 | 536, 989 | 133, 944 | 896,837 | 56, 272 | 55, 883 | 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 | 7,393 |
| 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 | 6, 367 |
| 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 | 5,927 |
| 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 | 5,221 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} 1928 \\ \text { September...- } \end{gathered}$ | 44,908 | (8) | 1, 197, 924 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 1,242, 832 | 777, 583 | 147, 464 | 1, 102, 564 | 15,412 | 152, 200 | 1,631 | 18,085 | 3,636 | 20, 267 | 6,009 | 5,361 |
| October... | 73, 406 | $\begin{gathered} (5) \\ { }^{(5)} \\ 3,443,850 \end{gathered}$ | 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 | 8,435 |
| November | 58,47457,416 |  | $1,935,761$947,584 | $1,994,235$$1,005,000$ | (1,277,631 | 251,453205,384 | $2,886,600$$2,792,141$ | 16,66329,774 | 408,917542,283 | 10,3929,052 | 19,331 <br> 8,161 | 11,67113,314 | 17,593 | 2,158 | 5,366 |
| December---- |  |  |  |  |  |  |  |  |  |  |  |  | 12,872 | 1,611 | 5,727 |
| 1929 | 57,416 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January..... | $\begin{aligned} & 153,071 \\ & 116,771 \end{aligned}$ | 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 | 7,030 |
| February |  | 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 | 6,932 |
| March.. | $\begin{array}{r} 116,771 \\ 96,375 \end{array}$ | 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 | 5,981 |
| 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 | 5,667 |
| May | $\begin{aligned} & 207,658 \\ & 256,140 \end{aligned}$ | 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 | 4,542 |
| June. |  | 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 | 4,058 |
| July...-----. | $\begin{aligned} & 256,140 \\ & 142,914 \end{aligned}$$68,256$ | 2, 200,445 | 125, 737 |  | 515, 342 | 113,969 | 485, 177 | 6, 556 | 231,401 | None. | 1,903 | 8,152 | 19,359 | 2, 351 | 4,682 |
| August.-.------ |  |  | 583, 944 | 652, 200 | 506, 895 | 126, 470 | 506, 953 | 5,549 | 221, 314 | None. | 3, 532 | 7, 348 | 16,871 | 2, 545 | 4,394 |
| September | 68, 256 | 1,387, 795 |  |  | $\begin{array}{r} 841,027 \\ 1,376,400 \end{array}$ | $\begin{aligned} & 156,232 \\ & 249,474 \end{aligned}$ | 1,099, 055 | $\begin{aligned} & 6,292 \\ & 6,662 \end{aligned}$ | 131, 509 | 1,633 | 13, 114 | 5,684 | 23, 978 |  |  |
| October.-. |  |  | $\begin{aligned} & 2,330,286 \\ & 1,415,999 \end{aligned}$ | --..---- |  |  | 2, 173, 838 |  | 229, 688 | 7,997 | 36, 366 | 8,652 | 31, 253 | 5,484 | 4, 424 6,386 |
| November.. |  |  |  | $\begin{aligned} & 1,376,400 \\ & 1,133,769 \end{aligned}$ | $\begin{aligned} & 249,474 \\ & 178,168 \end{aligned}$ | 2, 551, 417 | 12,494 | 340, 753 | 9,380 | 14,046 | 8,936 | 15, 299 | 2, 815 | 4,442 |  |
| 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 | 5,048 |
| $\begin{array}{r} 1930 \\ \text { January } \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| February |  |  | 869, 702 <br> 961, 209 <br> 283, 753 | -...-.-.-.-.- | $\begin{array}{r} 1,0,0,160 \\ 1,005,421 \\ 793,008 \end{array}$ | $\begin{aligned} & 81,050 \\ & 80,506 \\ & 63,189 \end{aligned}$ | $\begin{aligned} & 2,360,083 \\ & 1,899,421 \end{aligned}$ | 20, 273 | 221, 954 | 4, 259 | 6, 314 | 10, 187 | 19,593 | 2,743 | 6,071 |  |
| March |  |  |  |  |  |  |  | 20,88919,755 | $\begin{aligned} & 209,915 \\ & 152,572 \end{aligned}$ | $\begin{aligned} & 2,596 \\ & 1,299 \end{aligned}$ | $\begin{aligned} & 5,166 \\ & 3,607 \end{aligned}$ | $\begin{array}{r} 10,705 \\ 9,653 \end{array}$ | $\begin{aligned} & 21,681 \\ & 19,350 \end{aligned}$ | $\begin{aligned} & 2,260 \\ & 2,874 \end{aligned}$ |  |  |
| April | -......... |  | $\begin{gathered} 283,753 \\ \ldots \\ \hline \end{gathered}$ | --......... |  |  | ............ |  |  |  |  |  |  |  | 4,708 |  |
| May.- |  |  |  |  | -----...-- | $\begin{array}{r} 107,430 \\ 65,195 \\ 56,861 \end{array}$ |  | 10,000 | 203, 573 | 463 | 1,966 | 2, 104 | 22,588 | 3,975 |  |  |
| June |  |  |  |  |  |  |  | 5,499 | 202, 224 | None. | 1,083 | 5,478 | 24, 614 | 1,729 |  |  |
| July |  |  |  |  |  |  |  |  |  | None. | 3,253 | 5,765 | 22,093 | 2, 556 |  |  |
| August |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| : September.-. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November..- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December..- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 andrd 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.
${ }^{2}$ 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.
${ }^{3}$ Compiled by the U. S. Department of Agricullure, Bureau of Agricultural Economics, and represents the receipts of hay at 13 principal markets.
${ }^{4}$ Average for 10 months, March through December.
s.Stocks on hand are ucgligibie, as the crop is not warehoused until the month of December.

Table 71.-LIVESTOCK MOVEMENT ${ }^{1}$

${ }^{1}$ 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 conomics. Monthly data from 1920 appeared in November, 1922, issue (No. 15), p. 115. Data on total animals slaughtered are given in Table 36
${ }^{2}$ 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

${ }^{1}$ 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 cansus figures amounted to 68 por 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.
Exports reported by the U. S. Departiment 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."
${ }^{3}$ Cold-storage holdings, reported by the U. S. Department of Agriculture, Bureau of Agricultural Economics, are distinctly seasonal,

- Apparent consumption, including only meat produced under Federal inspection, has been computed by the U. S. Department of Agriculture, Bureau of Agricullural Economics from the inspected slaughter, less condemned animals, plus net imports less exports and reexports and the change in cold-storage holdings.
'Wholesale prices are averages of weekly quotations as compiled by the U. S. Depurtment of Labor, Bureau of Labor Statistics. Monthly data on ham prices from 1918 appeared in September, 1923, issue (No. 25), p. 55,

Table 73.-OTHER MEATS

${ }^{1}$ Production from animals slaughtored 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.
${ }_{3}^{2}$ Exports, as reported by the U.'S. Department of Commerce, Bureau of Foreign and Domesitc Comumerce, include fresh, canned, and pickled and cured beef. on the last day of each month. Beef holdings include frozen, cured, and in process of cure, while lamb holdings embrace frozen lamb and mptton Total meats include lard, monthly data from 1917 being shown in the July, 1928, issue (No. 83), p. 19.
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 reesports and the change in cold-storage holdings. Monthly data on total meats from 1916 appeared in the March, 1926, issue (No. 55), p. 23.
${ }^{\circ}$ Wholesale prices are averages for the month from U. S. Se Depart tent of Labor, Bureau of Labor Statistics.
${ }^{\circ}$ Compiled by U.S. Depariment of Agriculture and include all stocks of beef, pork, and mutton trimmings and edibles offal that have been frozen, cured, or otherwise prepared for tood. 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.
${ }_{7}$ Average for 5 months, August to December, inclusive.

## Table 74.-CONDENSED AND EVAPORATED MILK



1 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. 4814 -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. ${ }_{3}{ }^{14}$ Exports are from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.

Table 75.-DAIRY PRODUCTS, POULTRY AND EGGS

${ }^{1}$ 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 SUR VEF. (No. 11), p. 46 . data from 1920 appeared in the July, 1922, issue (No. 11), p. 46.

- 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.
Monthly data from 1920 on production of powdered milt of Agricultural Economics, representing practically complete production, but reported only every three months. ${ }^{\circ}$ Compiled by the American Dry Milk Institute from reports of 61 to 70 firms. Data on stocks hold by
p. 26. The association reports also include production and unit prices of members.
milk 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.

Compined by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce
Receipts at the markets of Boston, New York, Philadelphia, Chicago, and San Francisco, compiled by the U. S. Department of Agriculture, Bureau of Agricultural Economirs, are totals of weekly fgures with overlapping weeks prorated. Monthly data from 1920 appeared in June, 1922, issue (No. 10 ), p. 43.
end of the month. Monthly data from 1920 on poultry appeared in June, 1922, issue (No. 10 ), p. 43 . 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 .
${ }_{13}^{11} 1$ case of eggs equals 30 dozen, or about 45 pounds net.
is 8 -month period, July to December, inclusive.

## Table 76.-BUTTER AND CHEESE

| Year and MONTH | BUTTER |  |  |  |  | CHEESE |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pro-duction $\operatorname{tory}^{(1)}$ | $\begin{aligned} & \text { Appar- } \\ & \text { ent } \\ & \text { con- } \\ & \text { sump- } \\ & \text { tlon } 2 \end{aligned}$ | $\begin{aligned} & \text { Re- } \\ & \text { celpts } \\ & \text { ats } \\ & \text { mar- } \\ & \text { Kets } \end{aligned}$ | Coldstorage holdings, $\underset{\text { ery }}{\text { cream- }}$ |  | Total, all varieties |  |  |  |  |  |  | American ${ }^{\text {s }}$ |  |  |
|  |  |  |  |  |  |  |  |  | Cold- |  |  | orts |  | Cold- | Price |
|  |  |  |  |  |  | duction | $\begin{gathered} \text { con- } \\ \operatorname{sump}_{\text {tion }}{ }^{2} \end{gathered}$ | $\begin{aligned} & \text { af } 5 \\ & \text { mar- } \\ & \text { kets } \end{aligned}$ | holdings ${ }^{4}$ | $\text { ports }{ }^{\text {b }}$ | $\underset{(6)}{\mathbf{U}_{\mathbf{6}} \mathbf{S} .}$ | $\begin{gathered} \text { Can- } \end{gathered}$ | duc- tion | holdings | fresh $\text { ( })$ |
|  | Thousands of pounds |  |  |  | Dolls. <br> p.lb. | Thousends of pounds |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Dolls. } \\ & \text { p. lb. } \end{aligned}$ |
| 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.- |  |  |  | ${ }^{10} 80,539$ | . 30 |  |  |  |  | 3,235 | 5,246 | 11, 442 |  | ${ }^{10} 28,995$ | . 15 |
| 1916 monthly av.- |  |  |  | 51,588 | . 34 |  |  |  |  | 2,376 | 4, 508 | 16,081 |  | 26, 125 | . 19 |
| 1917 monthly av-- | 63, 293 | 138, 109 |  | 54, 572 | . 43 |  |  |  | 10 83, 887 | 528 | 4,448 | 16, 492 | 22, 079 | 47, 590 | . 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 | 50,958 | . 41 | 33, 531 | 33,982 | 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, 685 | . 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.- | 124,708 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 $\qquad$ <br> December $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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.
${ }_{2}$ 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.
${ }^{3}$ 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.
4 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 . 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 .
${ }_{5}$ A verage 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.
${ }^{6}$ 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.
fiscal year ended March 31 of the Department of Trade and Commerce, Dominion Bureaal of Statistics. Yearly figures through 1925 represent monthly averages for the Canadian fiscal year ended March 31 of the year indicated
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. Economics. Monthly data since January, 1910, were given in the April, 1927, issue (No. 68), p. 23.
Economics. Monthly data since January, 1910 , were given in

Table 77.—SUGAR


[^21]Table 78.-COFFEE, TEA, COCOA, AND FISH

| Year and MONTH | Cofree 1 |  |  |  |  |  |  | TEA |  | COCOA |  |  | FISH |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Visible supply, end of month |  | Re--ceiptsimazil | Clearances from Brazil |  |  |  | $\begin{gathered} \text { Im- } \\ \text { ports } \\ \text { into } \\ \text { U.S. } \\ \text { U. } \end{gathered}$ |  | (Im- | Shipfrom Gold Coast Nigeria ${ }^{4}$ | $\begin{array}{\|c} \text { Spot } \\ \text { price, } \\ \text { Accra, } \\ \text { New } \\ \text { York4 } \\ \hline \end{array}$ | Total catch, prinfipal ports ${ }^{6}$ | Coldstorage holdings (15th of mo.) ${ }^{3}$ | Canned salmon |  |
|  | World total | United States |  | Total | $\mathbf{T o}$ |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Ship- } \\ & \text { ments } \end{aligned}$ U.S.? | Experts Canada |
|  | Thousands of bags |  |  |  |  |  | Dolls. per lb. | Thous. of libs. | $\begin{aligned} & \text { Dolls. } \\ & \text { per lb. } \end{aligned}$ | 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 |  |  | - 11, 164 |  |  | 36,604 |
| 1914 mo.av-- | 11,370 | 1,576 | 936 | 928 | 461 | 638 | . 080 | 8,151 | . 248 | 6,601 |  |  | - 11,798 |  |  | 106, 083 |
| 1915 mo.av_- | 9, 468 | 1,727 | 1,431 | 1,395 | 589 | 776 | . 075 | 8,842 | . 240 | 8,576 |  |  | - 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 |  | 78,000 |
| 1919 mo.av.- | 117,318 | 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 | 956 | 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 | 1,138 | 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 | 930 | . 158 | 7,448 | . 318 | 18,883 | 23,993 | . 1043 | 31, 102 | 55,768 | 456, 825 | 105, 044 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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--- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Data on coffee, except imports and prices, from the New York Cobee and Sugar Exchange, Inc. Brazilian figures cover the ports of Rio, Santos, Bahia, Victoria, Pernambuco, and Paranazua, Victoria being added in 1925 and Pernambuco and Paranagua 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 beginning with July, 1927.
${ }^{2}$ 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.
${ }^{3}$ 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.
${ }_{1}$ 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.
of 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, 1923 , issue (No. 83), p. 19.
${ }_{6}$ 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.

TShipments of canned salmon from Puget Sound, Astoria, Portland, Oreg. (except small rail shipments), San Francisco, and in bond through Prince Rupert, B. O. representing practically complete pack of United States, including Alaska, reported by Pacific Canned Fish Brokers' Associaion, in cases of 48 one-pound cans to case. dian fiscal year ending Mar. 31 so the year indicated dian fiscal year ending Mar. 31 of the year indicated.
${ }^{1} 10$ Excluding Portland and Seattle.
107 month's average, January to July, inclusive.
118 month's average, July to December inclusive
129 month's average, October to December, inclusive.

Table 79.-TOBACCO

| Year and Month | UNMANUFACTURED |  |  |  |  |  | MANUFACTURED PRODUCTS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production (crop estimate) ${ }^{1}$ | $\begin{gathered} \text { Sales, } \\ \text { hoose-leaf } \\ \text { ware- } \\ \text { houses }{ }^{2} \end{gathered}$ | Exports, leaf ${ }^{3}$ | Stocks (quarterly) |  |  | Consumption s (tax-paid withdrawals) |  |  | Exports ${ }^{\text {a }}$ |
|  |  |  |  | Chewing, smoking, snufi, and export types | Cigar types | Total, including Imported types | $\begin{array}{\|c\|} \text { Manu- } \\ \text { factured } \\ \text { tobacco } \\ \text { and } \\ \text { snuff } \end{array}$ | Large cigars | Small cigarettes | 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, 512 | 398, 243 | 1,864, 016 | 34, 186 | 541,729 | 6,663, 134 | 678, 803 |
| 1926 monthly average. | 1,301, 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, 815 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |
| May |  | 441 | 32, 730 |  |  |  | 33,360 | 572,413 | 11, 108, 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, 845 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

1 Estimate of production of the tobacos 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 monthy averages, whie the monthy figures represent the current estmate of the total up to 1929 and by the io. Separtment of Agade in December of the following ycar.

2 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 partiy 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.

Exports from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
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 Mareh 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.
${ }^{5}$ 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 cigar 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


[^22]Table 81.-RIVER AND CANAL CARGO TRAFFIC

| Year and MONTH | CANALS |  |  |  |  |  |  |  |  | RIVERS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Panama : |  |  | Sault  <br> Ste. New <br> York <br> State <br> $\left({ }^{(3)}\right.$  |  | Cape <br> Cod ${ }^{4}$ | Suez ${ }^{\text {s }}$ | Welland ${ }^{0}$ |  | Mississippi (Govt.owned barges) (7) | Monongahela. | Allegheny ${ }^{9}$ | Ohio (Pittsburgh to Wheellng) ${ }^{8}$ | Ohio by districts 10 (quarterly) |  |  |  |  |
|  | Total | $\|$In <br> Amer- <br> Ican <br> ves- <br> sels | $\begin{aligned} & \text { In } \\ & \text { Erit- } \\ & \text { Ish } \\ & \text { ves- } \\ & \text { sels } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  | Pittsburgh | Hunt- Ing- ton | $\left\lvert\, \begin{gathered} \text { Cin- } \\ \text { cin- } \\ \text { nati } \end{gathered}\right.$ | Loulsville |
|  | Thousands of long tons |  |  | Thousands of short tons |  |  | Short tons | Thous. of met. tons | Short tons |  |  |  |  |  | Thousands of short tons |  |  |  |  |
| $1813 \mathrm{mo} \mathrm{av}^{\text {- }}$ |  |  |  | 8,965 | 372 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1914 mo. av |  |  |  | 6,921 | 297 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1915 mo. $\mathrm{av}^{\text {. }}$ - | 407 | 182 | 183 | 8,911 | 265 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1916 mo . $\mathrm{av}^{\text {. }}$ | 258 | 71 | 131 | 11, 486 | 232 | 134, 107 |  |  |  |  |  |  |  |  |  |  |  |  |
| $1917 \mathrm{mo} \mathrm{mv}^{\text {a }}$ | 588 | 123 | 283 | 11, 227 | 185 | 98, 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 |  |  |  |  |  |
| $1923 \mathrm{mo} . \mathrm{av}^{\text {. }}$ | 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 |  |  |  |  |  |
| $1925 \mathrm{mo} . \mathrm{av}_{\ldots} \ldots$ | 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. $\mathrm{av}^{\text {- - - }}$ | 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. $\mathrm{av}^{\text {c...- }}$ | 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. $\mathrm{av}_{\text {-.-- }}$ | 2,621 | 1,237 | 689 | 11,577 | 411 | 180,455 | 2,878 | 681,409 | 816, 950 | 107, 647 | 2,354, 872 | 266, 314 | 933, 900 | ------ | -...... |  | ---- | , |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 13,356 | 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 |  |  |  |  |  |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |
| A pril---.---..-- | 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-- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^23]Table 82.-RAILWAY, PULLMAN, AND EXPRESS OPERATIONS

| $\begin{aligned} & \text { Yearand } \\ & \text { MONTH } \end{aligned}$ | REVENUES |  |  |  | TOTAL <br> OPER- <br> ATING <br> EXP. | $\left\{\begin{array}{c} \text { NET } \\ \text { OPER- } \\ \text { ATING } \\ \text { INC. } \end{array}\right.$ | $\left\lvert\, \begin{aligned} & \text { NET } \\ & \text { OPER- } \\ & \text { ATING } \\ & \text { REV. } \end{aligned}\right.$ | OPERATING RESULTS 4 |  |  |  | $\begin{aligned} & \text { PULLMAN } \\ & \text { CO.s } \end{aligned}$ |  | $\begin{aligned} & \text { FISITORS TO } \\ & \text { NAT.PARKS } \end{aligned}$ |  | EXPRESS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United States ${ }^{1}$ |  |  | $\begin{aligned} & \text { Can- } \\ & \mathbf{a d a}^{3} \end{aligned}$ |  |  |  | $\underset{1 \text { mile }}{\text { Frelght carried }}$ |  | Receipts per tonmike | $\begin{array}{\|c\|\|} \hline \text { Pas- } \\ \text { sen- } \\ \text { gers } \\ \text { carried } \\ 1 \text { mile } \end{array}$ | Total revenue | $\begin{array}{c\|} \text { Pas- } \\ \text { sen- } \\ \text { gers } \\ \text { carried } \end{array}$ | Persons | $\begin{array}{\|c\|} \text { Auto- } \\ \text { mo- } \\ \text { biles } \end{array}$ | Total operating reve nue | $\begin{gathered} \text { Oper- } \\ \text { at- } \\ \text { ing } \\ \text { in- } \\ \text { come } \end{gathered}$ |
|  | Total operating | Freight | $\left\|\begin{array}{c} \text { Passen- } \\ \text { ger } \end{array}\right\|$ | $\begin{gathered} \text { Total } \\ \text { operat- } \\ \text { ling } \end{gathered}$ | Unlted States |  | $\begin{gathered} \text { Can- } \\ \text { ada } \end{gathered}$ | United States | Canada $^{3}$ |  |  |  |  |  |  |  |  |
|  | Thousands of dollars |  |  |  |  |  |  | Millions of tons |  | Cents | $\begin{aligned} & \text { Mil- } \\ & \text { lions } \end{aligned}$ | Thous. of dolls | Thousands | Number | No. of cars | Thousands ofdollars |  |
| $1913 \mathrm{~m} . \mathrm{a}$ | \$255, 139 | \$176,916 | \$57,548 |  | \$181, 732 | \$59, 900 | \$6,224 |  | 1, 919 | 0.719 | 2,823 | \$3,445 | 2,072 |  |  |  |  |
| $1914 \mathrm{~m} . \mathrm{a}-$ | 241, 608 | 165, 943 | 54, 230 |  | 173,916 | 53,451 | 5,342 |  | 1, 839 | . 723 | 2,881 | 3,284 | 2, 182 |  |  |  |  |
| $1915 \mathrm{~m} . \mathrm{a}$ - | 256, 630 | 178, 804 | 53,798 |  | 171, 926 | 70,002 | 4,343 |  | 1, 472 | . 722 | 3,649 | 3, 483 | 2,021 |  |  |  |  |
| $1916 \mathrm{~m} . \mathrm{a}$ | 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, 935 |  | 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 |
| $1920 \mathrm{~m} . \mathrm{a}$ | 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 |
| $1921 \mathrm{m}$. | 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 |
| $1922 \mathrm{~m} . \mathrm{a}$ | 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 | 3,187 | 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 |
| $1925 \mathrm{~m} . \mathrm{a}$ | 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 mm . 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 |
| $1927 \mathrm{~m} . \mathrm{a}-$ | 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 | 184, 697 | 31, 125 | 12, 756 | 93 |
| $1928 \mathrm{~m} . \mathrm{a}$ | 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 |
| $1929 \mathrm{~m} . \mathrm{a}^{-}$ | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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. | 478, 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 | 6,280 | 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.-..-- | 588, 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.- | 568, 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 | 1.097 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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... <br> July | 444, 848 | 331,647 | 67, 146 |  | 334,638 | 68,883 |  |  |  |  |  |  | 2,679 |  |  |  |  |
| Aug. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sept |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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.
${ }_{3}$ 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.
${ }_{3}$ 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
 mile operations from 1916 appeared in December, 1923 , issue (No. 28), p. 52 .
${ }_{6} \delta$ Pullman passenger traffic furnished by The Pullman Company; revenues from its reports to the Interstate Commerce Commission.
${ }^{6}$ 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, W yo.; and Mount McKinley, Alaska. Vehieles are not reported by Platt, Hot Springs, Wind Cave, and Mount Mckinley. The largest attendance of visitors is shown at Plät Park. Monthly data from 1920 appeared in December, 1923 , issue (No. 28), p. 56.
${ }^{7}$ 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
the difference between total operating revenues and operating expenses) from which have been deducted noncollectible revenue from transportation and express taxes.

Table 83.-LOCOMOTIVES

| $\begin{gathered} \text { Year and }_{\text {Month }} \end{gathered}$ | ON RAILROAD LINES 1 (end of month) |  |  |  |  |  |  | SHIPMENTS BYMANUFACTURERS ${ }^{3}$ |  |  | UNFILLED DRDERS (end of month) |  |  |  |  |  | SHIPMENTS, ELECTBIC LOCOMOTIVES (quarterly) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Reported by msnufacturers ${ }^{3}$ |  |  |  |  |  | Reported by railroads ${ }^{1}$ |  |  |  |  |
|  | Total owned |  | In bad order |  |  |  |  |  | Dom | estic |  | Dome | estic | In |  |  |  |  |
|  |  |  | Total | Steam |  |  |  | $\begin{array}{\|c\|} \hline \text { Elbe- } \\ \text { tric } \end{array}$ | Total | Steam | $\begin{aligned} & \text { Elec- } \\ & \text { tric } \end{aligned}$ | $\begin{aligned} & \mathbf{R} . \mathbf{R} . \\ & \mathbf{s h o p s} \end{aligned}$ | $\underset{\text { plants }}{\mathbf{m i f g}_{1}}$ | $\begin{aligned} & \text { 苞 } \\ & \text { 市 } \end{aligned}$ | $\begin{gathered} \text { Min- } \\ \text { Ing } \end{gathered}$ | dustrial |  |  |
|  | Number | Tractive <br> power <br> (mills. <br> of lbs.) |  |  | Number |  | Number of locomotives |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1010 monthly av. |  |  |  | 23.8 |  |  |  | 18 |  |  |  |  |  |  |  |  | 80 |  |  |
| 1920 monthly av. |  |  |  | 625.3 |  |  | 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. | 764, 757 |  | 12, 204 | 19.0 | ${ }^{7} 285$ | ${ }^{7} 230$ | 165 | 282 | 248 | 17 | 1,636 | 1,488 | 85 | ${ }^{8} 13$ | ${ }^{8} 846$ | 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 | ${ }^{\bullet} 142$ | - 22 |
| 1925 monthly av- | 64, 371 | 2, 592 | 10, 819 | 16.9 | 144 | 250 | 83 | 101 | 63 | 12 | 467 | 335 | 46 | 59 | 236 | 30 | ${ }^{8} 172$ | ${ }^{-14}$ |
| 1926 monthly av. | 63, 171 | 2, 602 | 9,318 | 14.8 | 200 | 298 | 100 | 146 | 113 | 15 | 583 | 461 | 38 | 77 | 430 | 23 | ${ }^{\circ} 218$ | ${ }^{\circ} 30$ |
| 1827 monthly av- | 61,773 | 2,608 | 8,852 | 14.4 | 183 | 298 | 55 | 90 | 61 | 12 | 331 | - 248 | 43 | 34 | 164 | 19 | ${ }^{-} 203$ | ${ }^{-18}$ |
| 1928 monthly av. | 59, 823 | 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 | ${ }^{\bullet} 189$ | ${ }^{-17}$ |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May_...........- | 60, 284 | 2,595 | 8,421 | 14.1 | 139 | 228 | 52 | 41 | 29 | 10 | 220 | 138 | 39 | 30 | 88 | 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 | 18 | 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 |
| $\begin{array}{r} 1929 \\ \text { January } \end{array}$ | 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 | 207 | 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 | 306 | 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 |
| $\begin{array}{r} 1930 \\ \text { January } \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fanuary------.------ | 56, <br> 563 <br> 5654 | 2,530 | 8,937 | 14.18 | 116 | 227 218 | $\begin{array}{r}163 \\ 16 \\ \hline\end{array}$ | 48 67 | 60 | None. | 583 | 527 479 | 50 46 | 107 | 334 <br> 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 | Nome. | 464 | 417 | 44 | 123 | 239 |  |  |  |
| 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 | 84 | 300 | 3 | 136 | 5 |
| July..... |  |  |  |  |  |  | 2 | 56 | 52 | 3 | 291 | 243 | 41 |  |  |  |  |  |
| August. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September-.....- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October .-...... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December.- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 had-order locomotives from U.S. Railroad Administration
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. 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. ${ }^{3}$ 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 57), p. 25.
57), p. 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
${ }^{6}$ 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.

610 months' average, March to December, inclusive.
78 months' average, May to December, inclusive.
84 months' average, September to December, inclusive.

Table 84.-FREIGHT-CAR MOVEMENT

${ }^{1}$ 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 friight 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 thel atter.
reports consisting of exactly 4 the American Railway Association, Car Service Division. The figures for the years 1929 and 1930 are put on a monthly basis from weekly May, August, and November.
May, August, and November.

Table 85.-RAILWAY CAR SUPPLY

| Year and Month | FREIGHT CARS |  |  |  |  |  |  |  |  |  | PASSENGER CARS |  |  |  |  | HOTELS ${ }^{\text {a }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In railroad hands, end of month ${ }^{1}$ |  |  |  | New Orders ${ }^{2}$ | Shipments by mirs. ${ }^{\text {s }}$ |  | Unfilled orders end of month ${ }^{1}$ |  |  | In railroad hands, end of quarter ${ }^{1}$ | New orders ${ }^{2}$ | Shipments by mfrs. ${ }^{3}$ |  | Un- <br> filled orders, end of quarter 1 |  |  |  |
|  | Total |  | In bad o | order |  | Total | Domestic | Total | $\begin{gathered} \text { To } \\ \text { mfrs. } \end{gathered}$ | $\begin{gathered} \operatorname{In}_{\text {R. R. }} \\ \text { shops } \end{gathered}$ |  |  | To- | $\begin{gathered} \text { Do- } \\ \text { mes- } \\ \text { tie } \end{gathered}$ |  |  |  |  |
|  | Thousands | Capacity <br> (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 |  |  |  |  |
| 3919 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 | 8 218 |  |  |  |
| 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 | 98 | 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 | 6,675 | 6,471 | 30,055 | 22,810 | 7,245 | 54, 166 | 110 | 186 | 178 | 1,000 | 74.27 |  |  |
| 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 | 69 |  |
| 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 | 4.02 | 68 | 68.0 |
| 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 | 4.04 | 70 | 72.2 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 66.1 |
| 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 | 66.4 |
| 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 | 68.8 |
| 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 | 68.1 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 67.7 |
| 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 | 68.3 |
| 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 | 69.9 |
| 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 | 71.8 |
| 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 | 71.0 |
| June. | 2,266 | 298, 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 | 71.0 |
| July | 2,267 | 209, 095 | 137, 495 | 6.2 | 242 | 7, 109 | 6,963 | 36,014 | 31, 590 | 4,424 | - | 89 | 64 | 53 |  | 3.94 | 63 | 71.2 |
| 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 | 71.9 |
| 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 | 74.3 |
| 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 | 76.4 |
| 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 | 77.1 |
| 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 | 75.9 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January ...-....- | 2,265 | 209, 812 | 124, 260 | 5.6 | 6,632 | 8,095 | 7,426 | 33,457 | 28, 057 | 5,400 | ------- | 58 | 95 | 80 |  | 4.0¢ | 73 | 74.6 |
| 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 | 71.7 |
| 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 | 70.0 |
| 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 | 69.7 |
| 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 | 70.3 |
| 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 | 68.3 |
| July . |  |  |  |  | 1,306 | 5, 348 | 5,348 |  |  |  |  | 32 | 41 | 41 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September-.------ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November.- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December.- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^24]Table 86.-PUBLIC UTILITIES

| $\begin{gathered} \text { Year } \\ \text { AND } \\ \text { MONTH } \end{gathered}$ | TELEPHONE COMPANIES |  | TELEGRAPH |  |  | $\begin{gathered} \text { GAS AND } \\ \text { COMETMEIC } \\ \text { COMPANIES } \end{gathered}$ |  | $\left\lvert\, \begin{gathered} \text { ELEC- } \\ \text { TRIC } \\ \text { PAWES } \\ \text { SALES } \end{gathered}\right.$ | ELECTEIC POWER PRODUCTION |  |  |  |  |  |  |  | $\begin{aligned} & \text { ELECTRIC } \\ & \text { RAKLWAYS } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total operating nues | Net operating in= come | Com-mer-cialtele-graphtolls | Telegraph and operating revenues | Operating come | Gross earnings | Net earnings |  | United states * |  |  |  |  | Canada * |  |  | $\left\lvert\, \begin{gathered} \text { Passen- } \\ \text { gers } \\ \text { carried } \end{gathered}\right.$ | $\left\|\begin{array}{c} \text { Aver- } \\ \text { age } \\ \text { fares ? } \end{array}\right\|$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  | $\mathrm{In}^{\text {In }}$ |  |  |  |  |  |
|  |  |  |  |  |  |  |  | $\underset{\text { Gross }}{\text { revenue }}$ | Total | $\begin{aligned} & \text { By } \\ & \text { water } \\ & \text { power } \end{aligned}$ | Ry | central stations | pl'ts, street etc. | Total | $\left\lvert\, \begin{gathered} \text { By } \\ \text { water } \\ \text { power } \end{gathered}\right.$ | $\begin{gathered} \text { Ex- } \\ \text { port- } \\ \text { ed } \end{gathered}$ | $\begin{array}{\|l} 212 \text { com- } \\ \text { panies } \end{array}$ | $\stackrel{272}{\text { cities }}$ |
|  | Thousands of dollars |  |  |  |  |  |  |  | Millions of kilowatt-hours |  |  |  |  |  |  |  | Thous of persons |  |
| 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, 630 | 90, 162 | 26, 157 | 60, 083 | ${ }^{8} 3,144$ | ${ }^{8} 209$ | 81,935 |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |
| $1921 \mathrm{~m} . \mathrm{a}$ - | 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 |  |  |  |  |  |
| $1922 \mathrm{~m} . \mathrm{a}$ - | 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 | 1,684 | 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 | 5,488 | 1,863 | 3, 626 | 5,118 | 371 | 824 | 811 | 107 | 784, 896 | 7.560 |
| 1926 m .a- | 60,483 | 14, 560 | 10,829 | 13,372 | 1,765 | 166, 285 | 59, 590 | 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 | 6,908 | 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 |
| $\begin{gathered} 1929 \\ \text { May } \end{gathered}$ | 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, 000 | 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 | 18302 | 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 |
| $\begin{aligned} & 1930 \\ & \text { Jan... } \end{aligned}$ | 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 | 19,844 | 12,652 | 532 | 199, 500 | 90,000 | 185, 800 | 7,618 | 2, 205 | 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.-.- <br> O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Oct..... } \\ & \text { Nov.... } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec-...- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^25]Table 87．－RATE OF MANUFACTURING OPERATIONS ${ }^{1}$
（Based on consumption of electrical energy for power purposes）

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Year and Month} \& \multicolumn{6}{|c|}{Activity by Geographical Divisions} \& \multicolumn{13}{|c|}{Activity in leading industries thronghont the country} <br>
\hline \&  \&  \&  \&  \& E

0 \& $$
\begin{aligned}
& \text { E } \\
& \text { 岂 } \\
& \text { B } \\
& \text { B }
\end{aligned}
$$ \&  \& 苞 \&  \&  \& 震 \&  \&  \&  \&  \&  \&  \& 密 \&  <br>

\hline \& \multicolumn{19}{|c|}{1923－1925 monthly averagc $=100$} <br>
\hline 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 <br>
\hline 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 <br>
\hline 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 <br>
\hline 1926 monthly average．－ \& 113.5 \& 107.8 \& 114.4 \& 108.4 \& 115.8 \& 116． 5 \& 114.4 \& 103.4 \& ${ }^{2} 112.9$ \& 117.1 \& 116.9 \& 96.4 \& 117.1 \& 115.5 \& 110.0 \& 120.8 \& 120.0 \& 110.0 \& 113.7 <br>
\hline 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 <br>
\hline 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 <br>
\hline 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 \& 138.0 <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline \multirow[t]{2}{*}{$$
\begin{array}{r}
1927 \\
\text { September.---- }
\end{array}
$$} \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline \& 118.4 \& 114.0 \& 116． 4 \& 111.6 \& 136.8 \& 124.6 \& 122.6 \& 127.4 \& \multirow[t]{2}{*}{$$
\begin{array}{|l|}
109.6 \\
111.8
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 105.2 \\
& 109.7
\end{aligned}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 107.4 \\
& 110.8
\end{aligned}
$$
\]} \& \multirow[t]{2}{*}{105.9

111.0} \& 141.3 \& 122.7 \& 114.4 \& 106.6 \& 118． 2 \& 121.2 \& 109， 5 <br>
\hline October．． \& 119.9 \& 114.0 \& 115.0 \& 111.5 \& 134.4 \& 125.7 \& 115.8 \& 120.8 \& \& \& \& \& 139.2 \& 127.7 \& 115.6 \& 117.2 \& 111.0 \& 125． 4 \& 114.2 <br>

\hline November \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 115.2 \\
& 109.8
\end{aligned}
$$} \& 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 <br>

\hline December． \& \& 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 <br>
\hline 1928 \& \multicolumn{19}{|l|}{} <br>
\hline 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 <br>
\hline 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 <br>

\hline March． \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 118.2 \\
& 119.3
\end{aligned}
$$} \& 118.9 \& 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 <br>

\hline April \& \& 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 <br>
\hline 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 \& 129.3 \& 105.7 \& 141.6 <br>
\hline 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 <br>

\hline July \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 120.2 \\
& 120.8
\end{aligned}
$$} \& 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 <br>

\hline August \& \& 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 <br>
\hline 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 <br>

\hline October－．． \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 132.0 \\
& 133.3
\end{aligned}
$$} \& 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 <br>

\hline November \& \& 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 <br>

\hline December． \& $$
\begin{aligned}
& 133.3 \\
& 127.3
\end{aligned}
$$ \& 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 <br>

\hline \multicolumn{20}{|l|}{1929} <br>
\hline January ．－． \& 132.5 \& \multirow[t]{2}{*}{127.6
132.8} \& 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 \& 187.4 \& 129.4 \& 149， 4 <br>
\hline February． \& \multirow[t]{3}{*}{140.4 135.7 136.4} \& \& 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 <br>
\hline March \& \& \multirow[t]{2}{*}{130.8
125.4} \& 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 <br>
\hline April． \& \& \& 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 <br>

\hline May \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 136.9 \\
& 135.2
\end{aligned}
$$} \& 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 <br>

\hline June． \& \& 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 <br>

\hline July．． \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 129.0 \\
& 128.2
\end{aligned}
$$} \& 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 <br>

\hline August \& \& 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 <br>

\hline September－ \& \multirow[t]{4}{*}{$$
\begin{aligned}
& 135.8 \\
& 134.6 \\
& 122.9 \\
& 116.4
\end{aligned}
$$} \& 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 <br>

\hline October．－ \& \& 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 <br>
\hline November \& \& 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 <br>
\hline December \& \& 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 <br>
\hline \multicolumn{20}{|l|}{1930} <br>

\hline January－． \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 121.8 \\
& 123.5
\end{aligned}
$$} \& 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 <br>

\hline February． \& \& 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 <br>

\hline March．－－．－．－－－－－－－－．．． \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 120.2 \\
& 120.3
\end{aligned}
$$} \& 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 <br>

\hline  \& \& 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 <br>

\hline May ．－． \& \multirow[t]{3}{*}{$$
\begin{aligned}
& 119.0 \\
& 115.3 \\
& 105.1
\end{aligned}
$$} \& 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 <br>

\hline June．． \& \& 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 <br>
\hline July．．．．．．．．．．－．－． \& \& 87.9 \& 109.9 \& 102.9 \& 106.5 \& \& 140.6 \& 139.2 \& 109.7 \& 95.1 \& 109.5 \& 97.3 \& 100.0 \& 119.9 \& 103.8 \& 116.8 \& 110.8 \& 79.7 \& 85.3 <br>
\hline \multicolumn{20}{|l|}{} <br>
\hline \multicolumn{20}{|l|}{\multirow[t]{2}{*}{September}} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline \multicolumn{20}{|l|}{| October $\qquad$ |
| :--- |
| November $\square$ |} <br>

\hline \multicolumn{20}{|l|}{\multirow[t]{2}{*}{December．}} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline
\end{tabular}

[^26]
## Table 88．－EMPLOYMENT——INDUSTRIAL，RALLWAY，MINING，AND FEDERAL

| $\begin{aligned} & \text { Year and } \\ & \text { MONTH } \end{aligned}$ | FACTORY EMPLOYMENT，INDEXES BY GROUPS ： |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | RAILWAYS ${ }^{\text {2 }}$ |  | $\begin{aligned} & \text { ANTHRACITE } \\ & \text { MINES } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ＇${ }^{\text {\％}}$ |  |  | 융 |  | $\underset{d}{d}$ | $\begin{gathered} \text { Trans] } \\ \quad \text { equ } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { port. } \\ & \text { ipop. } \end{aligned}$ |  |  |  | $\begin{gathered} \text { Cheml- } \\ \text { cals } \end{gathered}$ |  |  |  |  |  | 若 | $\begin{aligned} & \text { تٍ } \\ & \stackrel{\rightharpoonup}{4} \\ & \text { en } \end{aligned}$ |
|  |  |  | $\begin{aligned} & \text { 总 } \\ & \text { 苞 } \\ & \text { 㐓 } \end{aligned}$ |  | $\begin{aligned} & \text { E } \\ & \text { 苟 } \\ & \text { 苟 } \\ & 0 \end{aligned}$ |  |  | 苞 |  |  |  |  | 合 |  |  |  |  |  |  |  |
|  | Relative to 1923－1925 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Thou－ sands | $\begin{aligned} & \text { Dol- } \\ & \text { lars } \end{aligned}$ | $\begin{aligned} & \text { Relative to } \\ & 1923-1925 \end{aligned}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1915 \text { mo. av.... }$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1916 mo．av． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1，647 | \＄0． 276 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1，733 | ． 313 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1，842 | ． 463 |  |  |
| $\begin{aligned} & 1918 \text { mo. av.... } \\ & 1919 \text { mo. av } \end{aligned}$ | 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 |  |  |
| $\begin{aligned} & 1920 \mathrm{mo} \text { av...- } \\ & 1921 \mathrm{mo.} \text { av.... } \end{aligned}$ | 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 |  |  |
|  | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| July <br> August | 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 |
|  | 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 | 88.9 | 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 |
| $1929$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| February－－－－－－ | 97.4 99.7 | 97.1 98.3 | 110.4 | 95.9 98.0 | 98.6 98.8 | 102.5 | 85.5 85.8 | 94.0 99.0 | 118.3 | 91.9 94.1 | 84.3 84.5 | 102.4 | 107．6 | 104.0 106.7 | 112.2 | 84.1 92.0 | 1，595 | ． 657 | 109.8 | 112.6 |
| 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 | 1041 | 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．．．．．－December．－． | 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 |
|  | 94.8 | 82.2 | 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 |
| 1930 | 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 | 921 |
| 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 | 78.4 | 84.3 | 112.5 | 118.5 | 87.2 | 89.6 | 1，547 | ． 658 | 83.3 | 67.1 |
|  | 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 | 741 |
| July ．．．．．．．．．．．．－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 923 | 71.6 |
| August．．．－－．－－－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September－－－－－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November－．．．－－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December．．．－－－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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，Burnauk ofithe Census and several other Federal and State governmental agencies．The indexes represent in their long－time fluctuations employment and pay rolls in all manufarturing：
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 accoumted 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 Federaf Reserve Bulletin for November， 1929, pp． $706-716$ ．
${ }^{2}$ Compiled from reports of Class I carriers and 15 switching and terminal companies to the Interstate Commerce Commission．The eomputation of average wages excludes ${ }^{2}$ Compiled from reports of Class I carriers and 15 switching and terminal companies to the Interstate Commer
erficials included in total on pay roll．Monthly data from 1920 given in January，1923，issue（No．17），p．51．

Table 89.-EMPLOYMENT IN FACTORIES, BY U. S. GOVERNMENT AND IN CONSTRUCTION
[Hase year in bold-faced type]


1Compiled 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), D. 24.
${ }^{2}$ 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
${ }_{3}$ method. 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.
data 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 the New Jersey Department of Labor.
${ }^{5}$ Compiled by the Illinois Department of Labor from reports of manufacturing establishments, based on the pay roll nearest the 15 th of the month.
${ }^{6}$ 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.
frms frompiled from data furnished by the Iowa Bureau of Lator from reports of about 300 frms, 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.
${ }^{8}$ Compiled by the Cleveland Chamber of Commerce from reports of representative manufacturers in Cleveland.
${ }^{-}$Compiled by the Mitwaukee 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.

10 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.
11 Compiled by the Ohio State University, Bureau of Business Research, from reports of about 600 manufacturers in Ohio. Details by industries and by cites
${ }^{11}$ 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.
additions and separations, Sr. Civil Service Commission, giving number of civilian employees carried on rolls at end of each month. Details by departments, with data on dditions and separations, are given in the monthly reports.
${ }^{13}$ Compled by the Ohio State University, Bureau of Business Research, based on reports from firms engaged in general contracting throughout Ohio. Employment in artisans, laborers, and foremen, and part-time workers are reduced to 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
is 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.
${ }^{16} 7$ month's average, June to December, inclusive.
169 month's average, from April to December, inclusive.

Table 90.-EMPLOYMENT AGENCIES, TRADÈ -UNIONS, AND INDUSTRIAL DISPUTE

${ }^{1}$ Compiled from weekly reports to the U. S. Department of Lator, 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 nlinois, Lndiana, Iowa, Kansas, Michigan, Minnesota, Texas, and Virginia. Western States include Arizona, California, Colorado, Idaho, Oregon, and Washington; Montana is included beginning with March 1922 its Texas, and Virginia. Western States include Arizona, California, Colorado, Idaho, Oregon, and Washington; Montana is included beginning with March, 1922 , its of Wisconsing. 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 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.
${ }^{2}$ 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, Suryex, p. 109.

Compiled by the Dominion Department of Labor covering empleyment 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.
${ }^{4}$ 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

Table 91.-WAGES AND PAY ROLLS, BY STATES


[^27]Table 93.-PAY ROLL AND HOURS IN FACTORIES


[^28]Table 94.-FACTORY OPERATIONS AND LABOR TURNOVER

${ }^{1}$ 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.
indicate the apra, compied my multiplying tho 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.
${ }^{3}$ 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 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.

A Average of last 10 months of year.
${ }^{5}$ Includes enameled ware, bronze, and copper products.

Table 95.-FACTORY FORCES RELATIVE TO CAPACITY ${ }^{1}$

| Yrar and Month | Total, <br> 12 <br> groups | Food and kindred products | Textiles and their products | Iron <br> and <br> steel and their products | Lum= ber and its manufacture | Leather and its finIshed products | Paper and printIng | Chemicals and other products | Stone clay, and glass produets | Nonferrous metals ${ }^{2}$ | Tobacco manu-tacture | Vehim cles for. land trans-portation | $\begin{aligned} & \text { Miscel- } \\ & \text { lane- } \\ & \text { ous } \\ & \text { indus- } \\ & \text { tries } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Per cent of full capacity |  |  |  |  |  |  |  |  |  |  |  |  |
| 1924 monthly average ${ }^{\text {c/ }}$ | 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 a verage.. | 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 |
| 1927 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January .-. | 91 | 88 | 89 | 88 | 82 | 87 | 86 | 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 |
|  | 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 | 93 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January .-... | 87 | 89 | 8.5 | 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 | 09 | 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-............-. |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 os Labor Statistics.
${ }^{1}$ Includes enameled ware, bronze, and copper products.
\& A verage of last 10 months of year.

Table 96.-POSTAL BUSINESS AND ADVERTISING


1 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 incrase in the rate for first-class letter mail from 2 cents per ounce or fraction thereor prior to Nov. 1,1917 , to 3 cents per ounce or fraction thereof, fromin 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 ${ }_{2}$ entirely to matter other than first class have operated to increase the magnitude of these data, hereby afiecting their comparability from this point forward.
${ }^{2}$ Note that these data rom U. S. Post Office Department represent quarters ending in the months specified and the annual figures represent quarterly averages for each year, not monthater increases on second-class mail as follows, compared with a flat rate of 1 cent per pound previous to July l, 1918. From July 1,1918 , to June $30,1919,1 / 4$ cents, and since July 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
${ }_{3}$ Total of 50 cities transacting two-thirds of the total money-order business of the country from the $U$. S. Post Offce 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.
${ }^{4}$ Money orders issued to 67 principal foreign countries, representing practically"the total international money orders issued by U. S. Post Office Department.
© 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, 1928, appeared in the June, 1928, 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.
${ }^{6}$ 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 identical magazines. For earlier years the magazines covered are not entirely identical but represent the field with equal thoroughness.

TCompiled 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.
${ }^{8}$ 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.
g 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.
${ }^{11} 11$ months' average, February to December, inclusive.

Table 97.-MAIL-ORDER AND CHAIN-STORE SALES

${ }^{1}$ Sales of two principal mail-order houses include Sears, Roebuck \& Co., and Montgomery Ward \& Co.
${ }^{2}$ 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 $\$ 560,733,589$ 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 adjustraent to eliminate the influ ence 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),
 issue of the SURVEY (No. 81), p. 20.

Table 98.-TEN-CENT CHAIN STORES ${ }^{1}$.

| $\begin{gathered} \text { Year and } \\ \text { Month } \end{gathered}$ | TOTAL ${ }^{2}$ <br> (4 chains) |  | $\begin{gathered} \text { WOOLWORTH } \\ \text { CO. } \\ \text { W. } \end{gathered}$ |  | S.S. KRESGE |  | $\begin{aligned} & \text { MeCRORY } \\ & \text { STORES } \\ & \text { CORP. } \end{aligned}$ |  | $\begin{aligned} & \text { S. H. KRESS } \\ & \text { CO. } \end{aligned}$ |  | $\begin{aligned} & \text { METRO- } \\ & \text { POLITAAN } \end{aligned}$ |  | $\text { F.\& } \mathbb{G} \text {. }$ |  | W. T. GRANT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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. | $\underset{\text { ber }}{\text { Num- }}$ | Thous. of dolls. | $\begin{gathered} \text { Num- } \\ \text { ber } \end{gathered}$ | Thous. of dolls. | $\underset{\text { ber }}{\substack{\text { bum }}}$ | Thous. of dolls. | $\underset{\text { ber }}{\substack{\text { Num }}}$ | Thous. of dolls. | $\begin{gathered} \text { Num- } \\ \text { ber } \end{gathered}$ | Thous. of dolls. | $\begin{gathered} \text { Num- } \\ \text { ber- } \end{gathered}$ |
| 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 . $\mathrm{av}^{\text {. }}$ | 35, 038 | 2,065 | 19,912 | 1,420 | 8,831 | 298 | 2,465 | 181 | 3,830 | 168 | 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. a | 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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.-- | 42099 | 2,509 | 22, 400 | 1,652 | 11,834 | 450 | 3,099 | 223 | 4,786 | 184 | 1,027 | 94 | 1,259 | 70 | 4, 366 | 181 |
| July... | 38,760 | 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, 807 | 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 |
| 1939 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| 1930 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 | 2,808 | 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 | 2,335 | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^29]Table 99.-RESTAURANT AND OTHER CHAIN STORES ${ }^{1}$

| Year and Month | hestadrant chains |  |  |  |  |  |  |  | OTHER CHAIN STORES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total, 3 chains |  | Childs Co. |  | Waldorf System, Inc. |  | J. R. Thompson Co. |  | Isaac Silver \& Bros. |  | J. C. Penney Co. (elothlug) |  | G. C. Murphy |  |
|  | Sales | Stores | Sales | Stores | Sales | Stores | Sales | Stores | Sales | Stores | Sales | Stores | Sales | Stores |
|  | Thous. of dolls. | $\underset{\text { Num- }}{ }$ | Thousof dolls. | $\underset{\text { ver }}{\text { Num- }}$ | Thousof dolls. | $\underset{\text { Ner }}{\text { Num- }}$ | Thousof dolls. | $\underset{\text { Ner }}{\text { Num- }}$ | Thous. of dolls. | $\underset{\text { Ner }}{\text { Num- }}$ | Thous. of dolls. | $\underset{\text { ber }}{\text { Num- }}$ | Thous. of dolls. | $\underset{\text { ber }}{\text { Num- }}$ |
| 1913 monthly averago. |  |  | \$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 | 2 \$170 | ${ }^{2} 6$ | 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 |
| $19 \% 8$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1,020 | 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 | 2,309 | 113 | 1,363 | 134 | 1,255 | 124 | 1,361 | 31 | 25, 105 | 1,023 | 2,450 | 133 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1f, 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January .- | 4,989 | 374 | 2,307 | 111 | 1,382 | 142 | 1,300 | 121 | 457 | 43 | 10,611 | 1,395 | 939 | 154 |
| Fobruary | 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 | 15,823 | 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 -.-.---. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1 Data compiled from published reports in Anancial 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 Waldori 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 into the Waldori 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 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.
${ }_{2} 7$ months' average, June to December, inclusive.

Table 100.-DEPARTMENT-STORE SALES


Table 101.-DEPARTMENT-STORE STOCKS ${ }^{1}$

| Year and Month | VALUE OF STOCKS AT END OF MONTH, HY FEDERAL RESERVE DISTRICTS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United States |  | Boston | New York | Philadelphia | Cleveland | Richmond | Atlanta | Chicago | st. Louls | Minneapolis | $\underset{\text { City }^{2}}{\text { Kansas }}$ | Dallas | San <br> Francisco |
|  | $\underset{\text { Ad- }}{\text { Austed }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
| 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 |
| 1928 | 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 |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
|  | 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 December. | 102 | 115 | 110 | 125 | 103 | 107 | 114 | 104 | 131 | 103 | 77 | 130 | 93 | 119 |
|  | 100 | 94 | 94 | 104 | 84 | 85 | 92 | 84 | 107 | 83 | 65 | 106 | 73 | 102 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
|  | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | - |  |  |  |  |  |  |
| September.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October...- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^30] 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, 192

Table 102.-NATIONAL ADVERTISING IN NEWSPAPERS ${ }^{1}$


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 | 1,936 | 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 |
| $\begin{array}{r} 1929 \\ \text { January---- } \end{array}$ | 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 |
| $\begin{array}{r} 1930 \\ \text { January.-. } \end{array}$ |  |  |  |  |  |  |  | 395 |  |  |  |  |  |  |
| February | 44,996 | 6,497 | 3,383 | $\begin{array}{r}\text { 5, } \\ 5 \\ \hline\end{array} 221$ | 182 | 615 | 5,335 6,766 | 275 | 6,456 6,206 | 1,003 1,700 | 3,177 | 2,432 | 2,461 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.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1 Compiled by the Media Records Incorporated, New York City. These data are derived by actual measurement of space and represent the amount of national advertising appearing in all newspapers, both daily and Sunday, of the following 50 identical cities: Akron, Albany, Atlanta, Baltimore, Birmingham, Boston, Buffalo, Chicago, Cleveland, Cincinnati, Columbus, Dallas, Dayton, Denver, Des Moines, Detroit, Hartford, Indianapolis, Kansas City, Mo., Knoxville, Los Angeles, Louisville, Memphis, 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 ${ }^{1}$ 

(Association of Life Insurance Presidents)

| Year and Monte | NEW BUSINESS |  |  |  |  |  |  |  | PREMIUM COLLECTIONS (new and renewal) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ordinary |  | Industrial |  | Group |  | Total |  | $\begin{aligned} & \text { Ordi- } \\ & \text { nary } \end{aligned}$ | Indus- trial | Group | $\operatorname{Annu}_{\text {itios }}$ | Total |
|  | Number policies | Thousands of dollars | Number policies | Thousands of dollars | Number of certificates ${ }^{2}$ | Thousands of dollars | Number of policies and certiicates | Thousands 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 | 560, 703 | 89, 242 | 25,751 | 1,621 |  | 116, 614 |
| 1023 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 |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 1-ic, 916 | 51, 509 | 5,574 |  | 211, 999 |
| July | 249, 738 | 660, 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, 544 | 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 | 26,85s | 58, 607 | 1,157, 187 | 972,928 | 160,630 | 51,956 | 17,660 |  | 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, 238 | 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, 196 | 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, 928 |
| 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October-- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^31]Table 104.-LIFE INSURANCE-ASSETS AND NEW BUSINESS BY DISTRICTS

| $\begin{aligned} & \text { Year and } \\ & \text { Monti } \end{aligned}$ | ADMITTED ASSETS : |  |  |  |  |  |  |  |  |  | NEW BUSINESS, ORDINARY INSURANCE |  |  |  |  |  | $\begin{gathered} \text { CANA- } \\ \text { DIAN } \\ \text { SALES, } \\ \text { ORDI- } \\ \text { NARY } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grand total | Mortgage loans |  |  | Bonds and stocks (book values) |  |  |  |  | Policy loans and pream notes | United <br> States, total | Eastern manu-factur-ing | Western manuing | Western agricultural | $\begin{aligned} & \text { South- } \\ & \text { ern } \end{aligned}$ | $\begin{gathered} \text { Far } \\ \text { Fest- } \\ \text { ern } \end{gathered}$ |  |
|  |  | Total | Farm | $\stackrel{\text { All }}{\text { other }}$ | Total | Gov-ernment | Railroad | $\begin{gathered} \text { Pub- } \\ \text { lie } \\ \text { utill- } \\ \text { ties } \end{gathered}$ | All |  |  |  |  |  |  |  |  |
|  | Millions of dollars |  |  |  |  |  |  |  |  |  | Thousands of dollars |  |  |  |  |  |  |
| 1921 mo.av.- |  |  |  |  |  |  |  |  |  |  | \$425,092 | \$154, 321 | \$00, 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. $\mathrm{av}^{\text {- }}$ | \$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 |
| $1927 \mathrm{mos.av.}$. | 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, 581 | 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, 138 | 118, 597 | 91,381 | 81, 308 | 51, 227 |
| $\begin{gathered} 1928 \\ \text { May.......... } \end{gathered}$ | 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.-. | 12,496 | 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 |
| $\begin{array}{r} 1929 \\ \text { January } \end{array}$ | 12, 082 | 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 |
| $\begin{gathered} 1930 \\ \text { January } \end{gathered}$ | 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 |
| August. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December--- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 $981 / 2$ per cent are bonds and $1 \frac{1}{2} 2$ 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.
${ }^{2}$ Represents data on ordinary life insurance only (thus excluding industrial and group insurance) compiled by the Life Insurance Sales Resaarch Bureau from 81 insur-
ance companies who held on Jan. 1, 1927, 90 per ceat, and 78 companies after Jan. 1928 , who held 88 per cent of the total ordinary legal life reserve in force in ance companies who held on Jan. 1, 1927, 90 per ceat, and 78 companies after Jan. 1, 1928, who held 88 per cent of the total ordinary legal life reser ve in force in the United
States. Monthly data for 1921 were given in the A pril, 1924 issue (No. 32 ) 56 . The Eastern Manufacturing district includes Main New Hamphire Verme States. Monthly data for 1921 were given in the April, 1924, issue (No. 32), p. 56 . The Eastern Manujacturing district includes Maine, New Hampshire, Vermont, Massa-
chusetts. Rhode Island, Connecticut, New York, New Jersey, and Pennsylvania; Western Manufacturing district-Ohio, Indiana, Mlinois, Michigan, and Wisconsin; Western Agricultural district-Minnesota, Mowa, Missouri, North Dakota, Texas, South Dakota, Nebraska, Kansas, Arkansas, Louisiana and Oklaboma Southern district-Del Agricullural distich Minesota, Mow, aware, Maryland, District of Columbia, Virginia, West Virginia, North Caroinna, South Caroina, Georgia, Florida, Kentucky, Tennessee, Alabama, and Mississippi; ${ }^{3}$ Compiled by the Life Insurance Soles Research Bureau from reports of companies which had on Jan. 1, 1927, 84 per cent of the Jegal ras in Canada. Details by Provinces are given in the bureau's monthly reports.

Table 105.-BANKING


1 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 bouse 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 . 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.
${ }_{2}$ Canadian bank debits are represented by bank clearings, showing volume of check transactions passing through 16 clearing houses as compiled by Bradstreet's.
${ }^{2}$ 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, aro compiled by the Federal Reserve Board. The condition is given as of the last Wednesday of the month, but prior to $\Lambda$ pril, 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 noteliabilities. 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.
a 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).
${ }^{5}$ 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 contined 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 ircm 1917 were published in the November, 1926, issue of the Federal Reserve Bulletin, pp. 779786.
, 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, total ing about tiso banks. For the intervening months, for which igures wore compied beginning 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.
' 3 months' average, October to December, inclusive.

Table 106.-GOLD, SILVER, AND MONEY


[^32]Table 107.-PUBLIC FLNANCE, INTEREST RATES, AND BOND YIELDS

| Year and Monti | UNITED STATES GOVERNMENT FINANCES ${ }^{1}$ |  |  |  | INTEREST RATES |  |  |  |  |  |  | BOND YIELDS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gross debt, end of mo. | Cus$\underset{\text { re- }}{\text { coms }}$ ceipts | Total ordinary receipts | $\begin{array}{\|c\|} \text { Ordi- } \\ \text { nary } \\ \text { expendi- } \\ \text { tures } \end{array}$ | Stock Exchange |  | $\begin{gathered} \text { Prime } \\ \text { comi } \\ \text { paper } \\ \text { 4-6 } \\ \text { mos. } \\ \left({ }^{2}\right) \end{gathered}$ | Prime bankers ceptances days | Fed. land (4) | Intermed. credit banks (4) | Redis.N. Y.Yed.Res.Rk.(b) | Treas notes and 3-6 mos. ${ }^{(2)}$ | Lib-ertyandTreas.bds.( ${ }^{2}$. | Total,6ohigh-gradebds.(3) | $\begin{gathered} \text { 15 } \\ \text { rail- } \\ \text { roads } \\ \left({ }^{3}\right) \end{gathered}$ | $\begin{gathered} 15 \\ \begin{array}{c} 15 \\ \text { in- } \\ \text { dus- } \\ \text { trial } \\ (3) \end{array} \end{gathered}$ | $\begin{gathered} \text { 15 } \\ \text { utili- } \\ \text { ties } \\ \left({ }^{3}\right) \end{gathered}$ | $\underset{\substack{\text { nici- } \\ \text { mal } \\ \text { mis }}}{\substack{\text { mul }}}$ |
|  |  |  |  |  | Call loans re- new- al (2) | Time loans ge days $\left({ }^{2}\right)$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |  |  | 6 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. 50 | 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 | ${ }^{7} 5.50$ | 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 | ${ }^{8} 3.46$ | 4.47 | 4.31 | 4.83 | 4.78 | 3. 98 |
| 1928 monthly av..- | 17,604 | 47,415 | 336, 862 | 303, 627 | 8.04 | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| $\begin{array}{r} 1930 \\ \text { January }--. \end{array}$ | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | , |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 in the preliminary debt statement, where further ditails may fe obtained. Mont tho months are on a an 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 ardinary receipts.
${ }^{2}$ 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.
${ }^{3}$ 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 industrias and public utilities exclude Angust through November, and the average ior municipals excludes August through December.
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 tespective 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 foree.
${ }^{6}$ 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.

6 A verage of 8 months, May to December, inclusive.
${ }_{9}$ Average of with Bentan, Liberty bonds are excluded, and the average yield is calculated upon 3 issues of Treasury bonds ( $3 \frac{3}{4}, 4$, and $4 \frac{1}{4}$ ) 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

${ }^{1}$ Average market yield of bonds of 20 large cities at the end of each month compiled by The Bond Buyer. A verages 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.
${ }^{2}$ Bond sales from Dow, Jones \& Co.; stock sales from the Annalist. These data inciude 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 iteros in this table in the May, 1922, issue (No. 9), pp. 125 and 129.
${ }^{3}$ 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.

Prices are averages daily closing prices for these stocks 1922, issue (No. 16), p. 47.
Matations 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).

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 ${ }^{2}$ 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.
${ }^{8}$ Compiled by the New York Tr ust 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.

07 months' average, June to December, inclusive.
105 substitutions in this series in January, 1922, account for the violent change in the index.
S' 10 months' average, March to December, inclusive.

Table 109.-STOCK PRICE INDEXES BY GROUPS AND YIELDS ${ }^{1}$

${ }^{1}$ 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 eqnal to 100. Weekly indexes have been averaged to give monthly data. Indnstrial stock yields have been computad by dividing the total annual dividend rate each month by the total of monthly prices, using the cash dividends, on an annual basis, are added to regular dividends and are considered to be part of such rear since 1914 have been noluded vidend 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

${ }^{1}$ Compiled by the Commercial and Financial Chronicle, except ior 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.
${ }_{3}^{2}$ 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.
${ }^{3}$ 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.
${ }^{4}$ 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).
loan banks being established by the Governmenting, represent loans made for agricultural development secured by mortgages on land and huildings, 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
(No. 22), p. 47.
${ }^{6}$ 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, Nebr.; 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
${ }^{7}$ 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 igitized for FRiatafrom 1914 appeared in the April, 1928, issue (No. 80), p. 22.

Table 111.-NEW SECURITY ISSUES BY CLASSES ${ }^{1}$

${ }^{1}$ 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 indistrials. 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 boads. 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 sind of structure, the coupon rates on the long-term real-estate bonds issued during the month.

Table 112．－BUSINESS PROFITS AND LOSSES

| Year and Month | BUSINESS FAILURES ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  | DIVIDEND AND INTEREST PAYMENTS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total commercial |  | Manufac－ turing establish： ments |  | Trade estab－ lishments |  | $\begin{array}{\|l\|} \text { Agentsand } \\ \text { brokers } \end{array}$ |  | $\underset{(\text { quarterly })}{\text { Banks }}$ |  | Canadian ${ }^{2}$ |  | Total divi－ dend and interest pay－ ments ${ }^{3}$ | Interest pay－ ments | Dividend payments |  |  |  |
|  |  |  |  | dus－ |  |  |  |  |  |  |  |  |  |  |
|  |  | 昆 |  |  |  | ${ }_{\text {B }}^{0}$ |  |  |  |  |  | 品 |  |  |  | 品 |  | 㿮 | Total | trial and miscel－ lane－ ous | $\begin{aligned} & \text { Steam } \\ & \text { rail- } \\ & \text { roads } \end{aligned}$ | $\begin{aligned} & \text { Street } \\ & \text { rail- } \\ & \text { ways } \end{aligned}$ |
|  | Thous． of dolls． | No． | Thous． of dolls． | No． | Thous． of dolls | No． | Thous． of dolls | No． | Thous． of dolls | No． | $\left\lvert\, \begin{gathered} \text { Thous. } \\ \text { of } \\ \text { dolls. } \end{gathered}\right.$ | No． | Thousands of dollars |  |  |  |  |  |
| 1913 monthly av | \＄22，818 | 1，336 | \＄10，366 | 353 | \＄9，583 | 929 | \＄2， 869 | 54 | 4\＄7，887 | ${ }^{4} 30$ | \＄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， 503 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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， 800 | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | － |  |  |
| 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 | 16，680 | 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 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 418， 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． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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 cormmercial 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 0.34 ），p． 55.
${ }^{2}$ Canadian business failures from Bradstreet＇s．
${ }^{8}$ Data compiled by New York Journal of Commerce．＂Total dividends＂include bank dividends not separately shown for tbose 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 Sur ver，p． 51 （Cigure 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．

Yearly data are quarterly averages．

Table 113．－BUSINESS FAILURES BY GROUPS ${ }^{1}$

| Year and Month | MANUFACTURING ESTABLISHMENTS |  |  |  |  |  |  |  |  |  |  | TRADE ESTABLISHMENTS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | $\begin{aligned} & \text { 巻 } \\ & \text { E } \\ & \text { E } \end{aligned}$ |  | 台 |  |  |  |  |  |  |  | Total |  |  |  |  |  |  | 彦 |
|  | 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 | 168 | 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 a verage | 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 | 60 | 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 |  | 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 |  | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 | 553 | 35 | 74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January．．． |  |  |  | 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＿－ | $\begin{aligned} & 546 \\ & 432 \end{aligned}$ | 42 | 65 | 93 | 12 | 13 | 43 | 16 | 7 | 10 | 245 | 1，566 | 103 | 440 | 320 | 283 | 71 | 14 | 335250 |
|  |  | 44 | 49 | 70 | 11 | 19 | 42 | 7 | 8 | 9 | 173 | 1，276 | 85 | 393 | 263 | 220 | 56 | 9 |  |
| May－．： | 470 | 36 | 57 | 77 | 6 | 11 | 31 | 14 |  | 9 | 223 | 1，407 | 93 | 408 | 265 | 263 | 60 | 14 | 295 |
| June．－ | $\begin{aligned} & 513 \\ & 450 \end{aligned}$ | $\begin{aligned} & 40 \\ & 31 \end{aligned}$ | 67 | 76 | 7 | 18 | 45 | 11 | 5 | 9 | 235 | 1，325 | 78 | 426 | 248 | 228 | 57 | 7 | 281 |
| July |  |  | 61 | 69 | 5 | 16 | 47 | 18 | 3 | 5 | 195 | 1，161 | 77 | 387 | 202 | 179 | 55 | 14 | 247 |
| August | $\begin{aligned} & 450 \\ & 493 \end{aligned}$ | 36 | 59 | 60 | 4 | 22 | 51 | 8 | 6 | 10 | 237 | 1，241 | 54 | 423 | 210 | 171 | 71 | 11 | 307 |
| September $\qquad$ <br> October $\qquad$ |  | $\begin{aligned} & 35 \\ & 33 \end{aligned}$ | 7479 | 73 | 8 | 6 | 24 | 15 | 4 |  | 212 | 1，073 | $\begin{aligned} & 60 \\ & 87 \end{aligned}$ | 376 | 168 | 187 | 43 | 13 | 226 |
|  | 454 |  |  | 94 | 13 | 18 | 47 | 14 | 6 | 7 | 217 | 1，369 |  | 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 |
| 1929 | 614 | 30 | 75 | 92 | 11 | 25 | 47 | 24 | 9 | 15 | 286 |  |  |  |  |  | 66 | 17 | 346 |
| February－ | 478 | 40 | 54 | 88 | 6 | 15 | 39 | 10 | 7 | 4 | 215 | $\begin{aligned} & 1,769 \\ & 1,378 \end{aligned}$ | 116 111 | $\begin{aligned} & 499 \\ & 424 \end{aligned}$ | $\begin{aligned} & 351 \\ & 246 \end{aligned}$ | 374 266 | 51 | 13 | 267 |
| March． | 512 | 40 | 60 | 103 | 12 | 10 | 44 | 11 | 8 | 9 | 215 | 1，349 | 101 | 429 | 233228 | $\begin{aligned} & 257 \\ & 252 \end{aligned}$ | $\begin{aligned} & 69 \\ & 79 \end{aligned}$ | 915 | 251280 |
| April．－－ | 499 | 34 | 52 | 87 | 15 | 16 | 48 | 13 | 4 | 4 | 226 | 1，388 | 88 | 446 |  |  |  |  |  |
| 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 | － | 15 | 31 | 10 | 7 | ， | 193 | 1，190 | 6872 | 406399 | $\begin{aligned} & 201 \\ & 163 \end{aligned}$ | $\begin{aligned} & 180 \\ & 179 \end{aligned}$ | 5464 | 515 | 278271 |
|  | 482 | 35 | 48 | 102 | 11 | 11 | 34 | 4 | 6 | 6 | 225 | 1，163 |  |  |  |  |  |  |  |
|  | $\begin{aligned} & 427 \\ & 483 \\ & 481 \\ & 559 \end{aligned}$ | $\begin{aligned} & 29 \\ & 35 \\ & 41 \\ & 50 \end{aligned}$ | $\begin{aligned} & 48 \\ & 66 \\ & 70 \\ & 69 \end{aligned}$ | $\begin{array}{r} 77 \\ 94 \\ 82 \\ 112 \end{array}$ | 83 | $\begin{aligned} & 10 \\ & 10 \end{aligned}$ | $\begin{aligned} & 38 \\ & 36 \end{aligned}$ | $11$ | 3 | 9 | 194 | 1，039 | 60 | 363 | 168 | 127 | 54 | 11 | 256 |
|  |  |  |  |  |  |  |  | $17$ | 4 | 8 | 210 | 1，211 | 78 | 408 | 191 | 167 | 86 | 10 | 271 |
| November． |  |  |  |  | 10 | 13 | 37 | 6 | 7 | 12 | 203 | 1，166 | 67 | 374 | 198 | 177 | 69 | 5 | 276 |
| December．－ |  |  |  |  | 11 | 11 | 28 | 18 | 6 | 8 | 246 | 1，344 | 102 | 386 | 244 | 209 | 90 | 6 | 307 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  | 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 | － | 7 | 222 | 1，393 | 73 | 365 | 264 | 259 | 93 | 13 | 326 |
| July |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August－－－－－－－．．．－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October．．． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| November．－ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 114.-CORPORATION PROFITS AND STOCKHOLDERS (Quarterly)

| Year and quarter | NET Profits ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  | STOCKHOLDERS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Industrial and miscellaneous |  |  |  |  |  |  |  | Pennsylvania R. R. Co. |  | U. S. Steel Corp. (common stock) |  |  | American Teleph. \& Teleg. Co. |  |
|  |  |  |  |  |  | $\begin{gathered} \text { ت} \\ \stackrel{\rightharpoonup}{6} \end{gathered}$ |  |  | F | $\begin{aligned} & \overrightarrow{0} \\ & \stackrel{\rightharpoonup}{4} \end{aligned}$ |  |  |  | $\underset{\text { mestic }}{\substack{\text { Do- }}}$ | $\begin{aligned} & \text { For- } \\ & \text { elgn } \end{aligned}$ | $\underset{\text { mostic }}{\substack{\text { Do- }}}$ | eign | $\begin{gathered} \text { Shares } \\ \text { held } \\ \text { brokers } \\ \text { bro } \end{gathered}$ | $\underset{\text { mostic }}{\text { Do- }}$ | $\underset{\text { eign }}{\text { For- }}$ |
|  | Millions of dollars |  |  |  |  |  |  |  |  |  |  |  |  | Number |  |  |  | Per ct. of total | Number |  |
| 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 | ${ }^{3} 42,020$ | ${ }^{3} 1,980$ | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 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 cuar. av- |  |  |  |  |  |  |  |  |  |  |  |  |  | 144, 380 | 2,963 | 91, 043 | 1,511 | 26.31 | 353, 217 | 3,706 |
| 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--- | ${ }_{881} 7$ | 251 | 57 | 194 | 272 | 249 307 | 82 | 37 | 17 | 32 | 10 | 11 | ${ }^{61}$ | 142,178 | 2,877 | 91,075 | 1,599 | ${ }^{26.23}$ | 415, 734 | ${ }_{5}^{5,248}$ |
| 1928 quar. av. | 888 | 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 | 33 | 21 | 16 | 84 | 174, 196 | 2,970 | 107, 345 | 1,982 | 23.85 | 453,085 | ${ }^{5} 320$ |
| 1924 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| March. |  |  |  |  |  |  |  |  |  |  |  |  |  | 142, 339 | 2,987 | ${ }^{97,135}$ | 1,542 | 22.39 | 296, 738 | 2,760 |
| June........ |  |  |  |  |  |  |  |  |  |  |  |  |  | 142, ${ }_{142} \mathbf{3} 5$ | 2,901 | 97,577 | 1,549 | 20.45 | 314, 227 | 2,875 |
| December.-- |  |  |  |  |  |  |  |  |  |  |  |  |  | 142, 261 | 2,913 | 94,708 | 1,577 | 26.21 | 341, 625 | 3,508 |
| 1925 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| March |  |  |  |  |  |  |  |  |  |  |  |  |  | 143, 224 | 2,939 | 02,552 | 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 | 2,886 | 89, 057 | 1,504 | 27.60 | 357, 242 | 4,347 |
| 1926 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| Decermber_- | 826 | 257 | 57 | 200 | 342 | 230 | 44 | 50 | 29 | 25 | 12 | 11 | 58 | 141, 202 | 2,913 | 84,447 | 1,582 | 23.99 | 393, 843 | 5,084 |
| 1927 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| March. | 745 | 265 | 59 | 206 | 227 | 253 | 78 | 46 | 18 |  | 11 | 10 |  | 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 |
| Decermber---- | 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 |
| $\begin{gathered} 1928 \\ \text { March.... } \end{gathered}$ | 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 |
| Decermber | 984 | 310 | ${ }^{64}$ | 246 | 373 | 301 | ${ }^{6} 6$ | 60 | 31 | 35 | 19 | 13 | 77 | 154,008 | 2,963 | 99, 174 | 1,612 | 24.15 | 449, 077 | 5,432 |
| 1929 |  |  |  |  | 260 | 344 |  | 70 |  |  |  |  |  |  |  |  |  |  |  |  |
| March. | 11,031 | 333 313 | ${ }_{68}^{70}$ | 245 | 200 | 344 414 | 138 | 88 | 32 | ${ }_{39}$ | ${ }_{21}^{23}$ | 14 | ${ }^{80}$ | 157, 1541 | 2,996 | - 101,767 | 1,804 | 23.68 | ${ }^{443,570}$ | ${ }^{5,415}$ |
| September..-- | 1,080 | 290 | 66 | 224 | 397 | 393 | 98 | 85 | 38 | 45 | 23 | 14 | 90 | 184, 997 | 2,931 | 107,747 | $\stackrel{2}{2,419}$ | 25.25 | 453,434 450,170 | 5,45 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 |
| ${ }_{\text {March }}^{1930}$ | 777 | 336 | 66 | 270 | 176 | 265 | 58 | 60 | 16 | 34 | 15 | 12 | 70 | 207, 188 | 3,094 |  |  |  | 487, 390 | 5,370 |
| June.... |  |  |  |  |  |  |  |  |  |  |  |  |  | 207,869 | 3,087 |  |  |  | 507,774 | 5,555 |
| Septermber-. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| December |  |  |  |  |  |  |  |  |  |  |  |  | --- |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the Federal Reserve Bink of New York from cuarterly 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.
These data 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.
${ }_{4}^{8}$ Dec. 31 figures
${ }^{\text {As of }}$ July 31 .

Table 115.-FOREIGN EXCHANGE AND CANADIAN TRADE ${ }^{1}$


1 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 Annalist. Monthly figures on all items back to 1920 may be found in the May, 1922 , issue (No. 9), p. 135 .
${ }^{\text {i }}$ Foreign trade statistics from Department of Trade and Commerce, Dominion Bureau of Statistics.
3 Parity established June, 1928 . Prior to that the par value of the franc was 19.3 cents.
4 Parity established December, 1927. Prior to that the par value of the lire was 19.3 cents.
8 Parity established November, 1926 . Prior thereto, the average vajues 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.
${ }^{6}$ Parity established April, 1927. Prior to that, par value of the rupee was 48.66 cents.
7 Parity established December, 1926. Prior to that the par value of the milreis was 32.4 cents.
${ }^{8}$ Parity established January, 1026. The average value of the paper peso in 1913 was 19.5 cents

Table 116.-IMPORTS AND EXPORTS BY ECONOMIC CLASSES ${ }^{1}$

| Year and Month | IMPORTS |  |  |  |  |  | EXPORTS |  |  |  |  |  | AGRICULTURAL EXPORTS : |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Crude materials | $\begin{array}{\|c\|} \text { Foodd- } \\ \text { stuffs, } \\ \text { crude, } \\ \text { and } \\ \text { food } \\ \text { animals } \end{array}$ | Manuface tured foodstufis | Semi-manu-fac- tures | $\begin{gathered} \text { Fin- } \\ \text { ished } \\ \text { manu- } \\ \text { face } \\ \text { tures } \end{gathered}$ | Total | $\begin{gathered} \text { Crude } \\ \text { materi- } \\ \text { als } \end{gathered}$ | $\begin{array}{\|c\|} \text { Food- } \\ \text { stuffs, } \\ \text { crude, } \\ \text { and } \\ \text { food } \\ \text { animals } \end{array}$ | Manuface tured foodstuffs | Semi-factures | $\begin{gathered} \text { Fin- } \\ \text { ished } \\ \text { mann- } \\ \text { fac- } \\ \text { tures } \end{gathered}$ |  | $\begin{array}{\|c\|} \text { All } \\ \text { except } \\ \text { cotton } \end{array}$ |
|  | 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, 335 | 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 | 28,785 | 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 |
| 1921monthly 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May | 353, 981 | 137, 799 | 47,968 | 34, 234 | 59,084 | 74, 896 | 413,829 | 89,81174,918 | $\begin{aligned} & 19,741 \\ & 17,243 \end{aligned}$ | 33,12031,137 | 67,15063,046 | $\begin{aligned} & 204,007 \\ & 193,961 \end{aligned}$ | 9276 | 103 |
| June. | 317, 249 | 109, 668 | 48,325 | 30,005 | 57,655 | 71, 597 | 380, 305 |  |  |  |  |  |  | 91 |
| July . | 317,848346,715 | 106, 065 | 43, 174 | 33,314 | 60, 038 | 75, 258 | 371, 471 | 60,17752,375 | 14,21729,310 | 31,66134,749 | 61,39755,873 | 205, 019 | 6475 | 84 |
|  |  | 122, 186 | 45,940 | 30,060 | 66,337 | 82, 192 | 371, 312 |  |  |  |  | 199, 005 |  | 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 |
| 1929 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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. | $\begin{aligned} & 353,403 \\ & 352,981 \end{aligned}$ | 120,734119,038 | 40,955 | 36,527 | 75, 550 | 79, 637 | 386, 799 | 56, 129 | $\begin{aligned} & 14,518 \\ & 20,259 \end{aligned}$ | 34, 018 | 62, 119 | 220, 016 | 6970 | 102 |
| July - |  |  |  | 32,990 | 71, 604 | 86, 392 | 393,798 | 50,015 |  | 35,840 | 60,511 | 227, 173 |  |  |
| 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 | 80,069 | 431,801 | 112, 260 | 29, 943 | 40,963 | 57, 691 | 190, 944 | 121 | 143 |
| October- | 300, 998 | 126, 532 | 47, 210 | 35, 085 | 81,650 | 100, 521 | 522, 380 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January... | $\begin{aligned} & 310,968 \\ & 281,707 \end{aligned}$ | 109, 026 | 39, 375 | 23,933 | 68, 022 | 70,613 | 404, 377 | 103,90767,711 | 17,711 | 39,839 | 50,784 | 192, 136 | 113 | 123 |
| February |  | 98, 581 | 39,394 | 20, 414 | 59,034 | 64, 288 | 342,964 |  | 13, 254 | 33, 520 | 45, 304 | 183, 176 | 79 |  |
| March.- | 300,460307,824 | 101,685105,559 | 40, 136 | 26, 933 | 62,692 | 69,01470,800 | 363,162326,545 | 70,42952,416 | 9,3259,356 | 34, 373 | 49,429 | 199, 606 | 82.98 |  |
| April. |  |  | 38, 597 | 31, 078 | 61,789 |  |  |  |  | 27, 719 | 47,788 | 189, 265 | 83 |  |
| May | 284, 683 | 86, 589 | 34, 744 | 41,571 | 53, 354 | 68, 424 | 312, 223 | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domesfic Commerce, except agricultural exports. For changes in valuations, see footnote on preceding page.
${ }_{2}$ 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 usualiy about 75 per cent of the value of agricultural exports from the United States. The quantities are weighted by the average expert price for the base period. Monthy 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 ${ }^{1}$

| Year and Month | FROM EUROPE |  |  |  |  | FROM NORTH AMERICA |  | $\begin{aligned} & \text { FROM SOUTH } \\ & \text { AMERICA } \end{aligned}$ |  | FROM ASIA AND OCEANIA |  | FROM | $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | France | $\begin{aligned} & \text { Ger- } \\ & \text { many } \end{aligned}$ | Italy | United Kingdom | Total | Canada | Total | $\underset{\substack{\text { Argen- } \\ \text { tina }}}{ }$ | 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, 841 | 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 | 99,696 | 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 | 6,600 | 5, 191 | 19,900 | 62, 904 | 27, 953 | 24, 635 | 4,904 | 54, 447 | 20, 839 | 3,365 | 209, 696 |
| 1922 monthly average | 82, 600 | 11,901 | 9,791 | 5,328 | 29,739 | 68, 638 | 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, 202 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1928 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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, 981 |
| 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, 25s | 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 $\qquad$ 1929 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |
| A pril....---...-------- | 113,942 | 11,432 | 24, 426 | 9,81.9 | 29,978 | 93, 639 | 40,395 | 61,284 | 13, 063 | 124, 500 | 2S, 819 | 17,300 | 410,660 |
| 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 | 79,393 | 43,751 | 46, 630 | 7,386 | 104, 887 | 28, 885 | 6, 857 | 352, 981 |
| August.-.-----..------ | 109, 759 | 14,028 | 22,731 | 7,660 | 25,920 | 82, 242 |  | 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 | 12,135$\mathbf{9 , 0 3 0}$ | 18, 131 | 66,393 | 37,637 | 49,099 | 9, 507 | 101,296 | 39,413 | 7,223 | 310,573 |
| 1930 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | 18.863 | 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, 5, 1 | 12, 226 | 87,260 | 24, 433 | 7,385 | 307, 824 |
| May | 84, 137 |  | $13,046$ | $\begin{array}{r} 10,467 \\ 6,770 \end{array}$ | $\begin{aligned} & 21,353 \\ & 15,511 \end{aligned}$ | $81,139$ | 37,358 | 39, 180 | 9,159 | 74, 577 | 13,874 | 5,611 | 284, 683 |
| June | 72, 147 | $7,484$ | $12,817$ |  |  | $66,181$ | 36, 503 | 35,554 | 4,109 | 71,194 | 15,357 | 5,013 | 250, 221 |
| July - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |  |  |  |  |  |
| October |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ 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, Digitized for FRASEvalue 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.)

## 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 rempective detailed tables, thus making this table a complete record of current source material for the SURVEY]

| source | data | current publication 1 | date of publication |
| :---: | :---: | :---: | :---: |

## I.-REPORTS FROM GOVERADENT DEPARTMENTS, FEDERAL, STATE, AND TOREIGN

Argentine Ministri of Agriculture. .
Canadian Department of Labor.-.-.-.

Canadian Department of Trade and ComMERCE.

Federal Farm Loan Board
Federal Reserve Bank of Atlanta
Federal Reserve Bank of Boston -.......
Fbderal Reserve Bank of Kansas City --
Federal Reserve Bank of Minneapolis
Federal Reserve Bank of Philadelphia
Federal Reserve Board.

Illinots Department of Labor
Interstate COMmerce Commission

Iowa Bureau of Labor
Maryland Com. Labor and Statistics
Massachusetts Dept. Labor aifd Industry
Massachusetts Dept. Public Utilities....
Mexican Secretary of Industry, ComMERCE, AND LABOR.
Milwaukee Public Employment Office
NEW Jersey Department of Labor
New York State Dept. Labor
New York state depr. Public Works
PKLAHOMA DEPARTMENT OF Labor.
TeXAS State Comptroleer
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Monthly Busines
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Monthly.

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Monthly.
One month after end of qtr.
Monthly.
Monthly.

## 20th of month.

Semimo. during season.
15th of month.
First week of month.
30 th of month.
18th of month.
30th of month.
30th of month.
20th of month.
30th of month.
30th of month.
30th of month.
One month after end of qtr.
30 th of month.
20th of month.
30th of month.
20 th of month.
30th of month.
One month after end of qtr.
One month after end of qut.
150th of month.
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30th of month.
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One month after end of qtr.
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|  | All imports and exports .-.-.-....... | Monthly Sum. Foreign Commerce (Pt.I) ${ }^{\text {a }}$ | Last week of month. |
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|  | Explosives, production, shipments, etc.--------- | Explosive statisties*-........---.-.-- | Monthly. |
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|  | Portland cement, production, etc. | Report on Portland cement output* | 20th of month. |
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| Bureau of Standards. | Building material price indexes | Not published. Not published |  |
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|  | Employment agency operations..--------..------ | Report of Activities of State and Municipal Employment Agencies. | Every 4 or 5 weeks. |
|  |  | Monthly Labor Review.....................-- | Moathly. |
| Bureau of Immigration. | Immigration and emigration statistics | Not published |  |
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|  | Retail price indexes .-......... | Monthly Labor Review | Monthly. |
|  | Factory employment, pay roll, | Employment in Selected Industries | Monthly, |
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|  | Money orders. | Not published......---...- |  |
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|  | Government debt, receipts, and disbursements Tax-exempt securities | Daily Statement of the U.S. Treasury Not published | Last day of month. |
| Bureau of the Mint | Tax-exempt securities <br> Domestic receipts of gold at mint. | Not published <br> 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. |
|  | Ethyl alcohol, production, stocks, etc...........-- | Not published |  |
| U. S. War Department: Engineer Corps. | Sault Ste. Marie and Cape Cod Canal traffic...- | Monthly statistical report_- | Monthy during season. |
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* Multigraphed or mimeographed sheets.

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Recent publications of the Department of Commerce Baving the most direct interest to readers of the Subyer an Corbent Business are listed below. A complete list may be obtained by addressling the Division of Pubications, Departinent of Commerce at Washington. Gopies of the publications may be purchased from the Superintendent of Documents, Qovernment Printing Office, Washington, at the prices stated If no price is mentioned, the publiontion is distributed free.

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Great Lakes, Gemeral Rulestand Regulations Prescribed by Bogrd of Supervising Inspectors as Anended qt Boatd Meefing of January, 1930 , x 1230 pages, 6 Nustrations. (Steamboat Inspection Service, Eorm SOLB.)
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United Slates Coxst, Pilot? Philippine Islands, Part II, Palawan, Mindamao, and Sula Arohipelago, Socond eaition, 1930. iv +436 pages, 1 trop. (Coast and Goodetic Survey. Serial No. 474 ) Describes yaters of this fegion and gives sailing direotions for their aquigation. Price, 75 cehts;
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#### Abstract

AERONAUIICS BRANCH Clarincer M. Young, Asistant Secretary of Commeree for Aeronautics Establishment of civil arwaye and mainterance of aids to air navigation, inspection and repistration of aircraft and lieensing of pilots; enforcement of an traifie robles; investigation of aceidents; encouragement of manicipat air ports, fostering of air commertes scientific research in aeronautics, and dissemination of information relitiag to commercial aeronaulics. (Some of these functions are performed by special diyisions of the Tighthouse Service, the Bureau of Standards, and the Coast and Geoditic Survey:)


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Whynar M. STruart, Director
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## Thomis E. Robmatson, Comnissioner

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Maintepance of library with publio search room, containing copies of foreign and United States patents and trade-marks. Recording bills, of sale, assignments, eto, relating to patents and trade-maris. Furnishing copies of records pertaining to patents

Publication of the weekty Oficial Gazette, showing the patents and trade-marks lispued.

## RADIO DIVISION <br> W. D. Tgimal, Chief

Inspection of sadio stations on ships, inspeotion of radio stations on shore, including brodicasting stations; liceesing radio operators, assigning station coll letters, enforcing the terms of the International Rudiotelegraphic Convention, and examining and setting intermational adio accounts,


[^0]:    This issuepresents practically complete data for the month of June and contains text copering the early weeks of July, 1939 (page, 1 ) 4 most data covering a particular month's business are not available untilfom 15 to fil days difter the close of the month, a complete picture of that mpnth's operations ean not be presented at an earlip date, But the weekly supplements aive eoery week the latest data available.

[^1]:    ${ }^{1}$ Index numbers of the cost of living, compiled by the National Industrial Conference Board, represent, up to March, 1922 , retail prices on the flrst 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 15 th 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 betore the war, on the 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 Surver (No. 58 ), p. 24; segregation for previous years is 10 ot 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.
    ${ }_{2}$ Compiled by the Departhent of Agriculture, Bureau of Agricultural Economics, as of the 15 th 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.
    a The retail food price index compiled by the $V$. S. Department of Labjr, 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.

    4The 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 15 th 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.
    ' 8 months' a verage, February, March, April, and May missing.

    - 11 months' average, August missing.

    7 10 months' average, no quotations being available for other months.

[^2]:    1011 months' average, January to November, inclusive.
    111 months' average, February to December, inclusive
    ${ }^{12} 9$ months' average, January to September, inclusive.

[^3]:    * Monthily 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 Fuets, Automobiles, and Rubber Section, pp. 17 and 18.

    1 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 cutput of the country in $1929,87.48$ per cent in 1921 , and 84.16 per cent in 1822. 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 $1922,94.84$ per cent in $1923,94.43$ per cent in 1924, 94.50 per cent in 1925, 95.01 per cent in 1926, and 94.68 per cent in 1927 , the total computations to 100 per cant being made by the American Iron and Steed Institute. Data for 1938 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, 1827, of $58,627,910$ long tons of Bessemer and open-hearth stoel ingots, the figure for a year carlier being $57,230,350$ tons. Beginning with 1927 , crucible and electric ingots are excluded, but these items represented only a fraction of 1 per cent of the total.
    ${ }^{2}$ Production of steel in Canada, representing complete figures, compiled by Department of Trade and Commerce, Dominion Bureau of Statistics.
    Unfilled orders of steel and earnings reported by unied staues stee corpor tontist

    - Average of weekly prices compiled by the Iron Trade Reviev, 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.
    shapes, black, galvanized and blue annealed sheets, in plates, wire nails, and lacar pipe. Pig iron average, in tor composite finished steel compiled by the American Metal Market represents the daily average price per pound of steel products weighted as follows:
    $21 / 2$-pound bars, $11 / 2$-pound plates, $11 / 2$-pound shapes, $11 / 2$-pound pipe, $11 / 2$-pound wire nails, 1 -pound galranized sheets, and $1 / 2$-pound tin plate.
    ${ }^{2}$ Production figures, representing complete production, compiled by U. S. Department of Commerce, Bureau of Mines.
    8 Compiled by the Canadian Department of Trade and Commerce, Dominion Bureau of Statistics, presenting complete figures for Canada.
    - Exports from the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
    ${ }^{10}$ Compiled by U. S. Departmeat of Labor, Bureau of Labor Statistics, representing beehive furnace coke (range of prompt and future) at Connellsville ovens.

[^4]:    *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 .
    ${ }^{1}$ 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 A pril, 1928.
    ${ }^{2}$ 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.

    Compiled by the Commercial Lock Washer Statistical Bureau from reports of 7 frms.
    Compiled by the Cold Finished Steel Bar Institute, from reports of 8 manafacturers,
    ${ }_{5}$ Compiled by the Cold Finished Steel Bar Institute, from reports of 8 manafacturers, estimated to represent from 60 to 70 per cent of the industry.
    ${ }^{5}$ 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.

    66 months' average.

[^5]:    ${ }^{1}$ Compiled by the National Electrical Manufacturers' Association, Fan Motor Section.
    ${ }^{2}$ For "fan-year" ending Sept. 30 of year indicated.

[^6]:    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.

    1 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.
    ${ }_{2}$ 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 Jopin or Tri-State district includes parts of Kansas, Missouri, and Oklaboma, 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.
    ${ }_{3}$ 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 filth weak added in certain months, this accounting for most of the larger fluctuations. Details by districts are given in the bureau's reports.

    - Compiled by the American Metal Market, representing average weekly price of Straits tin at New York.
    ${ }^{5}$ A verages of daily prices from the Engineering and Mfining Journal-Press.
    ${ }^{\circ} 5$ Averages of daily prices irom average, August to December, inclusive.

[^7]:    1 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.

    Compiled by the U. S. Deparment of Commerce, Bureau of the Census, from reports of 12 trms, including data from the Sheet Metal Ware Association. (the galvan 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), feedmeasures, dry measures (including steel baskets (but not wash boilers), ash and garbage cans, stable and street-cleaning cans, coal hods (including ap
    ${ }^{3}$ 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.
    ${ }^{4}$ 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
    reports of 50 manufacturers whose output represents 80 per cent of the total for the industry in 1927. Details, by class, are shown in monthly press releases of the bureau.
    © 4 months' average.

[^8]:    ${ }^{1}$ 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 1926 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.
    ${ }^{2}$ 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.
    ${ }^{3}$ Complied 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.

    Compiled by the Tire and Pim Association of A merica, 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 hy the association after inspection and are given in detail by kinds and sizes in the association reports. Monthly data srom January, 1922, appeared in April, 1927, issue (No. 68), p. 23,
    bales or automobile accessories and parts shipped to customers by 75 members of the Motor and Accessory Manufacturers' Association, the relative numbers being based on vaiue, with the $\bar{V}$. $S$ 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.

[^9]:    1 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 Septamber, 1921 , when an of Manufacturers and 85 per cent of the output of inner tubes. Crude-rubber consumption in 1925 represented 73 per per cent of the casings output reported by the Censua in that year for manufacturers of rubber tires. Export shipments in i 925 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.
    ${ }^{2}$ 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 fabries in 1923 and 31 per cent in 1925 , according to the Census of Manufacturers, 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. ture' monthly turers' monthly data for 1928 appeare in the April, 192, , 1 ms.
    ${ }^{4} \mathbf{~ m o n t h s ' ~ a v e r a g e , ~ S e p t e m b e r ~ t o ~ D e c e m b e r , ~ i n c l u s i v e . ~}$

[^10]:    ${ }^{1}$ Newsprint prices are avcrages of wholesale weekly prices of roll newsprint f. o. b. mill from U. S. Department of Labor, Bureau of Labor Statistics.
    ${ }_{8}$ 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.
    ${ }^{p}{ }^{2}$ Production , shipments, and mill stocks of newsprint, comprising practically the total production of Canada, furnished by the Newsprint Service Bureans; exports from Department of Trade and Commerce, Dominion Bureau of Statistics. Montbly data from 1920 appeared in June, 1922, issue (No. 10), p. 49.
    ${ }^{\text {A Consumption, }}$, 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 Compission 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 0 . 10), pp. 45-47.
    s 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.
    ${ }^{6}$ Annual averages are slightly larger than computations from monthly figures owing to receipt of annual instead of monthly reports from a few small firms.

[^11]:    1 See footnote on p. 65
    ${ }^{2}$ Include one and two family dwellings, apartments, and hotels; number of buildings about 30 per cent greater than number of projects
    ${ }^{3}$ 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,

[^12]:    ${ }^{1}$ 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. 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.
    ${ }^{3}$ 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.
    4 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 . 60 to 75 mills each month. Yearly averages covering the period 1913-1916 were shown in the August, 1924, issue (No. 36 ).
    listed mills; for the first 4 months of 1921 covering 10 mills representiang $561 / 2$ per cent of listed capacity; for the remaining mopresenting 40 per cent of the capacity of all listed mills; for the first 4 months of 1921 covering 10 mills representing $56 \frac{1}{2}$ per cent of listed capacity; for the remaining months of 1921 covering 11 miils 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 88 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 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 rargwod capacity based on the proportion which capacity of the reporting milis bears to the total of all mills, and in 1925 this computed fgures 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.

[^13]:    ${ }^{1}$ 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 are located in thre bedroom furniture, dining-rooma, furniture, and chairs.
    a Compiled by the U. S. Department of Labor, Bureau of Labor Statistics, and represent the trend of furniture prices.
    ${ }^{8}$ Compiled by Seidman \& Seidman 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.
    ${ }^{4}$ 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.
    © Compiled by the Lower Michigan Lumber Manufacturers 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.
    ${ }^{6} 7$ months' average, June to December, inclusive.

[^14]:    1 Data on Portland cement, representing complete reports of manufactures, 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
     alleys besides roads.
    ${ }^{8}$ 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 , whie Federal-aid grants amounted to about 20 per cent of the costs of the F 1922 appeared in the July, 1926 , issue (No. 59 ), p. 24 . completed represent all roads reported as suche to the Bureau of wuar Roads, whether paid for or not. Montually 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.

[^15]:    ${ }^{1}$ 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 heen prorated to the equivalent production of a capacity of 3,500 turns per biweekly period; these figures bave 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 ronfled orders appeared in the July, 1926 , issue (No. 59), p. 25 . The association reports are comparable without prorating. Data from 1923 on actual production, stocks, and

    2 Compiled by Plate Glass Manufacturers of America, comprising practically entire industry by classes of shades, reflectors, bowls, and globes in numbers of turns.
    8 Data from the Glass Container Association, covering 41 manufacturers of glass containers with an annual productive oapacity of 32,000 , 000 gross, isu ab (No. 63 ), p. 23. of the industry. Details by classes are shown in the association's report.

    - 4 months' average, September to December, inclusive.

[^16]:    1 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 as 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
    $\begin{aligned} & \text { issue (No. 68), p. } 26 \text {. Press releases of the Bureau of the Census also give Canadian figures, beg } \\ & 2 \text { Exports from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. }\end{aligned}$
    a Wholesale prices are monthly averages compiled by the U. S. Department of Labor, Bureau of Labor Slatistics.
    ${ }^{4} 9$ months' average, April to December, inclusive.

[^17]:    ${ }^{1}$ 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.
    oleoresin within or extracted from the wood, generally Softwoods.
    Represent the receipts and stocks at Jacksonville, Savannah, and Pensacola, as reported by the Naval Stores Review, earlier data being supplied by the Sapannah 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 Board of Trade, Jacksonville Chamber of Commerce, and Pensacola Chamber of Commerce. Monthly averages for 1914 and 19158
    the year indicated and thereafter on the calendar year. Monthly data from 1920 appeared in June, 1922, issue (No. 10), 40 ,
    the year indicated and thereatter or the calendar year. Monthy data from 1920 appeared in June, 1922 , issue (No. 10), p. 40 . 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 io13 appeared in November, 1925, issue (No. 51), p. 22.

[^18]:    ${ }^{1}$ 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, 192, isue (No. 9), p. 87.
    
    ${ }_{3}$ Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
    ${ }^{4}$ Compiled by the U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce. in the May, 1922, issue (No. 9), p. 91 .
    ${ }^{\circ}$ 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.
    ${ }_{6}$ Compiled by the $\quad$. S. S. Treasury Department, Bureau of Internal Revenue, showing total consumption in the manufacture of oleomargarine, as ascertained from tax ${ }_{7}{ }_{5}$. Donths 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 .
    ${ }_{8}^{7}$ months' average, August to December, inclusive

[^19]:    1 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.
    ${ }^{2}$ Data from Bradstreet's representing stocks carried on Saturday nearest end of month at terminals, elevators, warehouses, docks, etc.
    ${ }^{8}$ At principal primary markets, as compiled by the Chicago Board of Trade.
    1 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. heat flour has been converted to wheat equivalent at $41 / 2$ bushels to the barrel, while corn meal has been converted at 4 bushels to the barrel.
    6 Exports from Canada from Canadian Department of Trade and Commerce, Dominion Bureau of Statistics.
    6 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.
    7 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.
    ${ }^{8}$ 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.

    - A verage of 2 quarters, June and December.

[^20]:    ${ }^{1}$ 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.
    ${ }_{2}$ Data from Bradstreet s, representing stocks carriea on Saturday nearest end of month at terminals, elevators, warehouses, docks, etc. Monthly data from 1913 appeared November, 1925, issue of the SURVEY (No. 51), p. 23.

    8 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.
    ${ }^{4}$ 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. $21,22$.
    ${ }^{5}$ 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 statisties 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.
    Monthly data from 1919 appeared in the May, 1926 , issue of the Survey (No. 57 ), p. 29 .
    Monthly data from 1919 appeared in the May, 1926, issue of the Survey (No. 57), p. 29.

[^21]:    1 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 comnarison with the other data.
    ${ }_{2}$ 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 15 th of the month.
    ${ }_{3}$ 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.
    4 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 A tlantic 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,
    (No. 78), p. 23 .

    - Average for 9 months, A pril to December, inclusive

[^22]:    ${ }_{2}^{1}$ Tonnage of vessels cleared in foreign trade from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
    ${ }^{2}$ 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.
    including vessals of the U.S.Shipping Board and private American owners but nompleted built for 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 coulumn on merchant vessels under construction of the SURVEY (No. 29), p. 49 .
    a 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.

    - Compiled by U. S. Department of Labor, Bureau of Immigration. Aliens admitted and departed include legal immigration and emigration but not nonimmigrants.
    ${ }^{6}$ Compiled by U. S. Department of Lator, Bureau of Pamigration. Aliens admited and departed include legal immigration
    ${ }^{7}$ Compiled by U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, covering six tramp-ship commodities over 12 world-wide trade routes.
    9 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.

[^23]:    1 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. ${ }^{2}$ Traffic through the Sault Ste. Marie canals, including both the American and Canadian canals, reported by U. S. War Department, Engineer Corps. Monthly averwith 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 . ${ }^{3}$ 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.
    I. S. War . S. War Department, Engineer Corps. The average for 1916 is an average 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 .
    ${ }_{5}$ Suez Canal traffic from Le Canal de Suez.

    - 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 moverments. 7 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 bargeline traffic, appeared in July, 1922 , issue (No. 11), p. 45.
    Wellsburg and Wheeling, W. War Department, Engineer Corps, represent 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 totai 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 and Lock No. 6 (near Beaver, Pa.), and from 1915 to 1921 bed
    o 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.
    - 10 Compiled by the $U . S$. War Department, Engineer Corps, representing tonnage of cargo trafic on the Ohio River. Each distriet 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 only the trafic originating 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.

[^24]:    1 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.

    2 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.
    ${ }^{3}$ 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 .
    i Compiled by Horwath \& Horwath from reports of over 100 hotels, transient and resident, throughout the country. Details by cities shown in their monthly reports. $s$ Compiled by the U.S. Department of Commerce, Bureau of the Census, from reports of over 600 public-merchandise warehouses, excluding cold-storage and hotusehold goods. Further details are presented by States in monthly press releases.

    7 Average of 3 months, October to December, inclusive.

[^25]:    1 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 total operating revenues of telephone companjes with annual operating reve
    Postal Telegraph Cos., as reported to the Interstate Commerce Commission.
    ${ }_{2}$ Compiled by the US. 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 ngures are not compete they are believed to represent typical conditions within tbe public-utility field. Gross earnings consist, in general, of gross operating 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.
    ${ }^{3}$ 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, excludiog electric railways which do not sell their current. Monthly data from 1913 appeared in July, 1923 , issue of Surver (No. 23 ), p. 45. ${ }^{4}$ 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. Depariment 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 SUR VBY (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 1919 on total production and segregation by water power and fuels appeared in the November, 1927 , issue (No. 75 ), p. 26.
    98 per cont of all stations in Canade These ana con 98 per cont of all stations in canada. These data do not inciude 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 A pril, 1928, issue (No. 80 ), p. 22.
    carrying about 68 per cent of the total revenue passengers carried by eloctric railways. fing about 68 per cent of the total revenue passengers carried by electric railways.
    ${ }^{8} 6$ months' average, January, N'ay, June, August, November, and December missing.

[^26]:    ${ }^{1}$ 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．Tbese tables revise all previous data shown on The basic dabject．
    ${ }_{2} 7$ months＇average．

[^27]:    ${ }^{1}$ Compiled by the U. S. Department of Agriculture, Bureau of Public Roads. The current data beginning January, 1922, are compiled directly from Federal-aid project reports. Earlier data included reports on farm labor or other forms of common labor closely correlated, as reported to the Department of Agriculture and the Department of Labor.
    ${ }_{2}^{2}$ Average rates in the Pittsburgh district reported by the United States, Steel Corporation; rates apply to 10-hour day except for the period Oct. 1,1918 , to July 16, 1921, during which period the rates applied to a basic 8 -hour day with time and a half for overtime, and beginning Aug. 16, 1923, when they applied to an 8 -hour day, the 10 -hour workers amounting to only 30 per cent of the total.
    ${ }_{3}$ Compiled from data furnished by the Western Sheet and Tin Plate Manufacturers' Association and the Amalgamated Association of Iron, Steel, and Tin Workers. The wage scales are based on the price of steel sheets in the previous 2 -month period as ascertained by actual prices received by mills. Monthly data from 1917 , together with price of steel sheets for the same period, appeared in the May, 1926, issue (No. 57) of the SURVEY, p. 13.
    *A verage rates paid to farm labor as reported by crop reporters to the U. S. Department of Agriculture, Bureau of Agricultural Economics. Data by sections of the country are shown in the detailed reports published in Crops and Markets.
    ${ }^{5}$ Compiled by the New York State Depart ment 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.
    ${ }_{6}$ 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.
    ${ }^{7}$ Compiled by the Industrial Commission of Wisconsin from reports of manufacturing plants in Wisconsin.
    ${ }^{8}$ Compiled by the Oklahoma Department of Labor from reports of 710 establishments.
    ${ }^{8} 6$ months' ${ }^{6} 7$ merage.
    ${ }^{2} 7$

[^28]:    ${ }^{1}$ 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 jay 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 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 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 for November, 1929, pp. 706-716.
    ${ }^{2}$ 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.

    3 A verage of last 7 months of the year.
    4 A verage of last 6 months of the year.

[^29]:    1 This table is submitted in response to a demand for publication of the fugures 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 chese chains from
     ${ }^{2}$ Includes F. W. Woolworth, S. S. Kresge Co., McCrory Stores Corporation, and S. H. Kress Co.

[^30]:    1 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.

[^31]:    ${ }^{1}$ 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 manth, and inelude total premium collections, new and renewal, and considerations for annuities and for supplementary contracts involving and not involving life contingencies. Anniuties shown separate beginnlng 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.
    tracts, indicates the trend in number of persons covered by new insuran but does not show the enatificates 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.

[^32]:    1 Imports and exports of gold and silver from U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce.
    a 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.
    ${ }^{3}$ Domestic receipts of unrefined gold at U. S. mint from U. S. Treasury Department, Bureau of the Mint.
    4 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. ${ }^{5}$ 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 lead 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, biister copper, ore concentrates, otc., 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.
    ${ }_{6}$ 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 descrintion of the revised computation is presented in the Federal Reserve Bulletin for December, 1927.

