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## IMPORTANT NOTICE

In addition to figures given from Government sources, there are also incorpotated for completeness of service figures from other sources generally accepted by the trades, the authority and responsibility for which are noted in the "Soutces of Data" an pages 139112 of the Fiebruary semiannual issue

Sabscription price of the SURVEX OF CURRENT BUsiness is $\$ 1.50$ a year; single copies (monthly), 10 centa; semiannual issues, 25 centa. Foreigh subscriptions, $\$ 225$; single copies (monthly issues), including postage, 14 cents; semiannual issues, 36 cents, Subscription price of Commerce Reports is $\$ 4$ a year; with the Surver, $\$ 5.50$ a year. Make remittances only to Superintendent of Documents, Washington, D, C, by postal money order, express prder, or New York draft, Cufrency at sender's visk. Postage stamps or foreign money not accepted

## INTRODUCTION

Tee Sunvey of Current Business is designed to present each month a picture of the business situation by setting forth the principal facts regarding the various lines of trade and industry. At semiannual intervals detailed tables are published giving, for each item, monthly figures for the past two years and yearly comparisons, where available, back to 1913 ; also blank lines sufficient for six months have been left at the bottom of each table enabling those who care to do so to enter new figures as soon as they appear (see issue for February, 1928, No. 78). In the intervening months the more important comparisons only are given in the table entitled "Trend of business movements."

## WEEKLY SUPPLEMENT

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

## BASIC DATA

The figures reported in the accompanying tables are very largely those already in existence. The chief function of the department is to bring together these data which, if available at all, are scattered in hundreds of different publications. A portion of these data are collected by Government departments, other figures are compiled by technical journals, and still others are reported by trade associations.

## RELATIVE NUMBERS

To facilitate comparison between different important items and to chart series exprossed in different units, relative numbers (often called "index numbers," a term referring more particularly to a special kind of number described below) have been calculated.
In computing these relative numbers the last prewar year, 1913, or the first postwar year, 1919, have usually been used as a base equal to 100 wherever possible. More lately the average for 1923-1925 bas been frequently taken as 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 relaitive number will be greater thian 100 , and vice versa. The difference between 100 and the relative number will give at once the per cent increase or decrease compared with the base period. Thus a relative number of 115 means an increase of 15 per cent over the base period, while a relative number of 80 means a decrease of 20 per cent from the base.

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

## INDEX NUMBERS

When two or more series of relative numbers are combined by a system of weightings, the resulting series is denominated an index number. The index number, by combining many relative numbers, is designed to show the trend of an entire group of industries or for the country as a whole, instead of for the single commodity or industry which the relative number covers. Comparisons with the base year or with other periods are made in the same manner as in the case of relative numbers.

## RATIO CHARTS

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

## RECORD BOOK

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

This issue presents practically complete data for the month of February and contains text covering the early weeks of March (page 1), for which the basic figures in table and chart form are presented regularly in the weekly supplements. As most data covering a partieular monthts business are not available until from 15 to 30 days after the close of the month, a complete picture of that month's operations can not be presented at an early date, but the weekly supplements give every week the latest data apaila ble.

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## PRELIMINARY SUMMARY FOR MARCH

Measured by the volume of checks passing through the banks for payment, business during the early weeks of March was larger than in either the preceding month or March of last year. The volume of new building contracts awarded during the early weeks of the month were larger in value than in either prior period. Activity in the automobile industry, as reflected by employment data covering Detroit factories, was greater also than in either the preceding month or March of last year. Interest rates, although somewhat higher than a year ago, continued to reflect easy money conditions with ample funds available for business enterprises. Loans and discounts of Federal reserve member banks showed some expansion as compared with the previous month and were higher also than in March of last year.
The general level of wholesale prices continued to rise, reaching a point during the month higher than at any time in almost two years. Wholesale prices for iron and steel averaged higher than in the previous month but were still below the level of last year.

Prices for cotton continued to advance, being higher also than a year ago. Prices for stocks listed on the New York Stock Exchange reached a new high record for the month, while bond prices, showing practically no change from the preceding month, were higher than a year ago. Although brokers' loans increased during the month, they were lower than the high record reached early in February. Business failures were less numerous in March than in the preceding month, showing little change, however, from a year ago.

The output of lumber, although running smaller than in February, was considerably larger than in March, 1927. Bituminous-coal production was running larger than in February but was smaller than a year ago. The output of beehive coke, although larger than in February, was only about half as large as in March of last year. Carloadings were running heavier than in February but were smaller than a year ago. Petroleum production showed little change from the preceding month but was considerably smaller than in March, 1927.

## MONTHLY BUSINESS INDICATORS, 1920-1928

[Ratio charts-see explanations on inside front cover. The curves on check payments, wholesale trade, sales by mail-order houses, 10 -cent chains, and department stores have been adjusted for normal seasonal variations, and that on manufacturing production for the varying number of working days in the month]


## MONTHLY BUSINESS INDICATORS

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

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

| ITEM | MONTHLY AVERAGE |  |  |  |  | 1926 |  | 1927 |  |  |  |  |  |  |  |  |  |  |  | 1028 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1923 | 1924 | 1925 | 1926 | 1927 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. |
|  | 1923-1925 monthly average $=100$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing production: $\dagger$ Total | 102.3 | 94.3 | 103.8 | 106.9 | 104.5 | 103.0 | 98.0 | 88.3 | 108.4 | 114.3 | 113.4 | 116.0 | 113.4 | 107.6 | 107.6 | 105.0 | 103.4 | 933 | 88.2 |  | 107.2 |
| Pig iron | 111.7 | 86.7 | 101.5 | 109.0 | 101.0 | 108.3 | 103.4 | 103.9 | 98.4 | 116.6 | 114.5 | 113.5 | 103.4 | 98.8 | 98.6 | 92.9 | 93.2 | 88.6 | 90.2 | 96.1 | 97.1 |
| Steel ingots | 104.8 | 88.7 | 106.4 | 113.1 | 103.8 | 107.2 | 100.3 | 108.8 | 109.4 | 130.1 | 118.5 | 116.1 | 100.3 | 01.9 | 100.4 | 93.5 | 95.1 | 89.7 | 91.1 | 114.6 | 116.1 |
| Automobiles | 101. 5 | 90.9 | 107.7 | 108.5 | 85.7 | 77.6 | 50.8 | 72.4 | 92.3 | 119.5 | 122.6 | 122.4 | 97.5 | 81.3 | 93.5 | 78.8 | 66.5 | 40.7 | 40. | 70.2 | 97.9 |
| Cement | 92.1 | 99. 8 | 108. 1 | 110.0 | 115.3 | 114.2 | 86.4 | 66.4 | 59.4 | 92.1 | 113.0 | 184.4 | 138.6 | 140.1 | 147.4 | 140.8 | 138.2 | 116.3 | 96.5 | 78.6 | 70.7 |
| Lumber ( 5 species) | 98.6 | 96.2 | 105.2 | 101.5 | 94.9 | 94.8 | 84.4 | 78.9 | 86.0 | 91.6 | 91.0 | 101.9 | 99.8 | 96.5 | 107.5 | 105.8 | 101.5 | 944 | 82.9 | 79.6 | 90.6 |
| Cotton (consumption) | 105.9 | 89.7 | 104.4 | 108.5 | 120.3 | 113.8 | 117.8 | 117.8 | 115.0 | 135.3 | 120.6 | 123.3 | 129.1 | 110.9 | 123.4 | 122.2 | 119.4 | 121.9 | 105.9 | 113.5 | 111.8 |
| Wool (consumption). | 112.8 | 94.6 | 92.6 | 89.7 | 97.0 | 100.9 | 101.0 | 97.8 | 97.0 | 114.5 | 92.8 | 93.6 | 95.0 | 84. 1 | 98.1 | 101.6 | 103. 7 | 97.8 | 88.0 | 95.2 | 102.0 |
| Raw material output: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total... | 97.5 | 102.3 | 100.1 | 103.9 | 107.5 | 141.5 | 120.3 | 104.7 | 92.8 | 96.8 | 82.8 | 91.1 | 88.1 | 20.1 | 113.8 | 138.0 | 154.3 | 127.5 | 107.6 | 97.0 | 82.4 |
| Animal products | 101.0 | 101.0 | 97.8 | 98.8 | 101.3 | 108.7 | 108.8 | 96.1 | 85.4 | 102.0 | 102.7 | 116.1 | 107.3 | 97.7 | 97.6 | 94.0 | 102.4 | 107.8 | 106.0 | 101.0 | 97.2 |
| Crops... | 92.2 | 107.0 | 100.8 | 106.2 | 112.6 | 180.5 | 135.3 | 110.4 | 93.2 | 84.7 | 61.0 | 63.1 | 62.6 | 76.3 | 124.4 | 185.5 | 215.8 | 157.1 | 115.8 | 94.6 | 84.4 |
| Forest products | 99.2 | 97.2 | 103.6 | 97.5 | 94.7 | 92.7 | 87.0 | 80.1 | 84.3 | 92.2 | 94.2 | 103.4 | 101.6 | 04.3 | 103.3 | 101.6 | 98.0 | 95.7 | 87.4 | 83.2 | 91.1 |
| Minerals (all) | 103. 1 | 95.9 | 101. 1 | 107.8 | 108.6 | 120.0 | 113.8 | 111.6 | 104. 2 | 115.3 | 96.6 | 110.2 | 109.9 | 106. 8 | 117.3 | 111.8 | 115.4 | 102.6 | 98.7 | 99.8 | 94.8 |
| Crude petroleum. | 99.4 | 96.9 | 103.7 | 104.6 | 121.4 | 113.8 | 118.3 | 116.4 | 110.6 | 122.7 | 118.2 | 124.2 | 121.4 | 127.6 | 127. 1 | 122.3 | 125.6 | 120.2 | 120.7 | 117.8 | 110.2 |
| Bituminous coal | 108.0 | 92.5 | 99. 5 | 109. 7 | 99.4 | 135.9 | 131.3 | 130.6 | 121.4 | 138.1 | 79.6 | 81.2 | 84.1 | 77.2 | 95.7 | 96.3 | 101.0 | 93.3 | 94.8 | 101.5 | 94.9 |
| Copper. | 93.3 | 100.2 | 106. 4 | 110.2 | 104.9 | 113.6 | 109.8 | 115.5 | 104.9 | 105. 1 | 107.8 | 108.6 | 105.4 | 99.4 | 102.0 | 100.0 | 104. 6 | 103.2 | 101.8 | 103.8 | 102.2 |
| Power and construction: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Building contracts(37States). | 89.7 | 92.7 | 117.6 | 111.0 | 106.8 | 106. 3 | 96.6 | 80.2 | 82.6 | 132.4 | 126.0 | 111.6 | 118.6 | 102.4 | 110.1 | 101.8 | 115.0 | 105.2 | 95.2 | 96.0 | 103.7 |
| Unfilled orders: <br> General index. | 121. 7 | 87.0 | 91.3 | 84.8 | 74.1 | 79.6 | 77.2 | 82. | 81.5 | 81.2 | 77.2 | 74.3 | 72.2 | 72.1 |  | . 9 |  |  |  |  | 81. 8 |
| U. S. Steel Corporation.-- | 125.8 | 83.6 | 90.6 | 82.1 | 71.1 | 79.7 | 83.0 | 79.6 | 75.3 | 74.4 | 72.4 | 63.8 | 63.9 | 65.8 | 66.9 | 65.8 | 70.0 | 72.4 | 83.2 | 89.5 | 92.1 |
| Stocks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - General inder.............. | 88.9 | 102.2 | 108. 9 | 129. 5 | 139.6 | 151.2 | 140.8 | 139. 7 | 142.5 | 136.1 | 129. 1 | 134.6 | 132.8 | 141.4 | 152.7 | 145.8 | 140.1 | 140.9 | 139.3 | 137.5 | 144.9 |
| - Manfd. commodities (28). | 86.6 | 104.1 | 108.6 | 109.4 | 120.0 | 109.3 | 107.0 | 118.4 | 115.6 | 115. 1 | 115. 5 | 118.0 | 116.9 | 121.3 | 127.9 | 127.8 | 125. 2 | 120.9 | 116.9 | 127.8 | 127.9 |
| Cotton. | 102.5 | 91.4 | 106. 2 | 145. 5 | 153.2 | 213.0 | 219.3 | 210.7 | 196.2 | 172.1 | 148.2 | 124.0 | 100.3 | 85.8 | 87.6 | 135.2 | 179.8 | 200.0 | 195.8 | 178.8 | 159.1 |
| Copper (refined) | 106.4 | 113.9 | 73.1 | 64.8 | 85.4 | 65.2 | 75.5 | 83.0 | 93.1 | 91.1 | 87.7 | 95.5 | 85.1 | 92.2 | 82.7 | 76.4 | 74.1 | 80.3 | 84.2 | 85.2 | 76.8 |
| Employment: <br> Factories... | 106.6 | 96.3 | 97.2 | 98.0 | 4.3 | 97.4 | 96. | 95. 3 | 97.0 | 97.4 | 96.6 | 95.6 | 95.0 | 93.1 | 93.2 | 93.8 | 93.4 | 91. | 90.7 | 89.8 | 91.2 |
| Priees: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm products, to producers. $\qquad$ | 97.8 | 97.1 | 106.5 | 98.6 | 94.9 | 94. 2 | 92.0 | 91.3 | 92.0 | 91.3 | 90.6 | 91.3 | 94.2 | 94.2 | 95.7 | 101.4 | 100.7 | 99.3 | 99.3 | 99.3 | 97.8 |
| Wholesale, all commod | 99.7 | 97.2 | 102.6 | 99.1 | 95.4 | 97.5 | 97.0 | 95.7 | 95.0 | 93.7 | 82.9 | 92.8 | 83.0 | 93.3 | 94. 4 | 95.6 | 96. 1 | 95.8 | 95.8 | 95.4 | 95.8 |
| Retail food................. | 97.6 | 97.6 | 104.9 | 107.6 | 103.6 | 108.2 | 108.2 | 106.2 | 104. 2 | 102.9 | 102.9 | 103.6 | 106.2 | 102.9 | 101.6 | 102.9 | 104.3 | 104.9 | 104.2 | 103.6 | 101.3 |
| Cost of living (incl. food)..- | 88.1 | 09.9 | 102.3 | 102.3 | 99.9 | 102.3 | 102.3 | 101.7 | 100.5 | 99.9 | 99.9 | 99.9 | 100. 5 | 98.7 | 98.7 | 09.3 | 99.9 | Cos | 99.8 | 99.2 | 98.7 |
| Distribution (values): |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * Wholesale trade... | 101.0 | 98.0 | 101.0 | 98.0 | 95.0 | 98.0 | 95.0 | 94. 0 | 95, 0 | 96.0 | 94. 0 | 95. 0 | 93.0 | 95.0 | 100.0 | 96.0 | 91.0 | 95.0 | 93.0 | 95.1 | 196.8 |
| - Department stores, sales.- | 98.3 | 99.1 | 103.9 | 107.8 | 107.7 | 109.4 | 115.8 | 103.1 | 109. 4 | 101.5 | 111.0 | 100.7 | 103. 1 | 103.1 | 114.2 | 113.4 | 105. 5 | 110.2 | 117.4 | 105.4 | 105.7 |
| - Mail-order houses, sale | 92.7 | 97.4 | 110.5 | 116.2 | 120.1 | 115.2 | 130.2 | 103.0 | 110.5 | 105.9 | 117.1 | 111.5 | 126.5 | 126.5 | 140.5 | 125.5 | 114.3 | 119.9 | 140.5 | 107.7 | 110.6 |
| * 10-cent chains, sales. | 88.5 | 99.3 | 112.3 | 123.2 | 135.3 | 128.6 | 136.8 | 131.9 | 138.9 | 120.5 | 141. 6 | 128.1 | 132.4 | 131.9 | 135.1 | 135.7 | 139.5 | 137.8 | 149.8 | 141.6 | 143.6 |
| Imports. | 97.8 | 93.1 | 109.0 | 114.3 | 107.9 | 115.7 | 111.3 | 110.5 | 96.2 | 117.1 | 116.3 | 107.3 | 109.9 | 98.9 | 114.2 | 105.9 | 110.1 | 106.6 | 102. | 104.5 | 109.3 |
| Exports...-.---..........-- | 91.5 | 100.8 | 107.8 | 105. 5 | 106.8 | 126.5 | 122.6 | 110.5 | 98.2 | 107.7 | 109.4 | 103.6 | 94.0 | 00.1 | 98.7 | 112.0 | 128.7 | 121.2 | 107.4 | 108.1 | 98.2 |
| Transportation: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Freight, net ton-miles...... | 102.2 | 95.9 | 101.9 | 109.1 | 101.5 | 116.2 | 107.5 | 105.1 | 98.8 | 112.1 | 99.4 | 107.5 | 103.1 | 102.9 | 112.5 | 115.1 | 122.1 | 99.8 | 92.7 | 97.2 |  |
| Finance: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Member bank loans and disc. | 94.1 | 98.5 | 107.4 | 112.9 | 117.3 | 114.8 | 116.3 | 113.4 | 114.1 | 114.6 | 114.6 | 116.7 | 117.5 | 115.7 | 117.3 | 119.3 | 120.0 | 121.4 | 123.2 | 121.9 | 120.9 |
| Interest rate (coml. paper)...- | 115.9 | 90.8 | 93.4 | 98.5 | 93.1 | 103.1 | 101.7 | 95.9 | 89.9 | 92.9 | 95. 2 | 95.9 | 95.9 | 94.5 | 90.6 | 89.8 | 92.2 | 01.0 | 92. | 90.1 | 93.0 |
| Federal reserve ratio.......- | 99.0 | 104. 1 | 96.9 | 96.0 | 99.1 | 93.5 | 90.8 | 103.1 | 101.7 | 102.1 | 103.0 | 99.5 | 100.5 | 103.2 | 101.4 | 98.8 | 96.4 | 02.2 | 86. 5 | 95.5 | 96.0 |
| Price, corporation bonds... | 96.4 | 99.9 | 103.6 | 108. 0 | 112. 5 | 109.4 | 110.2 | 111.0 | 110.6 | 111.2 | 111.9 | 112.1 | 111.2 | 111.4 | 112.8 | 113.4 | 114.4 | 114.9 | 115. | 115.91 | 115.8 |
| Price, railroad stocks. | 86.0 | 96.1 | 117.9 | 133.4 | 162.7 | 139.3 | 143.3 | 145. 2 | 151.1 | 152.4 | 158.3 | 162.4 | 165.3 | 167.3 | 167.8 | 171.5 | 168.5 | 171.6 | 171. | 169.1 | 164.7 |
| Price, industrial stocks. | 86.1 | 91.9 | 122.0 | 132.4 | 171.4 | 137.4 | 143.3 | 140.1 | 144.7 | 150.8 | 159.8 | 167.6 | 168.8 | 177.3 | 183.7 | 193.9 | 186.4 | 190.0 | 193.7 | 193.5 | 191.2 |
| Failures (liabilities) | 106.0 | 106. 8 | 87.2 | 80.4 | 102.3 | 77.1 | 107.6 | 121.0 | 110.7 | 136.5 | 125.4 | 89.1 | 81.3 | 101.8 | 92.4 | 77.3 | 85.5 | 85.3 | 120.9 | 112.3 | 106.3 |

## BUSINESS CONDITIONS IN FEBRUARY

## PRODUCTION

The output of raw materials in February was smaller than in either the previous month or February, 1927. Manufacturing production after adjustments for working time differences showed an increase over January, but was slightly lower than in February a year earlier. Contrasted with the preceding month, the unadjusted index of manufactures showed larger production of foodstuffs, textiles, iron and steel products, lumber, leather, and automobiles, while smaller
other than foodstuffs, which declined. As compared with a year ago, all groups were held in larger quantities except raw foodstuffs, which registered a decrease.

## SALES

Unfilled orders for manufactured goods at the end of February showed no change from the previous month, but were lower than a year ago. Compared with January, forward business on the books of iron and steel manufacturers was larger, while unfilled orders for lumber declined and textiles showed no

PRODUCTION, STOCKS, AND UNFILLED ORDERS FOR MANUFACTURED COMMODITIES
[1023-1925 monthly average $=100$. Adjustment has been made for the seasonal movement of stocks and relative number of working days for production. Unfilled orders are principally those of iron, steel, building materials, and textiles. February, 1928, is latest month plotted]

output was registered in paper and printing, ehemicals and oils, stone and clay products, and tobacco. As compared with a year ago, all groups were produced in larger volume except textiles, nonferrous metals, paper and chemicals, which declined, and automobiles, which showed no change.

## COMMODITY STOCKS

Stocks of commodities held at the end of February, after adjustments for seasonal conditions, were larger than in either the preceding month or February a year ago. Contrasted with the preceding month, all groups showed larger stocks except raw materials, other than foodstuffs, and manufactured commodities,
change. Contrasted with a year ago, unfilled orders for iron and steel alone recorded an advance.

Wholesale trade, after adjustments for seasonal conditions, registered an advance over both the preceding month and February of last year. As compared with a year ago, all lines of wholesale trade showed increases, except women's clothing and furniture, which declined, and men's clothing and hardware, which showed no change. Retail trade in February, as measured by department-store sales, after adjustments, for seasonal variations, was larger than in January but smaller than a year ago. Sales by mailorder houses and 10 -cent chain systems recorded advances over both prior periods.

## PRICES

The general index of whoesale prices averaged higher than in January, showing an increase also over a year ago. Contrasted with a year ago, the principal increases occurred in prices for farm products, hides and leather products, foods and textile products, while declines were registered in the prices for fuel and lighting, building materials, chemicals, and certain miscellaneous items.

The indexes of prices received by farmers for their produce showed a decline from the previous month, but were higher than a year ago. As compared with last year, all groups showed higher prices except meat

Prices of stocks averaged lower than in January but were higher than in February, 1927, with bond prices making similar comparisons. Brokers' loans were lower at the end of February than at the end of the previous month. Defaulted liabilities of failing business firms were smaller than in either the previous month or February of last year.

## EMPLOYMENT

Factory employment in January showed an increase over the previous month but was lower than a year ago, all groups showing advances over January except paper and printing, which declined, and lumber which

## WHOLESALE PRICE COMPARISONS, BY GROUPS

[February, 1923, is latest month plotted, 1926 monthly average $=100$ ]

animals, which declined. The cost-of-living index registered declines from both the previous month and February, 1927. Retail food costs were also lower than in either prior period.

## BUILDING AND CONSTRUCTION

New building contracts awarded in February, measured both in floor space and in value, were larger than in either the preceding month or February of last year. Construction costs showed little change from the previous month but were somewhat lower than a year ago.

## BANKING AND FINANCE

Loans and discounts of Federal reserve member banks receded from the previous month but were higher than a year ago. Interest rates on commercial paper averaged higher than in either prior period. The Federal reserve ratio, although higher than in January, was lower than a year ago.
showed no change. Compared with last year, employment was lower in all groups except leather, which showed an advance. Factory pay roll payments in February also recorded advances over January but were lower than a year ago.

Reports from the American Federation of Labor covering unemployment show a little more than 18 per cent of union members in representative cities to be out of employment in February, representing a slight increase over the condition reported for January. Preliminary figures for March, however, show a small decline. Voluntary quits of factory labor in February were smaller than in either the previous month or the same month of last year. Industrial lay-offs, although smaller than in February, 1927, were larger than in January. Wages of common labor averaged higher than in January but were lower than a year ago.

## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

[Relative numbers, 1926 monthly average taken as 100 . February, 1928, is latest month plotted. Data from which these charts are drawn are given on the opposite page]


## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

Note.-Prices to producer on farm products and market price of wool are from U. S. Department of Agriculture, Bureau of Agricultural Economice, nonferrous metals from the Enginecring and Mining Journal-Press. All other prices are from U. S. Department of Labor, Bureau of Labor Statistics. As far as possible all quotations represent prices to producer or at mill.

| COMMODITIEA | Unit | ACTUAL PRICE(dollars) |  |  | RELATTVE Paice |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1926 average $=100$ |  |  |  |  |
|  |  | $\begin{aligned} & \text { January, } \\ & 1928 \end{aligned}$ | $\begin{gathered} \text { February, } \\ 1928 \end{gathered}$ | $\underset{1927}{ }{ }^{\text {February, }}$ | Decem- ber- 1927 | $\begin{aligned} & \text { Janu- } \\ & \text { ary, } \\ & 1928 \end{aligned}$ | February, 1928 1928 | Janu- ary, 1927 | February, 1927 |
| FARM PRODUCTS-AVERAGE PRICE TO PRODUCER |  |  |  |  |  |  |  |  |  |
| Wheat. | Bushel...-. | 1. 152 | 1. 162 | 1.228 | 84 | 85 | 86 | 90 | 91 |
| Corn. | Bushel...-.-. | . 752 | . 790 | . 665 | 107 | 108 | 113 | 92 | 95 |
| Potatoes | Bushel...-- | . 936 | . 962 | 1. 341 | 51 | 50 | 52 | 75 | 72 |
| Cotton. | Pound..... | . 188 | -. ${ }^{170}$ | ${ }_{22} .115$ | 124 | 123 | 113 | 70 | 76 |
| Cattle, beef | Pound......- | 37.4048 .0848 | 37.44 .0872 | 22.0660 | 129 | 131 | 135 | 100 | 102 |
| Hogs.... | Pound...-. | . 0781 | . 0762 | . 1119 | 69 | 66 | 65 | 93 | 95 |
| Lambs. | Pound...-. | . 1134 | . 1190 | . 1084 | 98 | 98 | 103 | 92 | 94 |
| FARM PRODUCTS-MARKET PRICE |  |  |  |  |  |  |  |  |  |
| Wheat, No. 1, northern spring (Minneapolis) | Busbel.... | 1.293 | 1. 263 | 1.403 | 82 | 84 | 82 | 91 | 91 |
| Wheat, No. 2, red, winter (Chicago)--...... | Bushel....- | 1. 425 | 1. 538 | 1. 371 | 90 | 92 | 100 | 89 | 89 |
| Corn, contract grade No. 2, cash (Chicago) | Bushel...-- | . 886 | . 949 | . 756 | 114 | 117 | 125 | 101 | 100 |
| Oats, contract grades, cash (Chicago) | Bushel.....- | . 564 | . 577 | . 480 | 129 | 131 | 134 | 116 | 112 |
| Barley, feeding (Chicago) | Bushel..... | . 932 | . 962 | . 780 | 126 | 134 | 139 | 106 | 112 |
| Rye, No. 2, cash (Chicago) ---.-.......------ | Bushel..... | 1.085 | 1.116 | 1.051 | 114 | 114 | 117 | 106 | 110 |
| Tobacco, leaf, average sales, warehouse (Kentucky) | Cwt--.... | 23.227 | 19. 294 | 10. 536 | ${ }_{112} 23$ | 274 | 228 | 146 | 124 |
|  | Pound P -...- | . 190 | . 185 | . 140 | 112 | 108 | 1113 | 77 | 80 96 |
| Cattle, steers, good to choice, corn fed (Chicago) -......................... | Cwt....... | 15.800 | 14.781 | 11.063 | 163 | 166 | 155 | 108 | 116 |
| Hogs, heavy (Chicago).. | Cwt. | 8.320 | 8.025 | 11. 644 | 70 | 67 | 65 | 97 | 94 |
| Sheep, ewes (Chicago) | Owt | 6.050 | 8.156 | 7.781 | 85 | 92 | 124 | 98 | 118 |
|  | Owt.-.--- | 12.650 | 15.125 | 13. 238 | 95 | 92 | 110 | 91 | 97 |
| FOOD |  |  |  |  |  |  |  |  |  |
| Flour, standard patents (Minneapolis) .................................... | Barrel...... | 7.450 | 7. 369 | 7.419 | 84 | 88 | 88 |  |  |
| Flour, winter straights (Kansas City) ........................................... | Barrel...... | 6. 700 | 6. 6556 | 6. 5449 | 91 106 | ${ }^{92}$ | 92 98 | 90 116 | $\begin{array}{r}90 \\ 113 \\ \hline\end{array}$ |
| Sugar, ${ }^{\text {96 }}$ centrifugal (New York) Sugar, granulated, in barrels ( | Pound....- | . 045 | . 0438 | . 049 | 106 | 104 | 98 102 | 1116 | 113 109 |
| Cottonseed oil, prime yellow (New York) ............................................ | Pound....-- | .101 | . 093 | . 091 | 84 | 85 | 78 | 72 | 77 |
| Beet, fresh, carcass, good native steers (Chicago) | Pound....-. | . 220 | . 212 | . 170 | 136 | 134 | 129 | 104 | 104 |
|  | Pound | . 230 | . 230 | . 175 | 139 | 135 | 135 | 104 | 103 |
| Pork, smoked hams (Chicago)--M.- | Pound...- | . 212 | . 217 | . 273 | 70 116 | 69 109 | 68 104 | 111 | 89 116 |
| Oleomargarine, standard, uncolored (Cbicago) | Pound. | . 235 | . 235 | . 215 | 103 | 103 | 103 | 94 | 94 |
| TEXTILES |  |  |  |  |  |  |  |  |  |
| Cotton yarns, carded, white, northern, mule spun, 22-1 cones (Boston) | Pound..... | . 369 | . 360 | . 306 | 104 | 103 | 101 | 84 | 85 |
| Cotton-print cloth, $64 \times 60-381 / 1^{\prime \prime}-5.35-y$ yards to pound..............-- | Yard......- | . 080 | . 077 | . 069 | 105 | 106 | 103 | 90 | 92 |
| Cotton sheeting, brown 4/4 Trion (New York) ------------........... | Yard.....-- | . 098 | - 095 | . 081 | 113 | 105 | 102 | 88 | 87 |
| Worsted yarns, 2/32's cross-bred stock, white, in skein (Boston)........ | Pound.....- | 1.425 | 1.5000 | 1.375 .995 | 98 97 | 99 | 105 97 | ${ }_{97}^{96}$ | ${ }_{96}^{96}$ |
| Suitings, unflnished worsted-13 ounce. mill. | Yard. | 1.935 | 1. 953 | 1.913 | 96 | 97 | 97 | 95 | 95 |
| Suitings, serge, 11 ounce, $56-58$ inch......... | Yard | 2.093 | 2.093 | 2.048 | 96 | 97 | 97 | 95 | 95 |
| Silk, Japan, 13-15...- | Pound | 5.145 | 5. 292 | 6.027 | 81 | 83 | 85 | 91 | 97 |
| Hosiery, women's, pure silk, mill | Dozen pair- | 10.290 | 10. 290 | 11. 270 | 86 | 85 | 85 | 93 | 93 |
| Leather |  |  |  |  |  |  |  |  |  |
| Hides, green salted, packers' heavy native steers (Chicago)............. | Pound....- | . 261 | . 248 | . 145 | 178 | 186 | 176 | 111 | 103 |
| Hides, caliskins, No. 1, country 8 to 15 pounds (Chicago)............... | Pound -... | . 300 | . 291 | . 158 | 144 | 173 | 168 | 98 | 91 |
| Leather, chrome calf, dull or bright " $B$ "' grades (Boston).-............ | Square foot- | . 535 | . 600 | . 450 | 118 | 118 | 132 | 99 | 99 |
| Leather, sole, oak, scoured backs, heavy (Boston) | Pound...-- | . 590 | . 650 | . 430 | 135 | 135 | 148 | 88 | 98 |
| Boots and shoes, men's black call, blucher (Massachusetts) .-..--.....- | Pair-....--- | 6. 750 | 6. 750 | 6. 400 | 102 | 106 | 106 | 100 | 100 |
| Boots and shoes, men's dress welt tan caif (St. Louls) .........-----..... | Pair | 5.000 | 5.000 | 4.850 | 102 | 102 | 102 | 99 | 99 |
| FUEL |  |  |  |  |  |  |  |  |  |
| Coal, bituminous, mine-run (composite price) ------...-.-............. | Net ton.... | 4. 093 | 4.069 | 4. 338 | ${ }_{9}^{96}$ | 95 | 94 | 103 | 101 |
| Coal, bituminous, prepared sizes (composite price) -.......-............- | Net ton...-- | 4. 545 13.130 | 4.497 | 4. 836 | $\stackrel{99}{97}$ | 95 | 94 | 104 | 101 |
|  | Long ton-.-- | 13. 130 | 13. 232 | 13.724 | ${ }_{98}^{97}$ | 95 | 96 | 100 | 100 |
| Coke, Connellsville (range of prompt and future) furnace-at ovens.-- | Short ton-- | 2. 780 1.220 | 2.713 1.213 | 3.700 1.700 | 68 | 68 65 | ${ }_{64}^{66}$ | ${ }_{93}^{94}$ | 90 90 |
| METALS |  |  |  |  |  |  |  |  |  |
| Pig iron, foundry No. 2, northern (Pittsburgb). | Long ton... | 19.010 | 19.010 | 20.260 | 92 | 92 | 92 | 98 | 98 |
| Pig iron, basic, valley furnace... | Long ton... | 17.000 | 17.000 | 18.000 | 92 | 92 | 92 | 97 | 97 |
| Steel billets, Bessemer (Pittsburgh) --.------------- | Long ton.-- | 33.000 | 33.000 | 33.000 | 94 | 94 | 94 | 100 | 94 |
| Copper ingots, electrolytic, early delivery (New York). | Pound....- | . 1385 | . 1382 | . 1268 | 100 | 100 | 100 | 94 | 92 |
| Brass, sheets, mill .-..-.......-....-- | Pound.-..-. | . 1888 | . 188 | . 179 | 99 | ${ }_{77} 9$ | 99 | 95 | 94 |
| Lead, plig, desilverized, for early delivery (New York) | Pound..... | . 06518 | . .5179 | . 6742 | 77 91 | 87 | 75 81 | 102 | 88 |
|  | Pound....- | . 0564 | . 0555 | . 0667 | 78 | 77 | 76 | 91 | 91 |
| BUILDING MATERIAL AND MISCELLANEOUS |  |  |  |  |  |  |  |  |  |
| Lumber, pine, southern, yellow flooring, mill - .-........................ | M feet....- | 35. 260 | 36. 120 | 40.040 | 79 | 78 | 80 | 91 | 89 |
| Brick, common red, domestic building (New York) .-................- | Thousand.- | 12.750 | 13.500 | 17.000 | 68 | 78 | 82 | 103 | 103 |
| Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district) |  |  | 1.600 | 1. 600 | 97 | 97 | 97 | 99 | 97 |
| Steel beams, mill (Pittsburgh) | Cwt...... | 1.800 | 1.850 | 1.950 | 92 | 92 | 95 | 102 | 100 |
| Rubber, Para Island, fne (Now York) ...................................................... | Pound.....- | . 288 | . 234 | . 261 | 77 | 76 | 62 | 70 | 69 |
| Sulphuric acid $66^{\circ}$ (New York) - .-. | Ton..-...- | 15. 500 | 15.500 | 15.000 | 107 | 107 | 107 | 103 | 103 |
| Wood pulp, sulphite, domestic, unbleached, news grade (New York).- | Cwt. | 2. 525 | 2. 525 | 2. 750 | 88 | 88 | 88 | 98 | 96 |
|  | Cwt........ | 3.250 | 3. 250 | 3. 250 | 94 | 94 | 94 | 94 | 94 |

NEW BUILDING CONTRACTS AND AUTOMOBILE PRODUCTION
[Relative numbers, monthly average, 1923-1925, taken as 100]


MINERAL PRODUCTION AND RAILROAD TON-MILEAGE
[Relative numbers, monthly average, 1923-1925, taken as 100]


FACTORY EMPLOYMENT, MANUFACTURING, AND ELECTRIC POWER PRODUCTION


## REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

## TEXTILES

The supply of wool in February from both domestic and foreign sources was less than a year ago, the decline being particularly marked in imports. In spite of this smaller supply, consumption of wool by textile mills was slightly larger than a year ago. Wool prices rose over the January average and woolens showed the same tendency but to a smaller degree.
Owing to the smaller cotton crop of 1927, which the final ginnings reveal at $12,755,000$ bales, both receipts
of cotton cloth continued to fall behind last year and prices of cotton goods were lower than in January. Cotton finishing establishments also operated at a lower rate than last year.

Imports and deliveries of raw silk in February were considerably higher than last year and while warehouse stocks were less, manufacturers' stocks were higher. The activity of broad looms was higher than last year but narrow looms and spindles were working at a lower percentage of activity. The price of silk rose

## THE TEXTILE INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100 . February, 1928, is latest month plotted. Curves covering imports of wool and exports of cotton are plotted from 12 months' moving monthly averages centered on the end month]

and exports are falling behind the previous year's crop at this time. Consumption by textile mills, however, is only slightly smaller than a year ago, but stocks, both in the United States and for the world, are considerably lower than at the end of February, 1927. Cotton prices declined from January but were still much higher than a year ago.

The activity of cotton mills in February was on about the same level as the previous month but less than a year ago, while yarn prices declined from January. New orders for cotton textiles were higher than in January, but were lower than production, thus resulting in a decline in unfilled orders. Exports
as compared with January but was lower than last year. Rayon imports declined from January, but were much higher than a year ago, while prices have remained unchanged for several months.

Hosiery showed a decline in January from a year ago in production, shipments, new orders, and unfilled orders, while stocks increased. For knit underwear, however, all items except new orders increased in February over a year ago. Production and stocks of fresh water pearl buttons were much larger a year ago than in February. Large increases were made over a year ago in imports of burlaps and fibers and in the manufacture of pyroxylin-coated textiles.

## METALS

Iron ore imports and consumption in February were ahead of last year, although consumption for two months was slightly lower. Stocks of ore were also slightly less than at the end of February, 1927. Pigiron production showed a falling off from last year, especially in merchant furnaces. Production was slightly higher than in January, in spite of the shorter month, and more furnaces were in blast than at the end of January.

The output of steel ingots increased over both the previous month and last year, while unfilled orders of the United States Steel Corporation continued to gain,

In the machinery line, new orders, shipments, and unfilled orders of machine tools were much higher than a year ago, as were new orders and shipments of electric hoists. Washing-machine shipments were slightly higher than last year, while declines occurred in steams power and centrifugal pumps, in electric overhead cranes and in foundry equipment.

Production of copper except at the mines was higher than a year ago, but the total for two months was less than last year in all stages. Exports continued in a higher rate than in the year 1927 and stocks were lower. Prices of copper showed little change from January but was higher than last year.

THE METAL INDUSTRIES
[Relative numbers, monthly average 1923-1925, taken as 100 . February, 1928, is latest month plotted. Curve covering zine stocks is plotted from 12 months' moving monthly averages centered on the end month]

being the largest in two years. Production and new orders of steel castings were less than a year ago, both for February and for two months, while for steel sheets, increases over a year ago were shown in production, stocks, shipments, new orders, and unfilled orders. Steel prices were generally higher than in January but still below a year ago.

Among the fabricated steel products, increased activity over a year ago was noted in fabricated structural steel and in steel furniture both new orders and shipments making gains, while for fabricated steel plate and steel boilers, new orders were less than a year ago. Exports of iron and steel, although lower than in January, were higher than last year.

World visible stocks of tin were higher at the end of February than a year ago, but stocks in the United States were less and imports increased over January and a year ago, but the two-month total showed a decline. Tin prices continued to decline, and zinc output declined slightly from last year, while stocks were higher. The price of zinc declined and was considerably lower than last year. Lead production was slightly higher than a year ago, but for two months was less. The price of lead also declined. Orders and unfilled orders of enameled sanitary ware were higher than a year ago, shipments and stocks being lower.

## AUTOMOBILES

The production of automobiles in February was larger than a year ago, despite a decline in the output of trucks. Exports were also larger than last year, while foreign assemblies declined. Shipments and exports of accessories and parts were also larger than in February, 1927. Imports of rubber declined from January but were larger than a year ago, while the price of rubber declined from both periods.

## FUELS

Bituminous-coal production declined both from January and a year ago, exports showing similar

## HIDES AND LEATHER

Imports of hides and skins continued to increase over a year ago, while the production of hides, as shown by slaughter of cattle, declined. Prices of hides turned downward in February after a long period of increase.

The production of sole leather increased over both the previous month and a year ago, but unfilled orders for harness leather declined. Exports of leather continued far above those for last year and prices continued to increase. The output of shoes was slightly larger than a year ago, but exports declined.

## PAPER AND PRINTING

The output of newsprint paper declined from last year, but the Canadian production showed a consid-

## THE FUEL INDUSTRIES


tendencies. Prices showed little change from January but were less than in February, 1927. Anthracite production declined slightly from both periods, but exports were much larger than a year ago. Prices advanced slightly over January but were less than a year ago. A falling-off in beehive coke production from last year was counterbalanced by a gain in byproduct coke, although the comparison with January showed the reverse tendency. Exports of coke increased over both periods, while prices declined. The output of petroleum in February was smaller than in last year and slightly lower than in January. Prices of petroleum and its products showed little change from January.
erable increase. Publishers consumed more than a year ago and imports were much greater. Mill stocks at both the United States and Canada were much higher than last year, publishers' stocks being slightly less.

Production, shipments and new orders for boxboard were higher than last year, both for February and for the two months' total, while stocks and unfilled orders were smaller at the end of February than a year ago. Production of paper board shipping boxes was less than a year ago, both for February and for two months, but was much higher than the January output.

New orders and shipments of sales books were greater than a year ago, while shipments of cash checks declined.

## BUILDING

Contracts awarded for new buildings, measured both in value and in floor space, were larger than in either the previous month or the corresponding month of 1927. Residential building, representing more than half of the total value, showed the largest relative gains over both periods, while the value of awards for new commercial and industrial buildings were smaller than in either prior period. Construction costs showed but little change from either period. Fire losses were lower than in January but considerably larger than February, 1927.

## LUMBER AND LUMBER PRODUCTS

The output of lumber was larger than a year ago, most of the principal species except Douglas fir showing

## STONE AND CLAY PRODUCTS

The output and shipments of face brick were larger than in the previous month, with shipments showing an increase also over last year. Stocks of face brick were larger than in either the previous month or February a year ago. Prices for common brick averaged higher than in January. The output of Portland cenent was smaller than the previous month but considerably greater than last year, while cement stocks also showed a gain over a year ago. Production of plate glass was larger than in either prior period. New orders for terra cotta, measured in value, were larger than in either the previous month or February a year ago.

THE AUTOMOBILE AND RUBBER INDUSTRIES
[Relative numbers, monthly average 1923-1925 taken as 100 . Where available, February, 1928, is latest month plotted]

increased production; increases were also made over January. Shipments of lumber by manufacturers were generally higher than in either the preceding month or February of last year. Stocks of lumber were generally higher than a year ago. Prices averaged higher than in the preceding month but were lower than a year earlier.

Production of flooring, both oak and maple, was greater than the previous month. As compared with a year ago, the output of oak flooring increased but maple declined. Shipments of oak were larger than in either prior period, while maple flooring shipments showed declines for both periods. Stocks of oak were larger than a year ago, while maple stocks were smaller.

## CHEMICALS

Imports of nitrate of soda were larger than in either the preceding month or the same month of last year, and exports of sulphuric acid, although greater than in January, were considerably smaller than a year ago. Exports of fertilizers were smaller than in either prior period, while exports of dyes showed gains over both periods except coal-tar dyes, which declined from last year. Production of crude methanol was smaller than either the previous month or February of last year, but the output of refined methanol, although lower than in the preceding month, was considerably greater than in February, 1927.

## FOODSTUFFS AND TOBACCO

The visible supply of wheat was substantially greater than a year ago, as were receipts and shipments. Exports of wheat from the United States showed declines from both the previous month and February a year ago. Wholesale prices were generally lower than in either prior period.

The visible supply of corn was lower than a year ago, but receipts and shipments increased. Exports of corn were more than twice as large as in either the previous month or February a year ago. Corn prices were higher than in either prior period. The visible
for hogs and pork products averaged lower than last year.

Receipts of sheep and lambs were larger than a year ago, while production and storage holdings of lamb and mutton were smaller. Prices for sheep and lamb averaged higher than last year. Receipts of poultry at principal markets were larger than a year earlier, while storage holdings were substantially lower. The total catch of fish, although greater than in January, was lower than February of last year, and storage holdings also declined.

Receipts of butter were heavier than a year ago, with storage holdings almost twice as large, but prices

THE TOBACCO INDUSTRIES
[Relative numbers, monthly average, 1923-1925, taken as 100 . February, 1928, is latest month plotted]

supply of oats was lower than a year ago, while receipts and prices were generally higher. The supply of barley also showed a decline from last year with prices averaging higher. Barley receipts at primary markets were smaller than in either the previous month or the same month of last year. The visible supply of rye showed a decline from a year ago, while rye prices were higher than in either the previous month or February of last year.

Receipts and slaughter of cattle and calves were lower than in February, 1927, and storage holdings of beef products also declined. Wholesale prices for cattle and beef products averaged higher than a year ago. Receipts and slaughter of hogs were considerably larger than in February of last year, while storage holdings of pork products were higher. Prices
averaged lower. Receipts of cheese were lower than last year, while storage holdings and prices also declined. Receipts of eggs were larger than last year while storage holdings of case eggs were smaller.

Imports and meltings of raw sugar were lower than a year ago, while stocks at refineries increased. Prices of sugar averaged lower than in either the preceding month or in February of last year. Imports of coffee, although smaller than in January, were larger than a year ago. The visible supply of coffee was greater than last year but prices averaged higher.

Consumption of cigars was greater than in either the previous month or February of a year ago. Consumption of cigarettes and of manufactured tobacco and snuff was lower than in the previous month but higher than in February a year earlier. Exports of cigarettes and of leaf tobacco declined from both prior periods.

## TRANSPORTATION

Car loadings of freight, although larger than in January, were lower than a year ago, the decline from last year being very larely due to smaller loadings of coal and ore. Loadings of grain and grain products and livestock were larger than last year, while loadings of merchandise and goods in less than carloads were slightly smaller. Clearances of vessels plying foreign trade, although smaller than in January, showed larger tonnages than a year ago, with increases over last year larger in both American and foreign bottoms. Merchandise warehouse space was 79 per cent filled at the end of January.

Total reserves showed practically no change from the previous month but were lower than a year ago while the reserve ratio, although slightly higher than in January, was lower than in February, 1927. Interest rates on commercial paper averaged higher than in either prior period. Call loan rates, although lower than in January, were higher than a year ago. Brokers' loans were lower than in January but higher than a year ago, while stock prices made similar comparisons.
gold, silver, and foreign exchange
Domestic receipts of gold at the mint were lower than in January but greater than a year age. Imports of gold was substantially lower than in either prior

WHOLESALE TRADE


DISTRIBUTION MOVEMENT
Postal receipts showed practically no change from the previous month but were larger than a year ago. Newspaper advertising declined from both the preceding month and February, 1927. Sales by the leading mail-order houses were generally larger than in either the previous month or the corresponding month of last year. Ten-cent store business was likewise higher than in either prior period.

## BANKING AND FINANCE

Check payments, both in and outside New York City, were lower than in January but larger than a year ago. Loans and discounts of Federal reserve member banks, although lower than in the preceding month, were higher than a year ago. Bills discounted by Federal reserve banks showed an increase over both the preceding month and February of last year.

period, while gold exports, although lower than in January, were ten times as large as a year ago, the export balance in February contrasting with an import balance a year earlier. Production of silver was smaller than in either the previous month or in February, 1927. Imports of silver, although lower than in January, were greater than a year ago, while exports showed gains over both prior periods. The price of silver averaged lower than in either the preceding month or February of a year ago. Exchange on the principal foreign countries showed little change from the preceding month, but, as compared with a year ago, the Italian lira was substantially higher, while the Japanese yen showed a decline. Imports of merchandise into the United States showed larger values than either the preceding month or February of last year. Exports, although smaller than in January, were slightly larger than a year ago.

## INDEXES OF BUSINESS

The index numbers presented in this table are designed to show the trend in production, prices, trade, etc., by commodities or groups. They consist in general of weighted combinations of series of individual relative numbers; often the individual relative numbers are also given. The function of index and relative numbers is explained on the inside front cover. Many of the index numbers have been reworked to a comparable basis on the average of the years 1923 to 1925, while maxima and minima are given only since 1923, except on this page, thus eliminating the abnormal period prior to 1923. Other index numbers will be revised on the 1923 to 1925 base as soon as the limited printing appropriations will allow their presentation in complete form.


[^0]INDEXES OF BUSINESS-Continued

*See tables on p. 20 of this issue for previous data.

INDEXES OF BUSINESS-Continued


## MISCELLANEOUS DATA

DOORS AT WHOLESALE, 1928 :
(In number of doors)

| item | WHITE-PINE DOORS |  | mir doors |  |
| :---: | :---: | :---: | :---: | :---: |
|  | January | February | January | February |
| Receipts | 10,756 | 18,763 | 9, 175 | 18,069 |
| Shipments.. | 12,465 | 19,309 | 8,860 | 15,524 |
| Stocks, end of mon | 111,313 | 116, 234 | 47,601 | 80,340 |
| Unsold stocks. | 94, 534 | 88, 582 | 41,637 | 65,764 |

${ }^{1}$ Compiled by the Wholesale Sash and Door Association from reports of 20 firms in January and 25 in February.

HOTEL ROOM OCCUPANCY ${ }^{1}$
(Per cent of rooms occupied)

| month | 1926-27 | 1927-28 |
| :---: | :---: | :---: |
| October. | 76 | 72 |
| November. | 74 | 73 |
| December. | 67 | 66 |
| January | 71 | 72 |
| February. | 72 | 71 |

1 Compiled by Horwath \& Horwath from reports of more than 100 Data include both transient and residential hotels.

SALES OF RUBBER BANDS ${ }^{1}$
(Packaged)

| MONTH | Pounds | MONTH | Pounds |
| :---: | :---: | :---: | :---: |
| 1927 |  | 1928 |  |
| October. | 196, 201 | January.. | 217, 798 |
| November. | 181, 046 | February |  |
| December. | 192,926 |  |  |

${ }^{1}$ Compiled by the Rubber Association 0) America (Inc.), Rubber Sundries Manuiacturers' Division. From data reported by 8 manufacturers estimated to represent 80 per cent of the industry.

## RADIO STOCKS IN DEALERS' HANDS ${ }^{1}$

| ITEM | $\begin{gathered} \text { Oct. 1, } \\ 1927 \end{gathered}$ | $\begin{gathered} \mathrm{Jan} .1^{1028} \\ 10 \end{gathered}$ | ITEM | $\begin{gathered} \text { Oct. 1, } \\ 1927 \end{gathered}$ | $\begin{gathered} \text { Jan. } 1, \\ 1928 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of dealers..... | 7,482 | 7,737 | Socket power units (eliminators): |  |  |
| Receiving sets: |  |  | Total. | 41,332 | 49, 753 |
| Battery-operated.- | 65, 921 | 62,788 |  |  |  |
| A.-C. operated..-- | 6,987 | 25, 584 | Receiving tubes: |  |  |
| Loud speakers: |  |  | Battery | 494, 561 | 522,806 |
| Ordinary -.......... | 63, 861 | 74, 771 | A.-C | 29, 278 | 115, 004 |
| Amplified.........- | 3,280 | 3,054 |  |  |  |
| Batteries: |  |  | Rectitying tubes: |  |  |
| Storage.. | 52, 242 | 42,500 | Total | 36,208 | 39,813 |
| Dry. | 246, 143 | 228, 835 |  |  |  |

${ }^{1}$ Compiled by $U$. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, with the cooperation of the National Electrical Manufacturers' Association, Radio Division. Detailed data by States are given in the press releases issued tion, Radio Division. Detailed date

## CEMENT PRODUCTION ${ }^{1}$

(Ratio to capacity)

| month | 1927 | 1928 | MONTH | 1927 |
| :---: | :---: | :---: | :---: | :---: |
| January... | 45.1 | 49.4 | July. | 90.4 |
| February - | 44.6 | 47.5 | August. | 94.5 |
| March. | 61.9 |  | September. | 92.3 |
| April. | 78.1 |  | October-... | 87.4 |
| May | 88.9 |  | November. | 75.9 |
| June. | 93.1 |  | December.- | 60.7 |

${ }^{1}$ Compiled by the U. S. Department of Commerce, Bureaus of Mines, representing the mated capacity of the entire industry.

GAS-FIRED BOILERS: JANUARY, $1928^{1}$

| ITEM | Boilers |
| :---: | :---: |
| Shipments (dollars) | 96,589 |
| Shipments (thous. B. <br> t. u.) $\qquad$ | 86,892 |
| Production (thous. B. <br> t. u.) $\qquad$ | 132, 733 |
| Stocks, end mo. (thous. <br> B. t. u.) | 846, 845 |

${ }^{1}$ Compiled by the Gas Heating Boiler and Furnace Association from reports of 8 manufacturers, estimated to represent about 75 per
cent of the industry. Total shipcent of the industry. Total ship-
ments for previous years were ments for previous years were as follows:
$\$ 2,293,345: ~ 1927, ~$
$\$ 2,702,799$.

## CANADIAN PASSENGER-CAR PRODUCTION

| [Number of vehicles] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| monte | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| January. | 1,415 | 2,054 | 884 | 4,992 | 5,544 | 6,147 | 2,895 | 6,324 | 2,358 | 4,629 | 9,341 | 9, 841 | 8,301 | 11, 781 | 11,745 |
| February. | 1,562 | 2,549 | 1,854 | 5,299 | 6,855 | 5,681 | 2,482 | 8,544 | 3,711 | 6,907 | 10,910 | 12,072 | 10,779 | 14,761 | 14,826 |
| March. | 2,273 | 3, 061 | 3,558 | 6,833 | 9,543 | 9,482 | 4,557 | 9, 254 | 6,608 | 9,892 | 13,742 | 15,194 | 13,014 | 17,989 | 19,723 |
| April. | 2, 717 | 2, 496 | 4,459 | 6,620 | 9,853 | 10,378 | 6,151 | 7,862 | 7,978 | 10,640 | 14, 331 | 14, 448 | 15,515 | 17,929 | 20,890 |
| May.. | 1,907 | 2, 160 | 4, 151 | 6,944 | 12, 07] | 10, 124 | 9,749 | 10,075 | 10,334 | 12, 195 | 16, 705 | 15, 291 | 18,351 | 21,429 | 21,991 |
| June. | 1,470 | 2,167 | 3,700 | 3,566 | 9, 635 | 5, 733 | 9,789 | 9,872 | 7,702 | 10,423 | 13, 299 | 10,757 | 14,249 | 18,818 | 16, 470 |
| July. | 1,483 | 1,196 | 2,719 | 2, 666 | 8,014 | 5,879 | 9,172 | 10, 290 | 5,360 | 6,731 | 10,475 | 8,619 | 11, 140 | 12,953 | 8,719 |
| August. | 1,238 | 824 | 4,101 | 3, 263 | 5,998 | 4. 619 | 7,374 | 5,349 | 3,725 | 6, 266 | 8,742 | 5,436 | 7,430 | 12,778 | 10, 139 |
| September.. | 588 | 368 | 4,494 | 6,273 | 7,216 | 4,163 | 7,409 | 5,528 | 4,026 | 6,671 | 8,272 | 6,588 | 10,372 | 13,347 | 8,681 |
| October | 750 | 517 | 3,480 | 4,988 | 7,288 | 5,313 | 6, 809 | 4,513 | 2, 899 | 5,868 | 7,964 | 6,357 | 13, 921 | 10,595 | 6, 236 |
| November. | 939 | 370 | 2,791 | 1,992 | 6, 552 | 3,598 | 6,430 | 3,447 | 2,777 | 7,145 | 7,602 | 5,962 | 8,741 | 6,774 | 5,173 |
| December. | 1,176 | 360 | 2,743 | 2, 223 | 6, 054 | 3,972 | 7,116 | 2,577 | 3,618 | 7,537 | 7,845 | 7,200 | 7,498 | 6,052 | 2,277 |
| Total. | 17,518 | 18, 022 | 38,934 | 55,659 | 94, 623 | 75, 089 | 79, 933 | 83, 635 | 61, 096 | 94, 904 | 129, 228 | 117, 765 | 139, 311 | 165, 206 | 146,870 |
| Monthly average.. | 1,452 | 1,502 | 3, 245 | 4,638 | 7,885 | 6, 257 | 6,661 | 6,970 | 5,091 | 7,909 | 10,769 | 9,814 | 11,609 | 13,767 | 12, 239 |

${ }^{1}$ Data prior to 1922 represent prorated figures compiled by Babson's Statistical Organization (Inc.) from actual monthly reports of individual companies estimated to represent 90 per cent of the total passenger-car production during those years. Data since 1921 compiled by the Department of Trade and Commerce, Dominion Bureau of Statistics, covering actual production or factory sales for the entire country.

## REVISED INDEX OF MINERAL PRODUCTION

## ［Relative to 1923－1925 monthly average $=100$ ］

As part of the program to bring the general index numbers to a common postwar base，the index of mineral production has now been shifted to the average for the years 1923 to 1925 ， which has been adopted by most compilers of index numbers． New weightings have been calculated，based on the average values of mine production of each commodity shown in the reports of the United States Geological Survey for the years 1923 to 1925，in ten millions of dollars．The same commodities and sources have been used as in the original index，and the index is constructed in the same manner．（See issues for May， 1922，and September，1922．）All the series cover practically complete production in their respective lines，except iron ore （about 85 per cent complete），and gold（about 40 per cent com－ plete）．Prior to 1927 ，lead figures were only about 85 per cent
complete，but these have been prorated to 100 per cent to com－ pare with the later data．The sources and weightings are summarized below：

| COMMODITY | Item used | Source | Weight |
| :---: | :---: | :---: | :---: |
| Petroleum． | Production | Bureau of Mines | 110 |
| Bituminous coal．－ | Shipments from mines． | do | 122 |
| Anthracite coal． | do．．．．．－－－ | do． | 44 |
| Iron ore．．．．．．．．．．．．－ | Shipments through upper Lake ports． | Lake Superior Iron Ore Association． | 18 |
| Copper－．．－－－．．．．． | Mine production．．－．．．．．．． | Am．Bu．of Metal Stat＿ | 22 |
| Lead． | Production of crude lead． | －－－do．－．－．－－－－－－－－－－－ | 9 |
| Zinc | Refined production less imports． | Am．Zine Institute．．．－－ | 7 |
| Gold． | Domestic receipts at mint．．－ | Bureau of the Mint．－．－ | 5 |
| Silver－．．．．．．．．．．．．．－－ | Mine production．．．．．．．．．．．．－ | Am．Bu．of Metal Stat＿ | 5 |


| Month | 共 | $\begin{aligned} & E \\ & \text { E } \\ & \text { E } \\ & \text { E } \\ & \text { R } \end{aligned}$ |  |  |  | 気 | ت | $\begin{aligned} & \text { én } \\ & \stackrel{y}{n} \end{aligned}$ | ？ | $\begin{aligned} & \text { 茦 } \\ & \text { } \end{aligned}$ | \＃ | $E$ $E$ $E$ $E$ E E |  |  | 0 0 \＃ ¢ |  | \＃ | 坒 | \％ | 它 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1920 |  |  |  |  |  |  |  |  |  | 1924 |  |  |  |  |  |  |  |  |  |
| January | 85 | 55 | 114 | 111 |  | 84 |  | 93 |  |  | 102 | 93 | 121 | 114 |  | 101 | 104 | 109 | 85 | 88 |
| February | 74 | 54 | 94 | 95 |  | 81 |  | 91 |  |  | 96 | 91 | 109 | 110 |  | 100 | 97 | 97 | 103 | 112 |
| March． | 84 | 59 | 110 | 118 |  | 69 |  | 101 |  |  | 95 | 98 | 95 | 117 |  | 99 | 107 | 105 | 94 | 104 |
| April． | 72 | 57 | 89 | 93 | 5 | 64 |  | 92 |  |  | 83 | 98 | 70 | 98 | 15 | 100 | 95 | 99 | 90 | 89 |
| May．． | 87 | 60 | 92 | 119 | 161 | 66 |  | 96 |  |  | 95 | 101 | 74 | 112 | 152 | 100 | 102 | 105 | 90 | 107 |
| June． | 94 | 60 | 106 | 122 | 214 | 56 |  | 82 |  |  | 94 | 97 | 72 | 111 | 175 | 97 | 97 | 96 | 75 | 92 |
| July－－－ | 96 | 62 | 106 | 124 | 223 | 59 |  | 86 |  |  | 97 | 101 | 77 | 112 | 168 | 98 | 98 | 95 | 103 |  |
| August | 99 | 63 | 115 | 120 | 214 | 56 |  | 82 |  |  | 97 | 102 | 83 | 102 | 155 | 101 | 100 | 85 | 106 | 102 |
| September | 91 | 61 | 115 | 70 | 206 | 53 |  | 77 |  |  | 102 | 98 | 97 | 110 | 143 | 97 | 97 | 83 | 123 |  |
| October－ | 101 | 65 | 122 | 121 | 205 | 52 |  | 76 |  |  | 108 | 99 | 111 | 111 | 129 | 105 | 109 | 93 | 145 | 106 |
| November | 94 | 63 | 121 | 112 | 125 | 48 |  | 70 |  |  | 94 | 93 | 97 | 98 | 48 | 104 | 105 | 93 | 122 | 106 |
| December | 89 | 64 | 122 | 124 |  | 42 |  | 62 |  |  | 96 | 94 | 106 | 107 | 0 | 103 | 110 | 102 | 104 | 107 |
| Monthly average． | 89 | 60 | 109 | 111 | 113 | 61 | －－ | 84 |  | －－－ | 97 | 97 | 93 | 109 | 82 | 100 | 102 | 97 | 103 | 101 |
|  | 1921 |  |  |  |  |  |  |  |  |  | 1925 |  |  |  |  |  |  |  |  |  |
| January． | 78 | 62 | 95 | 114 | －－－ |  |  | 56 |  |  | 103 |  | 119 | 107 |  | 113 | 113 | 110 | 100 | 104 |
| February | 68 | 58 | 72 | 118 |  | 58 | 59 | 36 | 76 | 103 | 88 | 89 | 89 | 104 |  | 105 | 106 | 103 |  |  |
| March | 71 | 67 | 71 | 117 | － | 68 | ${ }_{5}^{65}$ | 34 | 81 | 115 | 91 | 100 | 86 | 102 |  | 114 | 116 | 113 | 87 | ${ }^{93}$ |
| April | ${ }_{74}^{67}$ | ${ }_{69}^{66}$ | 65 78 | 118 | 4 | 39 | 57 | 36 | 82 | 84 | 91 | 101 | 87 | 108 | 49 | 107 | 104 | 101 | 88 | 104 |
| May． | 74 75 7 | ${ }_{6}^{69}$ | 78 80 | 115 | ${ }_{8}^{60}$ | 18 | ${ }_{59}^{61}$ | 40 | 77 | 81 | 105 | 112 | 81 | 118 | 192 | 107 | 111 | 105 | 81 | ${ }^{99}$ |
| June． | 75 | ${ }_{66}^{66}$ | 71 | 108 | 83 94 4 | 15 | ${ }_{59}^{59}$ | 43 | ${ }^{73}$ | 76 | 104 | 110 | 85 | 113 | 184 | 106 | 106 | 101 | ${ }_{108}^{82}$ | 103 |
| August | 76 | 67 | 81 | 111 | 100 | 16 | 61 | 32 | 107 | 76 | 114 | 110 | 103 | 134 | 197 | 103 | 109 | 102 | 100 | 93 |
| September | 73 | 60 | 82 | 109 | 91 | 16 | 59 | 32 | 64 | 79 | 96 | 107 | 107 | 1 | 170 | 103 | 105 | 104 | 90 | 91 |
| October． | 81 | 58 | 103 | 116 | 75 | 19 | 67 | 32 | 147 | 89 | 102 | 106 | 121 | 1 | 162 | 108 | 119 | 103 | 147 | 88 |
| November | 71 | 62 | 85 | 105 | 9 | 17 | 63 | 47 | 114 | 72 | 94 | 101 | 116 | 2 | 98 | 102 | 114 | 111 | 118 | 92 |
| December | 66 | 69 | 73 | 92 |  | 14 | 67 | 48 | 104 | 74 | 91 | 100 | 121 | 3 | 0 | 106 | 120 | 115 | 108 | 93 |
| Monthly average． | 73 | 64 | 80 | 112 | 43 | 30 | 61 | 39 | 92 | 84 | 99 | 104 | 100 | 76 | 104 | 106 | 111 | 106 | 101 | 96 |
|  | 1922 |  |  |  |  |  |  |  |  |  | 1926 |  |  |  |  |  |  |  |  |  |
| January | 72 | 70 | 86 | 93 |  |  |  | 52 |  |  | 91 | 98 | 122 | 3 |  | 108 | 118 | 124 |  |  |
| February | 75 | ${ }^{67}$ | 94 | 100 |  | 28 | 74 | 50 | 76 | 73 | 85 | 89 | 106 | 31 |  | 103 | 110 | 110 | 85 | 95 |
| March | 91 | 76 | 115 | 130 |  | 47 | 80 | 58 | 81 | 79 | 101 | 99 | 105 | 129 |  | 115 | 121 | 116 | 67 | 98 |
| April． | 46 | 73 | 36 | 0 | 3 | 58 | 72 | 56 | 82 | 79 | 95 | 98 | 91 | 121 | 0 | 111 | 108 | 115 | 86 | 93 |
| May．． | 54 | 76 | 47 | 1 | 37 | 70 | 78 | 60 | 94 | 80 | 103 | 102 | 89 | 119 | 141 | 112 | 116 | 118 | 80 | 96 |
| June．． | 61 | 74 | 51 | 1 | 153 | 72 | 74 | 63 | 88 | 90 | 109 | 101 | 96 | 132 | 203 | 108 | 110 | 105 | 78 | 98 |
| July ．．． | 60 | 76 | 39 | 2 | 207 | 71 | 74 | 70 | 106 | 82 | 112 | 106 | 99 | 124 | 231 | 110 | 111 | 104 | 95 |  |
| August | ${ }^{66}$ | 76 | 51 | 2 | 208 | 76 | 76 | 69 | 118 | 105 | 117 | 109 | 106 | 121 | 248 | 109 | 114 | 113 | 112 | 99 |
| September | 86 | 74 | 94 | 74 | 157 | 72 | 72 | 72 | 103 | 100 | 117 | 107 | 112 | 124 | 222 | 110 | 110 | 113 | 128 | 92 |
| October | 98 | 78 | 104 | 127 | 141 | 78 | 82 | 83 | 137 | 97 | 125 | 114 | 124 | 128 | 216 | 114 | 124 | 117 | 125 | 96 |
| November | 94 | 77 | 104 | 126 | 79 | 77 | 80 | 79 | 120 | 92 | 120 | 114 | 136 | 110 | 91 | 114 | 120 | 115 | 119 | 90 |
| December | 92 | 82 | 107 | 125 | 0 | 79 | 84 | 90 | 95 | 95 | 115 | 118 | 131 | 111 | 1 | 110 | 125 | 121 | 101 | 106 |
| Monthly average． | 75 | 75 | 77 | 65 | 82 ！ | 62 | 77 | 67 | 99 | 87 | 107 | 105 | 110 | 104 | 113 | 110 | 116 | 114 | 98 | 96 |
|  | 1923 |  |  |  |  |  |  |  |  |  | 1927 |  |  |  |  |  |  |  |  |  |
| January－－ | 99 | 86 | 119 | 126 |  | 85 | 89 | 102 | 80 |  | 112 | 116 | 131 | 97 |  | 116 | 116 | 113 | 93 | 98 |
| February－ | ${ }_{8}^{87}$ | 79 | 100 | 113 |  | 78 | 84 | 94 | 83 | 89 | 104 | 111 | 121 | 87 |  | 105 | 106 | 113 | 76 | 94 |
| March． | 100 | 93 | 111 | 136 |  | 92 | 92 | 107 | 74 | 115 | 115 | 123 | 138 | 90 |  | 105 | 120 | 117 | 85 | 96 |
| April． | 95 110 | ${ }_{102}^{96}$ | 101 | 117 | 0 | 90 | 88 | 103 | 75 | 125 | $\begin{array}{r}97 \\ \hline\end{array}$ | 118 | 80 | 106 | 36 | 108 | 118 | 113 | 79 | 89 |
| May | 110 | 102 | 110 | 124 | 154 | 95 | 88 | 103 | 92 | 129 | 108 | 124 | 81 | 119 | 179 | 109 | 112 | 111 | 77 | 91 |
|  | 112 | 102 | 108 | 126 | 220 | 95 | 84 | 94 | 80 | 96 | 108 | 121 | 84 | 108 | 196 | 105 | 114 | 105 | 76 | 93 |
| July． | 114 | 107 | 107 | 121 | 241 | 96 | 84 | 95 | 106 | 102 | 103 | 128 | 77 | 75 | 199 | 99 | 112 | 105 | 105 | 91 |
| August | 119 | 108 | 116 | 128 | 238 | 100 | 86 | 92 | 114 | 100 | 115 | 127 | 96 | 115 | 203 | 102 | 109 | 110 | 105 | 97 |
| September | 103 | 106 | 110 | 42 | 210 | 94 | 83 | 86 | 122 | 94 | 110 | 122 | 96 | 98 | 167 | 100 | 104 | 105 | 118 | 88 |
| October | 117 | 110 | 117 | 126 | 187 | 100 | 94 | 92 | 103 | 102 | 114 | 126 | 101 | 110 | 155 | 106 | 110 | 111 | 111 | 94 |
| November | 105 | 107 | 102 | 112 | 114 | 97 | 91 | 97 | 124 | 92 | 103 | 120 | 93 | 102 | 46 | 103 | 113 | 108 | 105 | 95 |
| December． | 93 | 97 | 95 | 112 | ， | 98 | 95 | 102 | 104 | 90 | 99 | 121 | 95 | 89 |  | 102 | 111 | 115 | 87 | 95 |
| Monthly average．．．． | 105 | 99 | 108 | 115 | 114 | 93 | 88 | 97 | 96 | 103 | 107 ！ | 121 | 99 | 100 | 99 | 105 | 112 | 110 | 93 | 93 |

DEPARTMENT-STORE SALES AND STOCKS ${ }^{1}$
[1923-1925 montbly average $=100$ ]

[1923-1925 monthly average $=100]$

${ }^{1}$ Compiled by the Federal Reserve Board, Division of Research and Statistics, from reports of about 560 department stores located in 250 cities with total annual sales of over $\$ 2,000,000,000$. Stocks are reported by about 470 frms, their 1925 stocks averaging $\$ 570,000,000$. In all cities covered by the sample eensus of distribution, except Chicago, sllow for seasonal variations, differences in number of trading days, and variations in sales attributable to the movable Easter.
${ }^{2} 1925$ monthly average $=100$.

# FOREIGN[CAPITAL ISSUES PUBLICLY OFFERED IN THE UNITED STATES: 1914-1927 

[Thousands of dollars]

| Month | 1914 | 1916 | 1916 | 1917 | 1918 | 1919 | 1980 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1977 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | $\$ 740$ | \$32, 189 | \$13, 104 | \$261, 780 | \$6,000 | \$28, 155 | \$71, 270 | \$71, 322 | \$92, ${ }^{\text {c }} 46$ | \$71, 492 | \$93, 628 | \$83, 500 | \$86, 323 | \$181, 633 |
| Februar | 14, 054 | 20,846 | 95, 609 | 19,173 | 2,300 | 160,977 | 32, 550 | 44,275 | 48, 521 | 50, 462 | 139, 400 | 137, 500 | 113, 588 | 87, 305 |
| March. | 3,000 | 36,433 | 92,855 | 125, 865 | 2,000 | 1, 400 | 55,437 | 29,042 | 148,820 | 24,347 | 11, 454 | 82, 266 | 52,451 | 107, 375 |
| April. | 2,000 | 60,095 | 17,884 | 105,458 | 1,000 | 12, 400 | 13,450 | 15,000 | 216,477 | 12,175 | 41,500 | 52, 740 | 140,650 | 203, 284 |
| May | 200 | 48,531 | 20, 271 | 41, 622 | 500 | 28, 115 | 29,586 | 134, 670 | 33, 280 | 4,500 | 56,603 | 35,003 | 87,515 | 52,879 |
| June. | 3, 764 | 20, 400 | 38,252 | 14,250 | 4,240 | 32, 860 | 87, 601 | 10,975 | 119, 471 | 41, 550 | 27, 815 | 172,078 | 115, 636 | 155, 049 |
| July . | 2,775 | 40,790 | 107, 700 | 104, 230 | 7,520 | 137, 563 | 36,000 | 32,015 | 35,380 | 6,500 | 86, 236 | 172,058 | 120,875 | 67,021 |
| August | None. | 12,750 | 259, 780 | 8,760 | None. | 22, 250 | 26,575 | 51, 820 | 2, 620 | 52, 057 | 90, 565 | 58,450 | 66,340 | 104, 645 |
| September | None. | 7,003 | 17,020 | 17,800 | None. | 5,000 | 121, 525 | 96,350 | 23, 721 | 86,679 | 183, 508 | 175, 019 | 107, 075 | 87,397 |
| October. | 940 | 531,808 | 372, 736 | 2,500 | 100 | 325, 092 | 91, 775 | 49, 260 | 60,870 | 52, 000 | 194,698 | 104, 446 | 154, 240 | 260, 105 |
| November | 3,000 | 7, 100 | 83,519 | 780 | 2,595 | 29,721 | 41,760 | 52,009 | 29, 250 | 39,500 | 113,835 | 185, 525 | 135, 196 | 166,366 |
| December | 7,250 | 15,550 | 12,350 | 15,929 | 3,460 | 29,712 | 28, 662 | 88,375 | 17, 443 | 54, 400 | 180,300 | 71,336 | 138, 666 | 101, 902 |
| Total | 37, 723 | 833, 495 | 1, 131,080 | 718, 147 | 29, 715 | 813,245 | 636, 191 | 675, 113 | 828,399 | 495, 662 | 1,219,542 | 1, 329, 921 | 1, 318, 555 | 1,574,961 |
| Monthly average...- | 3, 144 | 69,458 | 94, 257 | 59, 846 | 2,476 | 67, 770 | 53, 016 | 56, 259 | 69,033 | 41,305 | 101, 628 | 110,827 | 109, 880 | 131, 247 |

${ }^{1}$ Compiled by the UT. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, representing the amount of foreign capital issues publicly offered in the United States by American underwriters. Details by individual issues, classifled by countries, are shown in the bureau's reports.

## LUMBER, UNFILLED ORDERS, END OF MONTH

[Thousands of feet, board measure]


[^1]
## ELECTRIC POWER PRODUCTION IN CANADA (CENTRAL ELECTRIC STATIONS) ${ }^{1}$

[In thousands of kilowatt hours]

| Month | TOTAL |  |  | GENERATED BY WATER |  |  | GENERATED BY |  |  | EXPORTS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1925 | 1926 | 1927 | 1925 | 1926 | 1927 | 1925 | 1926 | 1927 | 1925 | 1926 | 1927 |
| January | 783, 030 | 951,450 | 1, 131,212 | 768,476 | 936, 034 | 1,113,899 | 14, 554 | 15,416 | 17,313 | 91, 300 | 113,026 | 130,894 |
| February | 717,455 | 870, 530 | 1,065, 850 | 705, 156 | 856, 485 | 1, 050, 057 | 12, 299 | 14,045 | 15, 793 | 79,260 | 98, 086 | 121, 829 |
| March | 804,512 | 952, 276 | 1, 150, 008 | 792, 234 | 939,537 | 1,133,785 | 12, 278 | 12, 738 | 16, 223 | 100, 160 | 110, 911 | 133, 702 |
| April. | 795,389 | 902, 045 | 1, 109, 721 | 783,776 | 891, 041 | 1,094, 646 | 11, 613 | 11,004 | 15,075 | 106, 335 | 115, 696 | 129,709 |
| May | 816,084 | 960,939 | 1,115, 602 | 805,752 | 949, 946 | 1, 101, 834 | 10,332 | 10, 993 | 13,768 | 106, 354 | 119,398 | 124,749 |
| June. | 786, 877 | 971,775 | 1, 107, 927 | 776, 413 | 959, 913 | 1,094, 728 | 10,462 | 11, 862 | 13, 201 | 107, 192 | 127, 351 | 139,439 |
| July. | 795, 971 | 966, 169 | 1,104, 260 | 784, 775 | 952, 711 | 1,089, 688 | 11, 196 | 13, 458 | 14,572 | 109,630 | 132, 225 | 138, 085 |
| August. | 784, 620 | 982, 174 | 1,229,089 | 773, 045 | 969,469 | 1,213,531 | 11,575 | 12, 705 | 15, 558 | 111, 181 | 142, 860 | 157, 197 |
| September | 822, 814 | 1,008, 176 | 1, 197, 023 | 809, 507 | 992,793 | 1, 181, 173 | 13, 307 | 15, 383 | 15,850 | 116, 542 | 146, 678 | 154, 047 |
| October- | 918, 882 | 1, 100, 413 | 1, 309, 170 | 902, 968 | 1,085, 228 | 1, 289, 967 | 15,914 | 15, 185 | 19,203 | 126, 143 | 144, 160 | 142, 991 |
| November | 900,180 | 1, 112, 063 | 1,311, 211 | 878, 404 | 1,096,629 | 1, 289, 242 | 21,776 | 15, 434 | 21,969 | 114, 443 | 128, 041 | 129, 415 |
| December. | 966, 397 | 1,145, 723 | 1, 361, 864 | 950, 228 | 1,127, 185 | 1,339, 206 | 16, 169 | 18, 538 | 22,658 | 117,002 | 127, 568 | 130, 552 |
| Total | 9, 892, 209 | 11, 923, 733 | 14, 193,037 | 9, 730, 734 | 11,756,971 | 13, 991, 754 |  |  | 201, 183 | 1, 285, 542 | 1, 506, 000 | 1,632,609 |
| Monthly average | 824, 351 | 993, 644 | 1, 182, 753 | 810, 895 | 979, 748 | 1,165, 980 | 13, 456 | 13,897 | 16, 765 | 107, 129 | 125, 500 | 136,051 |

[^2]
## COFFEE MOVEMENT ${ }^{1}$

[Thousands of bags]

| Monti | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RECEIPTS IN BRAZIL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January. | 649 | 874 | 1,507 | 1,315 | 771 | 1,717 | 582 | 481 | 1,237 | 1,167 | 1,079 | 1,289 | 957 | 1,248 | 1,218 |
| February. | 477 | ${ }_{532}^{632}$ | 1,275 | 887 | 494 | 1,342 |  | 476 | 824 | 1,053 |  | 1,092 | 841 | 1,024 | 1,052 |
| March. | 413 | 532 | 1,113 | 725 | 558 | 748 | 691 | 481 | 917 | -995 | 794 | 1, 151 | 965 | 1,123 | 1,063 |
| April. | 290 | 454 | 773 | 504 | 462 | 715 | 711 | 343 | 1,108 | 892 | 291 | 1,179 | 787 | 808 | ${ }^{933}$ |
| May- | 330 | 423 | 585 | 423 | 405 | 843 | 654 | 389 | 1,022 | 808 | 341 | 1,094 | 546 | 824 | 1,058 |
| June | 545 | 609 | 526 | 726 | 406 | 796 | 621 | 466 | 1,106 | 498 | 612 | 1,186 | 766 | 1,000 | 1,206 |
| July--. | 1,048 | 1,213 | 1,568 | 1,442 | 995 | 780 | 622 | 947 | 1,224 | 743 | 1,112 | 659 | 1,176 | 1,175 | 1,258 |
| August. | 2, 129 | 539 | 2,060 | 1,643 | 2,105 | 841 | 904 | 1,486 | 1,319 | 1,139 | 1,368 | 1,641 | 1,258 | 1,267 | 1,504 |
| September | 2, 164 | ${ }^{918}$ | 1,863 | 1, 812 | 1,793 | 1,258 | 980 | 1,423 | 1,234 | 1,023 | 1,358 | 1,870 | 1, 623 | 1,167 | 1,405 |
| October- | 2, 244 | 1,640 | 2,153 | 1,715 | 1,793 | 999 | 939 | 1,443 | 1,192 | 1,126 | 1,397 | 1,648 | 1,342 | 1,262 | 1,838 |
| November | 1,851 | 1,642 | 1,919 | 1,554 | 1,432 | 793 | 837 | 1,528 | 1,187 | 1,114 | 1,300 | 1,428 | 1,271 | 1,324 | 1,714 |
| December | 1,511 | 1,761 | 1,829 | 1,487 | 1,559 | 1,099 | 564 | 1,460 | 1,290 | 1,035 | 1,288 | 1,123 | 1,311 | 1,493 | 1,372 |
| Total | 13, 651 | 11,237 | 17, 171 | 14, 233 | 12,773 | 11,931 | 8,797 | 10, 923 | 13, 660 | 11, 593 | 11,899 | 15,358 | 12,843 | 13,715 | 15, 621 |
| Monthly averag | 1,138 | 936 | 1,431 | 1,186 | 1,064 | 994 | 733 | 910 | 1,138 | 966 | 992 | 1,280 | 1,070 | 1,143 | 1,302 |

CLEARANCES FROM BRAZIL TO THE UNITED STATES

| January | 578 | 593 | 714 | 461 | 398 | 648 | 234 | 367 | 595 | 499 | 693 | 505 | 623 | 572 | 666 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| February. | 334 | 509 | 396 | 406 | 871 | 492 | 837 | 579 | 680 | 327 | 828 | 635 | 378 | 611 | 447 |
| March.. | 322 | 422 | 865 | 489 | 418 | 173 | 365 | 746 | 712 | 464 | 601 | 577 | 462 | 649 | 672 |
| A! ril | 133 | 368 | 260 | 424 | 694 | 503 | 503 | 324 | 503 | 667 | 212 | 463 | 278 | 353 | 511 |
| May. | 169 | 376 | 367 | 394 | 283 | 875 | 258 | 525 | 218 | 337 | 356 | 466 | 292 | 554 | 509 |
| June. | 157 | 393 | 212 | 100 | 313 | 410 | 737 | 542 | 345 | 337 | 309 | 634 | 676 | 511 | 655 |
| July.... | 247 | 280 | 385 | 342 | 308 | 305 | 623 | 510 | 386 | 325 | 339 | 406 | 701 | 653 | 666 |
| August | 422 | 307 | 886 | 526 | 696 | 251 | 572 | 619 | 310 | 425 | 803 | 566 | 711 | 684 | 595 |
| September. | 571 | 626 | 629 | 639 | 669 | 224 | 697 | 609 | 514 | 554 | 891 | 713 | 705 | 695 | 712 |
| October | 674 | 696 | 967 | 1,016 | 704 | 148 | 652 | 290 | 673 | 835 | 968 | 828 | 719 | 780 | 862 |
| November | 745 | 421 | 683 | 1,055 | 472 | 196 | 487 | 465 | 783 | 738 | 748 | 668 | 758 | 721 | 813 |
| December. | 574 | 541 | 699 | 769 | 482 | 254 | 333 | 677 | 433 | 481 | 756 | 530 | 731 | 716 | 876 |
| Total | 4,926 | 5,532 | 7,063 | 6, 621 | 6, 308 | 4,479 | 6, 298 | 6, 253 | 6,152 | 5,989 | 7,504 | 6, 991 | 7,034 | 7,499 | 7,984 |
| Monthly average. | 411 | 461 | 589 | 552 | 526 | 373 | 525 | 521 | 513 | 499 | 625 | 583 | 586 | 625 | 665 |

TOTAL CLEARANCES FROM BRAZIL

| January | 1,374 | 1,388 | 1,671 | 1,107 | 725 | 829 | 918 | 834 | 993 | 1,259 | 1,226 | 1,134 | 1,048 | 1,053 | 1,241 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| February | 812 | 1,038 | 1,461 | 1,023 | 1,366 | 578 | 1,600 | 748 | 1,076 | 968 | 1,187 | 1,297 | 757 | 1,077 | 947 |
| March. | 561 | 809 | 1,663 | 1,321 | 839 | 450 | 1,522 | 1,296 | 1,154 | 1,159 | 1,155 | 1,016 | 772 | 1,105 | 1,223 |
| April | 38.5 | 724 | 1,326 | 895 | 1,053 | 766 | 1,219 | 883 | 964 | 1,072 | 679 | 728 | 679 | 818 | 942 |
| May | 415 | 625 | 801 | 1,117 | 591 | 1,063 | 836 | 739 | 727 | 703 | 679 | 940 | 618 | 915 | 935 |
| June. | 504 | 788 | 506 | 422 | 536 | 811 | 1,132 | 841 | 776 | 754 | 717 | 1,039 | 1,242 | 904 | 1,169 |
| July | 659 | 686 | 720 | 864 | 482 | 632 | 1,040 | 723 | 975 | 732 | 773 | , 997 | 1,247 | 1,229 | 1, 235 |
| August | 1,292 | 393 | 1,500 | 954 | 933 | 471 | 807 | 1,026 | 998 | 1, 041 | 1,543 | 1,455 | 1,495 | 1,305 | 1,312 |
| September | 1,589 | 831 | 1,267 | 1,152 | 1,080 | 383 | 798 | 1,286 | 1,218 | 1,083 | 1,665 | 1,419 | 1, 445 | 1,263 | 1,334 |
| October. | 2,074 | 1, 265 | 2, 143 | 1,365 | 1,235 | 376 | 1,105 | 1,002 | 1,060 | 1,521 | 1,812 | 1,731 | 1,591 | 1,394 | 1,583 |
| November | 1,835 | 1,281 | I, 838 | 1,552 | 728 | 390 | 1,039 | 1,017 | 1,145 | 1, 175 | 1,371 | 1,214 | 1,303 | 1,301 | 1,510 |
| December | 1,665 | 1,308 | 1,789 | 1,168 | 798 | 538 | 602 | 930 | 952 | 959 | 1,288 | 926 | 1,216 | 1,194 | 1,441 |
| Total | 13,165 | 11, 136 | 16,743 | 12,940 | 10,366 | 7,287 | 12,618 | 11,325 | 12,038 | 12,426 | 14,095 | 13, 896 | 13,413 | 13, 558 | 14,872 |
| Monthly average. | 1,097 | 928 | 1,395 | 1,078 | 864 | 607 | 1,051 | 944 | 1,003 | 1,035 | 1,175 | 1,158 | 1,118 | 1,130 | 1,239 |

WORLD VISIBLE SUPPLY (END OF MONTH)

| January | 12,600 | 13, 293 | 10, 125 | 9,963 | 10,607 |  | 6,472 | 8,902 | 9,234 | 7,721 | 4,198 | 5,291 | 4,753 | 4,605 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Februar | 12,004 | 12,928 | 10,004 | 9,342 | 10,312 |  | 9, 069 | 8,992 | 9, 404 | 7,491 | 4,183 | 5, 112 | 4,762 | 4,385 |
| March | 11, 664 | 12, 633 | 9,646 | 8,939 | 9, 882 |  | 8,484 | 8,842 | 9, 185 | 6, 936 | 3, 892 | 5, 329 | 4,747 | 4, 318 |
| April. | 10, 032 | 12,110 | 8,975 | 8,514 | 9, 289 |  | 7,881 | 8, 663 | 8,944 | 6, 104 | 4,351 | 5,353 | 4,464 | 4,261 |
| May. | 10,583 | 11,578 | 8,228 | 7,855 | 8,157 |  | 7,272 | 8,720 | 8,872 | 5,451 | 4, 665 | 5,123 | 4,387 | 4,322 |
| June | 10,285 | 11,302 | 7,523 | 7,328 | 7,794 |  | 6,910 | 8,639 | 8,577 | 5,297 | 5,020 | 5,009 | 4,491 | 4,393 |
| July. | 10, 466 | 11,467 | 8,533 | 7,908 | 7,987 | 7,158 | 7,034 | 9.034 | 8,600 | 5,524 | 4, 352 | 5, 128 | 4,560 | 4,537 |
| August. | 11, 433 | 10,616 | 9,519 | 8,730 |  | 7,100 | 7,773 | 9,032 | 8 8,775 | 5,777 | 5,183 | 5,118 | 4,739 | 4,716 |
| Soptember | 12, 173 | 10,083 | 9,862 | 9,779 |  | 7, 695 | 8,297 | 8, 920 | 8 8,513 | 5,742 | 5, 653 | 5,096 | 4,663 | 4, 622 |
| Oetober- | 13,710 | 10, 310 | 10, 463 | 10, 619 |  | 7,658 | 8, 379 | 8,867 | 8,460 | 5,325 | 5,734 | 5,082 | 4,601 | 4, 917 |
| November | 13,189 | 10,156 | 10, 431 | 11, 111 |  | 7,337 | 8,716 | 9,076 | 8,242 | 4,695 | 5,661 | 5,035 | 4,564 | 5,069 |
| December. | 13,688 | 9,989 | 10,312 | 11, 277 |  | 6,958 | 9,002 | 9, 263 | 7,953 | 4,293 | 5,388 | 5,080 | 4,701 | 5,041 |
| Monthly average | 11,819 | 11,370 | 9, 468 | 9, 280 | 2 10,671 | ${ }^{3} 7,318$ | 7,941 | 8,913 | 8,730 | 5,863 | 4,857 | 5,146 | 4,619 | 4, 597 |

UNITED STATES VISIBLE SUPPLY (END OF MONTH)

| January | 2,289 | 1,559 | 1,486 | 2,052 | 2,473 | 2,288 | 1,054 | 1,332 | 1,647 | 1,387 | 819 | 670 | 714 | 684 | 1,014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| February | 2,369 | 1,682 | 1,723 | 1,901 | 2,498 | 2,490 | 900 | 1,396 | 1,901 | 1,453 | 1,090 | 571 | 652 | 798 | 003 |
| March | 2,363 | 1,684 | 1,759 | 1,802 | 2,948 | 2,098 | 1,398 | 1,504 | 2,046 | 1,195 | 1,208 | 652 | 888 | 743 | 765 |
| April. | 2,245 | 1,717 | 1,966 | 2,080 | 2,883 | 1.837 | 1,225 | 1,792 | 2,058 | 1,039 | 1,033 | 634 | 695 | 694 | 806 |
| May | 2,018 | 1,657 | 1,816 | 2, 107 | 2,701 | 1,810 | 974 | 1,494 | 2,037 | 1,146 | 826 | 657 | 537 | 583 | 743 |
| June. | 1,848 | 1,654 | 1,818 | 2,021 | 2,586 | 2,002 | 879 | 1,699 | 1,747 | 1,086 | 860 | 760 | 713 | 647 | 788 |
| July. | 1,621 | 1,686 | 1,599 | 1,872 | 2,549 | 2,239 | 1,009 | 1,823 | 1,711 | 1,124 | 798 | 873 | 804 | 691 | 634 |
| August | 1,452 | 1,354 | 1, 543 | 1,765 | 2,549 | 1,899 | 1,136 | 1,936 | 1,685 | 904 | 716 | 966 | 859 | 832 | 825 |
| September | 1,389 | 1,385 | 1,554 | 1,894 | 2,608 | 1,897 | 1,347 | 2,026 | 1,306 | 940 | 944 | 739 | 716 | 912 | 547 |
| October.- | 1,316 | 1,493 | 1,753 | 1,908 | 2,756 | 1,477 | 1,411 | 2,025 | 1,175 | 838 | 944 | 772 | 583 | 899 | 634 |
| November | 1,396 | 1,541 | 1,741 | 2,270 | 2,520 | 1,221 | 1,656 | 1, 696 | 1,298 | 957 | 884 | 803 | 789 | 888 | 686 |
| December | 1,709 | 1,505 | 1,965 | 2,525 | 2,262 | 955 | 1,571 | 1,619 | 1,616 | 958 | 712 | 611 | 888 | 978 | 768 |
| Monthly average. | 1,835 | 1,576 | 1,727 | 2,016 | 2,611 | 1,851 | 1,213 | 1,695 | 1,686 | 1,086 | 903 | 726 | 736 | 779 | 759 |

[^3]
## TREND OF BUSINESS MOVEMENTS

The following table contains a summary of the monthly figures, designed to show the trend in important industrial and commercial movements. These data represent continuations of the figures presented in the latest semiannual number (February, 1928), in which monthly figures for 1926 and 1927 may be found, together with explanations as to the sources and exact extent of the figures quoted. The figures given below should always be read in connection with those explanations. Data on stocks, unfilled orders, etc., are given as of the end of the month referred to. For explanations of relative numbers, including base periods, see introduction on inside front cover.

## ERRATA IN FEBRUARY, 1928, ISSUE

Page 32.-Spindle activity, ratio to capacity, monthly average for 1927, should read 104.9.
Page 33.-Note 2, last sentence, at bottom of page, should be corrected to read, "The item on weeks sold ahead represents the excess of unfilled orders over stock, divided by weekly production."
Page 60.-Men's dress welt, tan calf, St. Louis, monthly average for 1927, should read 4.93 .

Page 56.-Rubber-proofed fabrics, total production for the year 1927 should read March, 2,756; April, 2,800; May, 2,642; June, 2,776; July, 3,330; August, 4,077; September, 4,545; October, 4,634; and November, 3,791.
Page 127.-Interest rates on commerical paper, 4-6 months, for the year 1927, should read February, 3.87; March 4.00; April, 4.10; July, 4.07; August, 3.90; September, 3.87; October, 3.97; November, 3.92; and December, 3.97.

${ }^{1}$ Total ginnings of crop grown in previous year.

## TREND OF BUSINESS MOVEMENTS-Continued



TREND OF BUSINESS MOVEMENTS-Continued


[^4]TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 o the February, 1928, "Survey" | 1927 |  |  | 1978 |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DEREASE }(-) \end{aligned}$ |  | cumulative total from january 1 through februARY 28 |  | Per ct.in-crease( + )or de-crease$(-)$cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{gathered} \text { Decem- } \\ \text { ber } \end{gathered}$ | January | February | January | February | Feb., 1928, from Jan., 1928 | Feb., 1928, from Feb., 1927 | 1927 | 1929 |  |
| IRON AND STEEL-Continued Crude Steel-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Iron, steel, and heavy hardware: Sales | 216 | 186 | 166 | 157 |  | 169 | 165 |  |  |  |  |  |
| Lock washers, shipments........................... of dolls. Wholesale prices: | 2199 33 | $\begin{array}{r}174 \\ \\ \\ \hline 100\end{array}$ | 183 3800 | 219 | ${ }^{236}$ | 208 | 253 | +7.8 | -6.7 | 461 | 455 | -1.3 |
| Steel billets, Bessemer.-dolls. per long ton.- | 33. 00 | 33.00 | 33. 00 | 33.00 | 33.00 | 35. 00 | 33.00 | 0 | 0 |  |  |  |
| Iron and steel-......-.dolls, per long ton-- | 35. 75 | 35. 39 | 35. 10 | 35.27 | 35. 57 | 37.76 | 37.01 | +.9 | -3.9 |  |  |  |
| Structural steel beams..-dolls. per $100 \mathrm{lbs} .$. Composite finished steel dolls. per $100 \mathrm{lbs} .$. | 1.80 2.48 | 1.75 2.47 | 1.80 2.46 | 1.80 2.47 | 1.85 | 2.00 2.62 | 1.95 2.56 | +2.8 +2.0 | -5.1 |  |  |  |
| Fabricated Steel Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Structural steel, fabricated:* <br> New orders (prorated) $\qquad$ short tons. <br> Ratio to capacity $\qquad$ per cent <br> Shipments (prorated) <br> Ratio to capacity $\qquad$ $\qquad$ short tons. per cent | 288, 750 |  | 3262,500 |  |  |  |  |  |  |  |  |  |
|  |  | 3 326,250 63 |  | ${ }^{3} 210,000$ | 270, 000 | 195,000 52 | 243,750 | +28.6 +28.6 | +10.8 +10.8 | 438,750 | 480,000 | +9.4 |
|  | 251, 250 |  | 240, 000 | 210, 000 | 232, 500 | 195, 000 | 202, 500 | +10.7 +14.8 <br> +10.7 +14.8 |  | 397, 500 | 442,500 | +11.3 |
|  |  | 24, 66 | 240,64 | 21, 56 | 232, 62 | 195, 52 | 20, 54 |  |  |  |  |  |
| Ratio to capacity Steel plate, fabricated, new orders: Total. $\qquad$ | $\begin{array}{r}47,090 \\ 58 \\ \hline\end{array}$ | 27,34134 | ${ }^{3} 35,658$ | $\begin{array}{r}3 \\ 35,787 \\ 3 \\ 3 \\ \hline 15\end{array}$ | 49,58862 | 35,85445 | 59,64374 | +38.6+37.8+ | $-16.9$ | 95,497 | 85, 375 | -10.6 |
| Ratio to capacity .-...........------ per cent-- |  |  |  |  |  |  |  |  | $-16.2$ |  |  |  |
| Oil-storage tanks .-.............--short tons.- | 18,648 27,656 | 8,92027,026 | 13, 367 | 11,10145,010 | 25, 532 | 14, 342 | 32,983 | +130.0 | -22.6 | 47, 325 | 36, 633 | -22.6+14.9 |
| Steel bars, cold finished, shipments* .----tons.- | 27, 656 |  |  |  | 40,354 | 34, 887 | 39,408 | -10.3 | +2.4 | 74,295 | 85, 364 |  |
| Stotal.............................number.. |  | 1,125 |  | 1,029859 | 1, $\begin{array}{r}967 \\ 1\end{array}$ | 1,021 |  | -6.0 | -12.2 |  |  | -5.9-21.8 |
| Area-..............................thous. of sq. ft .. | $\begin{array}{r} 1,270 \\ 930 \end{array}$ |  | 1,906 |  |  | 1,179 | 1,101 1,390 | -6.0 +34.0 | $-17.2$ | 2, 2,122 | 2,010 |  |
| Steel furniture:Business group- |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments.---.-.---.--thous. of dolls.- | 2,3802,4112 | 2,8562,476 | 2,7412,850 | 2,713 <br> 3,248 | $\begin{aligned} & 2,909 \\ & 3,296 \end{aligned}$ | 2,887 | 2,6862,771 | +7.2 | +8.3 | 5,658 | 5,621 | +3.8+15.7 |
| New orders.............thous. of dolls.- |  |  |  |  |  |  |  |  | +18.9 |  |  |  |
| Unflled orders, end mo.thous. of dolls.- | 1,574 | 1,577 | 1,414 | 2,000 | 2,389 | 1,728 | 1,804 | +19.5 +32.4 |  |  |  |  |
| Shelving- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & 619 \\ & 551 \\ & 666 \end{aligned}$ | $\begin{aligned} & 591 \\ & 575 \\ & 651 \end{aligned}$ | 578 619 | 680 769 | 682 741 | 556 576 | $\begin{aligned} & 608 \\ & 658 \end{aligned}$ | +.3 +12.2 <br> -3.6 +12.6 |  | $\begin{aligned} & 1,164 \\ & 1,234 \end{aligned}$ | 1,362 1,510 | +17.0+22.4 |
| Unfilled orders, end mothous. of dolls..- |  |  | 606 | 680 | 743 | 623 | 675 | +9.3 | +10.1 |  |  |  |
| Iron and steel: | 170,25539,516 | 177,92851,185 | 168,42855,070 | 205,76649,903 | $\begin{array}{r} 185,915 \\ 36,861 \end{array}$ | 215,23542,219 | $\begin{gathered} 166,128 \\ 31,908 \end{gathered}$ | $\begin{array}{r} -9.6 \\ -26.1 \end{array}$ | $\begin{aligned} & +11.9 \\ & +15.5 \end{aligned}$ | $\begin{array}{r} 381,363 \\ 74,127 \end{array}$ |  | $\begin{array}{r} +2.7 \\ +17.0 \end{array}$ |
|  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} 391,681 \\ 86,764 \end{array}$ |  |
| Machinery |  |  |  |  |  |  |  |  |  |  |  |  |
| Washing machines, shipments: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 86,92271,570 | $\begin{gathered} 79,422 \\ 64,082 \end{gathered}$ | $\begin{aligned} & 69,945 \\ & 56,999 \end{aligned}$ | $\begin{aligned} & 68,840 \\ & 56,728 \end{aligned}$ | $\begin{aligned} & 74,830 \\ & 61,944 \end{aligned}$ | 67,21455,319 | 74,56362,5101 | +8.7+9.2 | +.4-.9 | 1417,777 | 143,670118,672 | +1.3+.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Water softeners, domestic, shipments ---units.- | 8,365 | 7,079 | 1,1065,980 | ${ }^{3} 6$ 6, 746 | 1,396 | 1,273 | 1,437 | +10.1 | +22.1 | $\stackrel{2}{2}, 710$ | 2,664 | -1.7+30.0 |
| Water systems, shipments. units.Pumps: $\qquad$ |  |  |  |  | 6,076 | 4,886 | 4,975 | -9.9 |  | 9,861 | 12,822 |  |
| Domestic shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| Pitcher, hand, etc-...-...-.-----units.- | 40,4431,758 | 36, 130 | 38, 148 | $\begin{array}{r} 3 \\ \quad \\ \quad \\ \quad 81,522 \\ \hline \end{array}$ | $\begin{array}{r} 51,999 \\ 1,598 \end{array}$ | 45,283608 | 46,921695 | $+.3$ | +10.8+129.9 | 92,2041,303 | 103,8213,189 | +12.6+144.7 |
| Power, horizontal type.......-.-.units.Steam, power, and centrifugal- |  | 1,461 | 1,370 |  |  |  |  |  |  |  |  |  |
| New orders............-thous. of dolls.. | $\begin{aligned} & 1,300 \\ & 1,303 \\ & 2,950 \end{aligned}$ | $\begin{aligned} & 1,403 \\ & 1,294 \\ & 3,092 \end{aligned}$ | $\begin{aligned} & 1,300 \\ & 1,255 \\ & 3,125 \end{aligned}$ | $\begin{aligned} & 1,137 \\ & 1,138 \\ & 3,112 \end{aligned}$ | $\begin{aligned} & 1,346 \\ & 1,177 \\ & 3,260 \end{aligned}$ | $\begin{aligned} & 1,634 \\ & 1,112 \\ & 3,500 \end{aligned}$ | $\begin{array}{r} 1,390 \\ 81,487 \\ 3,384 \end{array}$ | $\begin{array}{r} +18.4 \\ +3.4 \\ +4.8 \end{array}$ | $\begin{array}{r} -3.2 \\ -20.8 \\ -3.7 \end{array}$ | $\begin{aligned} & 3,024 \\ & 2,599 \end{aligned}$ |  | -17.9 |
| Shipments---.-.....---- thous. of dolls.. |  |  |  |  |  |  |  |  |  |  | 2,315 | -10.9 |
| Unfilled orders, end mo_thous. of dolls.- |  |  |  |  |  |  |  |  |  |  |  |  |
| Agricultural machinery and equipment: Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 122.6 | 87.3 | 90.7 | 3116.0 | 171.4 | 103.7 | 140.4 | +47.8 | +22.1 |  |  |  |
| Domestic................-rel. to 1923-25.. | 112.0 | 80.0 | 82.4 | 1117.2 | 161.7 | 105.6 | 133.5 | +38.0 | +21.1 |  |  |  |
| Foreign.................-rel. - do 1923-25-- | 178.0 | 125.6 | 133.8 | ${ }^{1} 1109.9$ | 220.4 | ${ }^{93.5}$ | 176.2 | $+100.5$ | +25.1 |  |  |  |
| Production...................rel. to 1923-25.. | 121.1 | 123.5 | 136.0 | ${ }^{\text {a }} 130.7$ | 137.7 | 136.9 | 138.6 | +5.4 | -. 6 |  |  |  |
| Foundry equipment: <br> New orders. $\qquad$ rel. to 1922-24 | 98.0 | 95.8 | 106.8 | 129.7 |  | 180.4 | 198.0 |  | -37.6 |  |  |  |
| Shipments ........................rel. to 1922-24.-. | 113.4 | 97.2 | 110.4 | 116.4 | 110.6 | 18.4 |  | -5.0 |  |  |  |  |
| Unfilled orders, end of month <br> rel to 1922-24 | 106.3 | 105.8 | 103.5 | 120.6 | 132.9 |  |  | +10.2 |  |  |  |  |
| Stokers, mechanical: |  |  |  |  |  |  |  |  |  |  |  |  |
| Sales (new orders).................number-- |  | 67 |  | 75 |  | 69 | 105 | +13.3 | -19.0 | 174 | 160 | -8.0 |
| Sales (new orders) Machine tools: | 27, 222 | 16,955 | 32, 202 | 26, 572 | 43, 643 | 40,467 | 41,400 | +64.2 | +5.4 | 81,867 | 70,215 | -14.2 |
| New orders...................rel. to 1922-24.- | 133 | 134 | 169 | 218 | 201 | 123 | 143 | -7.8 | +40.6 |  |  |  |
| Shipments-.-...------..--rel. to 1922-24.- | 152 | 149 | 157 | 149 | 175 | 138 | 155 | +17.4 | +12.9 |  |  |  |
| Unfilled orders, end of mo .-rel. to 1922-24.-- | 231 | 214 | 192 | 293 | 330 | 248 | 234 | +12.6 | +41.0 |  |  |  |
| New orders.................thous. of dolls | 1,144 | 1,075 | 1,305 | 1,145 |  | 1,381 | 1,401 |  |  |  |  |  |
| Shipments ....................-.thous. of dolls-- | 1,124 | 1,152 | 1,172 | 1,130 |  | 1,230 | 1,255 |  |  |  |  |  |
| Cancellations................thous. of dolls-- | 23 | 12 | 19 | 23 |  | 14 | 14 |  |  |  |  |  |
| Machines shipped --.....--....-number-- | 872 | 854 | 881 | 920 |  | 985 | 928 |  |  |  |  |  |
| Unfilled orders, end of mo..thous. of dolls.- | 975 | 997 | 1,470 | 1,456 |  | 1,726 | 1,814 |  |  |  |  |  |
| Electric hoists: <br> New orders- |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity.....--........................ | 270 | 223 | 272 | 346 | 399 | 262 | 269 | +15.3 | +48.3 | 531 | 745 | $+40.3$ |
| Value............-..............-dollars.- | 114,835 | 102,238 | 122,663 | 160,852 | 172,472 | 134, 006 | 148, 381 | +7.2 | +16.2 | 282,387 | 333, 324 | +18.0 |
| Shipments .-.-.-...........................dollars.- | 121, 445 | 139,066 | 102, 206 | 133, 842 | -166, 920 | 139, 522 | 127, 459 | +24.7 | +31.0 | 266,981 | 300, 762 | +12.7 |
| Electric overbead cranes: Shipments..............thous. of dolls | 764 | 637 | 762 |  |  | 704 | 034 |  |  |  |  | -37.3 |
| New orders.-..-.....-.-.-.-.-. - thous. of dolls.-- | 566 | 525 | 586 | ${ }_{358}^{432}$ | 519 | 888 | 694 | +45.0 | -25.2 | 1,688 1,582 | 1,027 | -44.6 |
| Unfilled orders, end mo--thous. of dolls... Electric industrial trucks and tractors: | 2, 117 | 1,975 | 1,792 | 1,735 | 1,763 | 3,971 | 3,352 | +1.6 | -47.4 |  |  |  |
| Electric industrial trucks and tractors: <br> Shipments, domestic- |  |  |  |  |  |  |  |  |  |  |  |  |
| Tractors -.........number of vehicles.- | ${ }_{81}^{11}$ | 15 | 78 | 5 98 | 15 87 | 66 | 11 | +200.0 -112 | $\underline{+36.4}$ | 17 187 | 20 | +17.6 +1.1 |
| Exports............-.-number of vehicles.-- | 17 | 19 | 11 | 98 | 18 | 17 | 7 | +100.0 | +157.1 | 24 | 27 | +12.5 |

${ }^{8}$ Revised.
$\dagger$ See p. 41 of Part II, Metals and Machinery, of the Record Book of Business Statistics.

TREND OF BUSINESS MOVEMENTS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"} \& \multicolumn{3}{|c|}{1927} \& \multicolumn{2}{|r|}{1928} \& \multicolumn{2}{|r|}{1927} \& \multicolumn{2}{|l|}{PER CENT INCREASE ( + ) OR DECREASE ( - )} \& \multicolumn{2}{|l|}{cumulative total FROM JANUARY 1 through februARY 28} \& \multirow[t]{2}{*}{Per ct.
in-
crease
( +
or de-
crease
(- \()\)
camu-
lative
1928
from
1927} \\
\hline \& October \& \[
\begin{aligned}
\& \text { Novem- } \\
\& \text { ber }
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { Decem- } \\
\& \text { ber }
\end{aligned}
\] \& January \& February \& January \& February \& Feb., 1928, from Jan., \& Feb,
1928,
from
Feb.,
1927 \& 1927 \& 1928 \& \\
\hline \multicolumn{13}{|l|}{IRON AND STEEL-Continued Machinery-Continued} \\
\hline \begin{tabular}{l}
Fire-extinguishing equipment, shipments: \\
Motor vehicles..........................number--
\end{tabular} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
108 \\
48,472
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
111 \\
43,723
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
114 \\
47,877
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
71 \\
43,175
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
92 \\
40,710
\end{array}
\]} \& \& \multirow[b]{3}{*}{\[
\begin{array}{r}
92 \\
47,302
\end{array}
\]} \& +29.6
+5.7 \& 0.0 \& \multirow[t]{2}{*}{\[
\begin{array}{r}
185 \\
94,656
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
163 \\
83,885
\end{array}
\]} \& \(-11.9\) \\
\hline Patents issued: \& \& \& \& \& \& \[
47,354
\] \& \& \& -13.9 \& \& \& -11.4 \\
\hline Total, all classes.....-...-...-.....number.- \& 3, 185 \& \multirow[b]{2}{*}{4,232} \& \multirow[b]{3}{*}{3, 170} \& \multirow{4}{*}{\[
\begin{array}{r}
3,504 \\
45 \\
51
\end{array}
\]} \& \& \multirow[b]{4}{*}{\[
\begin{array}{r}
3,029 \\
42 \\
64
\end{array}
\]} \& \& -10.5 \& -. 4 \& \multirow[t]{3}{*}{6,177
90
119} \& \multirow[t]{2}{*}{6,640
77} \& \\
\hline Agricultural implements...........number.- \& 57 \& \& \& \& \multirow[t]{3}{*}{\[
\begin{array}{r}
3,136 \\
32
\end{array}
\]} \& \& \multirow[t]{3}{*}{\[
\begin{array}{r}
3,148 \\
48 \\
55
\end{array}
\]} \& \multirow[t]{3}{*}{-28.8
+19.6} \& \(-3.4\) \& \& \& \multirow[t]{2}{*}{\[
\begin{array}{r}
+7.5 \\
-14.4 \\
-5.9
\end{array}
\]} \\
\hline Internal-combustion engines......number.- \& 73 \& \[
61
\] \& \& \& \& \& \& \& +10.9 \& \& 112 \& \\
\hline NONFERROUS METALS \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{\begin{tabular}{l}
Production: \\
Copper
\end{tabular}} \\
\hline Mines. \(\qquad\) short tons \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 68,959 \\
\& 83,551
\end{aligned}
\]} \& \multirow[t]{2}{*}{68,080
79,878} \& \multirow[t]{2}{*}{\[
\begin{gathered}
67,822 \\
85.862
\end{gathered}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
8 \\
\quad 68,469 \\
\hline 729
\end{array}
\]} \& \multirow[t]{2}{*}{67,423
81,895} \& \multirow[t]{2}{*}{76,198
80,719} \& \multirow[t]{2}{*}{69,202
80,065} \& -1.5 \& -2.6 \& \multirow[t]{2}{*}{145,400
169,784} \& \multirow[t]{2}{*}{135,892
159,324} \& \\
\hline  \& \& \& \& \& \& \& \& +5.8 \& -2.6
+2.3 \& \& \& -6.5
-6.2 \\
\hline Refined (North and South \& 124, 927 \& 118, 269 \& 128, 923 \& 122, 723 \& 124, 848 \& \multirow[t]{2}{*}{133, 110} \& 122, 673 \& \multicolumn{2}{|l|}{+1.7} \& \multirow[t]{4}{*}{\begin{tabular}{l}
255,783
276,207 144, 063 \\
81, 063
\end{tabular}} \& \& \\
\hline World production, blister.-.-...------short tons.- \& 145, 278 \& 141, 975 \& 148,961 \& 140,546 \& 145, 401 \& \& 132, 870 \& +3. 5 \& +9.8
+9.4 \& \& \multirow[t]{3}{*}{\[
\begin{array}{r}
247,571 \\
285,947 \\
138,613 \\
95,187
\end{array}
\]} \& \multirow[t]{3}{*}{\[
\begin{array}{r}
-3.2 \\
+3.5 \\
+3.8 \\
+17.4
\end{array}
\]} \\
\hline Domestic shipments, refined.....---short tons-- \& 68,619 \& 59, 264 \& 60, 862 \& 64, 824 \& 73, 789 \& 76,499 \& 67, 563 \& +13.8 \& +9.2 \& \& \& \\
\hline Exports (North and South America), end mo.- \& 41,317 \& 41,129 \& 51,322 \& 52,095 \& 43,092 \& 43, 879 \& 37, 184 \& -17.3 \& +15.9 \& \& \& \\
\hline Refined.........................-short tons.- \& \multirow[t]{2}{*}{24,
24584
.1296} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
90,874 \\
250,014 \\
.1332
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
95,298 \\
248,420 \\
.1377
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
96,476 \\
237,961 \\
.1385
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
86,932 \\
247,739 \\
.1382
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
93,982 \\
276,316
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 105,401 \\
\& 272,757
\end{aligned}
\]} \& \multirow[t]{2}{*}{+9.9} \& \multirow[t]{2}{*}{-17.5} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{.-.........-}} \& \multirow[b]{2}{*}{---.-.-.} \\
\hline  \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Wholesale price, electrolytic.....-dolls. per lb.Copper Products \& \& \& \& \& \& . 1299 \& . 1268 \& -. 2 \& +9.0 \& \& \& \\
\hline \begin{tabular}{l}
Plumbing fixtures: \\
Wholesale price, 6 pieces.............dollars.
\end{tabular} \& 104.71 \& \multirow[t]{2}{*}{104. 33} \& 99.44 \& 88. 59 \& \multirow[t]{2}{*}{98.40} \& \multirow[t]{2}{*}{105.91} \& 105. 16 \& - 2 \& \multirow[t]{2}{*}{+6.4} \& \& \& \\
\hline Wire cloth: \& \& \& \& \& \& \& \& \& \& \multicolumn{2}{|l|}{} \& \multirow[t]{3}{*}{-8.8
+4.6} \\
\hline Production -...............-thous. of sq. ft.- \& 432 \& 464 \& 492 \& 449 \& 435 \& 501 \& 468 \& -3.1 \& -7.1
+9.1 \& \multirow[t]{2}{*}{839} \& 884 \& \\
\hline Shipments.-.....----...- thous. of sq. ft-- \& \({ }_{1}^{446}\) \& \multirow[t]{3}{*}{1,161} \& - 404 \& \multirow[t]{2}{*}{1,189} \& -453 \& \multirow[t]{2}{*}{424
1,149} \& \multirow[t]{2}{*}{415
1,143} \& \multicolumn{2}{|l|}{\({ }_{+3.6}^{+6.6}+9.2\)} \& \& 878 \& \\
\hline Stocks, end of month......thous. of sq. ft-- \& 1,187 \& \& \multirow[t]{2}{*}{1,213} \& \& \multirow[t]{2}{*}{1,150
399} \& \& \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\begin{tabular}{l|l}
-3.3 \& +.6 \\
-3.6
\end{tabular}}} \& \multicolumn{2}{|l|}{\multirow[t]{3}{*}{}} \& \multirow[b]{3}{*}{------} \\
\hline New orders.....-.-.-....thous. of sq. ft -- \& 476 \& \& \& 414 \& \& 1,149 \& 1,143 \& \& \& \& \& \\
\hline Unfilled orders, end of mo_thous. of sq. ft.Make and hold orders, end \& 332 \& 292 \& 316 \& 315 \& 297 \& 286 \& 275 \& -5.7 \& +8.0 \& \& \& \\
\hline of mo.-..........------- thous. of sq. ft. \& 412 \& \multirow[t]{2}{*}{366} \& \multirow[t]{2}{*}{413} \& \multirow[t]{2}{*}{441} \& \multirow[t]{2}{*}{412} \& \multirow[t]{2}{*}{341} \& \multirow[t]{2}{*}{345} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\(-6.6+19.4\)}} \& \multicolumn{3}{|l|}{\multirow[t]{2}{*}{\(\square\)}} \\
\hline Tin \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Deliveries (consumption) ............ long tons.- \& \multirow[t]{2}{*}{} \& 5,665 \& 4,535 \& 5,415 \& 5,790 \& 6,295 \& 5,965 \& \multicolumn{2}{|l|}{\(+6.9-2.9\)} \& \multirow[t]{2}{*}{12, 260} \& \multirow[t]{2}{*}{11, 205} \& \multirow[t]{2}{*}{-8.6} \\
\hline Stocks, end of month:
World visible supply ............long tons.. \& \& \multirow[t]{2}{*}{\(\begin{array}{r}14,594 \\ 2,003 \\ \hline\end{array}\)} \& \multirow[t]{2}{*}{15,733
1,573} \& \multirow[t]{2}{*}{15,244
\(\mathbf{3} 2,518\)} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
17,645 \\
1,998
\end{array}
\]} \& \& \multirow[t]{2}{*}{14,221
2,484} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{+15.8 +24.1}} \& \& \& \\
\hline United States......................long tons.- \& \& \& \& \& \& 15,304 \& \& \& \& \& \& --.-- \\
\hline  \& \[
\begin{array}{r}
3,158 \\
7,179 \\
5,756
\end{array}
\] \& \[
\begin{aligned}
\& 4,876 \\
\& .57709 \\
\& \hline .57
\end{aligned}
\] \& \[
\begin{aligned}
\& 3,958 \\
\& .5805
\end{aligned}
\] \& 5,727
.5518 \& \[
\begin{aligned}
\& 5,992 \\
\& .5179 \\
\& .50
\end{aligned}
\] \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 7,966 \\
\& .6479
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 4,704 \\
\& .6653
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
+4.6 \\
-6.1
\end{array}
\]} \& \begin{tabular}{|}
+27.4 \\
+22.2
\end{tabular} \& 12, 670 \& 11,719 \& -7.5 \\
\hline \multicolumn{9}{|l|}{Zine} \& \& \& \& \\
\hline Retorts in operation, end of month..-number.. \& \multirow[t]{3}{*}{\[
\begin{aligned}
\& 76,067 \\
\& 50,185 \\
\& 36,223
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 76,627 \\
\& 49,217
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 77,084 \\
\& 52,347
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 72,204 \\
\& 52,414
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 72,444 \\
\& 50,042
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 88,908 \\
\& 56,898
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{aligned}
\& 85,836 \\
\& 51,341
\end{aligned}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
+.3 \\
-4.5
\end{array}
\]} \& \multirow[t]{3}{*}{\[
\begin{array}{r}
-15.6 \\
-2.5 \\
+25.4
\end{array}
\]} \& \multirow[b]{2}{*}{-108, 239} \& \multirow[b]{2}{*}{102, 456} \& \multirow{3}{*}{\(-5.3\)} \\
\hline Production--...---..............-short tons.- \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Stocks, end of month...................short tons.Ore Joplin district: \& \& 39,320 \& 40,751 \& 42,163 \& 41,317 \& 29,912 \& 32,938 \& -2.0 \& \& \& \& \\
\hline  \& \multirow[t]{2}{*}{\[
\begin{gathered}
76,430 \\
29,776 \\
.060
\end{gathered}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
49,830 \\
39,296 \\
.0575
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{gathered}
54,586 \\
43,147 \\
.0572
\end{gathered}
\]} \& \multirow[t]{2}{*}{\[
\begin{array}{r}
37,612 \\
49,905 \\
.0564
\end{array}
\]} \& \multirow[t]{3}{*}{\[
\begin{array}{r}
47,217 \\
52,398 \\
.0555
\end{array}
\]} \& \multirow[t]{2}{*}{\[
\begin{gathered}
69,835 \\
25,515 \\
.0666
\end{gathered}
\]} \& \multirow[t]{2}{*}{\[
\begin{gathered}
46,603 \\
29,202 \\
.0667
\end{gathered}
\]} \& \multirow[t]{2}{*}{+25.5
+5.0
+5.6} \& \multirow[t]{2}{*}{+1.3
+79.4} \& \multirow[t]{2}{*}{116,438} \& \multirow[t]{2}{*}{84, 829} \& -27.1 \\
\hline Stocks, mines, end of month .-.short tons.- \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{12}{|l|}{Lead} \& \\
\hline  \& \multirow[t]{2}{*}{56, 134} \& 57,703 \& 56,812 \& 54, 820 \& 55,768 \& 59,383 \& 54, 151 \& +1.7 \& +3.0 \& 113, 534 \& 110, 588 \& -2.6 \\
\hline Ore shipments: \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  \& 66, 157 \& 70,752 \& 13,003 \& 75,855 \& 72, 864 \& 64,768 \& 61, 305 \& -10.7 \& -10.5
+17.9 \& 126,073 \& \[
\begin{array}{r}
14,128 \\
148,119
\end{array}
\] \& +17.5 \\
\hline Receipts in U. S. ore .-............--short tons.. \& 53,017 \& 57,035 \& 57,027 \& 55,970 \& \& 56, 345 \& 51, 722 \& \& \& \& \& \\
\hline Stocks, U. S. and Mexico, end mo--short tons.- \& 155, 868 \& 155, 568 \& 156, 280 \& 157,417 \& \& 134, 682 \& 139, 824 \& \& \& \& \& \\
\hline Price, pig, desilverized, N. Y .-...-dolls. per lb.- \& . 0667 \& . 0626 \& . 0650 \& . 0650 \& .0633 \& . 0758 \& . 0742 \& \(-2.6\) \& \(-14.7\) \& \& \& \\
\hline Enameled Ware \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Baths: \({ }_{\text {Shipments...........................pieces.. }}\) \& 85, 163 \& 72, 424 \& 55,974 \& 70,633 \& 75, 663 \& 83, 117 \& 82,810 \& +7.1 \& -8.6 \& 165, 927 \& 146,296 \& -11.8 \\
\hline Stocks, end of month...............pieces.. \& 137, 830 \& 146, 113 \& 157, 868 \& 156, 020 \& 165, 514 \& 182, 363 \& 189, 108 \& +6.1 \& -12.5 \& \& \& \\
\hline  \& 82, 762 \& 69,356 \& 66,504 \& 78, 494 \& 83,479 \& 86, 802 \& 79,810 \& +6.4 \& +4.6 \& 166,612 \& 161,973 \& -2.8 \\
\hline Unfilled orders, end of month...... pieces.-
Lavatories: \& 33, 154 \& 28,993 \& 33, 160 \& 36, 473 \& 43,321 \& 47,343 \& 43, 104 \& +18.8 \& +. 5 \& \& \& \\
\hline  \& 98, 731 \& 77,862 \& 60,913 \& 86,946 \& 87, 383 \& 102, 986 \& 88, 832 \& +. 5 \& -1.6 \& 191, 818 \& 174,329 \& -9.1 \\
\hline  \& 188,202
95,032 \& 193,811
76,055 \& 204, 744
78,292 \& 201,891
94,242 \& 217,715
97 \& 256, 114
106,720 \& 267,550
85,880 \& +7.8
+3.4 \& -18.6
+13.4 \& 192, 600 \& 191, 649 \& -. 5 \\
\hline Sinks: \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  \& 113, 717 \& 83,780

29 \& 73,450 \& 93,739 \& ${ }^{90}, 126$ \& 99, 178 \& 99, 613 \& -3.9 \& -9.5 \& 198,791 \& 123,865 \& $-37.7$ <br>
\hline Stocks, end of month..................pieces.. \& 213,006
106,438 \& 223,265
84,031 \& 233,091
86,879 \& 232,325
97,336 \& 260,971
101,797 \& 296,158
104,926 \& 311,786
94,215 \& +12.3
+4.6 \& -16.3
+8.0 \& \& \& <br>
\hline New orders..------.-...........--pieces.- \& 106, 438 \& 84, 031 \& 86,879 \& 97,336 \& 101, 797 \& 104, 926 \& 94, 215 \& +4.6 \& +8.0 \& 199, 141 \& 199,133 \& ${ }^{0}$ <br>
\hline  \& 44,998 \& 40,441 \& 34,675 \& 42,043 \& 42,601 \& 40,465 \& 45, 630 \& +1.3 \& -6.6 \& 86,095 \& 84, 644 \& -1.7 <br>
\hline  \& 133,612

45,972 \& | 131,329 |
| :---: |
| $\mathbf{1 8 8}, 279$ | \& 140,597

38,814 \& 133,366
40,353 \& 136,524
44,945 \& 130,881
44,262 \& 139,952
43,349 \& +2.4
+11.4 \& -2.4
+3.7 \& 87,611 \& 85, 298 \& -2.6 <br>

\hline | Small ware (all except baths): |
| :--- |
| Unflled orders, end of month...... pieces. | \& 47,538 \& [36,279

$\mathbf{9 5 , 3 3 0}$ \& 104,774 \& 40,353
99,903 \& 44,945
124,840 \& 44, 262
117,617 \& 43,
118,617 \& +1.4
+25.0 \& +3.7
+5.2 \& \& \& <br>
\hline Enameled sheet-metal ware: Shipments. $\qquad$ dozen pieces. \& 322, 081 \& 287, 115 \& 307, 280 \& 319, 218 \& \& 117017
350,748 \& 372, 452 \& \& \& \& \& <br>
\hline
\end{tabular} ${ }^{3}$ Revised.

## TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  | 1928 |  | 192\% |  | PER CENT INCREASE ( + ) or DECREASE ( - ) |  | cumulative total FROM JANUARY 1 through februARY 28 |  | Per ct. <br> in. <br> crease <br> (t) <br> or de- <br> crease <br> ( -7 <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem. } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | $\begin{aligned} & \text { Feb., } \\ & \text { 1928, } \\ & \text { from, } \\ & \text { Jan, } \\ & \text { 1928 } \end{aligned}$ | Feb., 1928, from Feb., 1927 | 1927 | 1928 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Metal Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Babbitt metal, consumption: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total apparent...............-thous. of libs..- | 5,115 1,255 | 4,506 1,186 | 4,466 1,296 | 4,929 | 4,470 1,027 | 5,440 1,220 | 5,452 1,066 | -9.3 +14.9 | -18.0 -3.7 | 10,892 2,286 28,8 | 9,399 1,921 | -13.7 -16.0 |
| Sale to consumers.-...........-.thous. of libs.-- | 3,860 | 1,320 | 3,170 | 4, 034 | 3,444 | 4,220 | 4,386 | ${ }_{-14.6}^{+14.9}$ | -21.5 | 8,606 | 7,478 | -13.1 |
| Band instruments, shipments: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total $\qquad$ dollars.- | 594, 020 234,399 | 603,944 216,128 | 589,967 223,946 | 318,106 126,852 | 445, 737 169,616 | 407,776 143,893 | 474,302 160,558 | +40.1 +33.7 | -6.0 +5.6 | 882,078 304,451 | 763,843 296,468 | -13.4 -2.6 |
| Saxaphones..--.-.-.-.-.................- dollars.- | 325, 587 | 352, 960 | 340, 266 | 169,050 | 247, 489 | 240,763 | 289,347 | +46.4 | $-14.5$ | 530,110 | 416, 539 | -21.4 |
|  | 34, 034 | 34, 856 | 25, 755 | 22, 204 | 28, 632 | 23, 120 | 24, 397 | +28.9 | +17.4 | 47,517 | 50, 836 | +7.0 |
| Mers. Electrical Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Motors: <br> New orders $\qquad$ dollars.- | 740, 366 | 626,092 | 864,562 | 569, 883 |  | 692,583 | 731,426 |  |  |  |  |  |
| Billings (shipments) --..-...............-dollars-- | 834,479 | 630, 628 | 815, 830 | 638, 562 |  | 766, 011 | 671, 208 |  |  |  |  |  |
| Outlet bores and covers, shipments.-..--pieces.- | 2,577, 732 | 2, 728, 841 | 1,947, 433 | 2, 139, 038 |  | 2, 258, 668 | 2, 055, 172 |  |  |  |  |  |
| Vulcanized fiber: |  |  |  |  |  | 795 |  |  |  |  |  |  |
| Consumption. | 2,030 | 1,929 | 2,231 |  |  | 2,939 | 2, ${ }^{771}$ |  |  |  |  |  |
| Nonmetallic conduits, shipments..thous. of ft- | 8,614 | 9,017 | 6,735 | 8,085 |  | 10,488 | 8,464 |  |  |  |  |  |
|  | 156, 606 | 148, 358 | 197,462 | 184, 500 | 184,688 | 180, 048 | 206, 283 | +. 1 | -10.5 |  |  |  |
| Delinquent firms...-...-...............-number-- | 1,365 | 1,286 | 1, 381 | 1,361 | 1, 407 | 1,397 | 1,505 | +3.4 | -6.5 |  |  |  |
| AUTOMOBILES |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: <br> Tnited States- |  |  |  |  |  |  |  |  |  |  |  |  |
| Total.....-............number of cars.- | 219, 712 | 134,411 | 133, 551 | 231, 647 | 323, 368 | 238, 927 | 304, 763 | +39.6 | +6. 1 | 543,690 | 555,015 | +2.1 |
| Passenger cars..........number of cars.- | 183, 042 | 109, 758 | 106, 079 | 205, 543 | 290, 830 | 199, 650 | 264, 171 | +41.5 | +10.1 | 463, 821 | 496, 373 | +7.0 |
| Trucks..-----.........number of cars.- | 36,670 | 24, 653 | 27,472 | 26, 104 | 32, 538 | 39, 277 | 40,592 | +24.6 | -19.8 | 79, 869 | 58,642 | -26.6 |
|  | 7,791 | 6,617 | 3,435 | 8. 463 | 12,504 | 15,376 | 18,655 | +47.7 | -33.0 | 34,031 | 20,967 | -38.4 |
|  | 6,236 | 5,173 | 2,277 | 6,705 | 10,315 | 11,745 | 14,826 | +53.8 | $-30.4$ | 26,571 | 17,020 | -35.9 |
| Trucks ....................number of cars..- | 1,555 | 1, 444 | 1,158 | 1,758 | 2,189 | 3,631 | 3, 829 | +24.5 | $-42.8$ | 7,460 | 3,947 | -47. 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total_-........-.......number of cars.- | 27,718 | 31,405 |  | 32,060 | 33, 952 | 29,835 | 31,524 | +5.9 | +7.7 | 61,359 | 66, 012 | +7.6 |
| Passenger cars.-.-.-.-.-. ${ }^{\text {number }}$ of cars.- | 19,366 | 21, 396 | 16,473 | 20,476 | 25, 114 | 22,122 | 21,355 | +22.7 | +17.6 | 43,477 | 45,590 | +4.9 |
| Trucks............-.-.-. | 8, 352 | 10,009 | 7,136 | 11, 584 | 8,838 | 7,713 | 10,169 | $-23.7$ | -13.1 | 17,882 | 20, 422 | +14.2 |
| From Canada- <br> Total number of cars. | 3, 507 | 3,876 |  | 3, 502 |  |  |  | +17.4 | -22.6 |  | 7,613 | -40.4 |
| Passenger cars..........-number of cars.- | 2,380 | 2,403 | 1,857 | 1, 838 | 2,628 | 5,296 | 3,597 | + +13.0 | $-26.9$ | 8,893 | 4,466 | -49.8 |
| Trucks --..-.-...-...- | 1,127 | 1, 473 | ${ }^{1} 336$ | 1,664 | 1,483 | 2, 170 | 1,711 | -10.9 | $-13.3$ | 3,881 | 3,147 | $-18.9$ |
| Foreign assemblies----------number of cars.- | 12, 988 | 12,481 | 12,518 | ${ }^{\text {a }} 12,114$ | 12,044 | 14,943 | 16,154 | $-.6$ | -25.4 | 31,097 | 24, 158 | -22.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments (General Motors Co.): |  | 148,071 | 63, 3 | 64, 403 |  | 85,607 | 149, 437 |  |  |  |  |  |
| To dealers...............-.-number of cars.- | 128,459 | 57,621 | 60, 071 | 125, 181 | 169,232 | 99,367 | 124, 426 | +35.2 | $+36.0$ | 223,793 | 294, 413 | +31.6 |
| To users.-.................number of cars.- | 153,833 | 80, 539 | 53, 760 | 107, 278 | 132, 029 | 81, 010 | 102, 025 | +23.1 | +29.4 | 183, 035 | 239, 307 | +30.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Original equipment._rel. to Jan., 1925.- | 124 | 99 | 111 | 163 | 187 | 132 | 158 | +14.7 | +18.4 |  |  |  |
| Replacement parts...rel. to Jan., 1925.- | 174 | 132 | 126 | 137 | 128 | 107 | 100 | -6.6 | +28.0 |  |  |  |
| Accessories...-...-...-rel. to Jan., 1925.-- | 103 | 75 | 61 | 79 | 91 | 79 | 93 | +15.2 | -2.2 |  |  |  |
| Service parts..........-rel. to Jan., 1925.- | 120 | 143 | 104 | 142 | 158 | 140 | 155 | +11.3 | +1.9 |  |  |  |
| Exports--..................thous. of dolls.- | 6,600 | 7,501 | 7,505 | 7. 489 | 9, 570 | 7,411 | 7, 991 | +27.8 + | +19.8 +1.0 | 15,402 | 17,059 3,618 | +10.8 +11.6 |
| Rim production.-...............thous. of rims.. | 1,385 | 839 | 1, 134 | 1, 812 | 1,806 | 1,489 | 1,753 | 3 | $+3.0$ | 3,242 | 3, 618 | +11.6 |
| FUELS <br> Coal and Coke |  |  |  |  |  |  |  |  |  |  |  |  |
| Bituminous: Coal and CokeProduction- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States......thous. of short tons.. $\qquad$ thous. of short tons.. | 44,000 1,477 | 40,628 | 41,277 1,867 | 44, 208 | 41,351 | 56,882 | 52,904 | -6.5 | -21.8 | 109, 786 | 85, 559 | -22.1 |
| Exports.-....-.--........thous. of long tons.-- | 1,252 | 1,121 | 1,832 | 850 | 796 | 1, 1,720 | 1,352 | -6.4 | -41.1 | 3, 072 | 1,646 | -46.4 |
| Consumption- <br> By vessels. thous. of long tons | 351 | 363 | 271 | 319 | 267 | 376 | 304 | -16.3 |  |  | 586 | -13.8 |
| By electric power |  | 363 | 27 | 319 | 207 | 376 | 304 | $-16.3$ | $-12.2$ | 680 |  |  |
| plants..-.-.-.-.thous. of short tons.- | 3,663 8,418 | 3,560 | 3,719 | 3, 678 |  | 3,804 | 3, 336 |  |  |  |  |  |
| By railroads........thous. of short tons-. | 8,418 | 7,847 | 8,198 |  |  | 9,186 | 8, 074 |  |  |  |  |  |
| United States.....thous. of short tons.- | 6,006 | 5,626 | 5,834 | 6, 168 |  | 6,557 | 6, 124 |  |  |  |  |  |
| Canada...........thous. of short tons.- | 223 | 229 | 261 | 257 |  | 251 | 226 |  |  |  |  |  |
| Prices- |  |  |  |  |  |  |  |  |  |  |  |  |
| Mine aver. (spot) -dolls. per short ton-- | 1.95 | 1.90 | 1.90 | 1.84 | 1.86 | 2. 30 | 2.11 | +1.1 | -11.8 |  |  |  |
| Wholesale comp--dolls. per short ton-- | 4.199 | 4. 160 | 4. 144 | 4.093 | 4.069 | 4.450 | 4. 338 | $-.6$ | $-6.2$ |  |  |  |
| Anthracite: <br> Retail, composite_dolls. per short ton.- | 9.33 | 9.32 | 8.31 | 9.21 | 9.28 | 9.97 | 9.86 | +. 8 | -5.9 |  |  |  |
| Production............thous. of short tons.- | 7, 404 | 6,902 | 6,032 | 5,690 | 5,582 | 6,561 | 5,852 | -1.9 | -4.6 | 12,413 |  | -9.2 |
| Exports................-.thous. of long tons.-- | 310 | ${ }^{277}$ | ${ }^{626}$ | 5,233 | - 224 | 6, 220 | 185 | $-3.9$ | +21.1 | 12, 405 | ${ }_{457}$ | +12.8 |
| Prices- |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale, comp--.dolls. per long ton.- | 13.389 | 13.389 | 13.389 | 13.130 | 13.232 | 13.779 | 13.724 | +. 8 | -3.6 |  |  |  |
| Coke: Retail, composite..dolls. per short ton.- | 15. 07 | 15.07 | 15.08 | 15.08 | 15.09 | 15.42 | 15. 44 | +. 1 | $-2.3$ |  |  |  |
| Production, U. S.- |  |  |  |  |  |  |  |  |  |  |  |  |
| Beehive.----..----thous. of short tons.- | 419 | 379 | 377 | 376 | 390 | 787 | 754 | $+3.7$ | $-48.3$ | 1,541 | 766 | $-50.3$ |
| By-product......-thous. of short tons-- | 3, 720 | 3,500 | 3, 646 | 3,880 | 3,708 | 3,700 | 3,435 | -4.4 | +7.9 | 7,135 | 7,588 | $+6.3$ |
| Production, Canada . thous. of short tons-- | 152 | 157 | 177 | 179 |  | 177 | 158 |  |  |  |  | +19.5 |
| Price, furnace, --------thous. of long tons.-- |  |  |  |  |  | 59 | 59 | $+16.9$ | +28.8 | 118 | 141 | +19.5 |
| Connellsville........-dolls per short ton.. | 2.91 | 2.83 | 2.79 | 2.78 | 2.71 | 3.88 | 3.70 | -2.5 | -26.8 |  |  |  | Revised.

TREND OF BUSINESS MOVEMENTS-Continued


[^5]${ }^{\text {© Quarter ended Sept. 30, }} 1927$.

TREND OF BUSINESS MOVEMENTS--Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1827 |  |  | 1923 |  | 1927 |  | per cent inCREASE ( + ) or decrease (-) |  | cumulative total FROM JANUARY 1 throvah februARY 28 |  | Per ct. <br> in- <br> crease <br> ( + <br> or de- <br> crease <br> $(--$ <br> cumu- <br> lative <br> 1028 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb, 1928,' from, Jan., 1928 | Feb., 1928, from Feb., 1927 | 1927 | 1928 |  |
| RUBBER - Continued Tires and Tubes-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Inner tubes: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production........t.-......... thousands-- | 3,809 10,187 | 3,593 10,216 | 3,742 10,297 | 4,086 9,760 |  | 4,007 11,704 | $\begin{array}{r} 3,724 \\ 12,595 \end{array}$ |  |  |  |  |  |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,685 93 | 3,463 88 | ${ }^{3,413}$ | 4,469 90 |  | 4,428 89 | 3,763 80 |  |  |  |  |  |
| Solid and cushion: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{r}34 \\ 162 \\ \hline\end{array}$ | 32 161 | 33 161 | 37 164 |  | 44 166 | 46 163 |  |  |  |  |  |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic <br> Export $\qquad$ $\qquad$ thousands.- | 40 4 | $\stackrel{32}{3}$ | 28 4 | ${ }_{3}^{31}$ |  | 36 7 | $\stackrel{40}{8}$ |  |  |  |  |  |
| Other Rubber Products |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & 8 \\ & 89,449 \\ & 017,812 \end{aligned}$ |  | $\begin{aligned} & 646,530 \\ & 819,567 \end{aligned}$ |  |  | $\begin{aligned} & 7 \\ & 7 \\ & 7 \\ & \hline 18,160 \end{aligned}$ |  |  |  | 167,942 | 172, 723 | +2.8 |
| Scrap rubber (quarterly): <br> Stocks at reclaimers-...............ong tons.- Consumption by reclaimers.....long tons.- | 355, 547 <br> ${ }^{8} 50,495$ |  | $\begin{aligned} & \mathbf{6} 62,016 \\ & 861,331 \end{aligned}$ |  |  | 7 65, 969 <br> 758,410 |  |  |  | , 297 | 222, 180 | 2.7 |
| Rubber-proofed fabrics: <br> Production- |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | ${ }^{3} 4,634$ | ${ }^{3} 3,791$ | ${ }^{3} 2,518$ |  |  | 1,916 | 2,084 |  |  |  |  |  |
| Auto fabrics..............thous. of yds.. | 819 |  | 621 |  |  | 718 | 718 |  |  |  |  |  |
| Raincoat fabries..........thous. of yds.- | 3,179 | 2,489 | 1,303 |  |  | 784 | 881 |  |  |  |  |  |
| All other-..------.-.-. - thous. of yds.- | 636 | ${ }_{7}^{611}$ | 594 |  |  | 414 | 485 |  |  |  |  |  |
| New orders, auto fabrics.-.-.thous. of yds-- | 827 | 720 | 710 |  |  | 957 | 1, 005 |  |  |  |  |  |
| Production, relative to capacity ..-per cent.- | 31.2 | 26.3 | 23.6 |  |  | 35.7 | 51.0 |  |  |  |  |  |
| Rubber heels: <br> Production. $\qquad$ thous. of pairs.- <br> Shipments- | 21,151 | 20,556 | 19,203 | 17,682 |  | 13,660 | 12,733 |  |  |  |  |  |
| Shipments- ${ }_{\text {To }}$ shoe manufacturers _thous. of pairs.. | 10,546 | 10,245 | 8,384 | 10, 786 |  | 6, 685 | 6, 652 |  |  |  |  |  |
| To repair trade.......- thous. of pairs.- | 9,305 | 7,129 | 6,009 | 6, 314 |  | 4,013 | 4,062 |  |  |  |  |  |
| For export ....-.......thous. of pairs.. | ${ }_{713}$ | 1,415 | 1,087 | 793 |  | 793 | 1,113 |  |  |  |  |  |
| Stocks, end of month.....--thous. of pairs.. | 39,723 | 41,727 | 42, 802 | 43,796 |  | 46,355 | 48,010 |  |  |  |  |  |
|  | 3,697 | 3,347 | 3,255 | 3,431 |  | 1,475 | 880 |  |  |  |  |  |
| Shipments- <br> To shoe manufacturers.thous. of pairs.- | 2,169 | 2, 520 | 2, 498 | 2,243 |  | 749 | 621 |  |  |  |  |  |
| To repair trade...-...-. thous. of pairs.- | 1,096 | 976 | 974 | 916 |  | 152 | 132 |  |  |  |  |  |
| For export .-.....-.....-thous. of pairs.. |  | 142 | 129 | 675 |  | 216 | 18 |  |  |  |  |  |
| Stocks, end of month .......thous. of pairs.- | 3,899 | 3,872 | 3,257 | 3, 148 |  | 3,247 | 3,309 |  |  |  |  |  |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| Belting...................-.-thous. of dolls.- | 1,368 | 1,175 | 1,557 | 1,388 |  | 1,263 | 1,370 |  |  |  |  |  |
| Hose...-.-.-.-.-.....------thous. of dolls.- | 1,837 | 1,840 | 2, 190 | 2,257 |  | 2,351 | 2, 447 |  |  |  |  |  |
| All other-.--.-.-.-.-.-.-.- thous. of dolls.- | 2,039 | ${ }^{3} 1,925$ | 2, 151 | 1,984 |  | 1,713 | 1,861 |  |  |  |  |  |
| HIDES AND LEATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| Hides |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports: ${ }_{\text {Total }}$ hides and skins........thous. of lbs.. | 36,356 | 37,328 | 38, 151 | 36,409 | 33, 421 | 26, 110 | 24, 553 | -8.2 | +36.1 | 50, 663 | 69, 830 |  |
| Calfskins ........-...-.......-.thous. of lbs.. | 3,699 | 3,717 | 3,177 | 3,410 | 2,861 | 2, 296 | 2,963 | -16.1 | -3.4 | 5,259 | 6, 271 | +19.2 |
|  | 21, 561 | 20,634 | 23,391 | 18,856 | 16,269 | 12,357 | 10, 534 | -13.7 | +54.4 | 22, 891 | 35, 125 | +53.4 |
| Goatskins---...............--thous. of libs-- | 5,700 | 6,585 | 5, 326 | 5,448 |  | 5,791 | 6, 055 | +36.8 |  | 11,846 | 12,901 |  |
| Stocks, end of month: <br> Total hides and skins $\qquad$ thous. of lbs.. | 3,195 | 4,676 | 3,740 | 5,117 | 4,276 | 3,763 | 3, 763 | -16.4 | $+13.6$ | 7,526 | 9,393 | +24.8 |
|  | 248, 187 |  |  |  |  |  |  |  |  |  |  |  |
| Cattle hides .-......-.-....-.- thous. of libs.. | 200, 220 | 203, 146 | 198, 623 | 204, 224 |  | 210, 528 | 195, 481 |  |  |  |  |  |
| Calf and kip skins.-.......-.--thous. of libs.. | 27,942 | 26, 973 | 26, 803 | 23, 825 |  | 32, 368 | 31,897 |  |  |  |  |  |
| Prices: | 20,025 | 19,554 | 16, 874 | 16, 193 |  | 17,318 | 16,945 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Green salted, packers' heavy native steers. | . 233 | . 242 | . 250 | . 261 | . 248 | . 155 | . 145 | -5.0 | +71.0 |  |  |  |
| Caliskins, country No. 1.....dolls. per lb.spected slaughter of livestock: | . 218 | . 228 | . 250 | . 300 | . 291 | . 169 | . 158 | -3.0 | +84.2 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cattle...-.-.-.-.-...-thous. of animals..- | 895 | 881 | 761 | 711 | 666 | 786 | 700 | -6.7 | -4.9 | 1,486 | 1,377 | -7.3 |
| Calves....-.-...-.-.thous. of animals.- | 413 | 411 | 376 | 383 | 374 | 397 | 377 | -2.3 | -. 8 | 774 | 757 | -2.2 |
| Swine-............-.-.-thous. of animals.- | 2,969 | 3,688 | 4,869 | 5,479 | 5,780 | ${ }_{4}^{4} 514$ | 3,395 | +5.5 | +70.3 | 7,909 | 11, 259 | +42.4 |
| Canada --.............thous. of animals.- | 1,194 | 1,070 | 1,094 | 1,151 | 1,048 | 1,115 | 1,006 | -8.9 | +4.2 | 2,121 | 2,199 | +3.7 |
|  | 117, 252 | 132,344 | 79, 399 | 66, 128 | 61,041 | 69,456 | 60,098 | -7.7 | +1.6 | 129,554 | 127, 169 | -1.8 |
| Swine..........-.......-no. of animals.. | 208, 308 | 248, 367 | 253, 643 | 271, 156 | 247,966 | 255, 469 | 219, 752 | -8.6 | +12.8 | 475, 221 | 519, 122 | +9.2 |
| Sheep.......................... of animals.- | 137, 970 | 132, 617 | 42,951 | 26,090 | 18,482 | 29,923 | 20,791 | -29.2 | -11.1 | 50,714 | 44, 572 | -12.1 |
| Production: Leather |  |  |  |  |  |  |  |  |  |  |  |  |
| Prode leatber-thous. of backs, bends, sides.. | 1,325 | 1,246 | 1,243 | 31,223 | 1,245 | 1,170 | 1,221 | +1.8 | +2.0 | 2,391 | 2,468 | +3.2 |
| Finished sole and belting ---thous. of lbs..- | 24,230 | 22,704 | 23, 034 | 23,095 | 1,245 | 23,235 | 23,944 |  |  |  |  |  |
| Finished upper -...-.----thous.o. of sq. ft-- | 70, 081 | 66, 056 | ${ }^{79}$, 143 | 71, 415 |  | 71, 974 | 68, 506 |  |  |  |  |  |
| Oak and union harness .......stuffed sides.- | 90,707 21 21 | 93,892 20,124 | 91,457 20,057 | 79,438 19,931 | 85,564 20 2025 | 63,957 19 1981 | 63,724 20,417 | $+7.7$ | +34.3 | $\begin{array}{r}127,681 \\ 40 \\ \hline 108\end{array}$ | 165,002 40,158 | +20.2 |
|  | 180, 301 | 172, ${ }^{20,124}$ | 20,057 150,168 | 19,931 119,896 | 20,225 79,277 | 19, 14812 | 20,417 126,087 | +1.5 -33.9 | $-\overline{-7.1}$ | 40, 198 |  |  |
| Stocks in process of tanning: Sole and belting...........thous. of lbs. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{r} 79,600 \\ 147,790 \end{array}$ | $\begin{array}{r} 79,669 \\ 148,978 \end{array}$ | $\begin{array}{r} 82,065 \\ 148,121 \end{array}$ | $\begin{array}{r} 85,396 \\ 149,952 \end{array}$ |  | $\begin{array}{r} 85,718 \\ 158,946 \end{array}$ | $\begin{array}{r} 89,060 \\ 151,364 \end{array}$ |  |  |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"'} \& \multicolumn{3}{|c|}{1827} \& \multicolumn{2}{|r|}{1028} \& \multicolumn{2}{|c|}{1927} \& \multicolumn{2}{|l|}{per cent increase ( + ) or decrease ( - )} \& \multicolumn{2}{|l|}{cumulative total from january 1 through februARY 28} \& \multirow[t]{2}{*}{\begin{tabular}{c} 
Per ct. \\
in- \\
crease \\
\((+)\) \\
or de- \\
crease \\
\((-)\) \\
cumu \\
lative \\
1928 \\
from \\
1927 \\
\hline
\end{tabular}} \\
\hline \& October \& Novem-
ber \& \[
\begin{aligned}
\& \text { Decem- } \\
\& \text { ber }
\end{aligned}
\] \& January \& February \& January \& February \& Feb,
1928,
from,
Jan,
1928 \& Feb,
1928,
from,
Feb,
1927 \& 1927 \& 1928 \& \\
\hline \multicolumn{13}{|l|}{\begin{tabular}{l}
HIDES AND LEATHER-Continued \\
Leather-Continued
\end{tabular}} \\
\hline \begin{tabular}{l}
Stocks, end of month: \\
Sole and belting. \(\qquad\) thous. of lbs.. \\
Upper. \(\qquad\) thous. of sq. ft.-
\end{tabular} \& 60,811
244,268 \& 59,163
250,364 \& 57,017
247,409 \& 54,828
245,931 \& \& 67,806
272,897 \& \[
\begin{array}{r}
66,340 \\
274,197
\end{array}
\] \& \& \& \& \& \\
\hline Exports: \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  Upper- \& 800 \& 719 \& 924 \& 1,265 \& 1,076 \& 712 \& 1,039 \& -14.9 \& +3.6 \& 1,751 \& 2,341 \& +33.7 \\
\hline Total........---.-..--thous. of sq. ft -- \& 12,177 \& 16,530 \& 14, 488 \& 15, 532 \& 15,567 \& 12,663 \& 11,636 \& +. 2 \& +33.8 \& 24, 299 \& 31,099 \& +28.0 \\
\hline Cattle and calf.......-thous. of sq. ft ---
Patent.-....-.-. \& 7,634 \& 11,093
4,742 \& 9,975
3
3,715 \& 10,614
4,103 \& 10,750
3,836 \& 8,875
3,144 \& 8,882
\(\mathbf{2 , 2 5 7}\) \& \(\begin{array}{r}+1.3 \\ \hline 6.5 \\ \hline\end{array}\) \& +21.0
+70.0 \& 17,757 \& 21,
7,94

1, \& +20.3
+47.0 <br>

\hline \multirow[t]{2}{*}{| Prices: |
| :--- |
| Sole, oak, scoured backs, heavy, Boston-,..............dolls. per lb.- |} \& 884 \& ${ }^{495}$ \& , 798 \& , 815 \& ${ }_{981}$ \& 644 \& 497 \& +20.4 \& +97.4 \& 1,141 \& I',796 \& +57.4 <br>

\hline \& . 55 \& .55
.51 \& .
.59
.54 \& .59
.54 \& . 65 \& .43
.45 \& . 43 \& +10.2
+11.1 \& +51.2
+33.3 \& \& \& <br>

\hline | Leather Products |
| :--- |
| Shoes: | \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline Production_------.-.....--thous. of pairs \& 32,267 \& 25, 973 \& ${ }^{3} 23,525$ \& 25, 723 \& \& 24, 993 \& 27, 292 \& \& \& \& \& <br>
\hline Exports $\qquad$ thous. of pairs.Wholesale prices- \& 376 \& 433 \& 381 \& 388 \& 303 \& 491 \& 397 \& $-20.9$ \& $-23.7$ \& 888 \& $691^{-}$ \& -22.2 <br>
\hline Men's black calf blucher, Mass_........dolls. per pair. \& 6. 50 \& 6.50 \& 6. 59 \& 6.75 \& 6.75 \& 6.40 \& 6.40 \& 0 \& +5.5 \& \& \& <br>
\hline Men's dress welt, tan calf, St Louis dolls, per pair \& 5.00 \& 5.00 \& 5.00 \& 5.00 \& 5.00 \& 4.85 \& 4.85 \& 0 \& +3.1 \& \& \& <br>
\hline Women's black kid, dress welt, lace, oxford.....-dolls. per pair.- \& 4.00 \& 4.00 \& 4.00 \& 4.03 \& 4.15 \& 4.00 \& 4.00 \& +3.0 \& +3.1
+3.8 \& \& \& <br>
\hline Gloves: \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Production.............thous. of skins.- \& 987 \& 918 \& 858 \& 777 \& \& 727 \& 808 \& \& \& \& \& <br>
\hline Stocks (tanned) - \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline In process.-....---thous. of thins.- \& 1,467 \& 1,434
2,481 \& $\underset{2,611}{1,150}$ \& $\xrightarrow{1,140}$ \& \& 1,913
2,672 \& 1, 8581 \& \& \& \& \& <br>
\hline Finished...........-thous. of skins.-
Gloves, cut-- \& 2,457 \& 2,481 \& 2, 611 \& 2,767 \& \& 2, 672 \& 2,761 \& \& \& \& \& <br>
\hline Total....------.---...--dozen pairs.. \& 244,090 \& 225, 779 \& 182, 810 \& 177, 884 \& \& 196, 270 \& 197, 987 \& \& \& \& \& <br>
\hline Dress and street-
Imported leather . . . . dozen pairs.- \& 59,601 \& 50,532 \& 41, 150 \& 37, 738 \& \& 50,917 \& 58,681 \& \& \& \& \& <br>
\hline Domestic leather . . . . dozen pairs.- \& 36, 537 \& 33,635 \& 22, 430 \& 24, 650 \& \& 27,736 \& 31,348 \& \& \& \& \& <br>
\hline Work gloves................dozen pairs..- \& 147, 952 \& 141, 612 \& 119, 230 \& 115, 496 \& \& 117,617 \& 107,958 \& \& \& \& \& <br>
\hline PAPER AND PRINTING \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Mechanical. Wood Pulp \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Mechanical
Production....................short tons.- \& 121, 051 \& 137, 245 \& 133, 788 \& 141, 137 \& 131,025 \& 146, 077 \& 125, 740 \& -6. 5 \& +4.9 \& \& \& +0.5 <br>
\hline Consumption and shipments..-short tons.- \& 130,465 \& 143, 220 \& 135,632 \& 139,711 \& 135, 975 \& 163, 466 \& 128, 886 \& $-2.7$ \& +5.5 \& 292, 352 \& 275,686 \& $-5.7$ <br>
\hline Stocks, end of month...........short tons.- \& 147, 160 \& 158, 717 \& 156, 872 \& 158,888 \& 154, 818 \& 183, 011 \& 180, 100 \& -2. 5 \& -14.0 \& \& \& <br>
\hline Chemical: \& 21, 190 \& 28, 308 \& 24,976 \& 21,082 \& 21, 151 \& 18,378 \& 12,723 \& +. 3 \& +66.2 \& 31, 101 \& 42, 233 \& +35.8 <br>
\hline Production-...-.-..........-. short tons.- \& 213, 472 \& 214, 936 \& 210, 388 \& \& \& 229,580 \& 206, 646 \& +0.3 \& +1. 5 \& 436, 226 \& 418,828 \& -4.0 <br>
\hline Consumption and shipments... short tons.. \& 213, 524 \& 213, 772 \& 207, 064 \& \& \& 229, 382 \& 204, 248 \& -0.8 \& +2.0 \& 433, 630 \& 418,408 \& -3.5 <br>
\hline Stocks, end of month.........-short tons-- \& 38,234 \& 41,552 \& 45, 198 \& \& \& 38,730
15354 \& 39,950 \& ${ }_{-16}^{+5}$ \& +17.8 \& \& \& <br>
\hline  \& 133,170
$\mathbf{2} 53$ \& 142,736
2.53 \& 152,764
2.53 \& 156,164

2.53 \& $$
\begin{array}{r}
130,152 \\
2.53
\end{array}
$$ \& 153,584

$\mathbf{2 . 7 5}$ \& 89,662
2.75 \& ${ }_{-16.7}^{0}$ \& +45.2
-8.0 \& 243, 246 \& 286, 316 \& $+17.7$ <br>
\hline Newsprint Paper \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline \multirow[t]{3}{*}{| Production: |
| :--- |
| United States, total $\qquad$ short tons. Ratio to capacity per cent |
| Canada $\qquad$ $\qquad$ short tons.- |} \& 113, 126 \& 117, 166 \& 119,312 \& \& 112, 302 \& 135, 395 \& 119,953 \& -6.0 \& -6.4 \& 255, 348 \& 231,827 \& -9.2 <br>

\hline \& \& \& \& 10, 84 \& \& \& \& \& \& \& \& <br>
\hline \& 191, 171 \& 190,293 \& 181,600 \& 186, 721 \& 189, 82 \& 161,724 \& 151,986 \& +1.7 \& +24.9 \& 313, 710 \& -376-543 \& +20.0
+3.3 <br>
\hline  Shipments: \& 184,805 \& 185, 202 \& 182, 027 \& 172, 952 \& 162, 573 \& 168, 241 \& 156, 621 \& $-6.0$ \& +3.8 \& 324, 862 \& 335, 525 \& +3.3 <br>

\hline \multirow[t]{2}{*}{| United $\qquad$ short tons. |
| :--- |
| Canada $\qquad$ short tons. |} \& 116, 885 \& 116,468 \& 123,883 \& 114, 211 \& 109, 666 \& 130, 973 \& 117, 636 \& -4.0 \& ${ }^{-6.8}$ \& \& \& <br>

\hline \& 188, 769 \& 187,766 \& 181, 439 \& 186, 829 \& 188, 163 \& 158, 866 \& 146, 365 \& +. 7 \& +28.6 \& 248, 609 \& 223, 877 \& -9.9 <br>
\hline Imports-...-..........................-short tons.- \& 173, 540 \& 187, 796 \& 180,467 \& 177, 808 \& 172,635 \& 166, 102 \& 134, 209 \& -2.9 \& +28.6 \& 305, 231 \& 374,992 \& +22.9 <br>
\hline Exports: ${ }_{\text {United }}$ States \& [ 739 \& \& -535 \& 1,758
157,466 \& [ 539 \& 14,360 \& 874
141 \& -69.3 \& -38.3 \& 300, 311 \& 350,443 \& +16.7
+2.8 <br>

\hline | Stocks, end of month: |
| :--- |
| At mills- | \& 159, 284 \& 179, 969 \& 169, 202 \& 157, 466 \& 183, 414 \& 142, 329 \& 141, 199 \& +16.5 \& +29.8 \& \[

$$
\begin{array}{r}
2,234 \\
283,528
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
2,297 \\
340,880
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
+2.8 \\
+20.2
\end{array}
$$
\] <br>

\hline | At mills- |
| :--- |
| short tons | \& 27,939 \& 28,543 \& 20,877 \& 25, 905 \& 28,499 \& 15,968 \& 18,426 \& +10.0 \& +54.7 \& \& \& <br>

\hline Canada................-...-short tons.- \& 35,774 \& 38, 074 \& 38, 117 \& 37,731 \& 39, 145 \& 17,255 \& 22,769 \& $+3.7$ \& +71.9 \& \& \& <br>
\hline At publishers.-.--.-.-.-------short tons-- \& 214, 872 \& 214, ${ }^{46} \mathbf{6 3 9}$ \& 218,177
46,708 \& 207,449
46,522 \& 215, 118 \& 232, 944 \& 224, ${ }^{48} \mathbf{4 8}$ \& +3.7
+3.6 \& -4. 2 \& \& \& <br>
\hline  \& 45,789
3.25 \& 40,176
3.25 \& 46,708
3.25 \& 46,
$\mathbf{3 2 5}$ \& 48,212

3.25 \& | 43, |
| :--- |
| 3 |
| 3.25 | \& $\stackrel{48}{3} \stackrel{4}{3.25}$ \& ${ }^{+3.6}$ \& $\stackrel{-1}{0}$ \& \& \& <br>

\hline Printing \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Book publication: \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline American manufacture_.........no. of titles.Imported no. of titles.- \& 981
143 \& 738
102 \& 720
102 \& 118 \& \& 722 \& 660
113 \& \& \& \& \& <br>
\hline Sales books: \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline  \& 13,851
12,898 \& 12, 1208 \& 10,671 \& 12,329 \& 12,332 \& 12,919
$\mathbf{1 1 , 1 7 8}$ \& 11, ${ }^{13} 197$ \& -1.5 \& +6.0
+4.7 \& 24, 275 \& 24,6619 \& +5.4
+5.6 <br>
\hline Printing activity ..........-ighted index number.- \& 105 \& \& \& 107 \& \& 104 \& 108 \& \& \& \& \& <br>
\hline Cash checks, shipments......thous. of checks.. \& 71, 625 \& 82,093 \& 70,413 \& 43, 173 \& 65,865 \& 73,841 \& 77, 268 \& +52.6 \& -14.8 \& 151, 109 \& 109,038 \& 27.8 <br>
\hline
\end{tabular}

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24, to 138 of the February, 1928, "Survey"' | 1927 |  |  | 1928 |  | 192\% |  | per cent increase ( + ) or decrease ( - ) |  | cumulative total from jandary 1 through februARY 28 |  | Per ct. <br> in- <br> crease <br> ( + ) <br> or de- <br> cease <br> ( -9 <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | Novern- ber | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb. 1928, from Jan. | Feb., 1928, from Feb., 1927 | 192\% | 1028 |  |
| PAPER AND PRINTING-Continued <br> Box Board |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 8,902 | 8,275 828 | 7,444 | 7,800 $3,78.0$ | 8,076 80.8 | 6,899 | 7,583 | $+3.5$ | +6.5 +2.3 | 14, 582 | 15,876 | +8.9 |
|  | 226, 141 | 212,319 | 186,920 | ${ }^{3} 203,146$ | 210, 305 | 173, 629 | 189,273 | +3.6 | +11.1 | 362,902 | 413, 451 | +13.9 |
| New orders.............................--short tons.- | 221,548 | 183,576 | 178, 224 | ${ }^{1} 203,630$ | 215, 259 | 194,285 | 183, 861 | +5.7 | +17.1 | 378, 146 | 418, 889 | +10.8 |
| Unfilled orders, end of month.....-short tons.- | 105, 600 | 76,471 | 74, 430 | ${ }^{8} 82,446$ | 86, 741 | 105, 669 | 102, 005 | +5.2 | -15.0 |  |  |  |
| Consumption of waste paper.....--short tons.- | 220, 974 | 202, 646 | 177, 329 | ${ }^{3} \mathrm{~s}$ 188, 521 | 193, 057 | 163, 337 | 182, 322 | +2.4 | +5.9 | 345, 659 | 381, 578 | +10.4 |
| Shipments --....-.-.-.-.--------short tons.-- | 228, 222 | 212, 375 | 181, 400 | ${ }^{3} 196,275$ | 210, 053 | 175,528 | 189,032 | $+7.0$ | +11. 1 | 364, 560 | 406, 328 | +11.5 |
| Stocks, end of month.-.-.-....---short tons..- | 41, 863 | 41,317 | 42,610 | 3 49, 172 | 49, 472 | 53, 562 | 53,327 | $+.6$ | -7.2 |  |  |  |
| On hand...........................tons.. | $\begin{array}{r} 128,443 \\ 65,008 \end{array}$ | $\begin{gathered} 133,184 \\ 52,161 \end{gathered}$ | 145,549 34,512 | $\begin{array}{r} 8157,185 \\ 62,791 \end{array}$ | 142,713 61,078 | 163,023 38,062 | 158,222 40,602 | -9.2 -2.7 | $\begin{array}{r} -9.8 \\ +50.4 \end{array}$ |  |  |  |
| Other Paper |  |  |  |  |  |  |  |  |  |  |  |  |
| Binders' board, production.........short tons.. | 2, 537 | 2,400 | 1,940 | 2, 547 | 4,382 | 2,306 | 2,730 | +72.0 | +60.5 | 5,036 | 6,929 | +37.6 |
| Book paper: <br> Production $\qquad$ short tons | 109, 391 | 111, 579 | 110, 463 | 121, 509 | 123, 829 | 119,965 | 111,569 | +2.0 | +11.1 | 231, 534 | 245, 448 | +6.0 |
| Ratio to capacity | 83 | 85 | 83 |  | -93 |  |  | +3.3 |  |  |  |  |
| Shipments --...-...............short tons.. | 110, 813 | 109, 347 | 113,225 | 123, 332 | 121, 832 | 117,565 | 112,015 | $-1.2$ | +8.8 | 229, 580 | 245.164 | +6.8 |
| Stocks, end of month-.-.......-short tons.. | 74, 234 | 76, 461 | 73,403 |  |  | 64, 847 | 64, 199 | +5.0 | +11.6 |  |  |  |
| New orders- Coated.-p. ct. of normal production.. | 76 | 77 | 82 | 83 | 96 | 87 | 94 | +15.7 | +2.1 | 181 | 179 | -1.1 |
| Uncoated._-p. ct. of normal production.Unfilled orders- | 85 | 77 | 79 | 87 | 86 | 93 | 97 | -1.1 | -11.3 | 190 | 173 | -8.9 |
| Coated....p. ct. of normal production.. Uncoated..p. ct. of normal production.- | 8 9 | 8 | 8 | 11 8 | 11 9 | 78 | 9 | 0 | $\underline{+22.2}$ |  |  |  |
| Wrapping paper: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 92,795 | $\begin{array}{r}93,479 \\ 82 \\ \hline 18\end{array}$ | 8,863 78 | 96, 223 | $\begin{array}{r}93,518 \\ \hline 87\end{array}$ | 91,760 | 86,051 | -2.8 -4.4 | +8.7 $-8 .-8$ | 177,811 | 189,941 | +6.7 |
|  | 92, 424 | 91,329 | 85, 220 | 93, 144 | 92, 957 | 90,934 | 85, 449 | -0.2 | +8.8 | 176, 383 | 186, 101 | +5.5 |
| Stocks, end of month Sine paper:- | 80,907 | 79,653 | 84, 916 | 87, 895 | 88, 258 | 68,465 | 66,916 | +0.4 | +31.9 |  |  |  |
| Production $\qquad$ .short tons.. | 38,814 | 36,665 | 38, 136 | 37, 471 | 38,871 | 35, 148 | 34,064 | +3.7 | +14.1 | 69,212 | 76,342 | +10.3 |
| Ratio to capacity .--.......--per cent.- | 92 | 87 | 91 |  | 97 |  |  | +4.3 |  |  |  |  |
| Shipments.--................-short tons.- | 38,892 | 37, 398 | 37, 259 | 35, 550 | 38,327 | 35, 043 | 35,869 | +7.8 | +6.9 | 70,912 | 73.877 | +4.2 |
|  | 50,903 | 50, 173 | 51, 044 | 52,410 | 52,973 | 52,794 | 50,999 | +1.1 |  |  |  |  |
|  | 103, 058 | 98,749 | 97,718 | 99, 909 | 97,412 | 100,755 | 93, 572 | -2. 5 | +4.1 | 194, 327 | 197, 321 | +1.5 |
| Shipments....-..-.-............short tons.- | 103, 040 | 99,251 | 97, 335 | 100,689 | 95, 425 | 99,762 | 95,095 | -5.2 | +0.3 | 194, 857 | 196, 114 | $+0.6$ |
| Stocks, end of month --........-short tons..- | 72, 594 | 69, 106 | 68,751 | 68,857 | 70,828 | 67,593 | 65,697 | +2.9 | +7.8 |  |  |  |
| Total paper (inc. newsprint and box board): Production.-....-short tons.-- | 683, 325 | 669, 957 | 641, 414 | 677,783 | 676, 347 | 656, 652 | 634,482 | -0.2 | +6.6 | 1,291, 134 | 1,354, 130 | +4.9 |
|  | ${ }^{683}, 31$ | ${ }^{68}{ }^{8} 79$ | -1, ${ }^{3} 76$ | ${ }^{1} 82$ | -82 | 656, 652 | 64, 482 | 0 | +6.0 | 1,201, 31 | , |  |
| Shipments.......-- .-..-.-....-short tons.- | 666, 168 | 638,322 | 638, 822 | 663, 201 | ${ }^{668,} 270$ | 649, 805 | 635,096 | +0.8 | +5.2 | 1,284. 001 | 1, 331,471 | +3.6 |
| Stocks, end of month........-.-.short tons..- | 345, 253 | 341, 601 | 341, 601 | 352, 504 | 361, 708 | 323,229 | 319, 564 | $+2.6$ | +13.2 |  |  |  |
| Paperboard Shipping Boxes |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: <br> Total <br> thous. of sq. ft.- | 427, 263 | 395, 491 | 342,376 | 347,622 | 402, 183 | 371,748 | 421,165 | +15.7 | -4.5 | 792, 913 | 749, 805 | -5.4 |
| Corrugated.................thous. of sq. ft.- | 348, 835 | 320, 511 | 272, 807 | 277, 280 | 326, 430 | 293,677 | 336,910 | +17.7 | -3.1 | 630, 587 | 603,710 | -4.3 |
| Solid fiber-...---.........-thous. of sq. ft-- | 78,428 | 74, 980 | 69,569 | 70,342 | 75, 753 | 78,071 | 84, 255 | +7.7 | -10.1 | 162, 326 | 146, 095 | -10.0 |
| Operating activity: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total...-............-. per cent of normal.- |  |  |  |  |  |  |  |  | -4.9 |  |  |  |
| Corrugated.-.-............per cent of normal.- <br> Solid fiber -....................... | 85 83 | 76 <br> 81 <br> 1 | 64 72 | 67 75 | 75 84 | 72 68 | 82 78 | +11.9 +12.0 | -8.5 +7.7 |  |  |  |
| Other Paper Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Abrasive paper and cloth: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 85,155 18,389 | 73,726 16,392 | 58,265 16,034 | $\begin{array}{r}80,505 \\ 3 \\ \hline 17,112\end{array}$ | 83,969 16,169 | 76,717 12,575 | 88,229 <br> 13,569 | +4.3 +5.5 | +9 +19.9 | 159,946 26,144 | 164,474 33,281 | +2.8 +27.3 |
| Labels, orders.................per ct. of capacity.. | 98.2 | 54.4 | 78.1 |  |  | 84.5 | 81.9 |  |  |  |  |  |
| BUILDING CONSTRUCTION AND |  |  |  |  |  |  |  |  |  |  |  |  |
| Rental advertisements: <br> Minneapolis, Minn $\qquad$ <br> Real estate conveyances (41 cities)......number | 6,711 149,667 | 4,290 145,167 | $\underset{143,561}{2,564}$ | 2,473 139,314 | 2, 465 130,968 | 3,131 135,935 | 2, 955 129,258 | $-1.7$ | -16.6 +6.0 | 6,086 265,193 | 4,938 276,282 | -18.9 +4.2 |
| Building Costs |  |  |  |  |  |  |  |  |  |  |  |  |
| Building materials: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 181 185 | 180 184 | 182 | 178 | 182 | 190 | 191 | +2.2 +1.6 | -4.7 |  |  | .-. |
| Brick house, 6-room-.......rel. to 1913.- | 185 | 184 | 187 | 183 | 186 | 190 | 190 | +1.6 | -2.1 |  |  |  |
| Concrete factory costs (Aberthaw) -.rel. to 1914.- <br> Building costs (Engineering News | 191 | 191 | 191 | 192 | 192 | 194 | 193 | 0 | -. 5 |  |  |  |
| Record) ....-......-............-rel. to 1913.. | 202 | 204 | 204 | 205 | 205 | 210 | 209 | 0 | 1.9 |  |  |  |
| Building costs (A. G. C.) | 201 | 200 | 199 | 199 | 199 | 197 | 199 | 0 | 0 |  |  |  |
| Construction costs (Am. Appraisal): |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2205 | 215 | 205 | 214 | 220 | 213 | $\stackrel{213}{204}$ | -1.0 -.9 | $-.5$ |  |  |  |
| Brick, steel frame-.................rel. . to 1913..- | 196 | 196 | 197 | 196 | 197 | 198 | 197 | $+.5$ | 0 |  |  |  |
| Reinforced concrete --.-.-----rel. to 1913-. | 201 | 200 | 201 | 200 | 200 | 200 | 200 | 0 | 0 |  |  |  |
| Contracts awarded Oommercial buildings....-thous. of sq. ft .- | 11,821 | 7,451 | 9,082 | 10, 803 | 9,084 | 10,037 | 8,799 | -15.9 | +3.2 | 18,836 | 19,887 | +5.6 |
| Industrial buildings.......-thous. of sq. ft.- | 5,544 | 6, 382 | 4, 406 | 4,412 | 5,384 | 3,721 | 4,237 | +22.0 | +27.1 | 7,858 | 9,796 | +23.1 |
| Residential buildings.......-thous. of sq. ft.- | 45, 608 | 41,002 | 38,747 | 37, 516 | 42,548 | 29,757 | 31, 025 | +13.4 | +37.1 | 60,782 | 80, 064 | +31.7 |
| Educational buildings.-.--thous. of sq. ft.- | 4,103 | 4,477 | 3,582 | 3,380 | 3,071 | 2,329 | 2,967 | -9.1 | +3.5 | 5,296 | 6,451 | +21.8 |
| Other public and semipublic buildings...........thous. of sq. ft... Grand total. $\qquad$ thons. of sq. ft.- | 6,393 73,765 | 6,014 66,560 | 4,381 60,889 | 3,955 60,271 | 4,855 65,137 | 3,266 50,568 | 4,760 | +22.8 +8.1 | +2.0 +24.4 | 8,026 102,916 | 8,810 125,408 | +9.8 +21.9 | Revised.

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1987 |  |  | 1928 |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DEREASE }(-) \end{aligned}$ |  | cumulative total From jandary 1 through pebruARY 28 |  | Per ct. <br> in- <br> crease <br> ( + ) <br> or de- <br> crease <br> ( -9 <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem. } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | $\begin{aligned} & \text { Feb., } \\ & \text { 1928, } \\ & \text { from, } \\ & \text { Jan, } \\ & \text { 1928, } \end{aligned}$ | Feb., 1928, from Feb., 1927 | 1927 | 1928 |  |
| BUILDING CONSTRUCTION AND HOUSING-Continued <br> Building Costs-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| acts awarded, value (36 States): |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial buildings....--thous. of dolls.- | 77,726 50,370 | 41, 893 | ${ }_{27}^{85,988}$ | -65,981 | ${ }_{31}^{51,564}$ | $\begin{array}{r}77,829 \\ 27 \\ \hline 134\end{array}$ | ${ }^{65,937}$ | -21.9 | $-21.8$ | 143, 766 | 117,545 | -18.2 |
| Industrial buildings_-.....- thous. of dolls.- | 50,370 236,870 | 41,203 207,308 | 27, 938 202,447 | 34,833 186,904 | 31,716 232,574 | 27,134 160,029 | 40,381 158,004 | -8.9 | -21.5 +47.2 | 67,515 318,033 | 66,549 419,478 | -1.4 +31.9 |
| Educational buildings.-----thous. of dolls.- | 29, 699 | 30,642 | 22, 480 | -22,854 | 18, 232 | 16, 675 | 21, 842 | $\underline{-20.2}$ | -16.5 | 38, 517 | 41,086 | +6.7 |
| Other public and semi- <br> public buildings thous. of dolls | 48,555 | 45,744 | 35, 823 | 30,055 | 53, 803 | 31,625 | 45,7 | +79.0 | +17.6 | 77, 390 | 83, 858 |  |
| Public works and utilities... thous. of dolls.-. | 105,932 | 68,716 | 90, 194 | 69,676 | 56, 134 | 53,638 | 49, 358 | +19.4 | +17.6 +13.7 | 102,996 | 125, 810 | +8.2 |
| Grand total.-..-....-thous of dolls.- | 549, 152 | 443,506 | 464, 167 | 410, 535 | 444,023 | 368, 930 | 381, 286 | +8.2 | +16.5 | 750, 216 | 854, 558 | +13.9 |
| Contracts awarded, Canada ...-thous. of dolls.. | 47, 135 | 30, 260 | 36, 682 | 20,480 | 25, 875 | 16,772 | 19,517 | +26.3 | +32.6 | 36, 289 | 46, 355 | +27.7 |
| Building volume (A.G.C.)........-rel. to 1913.- | 222 | 215 | 162 | 125 | 124 | 129 | 121 | -. 8 | +2.5 |  |  |  |
| losses: <br> United States and Canada <br> (Joutnal of Commerce) thous. of dolls | 22, 327 | 18,992 | 31,935 | 43,261 | 41, 105 | 37,911 | 26, 285 | -5.0 | +56.4 | 64, 196 | 84, 366 |  |
| Canada (Monetary Times)--thous. of dolls-- | 1,778 | 1,309 | 1,947 | 2,959 | 1,713 | 2,378 | 1,976 | $-42.1$ | $-13.3$ | 4,354 | 4,672 | +7.3 |
| LUMBER PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |
| Softwood Lumber |  |  |  |  |  |  |  |  |  |  |  |  |
| Southern pine: <br> Production (computed)..........M ft. b. m.- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 438, 708 | 439, 773 | 419, 297 | 462, ${ }_{97}$ | 468, 969 | 422, 022 | 403, 807 | +1.4 | +16.1 | 825, 829 | 931,536 | +12.8 |
| operation $\qquad$ Shipments (computed) per cent of capacity-. | 446,696 | 442, 920 | 395, 239 | 470, 837 | 461, 327 | 382, 751 | 361, 403 | $\pm 2.0$ | +27.6 |  | 932,164 |  |
| New orders (computed) ---.-...M M f. b. m.- | 453,811 | 436,385 | 398, 192 | 523,508 | 475, 145 | 426,558 | 402, 162 | -9.2 | +18.1 | 828, 720 | 998, 653 | $+20.5$ |
|  | , 190, 112 | 1, 194, 404 | 1,207,534 | 1,309,864 | 1,315,935 | 1,219,779 | 1, 252, 224 | +. 5 | +5.1 |  |  |  |
|  | 346, 715 | 305, 164 | 287, 741 | 385, 054 | 396,667 | 299, 314 | 324, 423 | $+3.0$ | +22.3 |  |  |  |
| Exports, lumber-....-......---M M ft. b. m-- | 48,637 | 43, 550 | 52, 930 | 66, 332 | 47, 011 | 64, 492 | 46,648 | -29.1 | +. 8 | 111, 140 | 113, 343 | +2.0 |
|  | 113 7.98 | 36.42 | 308 | 870 35.26 | 368 36.12 | ${ }_{40.81}^{261}$ | 1,071 40.04 | -57.9 | -65.8 | 1,332 | 1,236 | -7.2 |
| Douglas fir: ${ }_{\text {Production (computed) }}$........... ft. b. m. |  |  |  |  |  |  |  |  | -9.8 |  |  |  |
|  | 538, 968 | 497, 337 | 437, 352 | 410, 493 | 507,633 | 410,045 | 510, 766 | +23.7 | -. 6 | 920, 811 | 918, 126 | -. 3 |
| Shipments (computed) --.........M M ft. b. m. m- | 491, 070 | 411, 389 | 386,768 | 397, 571 | 479, 879 | 411, 836 | 485, 698 | +20.7 | -1.2 | 897, 534 | 877, 450 | -2.2 |
| New orders (computed) .-......M ${ }_{\text {M }}$ ft. b. m - - | 464, 211 | 452, 124 | 397, 511 | 444, 514 | 541, 206 | 458, 839 | 516, 138 | +21.8 | +4.9 | 974, 977 | 985, 720 | +1.1 |
|  | 56, 204 | 61, 999 | 51, 072 | 85, 299 | 45, 346 | 48,025 | 53, 944 | -46.8 | $-15.9$ | 101, 969 | 130,645 | +28.1 |
| Exports, timber.-............-.-M M f. b. m-. | 15,498 | 47,711 | 46, 492 | 2,280 | 44, 226 | 26,449 | 22,994 |  | +92.3 | 49,443 | 46, 500 | -5.9 |
| Price, No. 1 commondoulis. per M ft. b. m-- | 15. 17 | 15. 48 | 14.80 | 15.23 | 15.99 | 16.43 | 17. 19 | +5.0 | -7.0 |  |  |  |
| Price, flooring, $1 \times 4, " B$ " and better, V . G. | 35.47 | 35.08 | 34.50 | 34.04 | 34.04 | 36.06 | 35. 92 | 0 | -5. 2 |  |  |  |
| California redwood:Production (computed).........Mft. b. m.- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 43, 142 | 52, 925 | 36,029 | 39,454 | 43, 276 | 32,099 | 32,511 | +9.7 | +33.1 | 64, 610 | 82, 730 | +28.0 |
| Shipments (computed) ......... M ft. b. m.- | 42,676 <br> 36,492 | 40,578 | 26,882 | 30,201 <br> 38,763 | 38,700 <br> 37 <br> 299 | 35,851 42,600 | 37,061 40 40 | +28.1 +3.8 | +4.4 | $\begin{array}{r}72,912 \\ 82 \\ \hline 821\end{array}$ | 68,901 76,062 | -5.5 |
| Unfilled orders, end mo.(comp.) ${ }^{*}$ M tt. b. m.. California white pine: | 45, 430 | 45,962 | 41, 518 | 44,948 | 42,795 | 67, 440 | 60,007 | -4.8 | -28.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 122, 029 | ${ }_{92} 96762$ | 72,552 | 51, 187 | 51,452 | 55, 821 | 44, 247 | +0.5 | +16.3 | 100, 068 | 102,639 | +2.6 |
|  | 123, 538 | 92, 568 | 82,087 | 90, 891 | 97,412 | 75,706 | 73, 874 | +7.2 | +31.9 | 149,580 | 188, 303 | +25.9 |
| Western pine: | 623, 671 | 624, 651 | 667, 618 | 609, 181 | 566, 957 | 591, 017 | 560, 748 | -6. 9 | +1.1 |  |  |  |
| ne: <br> Production (computed) $\qquad$ Mft. b. m-- | 134, 691 | 118,704 | 77,348 |  |  | 69, 113 | 80, 234 |  |  |  |  |  |
| ( Production (computed) | 153,019 | 124,083 | 99, 454 |  |  | 114, 579 | 117, 193 |  |  |  |  |  |
| Stocks, end of mo. (c)North Carolina pine: | 1,069, 825 | 1,068, 630 | 1, 039,389 |  |  | 1, 069, 835 | 1, 036, 454 |  |  |  |  |  |
|  | 57, 295 | 53, 522 | 48, 139 | 40,019 | 51,317 | 47,712 | 55,013 | +28.2 | -6.7 | 102, 725 | 91,336 | -11.1 |
| Shipments (computed) .-.-.----M $\mathrm{Mt}$. . b. m-- | 56, 133 | 50, 813 | 47,845 | 37,030 | 46,746 | 47, 054 | 57, 967 | +26.2 | $-19.4$ | 105, 021 | 83,776 | $-20.2$ |
| Northern pine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Lumber- ${ }_{\text {Production }}$ | 41, 148 | 32, 815 | 24,300 | 33, 550 | 34, 514 | 32,493 | 35,127 | +2.9 | -1.7 | 67, 620 | 68, 064 | +. 7 |
| Shipments. ....-...........-M $\mathrm{Mt}$. . b. m. | 39, 175 | 32, 857 | 24, 680 | 29,451 | 35, 413 | 30, 557 | 33,603 | +20.2 | +5.4 | 64, 160 | 64, 864 | +1.1 |
|  | 33,698 | 27,569 | 22, 156 | 32,703 | 36,520 | 29,184 | 32,393 | +11.7 | +12.7 | 61,577 | 69, 228 | +12.4 |
| Lath- Production.........-.-.....thousands... | 9,034 |  |  |  | 5,726 |  | 7,338 | -21.7 | $-22.0$ |  |  | -10.6 |
|  | 7,941 | 5,377 | 3,994 | 5,300 | 5,609 | 6,261 | 7,795 | +5.8 | $-28.0$ | 14, 056 | 10, 909 | -22.4 |
| Northern hemlock: ${ }^{\text {Production }}$ ( ${ }^{\text {ft b. } m}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 9,188 17,914 | 11,026 14,261 | 13,949 10,014 | 11,425 7,485 |  | 19,811 14,474 | 21,854 15,733 |  |  |  |  |  |
| Hardwood Lumber |  |  |  |  |  |  |  |  |  |  |  |  |
| Walnut lumber: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2,921 $\mathbf{2 , 9 6 7}$ | 3,234 <br> $\mathbf{2}, 824$ | 3,376 $\mathbf{2 , 5 4 8}$ | $\begin{array}{r}\text { 3, } \\ \mathbf{2 , 6 8 7} \\ \hline\end{array}$ | 2,585 2,762 | 2,417 2,809 | 2,606 3,303 | -15.6 +2.8 | -76.8 | 5,023 6,112 | 5,648 5,449 | +12.4 -10.8 |
| Stocks, end of month.........-.-M it. b. m- | 11,739 | 12,149 | 13, 037 | 13,264 | 13,179 | 11,810 | 11,103 | - 6 | +18.7 |  |  |  |
| New orders.........---------M M f. b. m -- | 2,335 | 3,127 | 2,158 | 2,628 | 2,807 | 3,621 | 2,564 | +6.8 | +9.5 | 6,185 | 5,435 | -12.1 |
| Unfilled orders, end of month. M ft. b, m.- | 6,982 | 6,282 | 5,395 | 5,389 | 5,491 | 7,591 | 7,574 | +1.9 | -27.5 |  |  |  |
| Walnut logs: ${ }_{\text {Purchased }}$ | 2,549 | 3,515 | 2,709 | 2,255 | 2,131 | 2,441 | 2,117 | -5.5 | +. 7 | 4,558 | 4,386 | -3.8 |
| Purchased -...----- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2,814 3,166 | 3,035 3,646 | 2,656 3,615 | 2,416 3,041 | 3,229 | 2,088 2,260 | 2,361 1,927 | -16.6 +6.2 | $\begin{array}{r} -14.7 \\ +67.6 \end{array}$ | 4,449 | 4,430 | -. 4 |
| Northern hardwoods: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-......-.............-M M ft. b. m.- | 15,488 | 15,469 | 20,707 | 37,543 |  | 38, 053 | 40, 162 |  |  |  |  |  |
| Lower Michigan hardwoods: | 27,623 | 24, 556 | 19,269 | 24, 164 |  | 25,178 | 28, 472 |  |  |  |  |  |
|  | 5,388 | 5,124 | 4,996 | 7,934 |  | 9,135 | 8,008 |  |  |  |  |  |
|  | 7,348 | 6,344 | 5,895 | 8,147 |  | 8,024 | 7,546 |  |  |  |  |  |
|  | 33, 532 | 21,350 | 30, 902 | 30,821 |  | 40,804 | 37,409 |  |  |  |  |  |

[^6]TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, 'Survey"' | 1927 |  |  | 1928 |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DECREASE }(-) \end{aligned}$ |  | cumulative total from jantary 1 through februARY 28 |  | Per ct. <br> in- <br> crease <br> ( + ) <br> or de- <br> crease <br> ( -9 <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{gathered} \text { Novem- } \\ \text { ber } \end{gathered}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb., 1928, from Jan., 1928 | Feb., 1928, from Feb., 1927 | 1927 | 1928 |  |
| LUMBER PRODUCTS-Continued Hardwood Lumber-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 237,395 | 241, 868 | 263, 649 | 1, 297, 464 | 1, 334, 702 | 238, 364 | 228, 621 | +12.1 +12.5 | +46.4 |  |  |  |
|  | 318,944 | 321,900 | 331, 362 | 360, 590 | 408, 852 | 304, 723 | 304, 766 | +13.4 | +34.2 |  |  |  |
|  | 697, 288 | 705,678 | 740, 914 | 805,780 | 912,816 | 698, 475 | 663, 146 | +13.4 +13.3 | $+37.6$ |  |  |  |
| Gum...........----.......-M Mf. b. m. | 180, 899 | 184, 015 | 197, 437 | 219, 301 | 254, 192 | 168, 645 | 162, 053 | +13.3 +15.9 | +56.6 |  |  |  |
|  | 259, 794 | 259, 053 | 272, 082 | 296, 720 | 337, 262 | 252, 811 | 242, 949 | +13.7 | +38.8 |  |  |  |
|  | 204,701 | 214,616 | 225, 388 | 256, 464 | 281,196 | 232,338 | 230,731 | +9.6 | +21.9 |  |  |  |
| Gum. | 68, 494 | 70,282 | 83, 126 | 100, 560 | 103, 092 | 83,627 | 79, 605 | +2.5 | $+29.5$ |  |  |  |
| Oak---..............-.- M ft. b. m.. | 65,499 | 68,699 | 65, 343 | 69,392 | 78, 296 | 59, 143 | 68, 816 | +12.8 | +13.8 |  |  |  |
| Production (computed)........ M ft. b. m-- | 93, 000 | 87,000 | 75, 000 |  |  | 84, 000 | 84,000 |  |  |  |  |  |
| Shipments (computed) | 83, 000 | 77,000 | 69,000 |  |  | 84, 000 | 94,000 |  |  |  |  |  |
| New orders (computed) $\qquad$ M ft. b. mTotal Lumber | 87,000 | 79,000 | 76,000 |  |  | 90, 000 | 100,000 |  |  |  |  |  |
| Production, 10 species .-.........-. M ft. b. m.- | 2, 374, 882 | 2, 358, 209 | 2, 085, 371 | 32,117,162 | 32,374,230 | 2, 098,788 | 2, 216,344 | +12.1 | +7.1 | 4, 315, 132 | 4, 491, 392 | +4. 1 |
| Exports, planks, joists, etc -----M ft. b. m.- | 171, 074 | 167,986 | 168, 289 | 239, 145 | 158,909 | 178,697 | 153,607 | $-33.6$ | +3.5 | 332, 304 | 398, 054 | +19.8 |
| Retail yards, Minneapolis district: <br> Sales.......................................... m f. <br> Stocks, end of month.............M ft. b. m.. | 16,247 80,397 | 12,554 74,658 | 4,742 80,690 | $\begin{array}{r} 35,042 \\ 388,976 \end{array}$ | 4, $\mathbf{9 4 , 1 5 5}$ | 4,762 90,307 |  | -10.1 +5.8 | +3.5 +.2 | 9,142 | 9, 577 | +4.8 |
| Composite lumber prices: Hardwood..............dolls. per M ft. b. m.. | 40.02 | 39.04 | 39.74 | 40.42 | 40. 47 | 41.11 | 41.08 | $+.1$ | -1.5 |  |  |  |
| Softwoods......-.-.-. dolls. per M ft. b. m... | 31. 77 | 28. 29 | 26.84 | 27.37 | 27.50 | 29.74 | 21.76 | $+.5$ | +26.4 |  |  |  |
| Maple flooring: <br> Flooring |  |  |  |  |  |  |  |  |  |  |  |  |
| Production---.............---M M ft. b. m-- | 10,558 | 8,073 7 | 7,820 | 7,346 | 7,519 | 9,842 | 8,888 | $\pm 2.4$ | -15.4 | 18,730 | 14, 865 | -20.6 |
|  | 8,124 26, 83 | 7, 238 27,610 | 6,797 $\mathbf{2 9 , 5 2 7}$ | -7,252 | 6,889 29,118 | 7,880 29,034 | 8,085 $\mathbf{2 9 , 7 1 0}$ | -5.0 +1.4 | -14.8 | 15,965 | 14, 141 | -11.4 |
|  | 7,493 | 6,233 | 6, 883 | 8 8,161 | 7,712 | 6,587 | 6, 405 | -5.5 | $+20.4$ | 12,992 | 15,873 | +22.2 |
|  | 8,202 | 7,843 | 8,736 | 9,154 | 10,034 | 6,224 | 6,847 | +9.6 | $+46.5$ |  |  |  |
|  | 38,540 | 33,389 | 32, 113 | 35,947 | 38,771 | 35, 215 | 35, 601 | +7.9 | +8.9 | 70,816 | 74,718 | +5.5 |
|  | 38, 349 | 30,998 | 29, 266 | 38,080 | 40, 232 | 31, 929 | 34, 925 | +5.7 | +15.2 | 66,854 | 78,312 | +17.1 |
| Stocks, end of month..-.-.-.--M $\mathrm{Ct}$. . b. m-- | 67,244 | 69,449 | 74, 773 | 82, 239 | 82,758 | 70,629 | 70,090 | +. 6 | +18.1 |  |  |  |
| New orders...-.---------M M f. b. m -- | 35, 716 | 31, 425 | 34,715 | 53,888 | 36, 163 | 37,497 | 39, 133 | -32.9 | -7.6 | 76, 630 | 90,051 | +17.6 |
| Unfilled orders, end of month...M ft. b. m.- Wooden Furniture | 22,764 | 24, 080 | 27,887 | 45,925 | 42,975 | 41, 061 | 45, 275 | -6. 4 | -5.1 |  |  |  |
| Grand Rapids district: <br> Unfilled orders, end of |  |  |  |  |  |  |  |  |  |  |  |  |
| month...........No. of days' production. | $\stackrel{41}{2}$ | 45 | 29 | 44 | 42 | 57 | 49 | -4.5 | -14.3 |  |  |  |
| New orders.-.-...No. of days', production-- | ${ }^{24}$ | 35 | 13 | 40 | 23 | 46 | 39 | -42. 5 | -41.0 |  |  |  |
| Shipments.-.-..- No. of days' production.- | 30 | 28 | 23 | 23 | 25 | 25 | 25 | +8.7 | . |  |  |  |
| Outstanding accounts, end of month _-.....-.........-. No. of days' sales.- | 58 | 59 |  | 55 |  | 52 | 55 | -1.8 | -1.8 |  |  |  |
| Cancellations..........per cent of new orders.- | 11.0 | 13.0 | 32.0 | 7.0 | 13.0 | 6.0 | 14.0 | +85.7 | $-7.1$ |  |  |  |
| Plant operation--.-.-. per cent of full time-- | 100.0 | 99.0 | 99.0 | 95.0 | 94.0 | 98.0 | 100.0 | -1.1 | -6.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders (av. per firm)...........dollars.Unfilled orders, end of month | 14,395 | 12, 291 | 7,784 | 7,043 |  | 8,427 | 8, 580 |  |  |  |  |  |
| Unfilled orders, end of month (av. per firm)........-.-..................dollars.- | 5,331 | 4,883 | 1,803 | 2,851 |  | 3,490 | 2,921 |  |  |  |  |  |
| Shipments- <br> Value (av. per firm) $\qquad$ dollars | 12,935 |  | 10,338 | 5,918 |  |  | 8,255 |  |  |  |  |  |
| Quantity (total)....-------.-.--- pieces.- | 17, 401 | 16, 661 | 13, 072 | 7,617 |  | 9,347 | 10,601 |  |  |  |  |  |
| Plywood: Plywood and Veneer |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments.-.---thous. of sq. ft . of suriace.- | 3,516 | 3,424 | 3,219 | 2,575 |  | 3,348 | 2,991 |  |  |  |  |  |
| Unfilled orders, end of month......thous. of sq. ft. of surface.- |  |  |  |  |  |  | 3,587 |  |  |  |  |  |
| Rotary-cut veneer: |  |  |  |  |  | 3,591 | 3,587 |  |  |  |  |  |
|  | 101 79 | $\begin{array}{r} 102 \\ 96 \end{array}$ | $\begin{aligned} & 94 \\ & 86 \end{aligned}$ | $\begin{array}{r} 80 \\ 132 \end{array}$ | 97 115 | 116 59 | 70 72 | ${ }_{+12.9}^{+21.3}$ | +38.6 +59.7 | 186 131 | ${ }_{247}^{177}$ | -4.8 +88.5 |
| Barrel Headings |  |  |  |  |  |  |  |  |  |  |  |  |
| Circled headings for wooden barrels: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 480,438 831,402 | 753,053 871,742 | 585,774 619,607 | 353,674 407,094 | 496,759 <br> 474 <br> 116 | 508,827 <br> 617 <br> 160 | 739, 936 | +40.5 | -32.9 -3.4 | 1, 248, 763 | 850, 433 | -31.9 |
|  | 831,402 | 871, 226, 218 | 619,607 698,474 | 407,094 456,145 | 474,116 442,426 | 617,160 568,835 | 782,564 523,066 | +16.5 +3.0 -3.0 | -39.4 -15.4 | $1,299,724$ $1,091,901$ | 881,210 898,571 | -37.0 -17.7 |
| Unfilled orders, end of month..........sets.- | 1, 175, 241 | 1,064, 723 | 1, 079,508 | 1, 037,375 | 1, 428, 571 | 1,993, 216 | 1,812, 076 | +37.7 | -21.2 |  |  |  |
| Stocks on hand, end of month.........sets | 3, 396, 865 | 3, 203, 704 | 3, 205, 147 | 3,341, 371 | 3,500,000 | 2, 924, 016 | 3, 035,957 | +4.7 | +15.3 |  |  |  |
| STONE, CLAY, AND GLASS PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |
| Face brick, averages per plant: theusands |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-..-....-........-.-. - thousands-. | 809 | 723 | 626 | 482 | 526 | 489 | 560 | +9.1 | -6.1 | 1,049 | 1,008 | -3.9 |
| Stocks, end of month..............thousands... | 2,679 | 2,777 | 2,832 | 2,958 | 3,037 | 2,409 | 2,767 | +2.7 | +6.2 +9.8 |  |  |  |
| Common brick: <br> Stocks, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Burned.....................-thousands.- | 561, 367 | 538,698 | 504, 836 | 517,897 |  | 462,565 | 487, 217 |  |  |  |  |  |
| Unburned.-.......-.-.-...--thousands.-- | 169,238 | 91,424 | 76,601 168,282 | 68,611 131,338 |  | 58,331 93,806 | 62, 455 |  |  |  |  |  |
|  | 214, 169 182 | -187, 2148 | 168,282 224,825 | 131,338 219,233 |  | 93, 324,836 | 115,013 335,223 |  |  |  |  |  |
| Plants closed down................ number.- |  |  |  |  |  |  | 1125,223 78 | --....... |  |  |  |  |
| Price, red, New York....-dolls. per thous.. | 11.75 | 11.75 | 11.25 | 12.75 | 13.50 | 17.00 | 17.00 | +5.9 | -20.6 |  |  |  |

${ }^{2}$ Revised.

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"'} \& \multicolumn{3}{|c|}{1927} \& \multicolumn{2}{|r|}{1928} \& \multicolumn{2}{|c|}{1927} \& \multicolumn{2}{|l|}{\[
\begin{aligned}
\& \text { PER CENT NN- } \\
\& \text { CREASE }(+) \text { OR } \\
\& \text { DEREASE }(-)
\end{aligned}
\]} \& \multicolumn{2}{|l|}{cumulative total FROM JANUARY 1 througe febreARY 28} \& \multirow[t]{2}{*}{\begin{tabular}{l} 
Per ct. \\
in- \\
crease \\
( + ) \\
or de- \\
crease \\
\((-)\) \\
cumu- \\
lative \\
1928 \\
from \\
1927 \\
\hline
\end{tabular}} \\
\hline \& October \& Novem. \& \[
\begin{aligned}
\& \text { Decem- } \\
\& \text { ber }
\end{aligned}
\] \& January \& February \& January \& February \& Feb., 1928, from Jan., 1928 \& Feb., 1928, from Feb., 1927 \& 1927 \& 1938 \& \\
\hline \multicolumn{13}{|l|}{CHEMICALS AND OILS-Continued Crude: Arsentc} \\
\hline Production---.---.-.-.-.-.-- - short tons.- \& 1,004 \& 1,269 \& 1,125 \& 1,158 \& \& 1,414 \& 1, 147 \& \& \& \& \& \\
\hline Stocks, end of month-.-.-.......s.short tons.. \& 1,260 \& 1,326 \& 1,375 \& 1,407 \& \& 2,725 \& 2,387 \& \& \& \& \& \\
\hline \begin{tabular}{l}
Refined: \\
Production. \(\qquad\) short tons.-
\end{tabular} \& 937 \& 822 \& 782 \& 827 \& \& 913 \& 810 \& \& \& \& \& \\
\hline Stocks, end of month..-.-.....-short tons..
Price index numbers: \& 2,321 \& 2,255 \& 2,101 \& 2,496 \& \& 1,983 \& 2,251 \& \& \& \& \& \\
\hline Crude drugs..............-rel. to Aug., 1914.. \& 207 \& 206 \& 201 \& 208 \& 209 \& 203 \& 204 \& \(+5\) \& +2. 5 \& \& \& \\
\hline Essential oils...........-.rel. to Aug., 1914-- \& 123 \& 126 \& 128 \& 130 \& 157 \& 126 \& 125 \& +20.8 \& +25.6 \& \& \& \\
\hline centicals .-...----.....-rel. to Aug, 1914-- \& 160 \& 169
112 \& 169 \& 169 \& 169 \& 155 \& 155
113 \& 0 \& +9.0
+9 \& \& \& \\
\hline Chemicals. \(\qquad\) rel. to 1913-14.- \& 112
134 \& 112
133 \& 112 \& 112 \& \({ }^{3} 122\) \& 114 \& 113
137 \& \(\stackrel{0}{-6.2}\) \& -10.9 \& \& \& \\
\hline \multicolumn{13}{|l|}{Wood Chemicals} \\
\hline \multicolumn{13}{|l|}{Acetate of lime: Production} \\
\hline Production-
United
States.............thous. of libs.-- \& 13,912 \& 13,519 \& \({ }^{3} 12,802\) \& \({ }^{3} 12,396\) \& 11,757 \& 14,181 \& 12,667 \& -5.2 \& -7.2 \& 26, 848 \& 24, 153 \& -10.0 \\
\hline  \& 1,091 \& 1,105 \& 1,186 \& 1,109 \& 1,091 \& 1,200 \& 1,046 \& -1.6 \& +4.3 \& 2,246 \& 2,210 \& -1.6 \\
\hline \begin{tabular}{l}
Shipments- \\
United States \(\qquad\) thous. of lbs. \\
Canada \(\qquad\) thous. of lbs.-
\end{tabular} \& 16,959
1,462 \& 13,611
808 \& 312,344
395 \& \(\begin{array}{r}1 \\ \begin{array}{r}11,038 \\ 3 \\ 831\end{array} \\ \hline 1881\end{array}\) \& 9,608
507 \& 10,067
509 \& 10,184 \& -13.0
-39.0 \& -5.7
+196.5 \& 20, 251 \& 20,646
1,338 \& -7.2
+96.8 \\
\hline Stocks, end of month---...-- \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline United States-.-.-.-.-.-- thous. of lhous. of libs. \& 3
\(\begin{array}{r}16,409 \\ 1,283\end{array}\) \& \({ }^{3} \mathbf{1 6 , 1 3 3} 1\) \& 316,110
2,462 \& 1

17,316
2,840
18 \& 19,656
3,459 \& 19,910
2,187 \& 22,422
2,988 \& +13.5
+21.8 \& -12.3
+15.8 \& \& \& <br>
\hline  \& +915 \& 1,676 \& 2,078 \& 1,630 \& 1,760 \& 1,630 \& 2, 500 \& +8.0 \& +252.0 \& 2,130 \& 3,390 \& +59.2 <br>

\hline \multicolumn{13}{|l|}{| Price, wholesale.............dolls. per cwt.- <br> Methanol, crude: <br> Production- | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |} <br>

\hline Production- \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline United States - .-...--........-- -gallons.- \& 643,491
48,179 \& 662,505
47,750 \& 3
$\begin{array}{r}638,068 \\ 49,107\end{array}$ \& 8643,676
47,234 \& 597,215
45,659 \& 805,473
49,885 \& 680,583

46,141 \& $-7.2$ \& -12.2 \& \[
$$
\begin{array}{r}
1,486,056 \\
96,026
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
1,240,891 \\
92,893
\end{array}
$$
\] \& -16.5

-3.3 <br>

\hline | Canada |
| :--- |
| Stocks at crude plants, ond of month- |
| Unitod States | \& 48,179

375,965 \& $\begin{array}{r}47,750 \\ \hline 365,584\end{array}$ \& | 49,107 |
| ---: |
| 3 |
| 354,920 | \& 47,234

3 350,798 \& 45,659
374,324 \& 49,885
397899 \& 46,141
340,847 \& -3.3
+6.7 \& -1.3

+9.8 \& 96, 026 \& $$
\text { 92, } 893
$$ \& -3.3 <br>

\hline  \& 39,414 \& 33,414 \& 50,299 \& 39,249 \& 46,158 \& 48,446 \& 45,984 \& +17.6 \& +. 4 \& \& \& <br>
\hline Stocks at rehneries and in transil--- gallons. \& 1, 181, 225 \& 1,407,745 \& 1, 165, 544 \& 1, 126, 152 \& 1, 132,377 \& 341, 444 \& 613,939 \& +. 6 \& +84.4 \& \& \& <br>
\hline Canada......-.........-........gallons.- \& 27,995 \& 31,987 \& 43,458 \& 56, 104 \& 55, 298 \& 15, 913 \& 19,657 \& -1.4 \& $+181.3$ \& \& \& <br>
\hline \multicolumn{13}{|l|}{} <br>
\hline Consumption- ${ }_{\text {United States }}^{\text {U }}$.-................cords. . \& 73,219 \& 70,855 \& ${ }^{8} 87,291$ \& 3 67, 909 \& 64,460 \& 80, 233 \& 68,972 \& -5.1 \& $-6.5$ \& 149, 205 \& 132,369 \& -11.3 <br>
\hline Canada .....-........................cords.- \& 5,121 \& 5,937 \& 5,700 \& 5,858 \& 5,640 \& 6,096 \& 5,306 \& $-3.7$ \& $+6.3$ \& 11,402 \& 11, 499 \& +.9 <br>
\hline Stocks, end of month-
United States................eords.. \& 595, 591 \& 589, 605 \& ${ }^{3} 560,500$ \& ${ }^{3} 555,768$ \& 556,735 \& 500, 818 \& 473, 346 \& +. 2 \& +17.6 \& \& \& <br>
\hline Canada.......-.......................-cords. \& 74,942 \& 71,695 \& 75, 124 \& 74,440 \& 74,734 \& 34, 872 \& 32, 539 \& +. 4 \& +129.7 \& \& \& <br>
\hline Daily capacity-
Total
. \& 3,339 \& 3,323 \& 3,329 \& 3,293 \& 3,323 \& 3,553 \& 3, 555 \& +. 9 \& -6. 5 \& \& \& <br>
\hline \multicolumn{13}{|l|}{\multirow[b]{2}{*}{}} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline United States ......-.-........- gallons - \& 688, 435 \& 529, 552 \& 470,969 \& 496, 073 \& 390,099 \& 480, 448 \& 305, 479 \& -21.4 \& +27.7 \& 785,927 \& 886, 172 \& +12.8 <br>
\hline Canada --.---.-.-..........gallons.- \& 6,700 \& 38,600 \& 41,000 \& 38,700 \& 44,850 \& 35, 290 \& 37, 070 \& +16.0 \& $+21.0$ \& 72, 360 \& 83, 550 \& +15.5 <br>
\hline Stocks, ${ }_{\text {United States }}$..................gallons.. \& 396, 137 \& 452, 246 \& 419,812 \& 455,316 \& 467, 723 \& \& 426, 736 \& +2.7 \& +9.6 \& \& \& <br>
\hline Canada.............................gallons.. \& 26, 443 \& 32, 854 \& ${ }^{3} 34,752$ \& 29, 198 \& 33, 044 \& 88, 596 \& 64,719 \& +13.2 \& -48.9 \& \& \& <br>
\hline Shipments- ${ }_{\text {United States ...............-.gallons.. }}$ \& 698, 476 \& ${ }^{3}$ 626, 643 \& 506,310 \& 482,666 \& 407, 351 \& 374, 530 \& 337, 428 \& -15.6 \& +20.7 \& 711,958 \& 890, 017 \& +25.0 <br>
\hline Canada \& 38,569
.53 \& 28,629
.48 \& 16,937
.48 \& 17,775
.48 \& $\begin{array}{r}35,986 \\ \hline .45\end{array}$ \& 26,037
.83 \& 30,516
.83 \& +102.5 \& + +17.9 \& 56,553 \& 53,761 \& -4.9 <br>
\hline \multicolumn{13}{|l|}{Ethyl Aicohol} <br>
\hline Production.-.-...-...---......-thous. of gals -- \& 16,584 \& 18,051 \& 19,502 \& 13, 050 \& 11, 220 \& 13, 235 \& 10,324 \& $-14.0$ \& +8.7 \& 23,559 \& 24, 270 \& $+3.0$ <br>
\hline Withdrawn for denaturization.--thous. of gals-- \& 17,759 \& 17,329 \& 18,760 \& 10,098 \& 9,061 \& 8,907 \& 9,152 \& $-10.3$ \& -1.0 \& 18,059 \& 19,159 \& +6.1 <br>
\hline Warehouse stocks, end of month_thous. of gals.- \& 7,931 \& 8,211 \& 8,158 \& 9,463 \& 10, 120 \& 3,563 \& 9,842 \& +6.9 \& +2.8 \& \& \& <br>
\hline Explosives \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline \multicolumn{13}{|l|}{(Black powder, permissible, and other high explosives)} <br>
\hline Production...-......-.-.-.........thous. of libs.. \& 38,918 \& 34,695 \& 29,490 \& 29,607 \& 31,895 \& 33, 847 \& 35, 383 \& +7.7 \& -9.9 \& 69, 230 \& 61, 502 \& -11.2 <br>
\hline Shipments........................-thous. of libs.. \& 38, 261 \& 34, 645 \& 27,839 \& 31,332 \& 31,035 \& 33, 726 \& 33, 578 \& -0.9 \& -7.6 \& 67,304 \& 62, 367 \& $-7.3$ <br>
\hline  \& 36,747 \& 32, 111 \& 27, 398 \& 29,879 \& 29,203 \& 33, 116 \& 31, 102 \& -2.3 \& $-6.1$ \& 64, 718 \& 59,082 \& -8.7 <br>
\hline Stocks, end of month....-.-.-.....thous. of lbs.- \& 17,807 \& 17,847 \& 19,196 \& 17,973 \& 18, 447 \& 17,303 \& 19,145 \& +2.6 \& -3.6 \& \& \& <br>
\hline \multicolumn{13}{|l|}{Naval Stores} <br>

\hline | Turpentine (gum): |
| :--- |
| Net receipts, southern ports........barrels.- | \& 39, 115 \& 35,795 \& 28,154 \& 7,764 \& 4,568 \& 7, 386 \& 5,138 \& -41.2 \& -11. 1 \& 12,524 \& 12,332 \& -1.5 <br>

\hline Stocks at ports, end of month--....barrels.- \& 80, 473 \& 77, 676 \& 81, 939 \& 72,035 \& 61, 006 \& 48, 993 \& 40,047 \& -14.1 \& $+54.6$ \& \& \& <br>

\hline | Price, southern, in barrels, |
| :--- |
| New York dolls. per gal.. | \& . 53 \& . 51 \& . 54 \& . 60 \& . 60 \& . 83 \& 75 \& 0 \& -20.0 \& \& \& <br>


\hline | Rosin (gum): |
| :--- |
| Net receipts, southern ports........barrels | \& \& 144, 892 \& \& \& \& \& \& \& \& 66,350 \& 71,709 \& +8.1 <br>

\hline Stocks at 3 ports, end of month.-..-barrels.- \& 222, 167 \& 247,954 \& 248, 755 \& 200, 262 \& 159,053 \& 160, 120 \& 147, 635 \& -20.6 \& +7.7 \& \& \& <br>
\hline Price, common to good (B), \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline New York.-.........----.-dolls. per bbl.- \& 9.24 \& 8.55 \& 8.70 \& 9.54 \& 8.94 \& 12.38 \& 11.71 \& -6.3 \& -23.7 \& \& \& <br>
\hline Production......-................- barrels.- \& 35,963 \& 35, 187 \& 28,483 \& 29, 200 \& 32,792 \& 35, 168 \& 32,043 \& +12.3 \& +2.3 \& 67,211 \& 61, 992 \& -7.8 <br>
\hline Stocks, end of month...............barrels.. \& 82,717 \& 87, 179 \& 85, 553 \& 85, 413 \& 90,429 \& 33, 513 \& 45, 124 \& +5.9 \& +100. \& \& \& <br>
\hline
\end{tabular}

## TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  | 1928 |  | 1927 |  | PER CENT INCrease ( + ) or DECREASE (-) |  | cumulative total from january 1 terough februARY 28 |  | Per ct <br> in- <br> crease <br> ( + ) <br> or de- <br> crease <br> $(-)$ <br> cumu- <br> cutive <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{gathered} \text { Novem- } \\ \text { ber } \end{gathered}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb., <br> 1928, <br> from <br> Jan., <br> 1928, | Feb., 1928, from Feb., 1927 | 1927 | 1928 |  |
| CHEMICALS AND OILS-Continued <br> Naval Stores-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Turpentine (wood): <br> Production. barrels <br> Stocks, end of month barrels- | 6, 12, 160 | 6,820 13,385 | 5,291 $\mathbf{1 2 , 8 6 9}$ | 5,771 10,631 | $\begin{array}{r}\text { 5,645 } \\ \mathbf{1 0 , 4 7 7} \\ \hline\end{array}$ | 7,053 5,531 | 6,587 7,314 | -2.2 -1.4 | -14.3 +43.2 | 13,640 | 11,416 | -16.3 |
| Pine oil: <br> Production $\qquad$ gallons. <br> Stocks, end of month....................gallons. | 237,625 588,788 | 235, $\mathbf{5 6 1 ,} 363$ | 192,141 588,571 | 198,646 605,771 | $\begin{array}{r}\text { 237, } \\ 641,354 \\ \hline 5\end{array}$ | 241, 563 305,151 | 307, 197 | +19.8 +5.9 | +14.8 +104.6 | 448, 760 | 436, 599 | -2.7 |
| Roofing felt: Roofing |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, dry felt-.-.-..-..........tons.- | 27, 512 | 25,680 | 25, 853 | 21, 743 | 19,098 | 19, 266 | 19,669 | $-12.2$ | $-2.9$ | 38, 935 | 40,841 | +4.9 |
| Stocks, end of month, dry felt.-....--tons.- Prepared roofing: | 3,748 | 3,810 | 3,118 | 3,088 | 3, 558 | 3, 628 | 4,045 | +15.2 | -12.0 |  |  |  |
| Shipments...........thous. of roof squares. | 3,218 | 3,280 | 3,386 | 1,587 |  | 1,405 | 1,691 |  |  |  |  |  |
| Fats and Oils |  |  |  |  |  |  |  |  |  |  |  |  |
| Total vegetable oils and copra: thous of lbs |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports.........................thous. of thous. of lbs.- | 5,307 55 58 | 6,484 | 8,481 | 9,405 | 8,939 49,811 | 6,967 | 8,435 | -5.0 | +6.0 | 15,402 | 18, 344 | +19.1 |
|  | 35, $\mathbf{1 5}, 680$ | 68,589 <br> 23 | 60,010 29,582 | 59,870 26,872 | 49, 811 5,178 | 51,953 19,681 | 38,212 12,520 | -16.8 | ${ }^{+58.4}$ | 90,165 32,201 | 109,681 32,050 | +21.6 |
| Copra or coconut oil: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 22, 702 | 30,095 | 29,339 | 32,751 | 22, 271 | 31,588 | 16, 153 | -32.0 | +37.9 | 47,741 | 55,022 | +15.3 |
| Consumption in <br> oleomargarine $\qquad$ thous. of lbs.- | 12,286 | 12,373 | 13, 549 | 13, 191 | 14,009 | 9,837 | ${ }^{3} 9,680$ | +6.2 | +44.7 | 19,517 | 27, 200 | +39.4 |
| Oleomargarine: thous. of lbs | 26,041 | 25,913 | 27,461 |  | 27,624 | 22.748 | 22,345 | +5.4 | +23.6 |  |  |  |
| Consumption....-..............-.thous. of lbs.- | 26, 823 | 26, 256 | 26, 717 | 27, 729 | 26,327 | 21,859 | 20, 256 | ${ }_{-5.1}^{+5.4}$ | +29.3 | 42,033 42,215 | 54,056 | +19.4 +28.1 |
| Animal glues, shipments.---....-thous. of lbs.. | 7,113 | 6,061 | 6,100 |  |  | 6,731 | 6,724 |  |  |  |  |  |
| Cottonseed. Cottonseed |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts at mills................short tons.. | 1,282,625 |  |  |  |  |  |  |  |  |  |  |  |
| Consumption (crush) --...........-short tons.- | 1,876,630 | 782, 681 | 605, 206 | 570,408 | 450, 627 | 849, 721. | 686, 786 | -21.0 | $-34.4$ | 1, 536,507 | 1,021,035 | $-33.5$ |
| Stocks at mills, end of month . .short tons.- | 1, 050, 949 | 1, 113, 974 | 992,049 | 763, 353 | 489,955 | 1,035, 766 | 818, 715 | -35.8 | -40.2 |  |  |  |
| Cottonseed oil, crude: $\quad$ the |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of month..........thous. of lbs.-- Cottonseed oil, refined: | 146, 567 | 165, 069 | 157, 578 | 168, 519 | 159,302 | 175, 190 | 155, 430 | -5. 5 |  |  |  |  |
|  | 194, 676 | 205, 888 | 176, 051 | 143, 378 | 138, 231 | 205, 929 | 201, 217 | $-3.6$ | $-31.3$ | 407, 146 | 281, 609 | -30.8 |
| Stocks, end of month...-.-...thous. of lbs.- | 310, 330 | 415,833 | 502,901 | 538,257 | 566,832 | 395, 022 | 460, 491 | +5.3 | +23.1 |  |  |  |
| Price, yellow, prime, | . 109 | . 106 | . 100 | . 101 | . 093 | . 085 | . 091 | -7.9 | +2.2 |  |  |  |
| Consumption in <br> oleomargarine $\qquad$ thous. of lbs.- | 2,228 | 2, 260 | 2,154 | 2,162 | 2,114 | 2,013 | 2,006 |  |  | 4,019 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of month..............short tons.. | 186,997 | 205, 008 | 190,354 | 269,275 | 170,827 | 147, 144 | 152,147 | $-22.0$ | -34.8 | 687,500 | 461, 539 | -32.9 |
|  | 53, 834 | 63, 790 | 43, 327 | 53, 249 | 27,671 | 81,099 | 61,775 | -48.0 | -55.2 | 142, 774 | 80,920 | -43.4 |
| Minneapolis and Duluth: |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts.-................-thous. of bushs.- | 8,230 | 4,088 | 1,079 | 925 | 660 457 | 787 | 515 | $-28.6$ | +28.2 | 1,302 | 1,585 | +21.7 |
| Shipments --...--7-....-thous. of bushs.- | 2,008 | 3,241 | 2,035 | 576 | 457 | 540 | 418 | $-20.7$ | +9.3 | 958 | 1,033 | +7.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Linseed oil: |  |  |  |  |  |  |  |  |  |  |  |  |
| Price, New York-..........dolls. per lb-- .099 .099 .096 .098 .098 .105 .104 0 -5.8 <br> Linseed cake and meal:          |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports ................-.-...-thous. of lbs.-- | 48,625 | 58, 522 | 53,999 | 44,367 | 53, 532 | 61,103 | 54, 322 | $+20.7$ | -1.5 | 115, 425 | 97, 899 | -15.2 |
| FOODSTUFFS |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada--.......-.-..........thous. of bushs.:- | 62,492 | 121,009 | 147,506 | 152, 560 | 152, 760 | 116, 613 | -115, 550 | +0.8 | +32.4 |  |  |  |
| Receipts, principal markets...thous. of bushs.- | 73, 244 | 44, 823 | 26,522 | 23, 542 | 22,538 | 24, 595 | 20,952 | -4.3 | +7.6 | 45,547 | 76.079 | +1.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat only --.-.t.e.-thous. of bushs.- | 19,430 | 52,805 | 44,809 | 15, 201 | 18,372 | 12,571 | ${ }_{11}^{11,722}$ | +20.9 +17 | $+60.8$ | 23, 993 | 33,573 | +39.9 +31. |
| Prices: Including wheat flour_thous. of bushs.- | 23,475 | 57,976 | 49,114 | 18, 647 | 21,828 | 16,054 | 14, 788 | +17.1 | +47.6 | 30, 842 | 40,475 | +31.2 |
| No. 2, red winter, Chicago_dolls. per bush.- | 1.34 | 1.35 | 1.38 | 1.43 | 1.54 | 1.37 | 1.37 | $+7.7$ | +12.4 |  |  |  |
| No. 1, northern spring, cash Minneapolis.........dolls. per bush.. | 1.275 | 1. 264 | 1.275 | 1. 293 | 1. 263 | 1.413 | 1.403 | -2.3 | -10.0 |  |  |  |
| Wheat Flour |  |  |  |  |  |  |  |  |  |  |  |  |
| Grindings of wheat:United States (census) ....thous. of bushs.--Canada...........thous. of bushs.- | 49,792 | 44,882 | 42,604 | ${ }^{3} 42,415$ |  | 39,354 | 36, 569 | -3.6 | +11.9 | 75,923 | 83, 323 |  |
|  | 9, 138 | 9, 656 | 8,115 | 7,246 | 6,737 | 6,819 | 5,615 | $-7.0$ | +20.0 | 12, 434 | 13,983 | +12.5 |
| Production: <br> United States, actual |  |  |  |  |  |  |  |  |  |  |  |  |
| (census) $\qquad$ thous. of bbls. United States, prorated | 10,817 | 9,735 | 9,235 | ${ }^{3} 9,132$ | 8,823 | 8,624 | 8,023 | -3.4 | +10.0 | 16,647 | 17,955 | +7.9 |
| (Russell) ...................thous. of bbls-- | 12,540 | 11, 337 | 10,877 | 10,502 |  | 9,676 | 8,996 |  |  |  |  |  |
| Canada_-.-...........-......thous. of bbls.. | 2,005 | 2, 120 | 1,677 | 1,579 | 1,464 | 1,496 | 1,231 | $-7.0$ | +18.9 | 2,727 | 3,043 | +11.6 |

[^7]TREND OF BUSINESS MOVEMENTS-Continued


## TREND OF BUSINESS MOVEMENTS-Continued


${ }^{1}$ Revised.

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  | 1028 |  | 1927 |  | PER CENT INCrease ( + ) or decrease (-) |  | cumblative total FROM JANUARY 1 through februARY 28 |  | Per ct.in-crease( + )or de-crease$(-)$cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb. 1928, from Jan., | Feb., 1928, from Feb. 1927 | 1927 | 1928 |  |
| TRANSPORTATION <br> River and Canal Cargo Traffic |  |  |  |  |  |  |  |  |  |  |  |  |
| Panama Canal: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cargo trafic. -...-thous. of long tons.- | 2,718 1,396 | 2,489 1,113 | 2,574 1,099 | 2,372 1,019 | 2,660 1,121 | 2,242 1,216 | 2,230 1,149 | +12.1 +10.0 | +19.3 +2.4 | 4,472 2,365 | 5,032 2,140 | +12.5 |
| In British vessels.....-thous. of long tons.- | , 714 | -743 | , 763 |  | 1,872 | , 478 | -539 | +24.9 |  | 1,017 |  |  |
| Sault Ste Marie canals...-thous. of short tons.-- | 11, 231 | 6,898 | 1,169 | None. | None. | None. | None. |  |  |  |  |  |
| New York State canals...thous. of short tons.- | 381 | 327 | None. | None. | None. | None. |  |  |  |  |  |  |
| Cape Cod Canal...-----.-....--short tons.- | 89,030 | 101,206 | 98,426 | 73, 097 |  | 50, 378 | 41,945 | -...- |  |  |  |  |
|  | 1, 130,277 | 2, 853,845 | - 53,504 | None. | None. | None. | None. |  |  |  |  |  |
| St. Lawrence Canal --.................-short tons.- | 1, 198, 952 | 908, 199 | 53,793 | None. | None. | None. | None. |  |  |  |  |  |
| Mississippi River, Govt. barges-----short tons.. | 104, 923 | 114, 541 | 114, 063 | 105,521 | 125,000 | 89,610 | 85,482 | +18. 5 | +46.2 | 175, 092 | 230, 521 | +31.7 |
| Ohio River, Pittsburgh, Pa., to Wheeling $\mathrm{W} . \mathrm{V}_{\mathrm{a}}$...................short tons. | 894, 938 | 823, 910 | 685, 546 | 517,488 |  |  | 624,697 |  |  |  |  |  |
| Allegheny River.-..................-short tons. | 444, 358 | 338, 975 | 176, 540 | 81, 585 |  | 89, 242 | 85,605 |  |  |  |  |  |
| Monongahela River..-............--short tons.- | 2, 132,076 | 2,020,004 | 1,965,934 | 2, 327, 246 |  | 1,935, 879 | 2,117,558 |  |  |  |  |  |
| Ocean Traffic |  |  |  |  |  |  |  |  |  |  |  |  |
| Clearances, vessels in foreign trade: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total...........------- thous. of net tons-- | 6,974 | 6,957 | 5,296 | 5,163 | 5,035 | 5,153 | 4,746 | -2.5 | $+6.1$ | 9, 899 | 10, 198 | +3.0 |
| Foreign....................--thous. of net tons.- | 4,035 | 3,697 | 3,239 | 3,298 | 3,158 | 3,335 | 3,011 | -4.2 | +4.9 | 6,346 | 6,456 | +1.7 |
| Shipbuilding |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,364 | 22,554 | 30, 742 | 2,888 | 15,218 | 1,208 | 15, 532 | +426.9 | $-2.0$ | -16,740 | 18,106 | +8.2 |
| Building or under contract, end of month: Merchant vessels.....thous. of gross tons.- | 241 | 194 | 204 | 214 |  | 313 | 310 |  |  |  |  |  |
| Freight Cars |  |  |  |  |  |  |  |  |  |  |  |  |
| Surplus (daily av. last week of month): <br> Total.-.........................................cars.- | 168,829 | 352, 168 | 464, 005 | 403, 792 | 372, 916 | 259, 548 | 275, 153 | -7.6 | +35.5 |  |  |  |
| Box | 82,411 | 158, 304 | 224, 247 | 182, 001 | 155, 554 | 148, 742 | 141, 889 | -14.5 | +9.9 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Box-............-........................cars.- | None. | None. | None. |  | None. | 2 | None. | -100 | -100 |  |  |  |
|  | 103 | None. | None. | None. | None. | 85 | 85 | -100 | -100 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grain and grain products-..............cars.- | 273, 675 | 3, 182,059 | -219, 482 | 187,197 | 3, 187,045 | - 178,988 | 3, 173,630 | -. 1 | +7.7 | -352,618 | 7 374, 242 | +6.1 |
| Livestock................................cars.- | 193, 753 | 134,598 | 144,519 | 127, 658 | 130,005 | 129, 321 | ${ }^{3} 110,747$ | +1.8 | +17.4 | 240, 068 | 257, 663 | +7.3 |
| Coal and coke----..........----.....--cars..- 1 | 1, 004, 056 | 713, 254 | 869, 877 | 752, 752 | 726, 259 | 939, 677 | ${ }^{2} 902,257$ | -3.5 | $-19.5$ | 1, 841,934 | 1, 479, 011 | +19.7 |
| Forest products............-.-.......-cars.- | 336, 527 | 244, 210 | 259, 598 | 233, 368 | 270, 914 | 257, 374 | ${ }^{\text {8 }}$ 875, 585 | +16.1 | -1.7 | 532, 959 | 504, 282 | $-5.4$ |
|  | 1, ${ }^{24348} \mathbf{4}$, 614 | - $\begin{array}{r}76,267 \\ 1,015,551\end{array}$ | ( $\begin{array}{r}40,682 \\ 1,177,774\end{array}$ | 31,737 927,299 | 31,394 974,382 | 37,845 965,485 |  | -1.1 +5.1 | -26.6 -1.6 | 80,598 $1,956,059$ | 63, 131 | -21.7 |
|  | 2, 187, 746 | $1,456,681$ | 1, 460, 673 | 1, 187, 712 | 1,269, 695 | 1,247,970 | 31,306,372 | +6.5 | $-2.8$ | 1, 5544,342 | 2, 457 , 407 | $-3.8$ |
| Railroad_Operations |  |  |  |  |  |  |  |  |  |  |  |  |
| Operating revenue: <br> Freight. thous. of dolls. | 452,608 | 385, 760 | 334, 742 | 337, 382 |  | ${ }^{3} 358,104$ | 353, 857 |  |  |  |  |  |
| Passenger ..................-thous. of dolls.- | 75, 201 | 70,885 | 81, 990 | 78,483 |  | 885,971 | 74, 218 |  |  |  |  |  |
| Total operating...--...----thous. of dolls. - | 580, 498 | 503,820 | 467,598 | 457, 426 |  | ${ }^{3} 487,587$ | 468, 994 |  |  |  |  |  |
| Operating expenses --..........- thous. of dolls-- | 399, 504 | 376, 876 | 377, 800 | 363, 384 |  | ${ }^{3} 387,990$ | 361,473 |  |  |  |  |  |
| Net operating income....-...-.thous. of dolls..- | 133,776 | 86, 424 | 55, 334 | 56, 334 |  | - 61,415 | 70, 045 |  |  |  |  |  |
| Freight carried.....-..-------mills. ton-miles.- | 45,552 | 37, 228 | 34, 580 | 36, 271 |  | ${ }^{3} 39,233$ | 37, 250 |  |  |  |  |  |
| Lailway Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Locomotives (Am. Ry. Assn.):Owned, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 61, 305 | 61, 088 | 60, 784 | ${ }^{60,679}$ | 60,598 | 62,387 | 62,334 | - 0 | -2.8 |  |  |  |
| In bad order end of month--...-mills. of libs... | 2,606 | 2,602 | 2,595 | ${ }^{3} 2,597$ | 2,596 | 2,611 | 2, 611 |  | -. 6 |  |  |  |
| Quantity-.-.................- ${ }^{\text {Per }}$ per cent.. | 8,778 | 8,961 | 8,257 | 8,733 | 8,857 | 9,256 | 9,548 | $+1.4$ | $-7.2$ |  |  |  |
| Per cent of total in use....-..-per cent.- Installed | 14.4 | 14.8 | 13.6 | 14.5 | 14.7 | 14.9 | 15.4 | $+1.4$ | -4.5 |  |  |  |
|  | 195 | 149 | 135 | 154 | 141 | 145 | 160 | -8.4 | -11.9 +3 | 305 | 295 |  |
|  | 345 8 | 366 17 | 378 149 | 259 2 | 222 30 | 210 26 | 214 85 | -14.3 | +3.7 -64.7 | 111 | 481 32 | ${ }_{+}^{+13.4}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total_-...-----.-........-number-- | 112 | 52 | 72 | 47 | 59 | 57 | 80 | +25.5 | -26.3 | 137 | 106 | -22.6 |
| Steam, domestic -...................number-- | 81 | 31 | ${ }_{13}^{41}$ | $\stackrel{22}{22}$ | 43 | 16 8 | 69 10 | ${ }_{+}^{+95.5}$ | -37.7 +10.0 | ${ }_{18}^{85}$ | 65 34 | -23.5 +88.9 |
| Electric, domestic $\qquad$ number.- <br> Unfilled orders (railroads), end of mo.- | 12 | 7 | 13 | 23 | 11 | 8 | 10 | -52.2 | +10.0 | 18 | 34 | +88.9 |
| From $\qquad$ | 53 | 51 | 80 | 151 | 148 | 262 | 232 | -14.3 |  |  |  |  |
| In railroad shops..........---- | 27 | 18 | 13 | 22 | 23 | 56 | 44 | +4.5 | -47.7 |  |  |  |
| Unfilled orders, manufacturers' (census)Total number | 182 | 145 | 232 | 222 | 204 | 412 | 403 | -8.1 | -49.4 |  |  |  |
| Steam, domestic.-...........-.-. n - | 97 | 74 | 178 | 161 | 146 | 334 | 314 | $-9.3$ | $-53.5$ |  |  |  |
| Electric, domestic..............number. | 45 | 42 | 39 | 38 | 40 | 23 | 29 | +5.3 | +37.9 |  |  |  |
| Exports, steam....-...-...........-number.-- | - 19 | 5 | 25 | 13 |  | 41 | 9 | -53.8 | -33.3 | 50 | 19 | -62.0 |

${ }^{3}$ Revised.

TREND OF BUSINESS MOVEMENTS Continued


TREND OF BUSINESS MOVEMENTS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"} \& \multicolumn{3}{|c|}{1927} \& \multicolumn{2}{|c|}{1928} \& \multicolumn{2}{|c|}{1927} \& \multicolumn{2}{|l|}{PER CENT INCREASE ( + ) OR DECREASE (一)} \& \multicolumn{2}{|l|}{cumulative total FROM JANUART 1 THROUGH FEBRU. ARY 28} \& \multirow[t]{2}{*}{\begin{tabular}{l} 
Per ct. \\
in \\
crease \\
\((+\) ) \\
or de- \\
crease \\
\((-)\) \\
cumu- \\
lative \\
1928 \\
from \\
1927 \\
\hline
\end{tabular}} \\
\hline \& October \& November \& \[
\begin{aligned}
\& \text { Decem- } \\
\& \text { ber }
\end{aligned}
\] \& January \& February \& January \& February \& Feb., 1928, from Jan., 1928 \& Feb, 1928, from Feb., 1927 \& 1927 \& 1988 \& \\
\hline \multicolumn{13}{|l|}{EMPLOYMENT AND WAGES-CO} \\
\hline Average weekly earnings, factories: \& 28.59 \& 28.23 \& 28.15 \& \& \& \& \& \& \& \& \& \\
\hline  \& 29.28 \& 28.75 \& 29.59 \& 29.22 \& 27.17 \& 22. 52 \& 29.89 \& -7.0 \& -7.6 \& \& \& \\
\hline  \& 25.40 \& 25. 39 \& 25.24 \& 23. 60 \& \& 24.58 \& 26.06 \& \& \& \& \& \\
\hline Massachusetts.......................erel to 1914.. \& 231.2 \& 231.4 \& 232.1 \& 232.1 \& 234.7 \& 228.3 \& 233.3 \& +1.1 \& \(+6\) \& \& \& \\
\hline New Jersey-.........................-rel. to 1923.. \& 109 \& 108 \& 111 \& 109 \& 110 \& 108 \& 110 \& +.9 \& \& \& \& \\
\hline Pennsylvania-..-------------rerel. to 1923-- \& 101 \& 100 \& 101 \& 98 \& 104 \& 101 \& 105 \& +6.1 \& \(-1.0\) \& \& \& \\
\hline \multicolumn{13}{|l|}{\multirow[b]{2}{*}{A verage weekly earnings (National Industrial Conference Board):}} \\
\hline \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Grand total (both sexes)............-dollars.- \& \({ }_{29}^{27.01}\) \& 26.72 \& 26.90
29.35 \& 27.24
29.80 \& \& 27.26 \& 27.68 \& \& \& \& \& \\
\hline  \& 29.35
30.78 \& 28.69
30.15 \& \begin{tabular}{l}
29.35 \\
30.80 \\
\hline
\end{tabular} \& 29.80
31.22 \& \& 29.57
30.93 \& 30.17
31.61 \& \& \& \& \& \\
\hline Unskilled male.-.-.-.-.-.-.-.............-dollars... \& 24.21 \& 23.42 \& 24.12 \& 24. 66 \& \& 24.69 \& 24.93 \& \& \& \& \& \\
\hline Total women............................dollars.. \& 17.35 \& 17.32 \& 17.34 \& 17.23 \& \& 17.25 \& 17.38 \& \& \& \& \& \\
\hline \begin{tabular}{l}
Average weekly hours: \\
Nominal (both sexes) hours
\end{tabular} \& 49.5 \& 49.4 \& 49.5 \& 49.5 \& \& \& \& \& \& \& \& \\
\hline Actual (both sexes) ....................-. \({ }^{\text {hours.- }}\) \& 47.4 \& 47.1 \& 47.3 \& 47.9 \& \& 48.2 \& 48.6 \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{} \\
\hline divisions: New England...............eents per hour. \& 48 \& 48 \& 55 \& 53 \& 52 \& 44 \& 50 \& -1.9 \& +4.0 \& \& \& \\
\hline Middle Atlantic.............cents per hour..- \& 46 \& 46 \& 46 \& 48 \& 47 \& 46 \& 50 \& -2.1 \& -6.0 \& \& \& \\
\hline South Atlantic................cents per hour.- \& 28 \& 26 \& 24 \& 24 \& 22 \& 24 \& 39 \& -8.3 \& \(-43.6\) \& \& \& \\
\hline East South Central...-....cents per hour-- \& 25 \& 25 \& 24 \& 25 \& 26 \& 24 \& 24 \& +4.0 \& +8.3 \& \& \& \\
\hline West South Central -......cents per hour-- \& 32 \& 30 \& 32 \& 26 \& 28 \& 27 \& 32 \& +7.7 \& -12.5 \& \& \& \\
\hline East North Central........cents per hour.- \& 40 \& 40 \& 42 \& 39 \& 41 \& 39 \& 44 \& +5.1 \& -6.8 \& \& \& \\
\hline West North Central.......cents per hour.. \& 38 \& 37 \& 37 \& 37 \& 39 \& 38 \& 37 \& +5.4 \& +5.4 \& \& \& \\
\hline Mountain.....-............-cents per hour-. \& 48 \& 47 \& 46 \& 41 \& 43 \& 43 \& 41 \& +4.9 \& +4.9 \& \& \& \\
\hline Pacific.---------------.--cents per hour-. \& 56 \& 53 \& 54 \& 50 \& 54 \& 51 \& 53 \& +8.0 \& +1.9 \& \& \& \\
\hline United States, average .....cents per hour-- \& 40
50 \& 40
50 \& 39
50 \& 37
50 \& 38
50 \& 37
50 \& 41 \& +2.7 \& \(-7.3\) \& \& \& \\
\hline \multicolumn{13}{|l|}{} \\
\hline \multicolumn{11}{|l|}{\multirow[t]{2}{*}{Applicants per 100 jobs, employment agencies:}} \& \& \\
\hline \& 120 \& 137 \& \& \& \& \& \& \& +10.8 \& \& \& \\
\hline  \& 129 \& 146 \& 155 \& 192 \& 208 \& 156 \& 162 \& +8.3 \& +28.4 \& \& \& \\
\hline  \& 145 \& 160 \& 165 \& 203 \& 189 \& 203 \& 191 \& -6.9 \& -1.0 \& \& \& \\
\hline Southern States...................-number.. \& 122 \& 132 \& 145 \& 188 \& 222 \& 146 \& 155 \& +18.1 \& +43.2 \& \& \& \\
\hline Western States..............-....-.number.- \& 61 \& 71 \& 80 \& 87 \& 75 \& 78 \& 72 \& \(-13.8\) \& +4.2 \& \& \& \\
\hline Factory Labor Turnover \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{(Percentage of number on pay roll)
Departures:}} \\
\hline \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Total.......-...... per cent (annual basis).- \& 38.0
25.3 \& 30.5
18.2 \& 26.5
14.9 \& 28.4
16.5 \& 26.5 \& 41.4 \& 38.8 \& -6.7 \& -31.7
-38 \& \& \& \\
\hline Voluntary quits...per cent (annual basis).-. \& 25.3
7 \& 18.2 \& 14.9 \& 16.5
79 \& \({ }^{13.6}\) \& 23.4 \& 22.1 \& -17.6
+8.9 \& -38.5
-18.9 \& \& \& \\
\hline Discharges...........-per cent (annual basis).- \& 5.0 \& 4.1 \& 3.9 \& 7.0 \& 8.6
4.3 \& 5.7 \& 6.1 \& +8.9
+7.5 \& - 29.5 \& \& \& \\
\hline Accessions.............per cent (annual basis).-. \& 38.3 \& 34.1 \& 24.8 \& 37.4 \& 30.5 \& 35.0 \& 37.3 \& -18.4 \& \(-18.2\) \& \& \& \\
\hline DISTRIRUTION MOVEMENT \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{Retail Sales} \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Mail-order houses: \\
Total sales, 4 houses \(\qquad\) thous. of dolls..
\end{tabular}} \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \& 157,754
50,869 \& 3 58,336
51,229 \& 365,707
59
59 \& \(\begin{array}{r}841,210 \\ 37,465 \\ \hline\end{array}\) \& 42,529
38,392 \& 39,404
35,237 \& 38,957
35,150 \& +3.2
+2.5 \& +9.2
+9.2 \& 78,361
70,387 \& 83,739
75,857 \& +6.9
+7.8 \\
\hline Sears, Roebuck \& Co-....-.thous, of dolls.- \& 29,302 \& 29,847 \& 34,486 \& 24, 240 \& 23, 842 \& 22, 080 \& 20, 966 \& -1.6 \& +13.7 \& 43,046 \& 48,082 \& +11.7 \\
\hline Montgomery Ward \& Co...thous. of dolls.- \& 21,567 \& 21, 382 \& 25, 008 \& 13, 225 \& 14, 550 \& 13, 157 \& 14, 184 \& +10.0 \& +2.6 \& 27, 341 \& 27,775 \& +1.6 \\
\hline \begin{tabular}{l}
Ten-cent chain stores: \\
Total sales (4 chains) \(\qquad\)
\end{tabular} \& \& \& \& \& \& \& \& \& \& 61,637 \& 67,264 \& +9.1 \\
\hline Total stores operated (4 chains) . number-- \& - 4 2,396 \& 2,415 \& 2, 2 , 427 \& 31, 431 \& 35,363
2,446 \& - 2,223 \& \(\begin{array}{r}3,244 \\ \hline\end{array}\) \& +10.9
+1.6 \& +10.6
+9.0 \& 61,637 \& 67, 264 \& +9.1 \\
\hline F. W. Woolworth \& Co..--thous. of dolls-- \& 26, 032 \& 23,731 \& 43, 897 \& 17, 114 \& 19,001 \& 16,117 \& 17, 379 \& +11.0 \& +9.3 \& 33, 496 \& 36, 115 \& +7.8 \\
\hline Stores operated..-.-.-------- \& 1,584 \& 1,588 \& 1,588 \& 1,591 \& 1,603 \& 1,484 \& 1,494 \& +.8 \& +7.3 \& \& \& \\
\hline S. S. Kresge Co.............thous. of dolls.- \& 12,084 \& 12,011 \& 23,044 \& 8, 658 \& 9,320 \& 7,956 \& 8,309 \& +7.6 \& +12.2 \& 16,265 \& 17,978 \& +10.5 \\
\hline Stores operated..---.----.-..-number.- \& 419 \& 427 \& 435 \& 436 \& 439 \& 370 \& 376 \& +. 7 \& +16.8 \& \& \& \\
\hline McCrory Stores Corp......thous. of dolls.- \& 3,332 \& 3,236 \& 6,857 \& 2,369 \& 2, 867 \& 2, 286 \& \({ }^{3} 2,763\) \& +21.0 \& \(+3.8\) \& 5,049 \& 5,236 \& +3.7 \\
\hline \begin{tabular}{l}
Stores operated.....................number.- \\
S. H. Kress \& Co.............thous. of dolls..
\end{tabular} \& 5, 069 \& 219
5,272 \& 11, \({ }^{22182}\) \& 221
3,760 \& 221
4,175 \& 199
3,292 \& 3
\(\begin{array}{r}3 \\ 3\end{array} 21\)
3,53 \& 0
+11.0 \& +10.0
+18.1 \& \& \& \\
\hline S. H. Kress \& Co. \(\qquad\) thous. of dolls.Stores operated \(\qquad\) number.- \& 5,069
176 \& 5,272 \& 11,182 \& \(\begin{array}{r}\text { 3, } \\ \mathbf{7 6 0} \\ \\ \hline\end{array}\) \& 4,175
183 \& 3,292
170 \& 3, 535 \& +11.0 \& a
+18.1
+6.4 \& 6,827 \& 7,935 \& 16.2 \\
\hline  \& 1,120 \& 1,090 \& 2,349 \& 692 \& 752 \& 655 \& 693 \& +8.7 \& +8.4
+8.5 \& 1,348 \& 1,444 \& +7.1 \\
\hline  \& 90 \& 1,91 \& 91 \& 91 \& 91 \& 81 \& 82 \& 0 \& +11.0 \& \& \& \\
\hline F. \& W. Grand...-.-.......thous. of dolls-- \& 1,223 \& 1,140 \& 2,267 \& 800 \& 901 \& 657 \& \({ }^{3} 711\) \& +12.6 \& +26.7 \& 1,368 \& 1,701 \& +24.3 \\
\hline  \& 55
4,275 \& \& \& 62
2 \& - 63 \& 44
2,205 \& \(\begin{array}{r}48 \\ 32.248 \\ \hline\end{array}\) \& +1.6
+8.3 \& +31.3
+26.5 \& \& \& +228 \\
\hline . Stores operated.--------- -- -- \& \(\begin{array}{r}4,275 \\ \hline 138\end{array}\) \& + \({ }^{4} \mathbf{1 4 5}\) \& 8,205 \& 2, 154 \& 2,843 \& 2,206 \& \(\begin{array}{r}3,248 \\ \hline 109\end{array}\) \& +8.3
+2.6 \& + 4.0 \& 4, 43 \& , 467 \& +22.8 \\
\hline \multicolumn{13}{|l|}{} \\
\hline Childs Co., sales..-.......- thous. of dolls - \& 2,378 \& 2,275 \& 2,490 \& 2,346 \& 2,187 \& 2,537 \& 2, 319 \& -6.8 \& -5.7 \& 4,856 \& 4,533 \& -6.7 \\
\hline O. R. Thompson Co., sales. thous. of dolls.- \& 1,224 \& 1,185 \& 1,262 \& 1,235 \& \& 1,225 \& 1,118 \& \& \& \& \& \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
Other chain stores: \\
Isaac Silver \& Bros \(\qquad\)
\(\qquad\) thous. of dolls Stores operated. ...... number
\end{tabular}} \& 509 \& 513 \& 1,065 \& 312 \& 388 \& 281 \& 311 \& +24.4 \& +24.8 \& 592 \& 700 \& +18.2 \\
\hline \& 20 \& 19 \& 19 \& 22 \& 23 \& 22 \& 22 \& +4.5 \& +4.5 \& \& \& \\
\hline Hartman Corporation.....- thous. of dolls-- \& 1,478 \& 1,312 \& 1,505 \& 907 \& 1,096 \& 842 \& 1,152 \& +20.8 \& -4.9 \& 1,994 \& 2,003 \& +. 5 \\
\hline  \& 17,185 \& 1,19
17,054 \& 21,796 \& 19
7,722 \& 19
8,906 \& 16
6,331 \& 1,17

3
7497 \& 0
+15.3 \& +11.8
+18.8 \& 13, 828 \& 16,628 \& +20.2 <br>
\hline Stores operated...---.-.........-number-- \& 17889 \& 17, 890 \& ${ }^{21} 891$ \& ${ }^{913}$ \& 8,914 \& - 800 \& ${ }^{7} 8807$ \& +1
+1 \& +13.3 \& \& \& <br>
\hline United Cigar Stores C0.....thous. of dolls.- \& 6, 822 \& 6,534 \& 9, 475 \& 5,562 \& 5,926 \& 5,723 \& 5,715 \& +6.5 \& +3.7 \& 11, 438 \& 11,488 \& +. 4 <br>
\hline Stores operated.................number.- \& 3,143 \& 3,148 \& 3,151 \& 3,151 \& 3,113 \& 3,109 \& 3,096 \& -1.2 \& +. 5 \& \& \& <br>
\hline A. Schulte (Inc.) --.-.-...-. thous. of dolls.- \& 2, 231 \& 2,076 \& 3,233 \& 1,826 \& 1,902 \& 2,204 \& 2, 362 \& +4.2 \& -19.5 \& 4,566 \& 3,728 \& -18.4 <br>
\hline Stores operated............... number.- \& 297 \& - 298 \& 2298 \& 300
508 \& - 298 \& 294 \& 294 \& - -7 \& +1.4 \& \& \& <br>
\hline G. C. Murphy Co.*---...--thous. of dolls-- \& 875 \& 865
115 \& 2, 064 \& 598 \& 673
113 \& 551 \& ${ }_{608}^{62}$ \& +12.5 \& +10.7
+28 \& 1,159 \& 1,271 \& $+9.7$ <br>
\hline Stores operated...............number-- \& 111 \& 115 \& 113 \& 113 \& 113 \& 92 \& 92 \& 0. \& +22.8 \& \& \& <br>

\hline | Installment sales in New England department stores: |
| :--- |
| Ratio to total sales. $\qquad$ per cent | \& 7.0 \& 6.7 \& 3.9 \& \& \& 10.5 \& 8.0 \& \& \& \& \& <br>

\hline
\end{tabular}

[^8]TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  | 1928 |  | 1927 |  | PRR (ENT IN-CREASE( + )OR decrease (-) |  | cumulative total FROM JANUARY 1 through febrevARY 28 |  | Per ct. <br> in- <br> crease <br> (+) <br> or de- <br> crease <br> ( - ) <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb., 1928, <br> from <br> Jan., | Feb. 1928. <br> from <br> Feb., <br> 1927 | 1927 | 1928 |  |
| DISTRIBUTION MOVEMENT-Con. Advertising |  |  |  |  |  |  |  |  |  |  |  |  |
| Magazine advertising for the following month...........................thous. of lines. | 2,599 | 2,289 | 1,811 | 2,176 | 2,517 | 2,210 | 2,441 | +15. 7 | +3.1 | 16,472 | 4 6,504 | +. 5 |
| Postal Business |  |  |  |  |  |  |  |  |  |  |  |  |
| Postal receipts, 50 selected cities. $\qquad$ thous. of dolis.. ostal receipts, 50 industrial | 32,450 | 32,799 | 40,823 | 30, 579 | 30,547 | 30,394 | 29, 299 | $-.1$ | +4.3 | 59,693 | 61, 126 | +2.4 |
| cities thous. of dolls.. | 3,395 | 3,331 | 4,448 | 3,438 | 3,482 | 3,317 | 3, 284 | +1.3 | $+6.0$ | 6,601 | 6,920 | +4.8 |
| Money orders: <br> Domestic paid ( 50 cities)- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 11,659 76,574 | 11,954 97,863 | 13,516 102,259 | 10,468 78,220 | 10,633 78,921 | 10,576 80,473 | 10,276 77,680 | +1.6 +9 | +3.5 +1.6 | 20, 852 | 21, 101 | +1.2 |
|  |  | 97, 863 |  |  |  | 80,473 | 77,680 | +. 9 | +1.6 | 158,153 | 157, 141 | -. 6 |
|  | 3,363 35,147 | 3,381 34,860 | 3,759 37,452 | 3,416 34,117 | 3,341 33,083 | 3,303 34,001 | 3,1158 32,240 | -2.2 -3.0 | +5.8 +2.6 | 6,461 66,241 | 6,757 67,200 | +4.6 +1.4 |
| BANKING AND PINANCE |  |  |  |  |  |  |  |  |  |  |  |  |
| Lfe Insurance |  |  |  |  |  |  |  |  |  |  |  |  |
| (Association of Life Insurance Presidents) |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrial................number of policies.. | 992, 140 | 940, 847 | 783, 5391 | 901, 786 | 846, 745 | 679, 290 | 767, 121 | -6.1 +378 | +10.4 | 1,446, 411 | 1, 748, 531 | $\underline{+20.9}$ |
| Group-.-......-----number of contracts.- | 1, 205, 142 | I, 144, 688 | 1, ${ }^{490} 5976$ | 1,085, 122 | 1, ${ }^{1759,040}$ | 192 866,942 | 2, 176 972,901 | +37.8 +2.4 | -8.6 +8.9 | 1, 839, 343 | 2, $\begin{array}{r}300 \\ 2,144,462\end{array}$ | -18.5 +16.6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group insurance certificates ...certificates.- | 23,797 | 27, 928 | 124, 123 | 26, 408 | 53, 800 | 51, 967 | 32,452 | +103.7 | +65.8 | 84, 419 | 80, 208 | $-5.0$ |
| Ordinary .....................thous. of dolls.- | 615,753 | 582, 000 | 725, 847 | 575, 127 | 651,037 | 576, 642 | 625, 988 | +13.2 | +4.0 | 1, 202,630 | 1, 226, 164 | +2.0 |
| Industrial..................-thous. of dolls.- | 265, 974 | 252,738 | 211, 076 | 236, 303 | 221,948 | 185, 292 | 207, 217 | -6. 1 | +7.1 | 392, 509 | 458, 251 | +16.7 |
| Group-....-.-.-......-....thous. of dolls.- | 48,625 | 76,960 | 165, 025 | 46, 841 | 91,505 | 94, 445 | 46,119 | +95. 4 | +98.4 | 140,564 | 138, 346 | -1.6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrial.............-.-.....thous. of dolls.- | 49, 272 | 48, 273 | 89,926 | 54, 564 | 48, 193 | 45, 920 | 43, 286 | $-11.7$ | +11.3 | 89, 206 | 102, 757 | +15.2 |
| Group......-...............- thous. of dolls-- | 5,792 | 4, 862 | 6,448 | 7,618 | 17,623 | 7,065 | 4, 803 | +131.3 | +266.9 | 11, 868 | 25, 241 | +112.7 |
| Total - .---.-.-..........thous. of dolls.-- | 195, 105 | 198, 716 | 264, 488 | 211, 129 | 220, 108 | 188, 380 | 184, 058 | +4.3 | +19.6 | 372, 438 | 431, 237 | +15.8 |
| Admitted life insurance assets (41 companies): <br> Grand total.....................-mills. of dolls <br> 11,484 <br> 10,529 <br> 10,606 |  |  |  |  |  |  |  |  |  |  |  |  |
| Mortgage loans- - - - - - - - - | 11,381 | 11,484 |  |  |  |  | 0 |  |  |  |  |  |
| Total .-...-.-...-.-.-.-mills. of dolls-- | 4, 982 | 5,019 |  |  |  | 4,587 | 4,637 |  |  |  |  |  |
| Farm..........---.---- mills. of dolls.- | 1,621 | 1,620 |  |  |  | 1,592 | 1,599 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government-............--mills. of dolls.- | 4, 928 | 4, 940 |  |  |  | 3,987 | 4, 918 |  |  |  |  |  |
| Railroad --.............. mills. of dolls..- | 2, 268 | 2,287 |  |  |  | 2,173 | 2,173 |  |  |  |  |  |
| Public-utility...........-mills. of dolls.. | 911 | 942 |  |  |  | 764 | 775 |  |  |  |  |  |
| All other..........-.-....-mills. of dolls.- | 155 | 154 |  |  |  | 131 | 136 |  |  |  |  |  |
| Policy loans and premium <br> notes. .mills. of dolls.- | 1,347 | 1,358 |  |  |  | 1,240 | 1,252 |  |  |  |  |  |
| (Life Insurance Sales Research Bureau) |  |  |  |  |  |  |  |  |  |  |  |  |
| Sales of ordinary life insurance ( 81 companies): United States total. thous. of doils. | 659,375 | 662, 688 | 833,944 | 609, 228 | 731, 145 | 601, 985 | 673,855 |  | +8. 5 |  |  |  |
| Eastern manuf. dist.-.-.thous. of dolls.. | 257,543 | 254, 111 | 316, 931 | 261, 893 | 318, 664 | 257, 734 | 293, 294 | +20.7 | +8.7 | 1, 2751,028 | 580,557 | +5.1 |
| Western manuf. dist. .-thous. of dolls.. | 148,380 | 150, 447 | 188, 770 | 130,338 | 160, 185 | 133, 912 | 145, 932 | +22.9 | +9.8 | 279, 844 | 290, 523 | +3.8 |
| Western agric. district -thous. of dolls.. | 103, 663 | 106, 310 | 131, 530 | 90, 662 | 104, 811 | 86, 167 | 95, 686 | +15.6 | +9.5 | 181, 853 | 195, 473 | +7.5 |
| Southern district-....-thous. of dolls.- | 82, 706 | 84, 189 | 113, 184 | 68, 847 | 81, 213 | 66, 112 | 77, 258 | +18.0 | +5. 1 | 143, 370 | 150, 060 | +4.7 |
| Far western district,.-.thous. of dolls.- Canada total, 15 companies_thous. of dolls.- | 67,083 48,104 | 67, 631 44,935 | 83,529 48,899 | 57,483 47,569 | 66, 272 40,290 | 58, 060 36,986 | 61,685 35,525 | +15.3 -15.3 | +7.4 +13.4 | 119,745 72,511 | 123,755 87,859 | +3.3 +21.2 |
| Canada total, 15 companies thous. of dolls.- | 48, 104 | 44,935 | 48,899 | 47, 569 | 40,290 | 36,986 | 35, 525 | -15.3 | +13.4 | 72, 511 | 87, 859 | +21.2 |
| Banking |  |  |  |  |  |  |  |  |  |  |  |  |
| Check payments: $\quad 34$ |  |  |  |  |  |  |  |  |  |  |  |  |
| New York City-7.........mills. of dolls. | 34, 091 | 33, 282 | 38, 938 | 37,884 | 32,740 | 31, 258 | 27, 439 | -13.6 | +19.3 | 58,697 | 70,624 | $+20.3$ |
| Outside New York City ..-.mills. of dolls-- Canada | 25,117 1,849 | 23,809 2,159 | 26,509 2,311 | 25, 007 | 21,757 1,665 | 23,457 1,454 | 20,781 | -13.0 | +4.7 +33 | 44, 238 | 46,764 3 | +5.7 |
|  |  | 2,159 | 2,311 | 1,871 | 1,665 | 1,454 | 1,251 | -11.0 | +33.1 | 2,705 | 3,536 | +30.7 |
| Bills discounted............-mills. of dolls.- | 379 | 477 | 609 | 423 | 493 | 365 | 435 | +16. 5 | +13.3 |  |  |  |
| Notes in circulation.........-mills. of dolls.- | 1,717 | 1,717 | 1,813 | 1,577 | 1,588 | 1,688 | 1,717 | $+.7$ | -7.5 |  |  |  |
| Total investments..........-mills. of dolls.: | 882 | ${ }^{903}$ | ${ }^{990}$ | 812 | 752 | 607 | 602 | $-7.4$ | +24.9 |  |  |  |
| Total deposits.-.-.-.-.-.-------mills. of dolls.-- | $\stackrel{3,067}{2,404}$ | 2,413 | 2,473 | 2,452 | 2,974 2,426 | 3,133 2,245 | 3,144 3,290 | +.1 -1.1 | -5.4 |  |  |  |
| Reserve ratio-.-.-.-.----.-.-- per cent.- | 74.4 | 71.2 | 66.8 | 73.7 | 74.1 | 79.6 | 78.5 | +. 5 | $-5.6$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net demand deposits.-.-.-.-.mills. of dolls.-- | 13, 664 | 6,329 13,954 | 6,386 13,786 | 6,575 13,888 | 6,558 13,716 | 5, $\mathbf{1 2 , 8 7 9}$ | 5,662 12,904 | $-1.3$ | +15.8 +6.3 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| By New York F. R. member banks. mills. of dolls. | 3,372 | 3,511 | 3,718 | 3,816 | 3,722 | 2,732 | 2,813 | -2.5 | +32.3 |  |  |  |

${ }^{1}$ Revised.
Cumulative through Mar. 31.

TREND OF BUSINESS MOVEMENTS-Continued


[^9]TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through February. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  | 1928 |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DECREASE }(-) \end{aligned}$ |  | cumulative total from january i through febrevARY 28 |  | Per ct. <br> in- <br> crease <br> ( $)$ <br> or de- <br> crease <br> ( - <br> cumu- <br> cutive <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | October | Novem- ber | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | February | January | February | Feb., 1928, from Jan., 1928 | Feb, 1928,', from Feb, 1927 | 1927 | 1928 |  |
| BANKING AND FINANCE-Continued Stocks and Bonds |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 103 stocks, average | 130.15 | 142.63 | 144.26 | 142.13 | 139.30 | 115.29 | 119.69 | -2.0 | +16.4 |  |  |  |
| Southern cotton mill stocks $\qquad$ dolls. per share | 111.31 | 111.94 | 112.36 | 112.25 | 111.73 | 109.72 | 110.36 | -. 5 | +1.2 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Railroads (31).-.-.-...........rel. to 1917-21... | 157.6 | 158.6 | 160.6 | 158.2 | 153.7 | 136.9 | 142.1 | -2.8 | +8.2 |  |  |  |
|  | 197.6 | 202.1 | 208.7 | 210.4 | 207.6 | 160.2 | 163.0 | -1.3 | +27.4 |  |  |  |
| Automobile (10) --..-...-......-rel. to 1917-21.- | 355.8 | 353.5 | 366.5 | 369.8 | 372.9 | 226.6 | 233.4 | +.8 | +59.8 |  |  |  |
| Chain stores (11) -..........-rel. to 1917-21-- | 573.6 128.0 | 598.4 136.3 | 601.0 150.5 | 582.3 <br> 150.5 | 565.0 148.5 | 417.0 116.0 | 422.3 | $-3.0$ | +33.8 |  |  |  |
|  | 128.0 389.1 | 136.3 406.6 | 150.5 432.1 | 150.5 430.6 | 148.5 425.8 | 116.0 310.2 | 115.3 314.8 | $-1.3$ | +28.8 +35.3 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Petroleum (17) ......---...-.-rel. to 1917-21-- | 104.0 | 107.5 | 106.4 | 107.4 | 101.9 | 110.5 | 112.3 | -5.1 | -9.3 |  |  |  |
| Railroad equipment (10).---rel. to 1917-21.- | 203.8 | 207.9 | 218.4 | 231.6 | 225.3 | 176.3 | 185.2 | $-2.7$ | +21.7 |  |  |  |
| Steel (9) --...-.-............-rel. ro 1917-21.. | 153.1 | 152.0 | 159.3 | 159.1 | 154.5 | 123.6 | 125.3 | -2.9 | +23.3 |  |  |  |
| Textile (5) --.---.-.-.........rel. to 1917-21.- | 43.9 | 45.1 | 44.4 | 46.6 | 47.5 | 41.5 | 40.0 | +1.9 | +18.8 |  |  |  |
| Theater (3) ------.........rel. to 1917-21.. | 173.4 | 174.1 | 178.7 | 178.6 | 180.3 | 167.5 | $175.9{ }^{\circ}$ | +1.0 | +2.5 |  |  |  |
| Tire and rubber (7)..-.......rel. to 1917-21.. | 55.4 | 55.8 | 62.1 | 64.7 | 58.7 | 47.0 | 50.2 | -9.3 | +16.9 |  |  |  |
|  | 208.7 | ${ }_{224} 22.7$ | ${ }_{283.5}^{225.5}$ | 220.5 | 209.2 | 167.8 | 167.3 | $-5.1$ | +25.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total.........................thous. of dolls.- | 271, 299 | 281, 745 | 291, 834 | 290, 238 | 239, 255 | 351, 114 | 297, 693 | -17.6 | -19.6 | 649, 107 | 529, 493 | -18.4 |
| Bond prices:           <br> Highest-grade rails pet. of par, $4 \%$ bond 96.11 97.23 97.20 97.04 96.50 91.97 91.51 -.6 +5.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| Second-grade rails...p. ct. of par, $4 \%$ bond.- | 87.24 | 87.87 | 88.57 | 88.75 | 88.61 | 83.52 | 83.29 | -. 2 | $+6.4$ |  |  |  |
| Public utility .-....-p. ct. of par, $4 \%$ bond.- | 79.00 | 79. 14 | 79. 55 | 79.66 | 80.03 | 76. 66 | 76.32 | $+5$ | +4.9 |  |  |  |
| Industrial------- p.et. of par, $4 \%$ bond -- | 79.93 | 79. 86 | 80.82 | 81.28 | 81.33 | 79.51 | 79.32 | $+1$ | +2.5 |  |  |  |
| Comb, price index-.-p. ct. of par, $4 \%$ bond.- Bond prices, 1st of following month: | 85.05 | 85. 43 | 85.98 | 86.15 | 86.13 | 82.52 | 82.23 | 0 | +4.7 |  |  |  |
| B Liberty bonds...--........p. pt. of par.- | 103.92 | 106. 53 | 106.02 | 105. 94 | 105.96 | 103. 31 |  |  |  |  |  |  |
| 16 foreign government and |  |  |  |  |  |  |  |  |  |  |  |  |
| city---1--1.-- ct. of par-- | 104. 65 | 105. 46 | 105. 60 | 105.90 | 105. 92 | 105.23 | 104. 84 | 0 | $+1.0$ |  |  |  |
|  |  |  |  |  |  | 100. 38 | 100.27 | -. 2 | $+2.1$ |  |  |  |
|  |  |  |  |  |  | 4.42 | 4.41 |  |  |  |  |  |
| Industrials (15) .-......-....-.........-per cent. | 4.79 | 4. 79 | 4. 79 | 4.76 | 4.79 | 4.87 | 4.85 | +.6 | -1.2 |  |  |  |
| Utilities (15) -...-..--.-.-.-.-.-.-- per cent.- | 4.75 | 4. 76 | 4.72 | 4.68 | 4.65 | 4.81 | 4.82 | $-.6$ | -3.5 |  |  |  |
|  | 3.93 | 3.93 | 3.90 | 3. 89 | 3.89 | 4.04 | 4.04 | 0 | -3.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Purpose of issue <br> Finance construction...thous. of dolls. | 35,819 | 12,460 | 24,270 | 32,759 |  |  |  | -57.0 | -193 | 54, 210 |  |  |
| Real-estate mortgage..--thous. of dolls..- | 10, 523 | 5,241 | 11, 207 | 12,900 | 2,710 | 17,480 | 9,630 | -79.0 | -71.9 | 27, 110 | 15,610 | -13.6 -42.4 |
| Aequisitions and |  |  |  |  |  |  |  |  |  |  |  |  |
| improvements.........thous. of dolls.- | 525 | 1,850 | 5,115 | 6,533 | 12, 175 | 6,663 | 14,700 | +86.4 | -17.2 | 21,363 | 18,708 | -12.4 |
| Office and other |  |  |  |  |  |  |  |  |  |  |  |  |
| commercial....-......thous. of dolls.- | 21,980 | 9, 155 | 16,055 | 29,000 | 22,415 | 23,295 | 18,708 | -22.7 | +19.8 | 42, 003 | 51,415 | +22. |
| Hotels.................-thous. of dolls.- | 3,845 | 2,660 |  | +650 | 700 | 4,050 |  | +7.7 -55 | $-24.3$ | 4,975 | 1,350 | -72.9 |
| Apartments.---.....-. thous. of dolls-- | 11, 519 | 2,226 | 7,025 | 4,309 | 1,910 | 11,827 | 3,780 | -55.7 | -49.5 | 15,607 | 6,219 | $-60.2$ |
| Gold: GOLD AND SILVER |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic receipts at mint .....fine ounces.. | 97, 103 | 91, 840 | 75,575 | 73, 624 | 72,119 | 80,777 | 65, 999 | -2.0 | +9.3 | 146,776 | 145,743 | -. 7 |
| Rand output ---------- thous. of ounces-- | 856 | 848 | 851 | 8844 | 816 | 840 | 779 | $-3.3$ | +4.7 | 1,619 | 1,660 | +2. 5 |
|  | 2,056 | 2,082 | 10,431 | 38,320 | 14,686 | 59, 355 | 22, 309 | -61.7 | -34.2 | 81, 664 | 53,006 | -35. 1 |
|  | 10,698 | 55, 266 | ${ }^{3} 77,849$ | 52,086 | 25,776 | 14,890 | 2, 414 | -50.5 |  | 17,304 | 77, 862 | +350.0 |
| Silver: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada-.............thous. of fine oz... | 1,696 | 1,739 | 1,723 | ${ }^{3} 1,433$ | 1,192 | 1,459 | 1,733 | -16.8 | $-31.2$ | 3,192 | 2,625 | -17.8 |
| Mexico-..............-thous. of fine oz.- | 8,273 | ${ }^{1} 10,794$ | ${ }^{8} 9,000$ |  |  | 8, 559 | 6,930 |  |  |  |  |  |
| Stocks, end of monthUnited States thous of fine oz |  |  |  |  |  |  |  |  |  |  |  |  |
| United States <br> Canada $\qquad$ $\qquad$ thous. of fine oz thous. of fine oz.- | $\begin{aligned} & 178 \\ & 494 \end{aligned}$ | $\begin{aligned} & 136 \\ & 567 \end{aligned}$ | $\begin{aligned} & 353 \\ & 608 \end{aligned}$ | $\begin{array}{r} 574 \\ \mathbf{1}, 141 \end{array}$ | 170 | $\begin{array}{r} 700 \\ 1,300 \end{array}$ | $\begin{aligned} & 207 \\ & 391 \end{aligned}$ | -70.4 | -17.9 +39.9 |  |  |  |
|  | 5,069 | 5, 102 | 3,770 | 6,305 | 4,658 | 5,151 | 3, 849 | -26.1 | +21.0 | 9,000 | 10,963 | $+21.8$ |
| Exports .-...-....-.-.....thous. of dolls.- | 5,945 | 5,634 | 7,186 | 6,692 | 7,479 | 7,388 | 6,233 | +11.8 | +20.0 | 13, 621 | 14, 171 | +4.0 |
| Price at New York.......dolls. per fine oz.- | . 560 | . 575 | . 580 | . 571 | . 570 | . 558 | . 579 | $-.2$ | -1.6 |  |  |  |
| FOREIGN EXCHANGE RATES |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| France $\qquad$ <br> Italy $\qquad$ dolls. per franc.dolls. per lira- | .039 .055 | . 039 | . 039 | . 039 | . 039 | . 040 | . 039 | 0 | 0 +23.3 |  |  |  |
|  | . 139 | . 140 | .140 | . 139 | . 139 | . 139 | . 139 | 0 | +23.3 |  |  |  |
| Netherlands.............dolls. per guilder.- | . 402 | . 404 | . 404 | . 403 | . 403 | . 400 | . 400 | 0 | +. 8 |  |  |  |
| Sweden.-.-.-.-.-...........-dolls. per krone.- | . 269 | . 269 | . 270 | . 269 | . 268 | 267 | . 267 | -. 4 | +. 4 |  |  |  |
| Switzerland..----.-....-.- dolls. per franc.- | . 193 | . 193 | . 193 | . 193 | . 192 | 193 | . 192 | -. 5 | 0 |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


[^10]
# BUBLICATIONS OF THE DEPARTMENT OF COMMERCE 

## UOT THE CENSUS

dan of pablication arda distribution of census pubGress the Director of the Constis)
Bolles, 1926. Denominational bulles dontaining information concernimg their Afganization, and also the number and We value of church property, debt, etc. 4 Hhurch 12 pages, paper, price ' 56 .
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1925, Part I - This report contains leg and geveral tables for the deathHtinaqual United States, with suppleHawaii and the Virgin Islands. 466

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唯 may also be purchased from the buresu or to district offices)
Foteign Commerce of United States, and II. Part I contains statistics of Whandise, and imports by articles for 3. snd for 6 months ended December, TH coutains summaries of export and vorage import and export prices; sta-- $\mathrm{ram}_{\mathrm{H}} \mathrm{Hawail}$, and Porto Rico. Single TH, 1 , $5 \%$ Annual subscription, $\$ 1.25$.
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-qvelopments in 1927, by William $T$. Wrade commissioner. Trade Informa$14+29$ pages. This bulfetin shows the Herikan chemical industry, agreements Wother Earopean countries growth of在 $f$ of fertilizers, and new processes and
hation in Cuba, by Merwin L. Bohan, dine. Trade Information Bulletin No. 6, 10.
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# CHIEF FUNCTIONS OF THE DEPARTMENT OF COMMERCE 

HERBERT HOOVER, Secretary of Commerce

Walten F. Brown, Assistant Secretary of Commerce. Ephram F. Morgan, Solicitor

## AERONAUTICS BRANCH

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

## BUREAU OF THE CENSUS <br> Whinam M. Stevarty Director

Taking censuses of population, inmates of institutions, mines and quarries, forest products, and water transportation every 10 years, censuaes of agriculture and electrical public utilities every 5 years, and a census of manufactures every 2 years.
Compilation of statistics of wealth, public debt and taxation including financial statistics of local governments, every 10 years; annual compilation of financial statistics of State and munieipal governments.

Compilation of statistics of marriage, divorce, births, deaths, and penalinstitutions annually, and of death rates in cities and automobile accidents weekly.

Compilation quarterly or monthly of statistics on cotton, wool, tobaeco, leather, and other industries; publication in the Survey of Current Business of monthy commercial and industrial statistics.

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE <br> Julivs Klein, Director

The collection of timely information concerning world market conditions and openings for American products in foreign countries, through commercial attaches, trade commissioners, and consular officers, and its distribution through weekly Commerce Reports, bulletins, confidential circulars, the news and trado press, and district and cooperative offices in 65 cities.

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

The compilation and distribution of lists of possible buyers and agents for American products in all parts of the world and publication of weekly lists of specific sales opportunities abroad.
The publication of statistics on imports and exports.
The study of the processes of domestic trade and commerce.

## BUREAU OF STANDARDS

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

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

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

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

## bUREAU OF MINES <br> Scott Turner, Director

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

Testing of Government fuels and management of the Government Thel Yerd at Washington.

Research on helium and operation of plants prod Studies in the economics and marketing of mind lection of statistics on mineral resources and minget

The dissemination of results of technical researches in bulletins, technical papers, miner series, miners' circulars; and miscellaneous publices

## BUREAU OF FISHERIES <br> Henry O'Mallets Commissioner $^{\prime}$

The propagation and distribution of food fish in order to prevent the depletion of the fisheries; to promote conservation of fishery resources; ment of commercial fisheries and agriculture; sti methods, improvements in merchandising and fishery statistics; administration of Alaska fish seals; and the protection of sponge's off the coast

# BUREAU OF LIGHTHOUSE <br> Georae R. Putnam, Commissione 

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

Publication of Light Lista, Buoy Lists, and No ners, giving information regarding these aids to a

## COAST AND GEODETIC SUR

## E. Lester Jones, Director

Survey of the coasts of the United States and charte for the navigation of the adjacent wat Alaska, the Philippine Islands, Hawaii, Porto Hi Islands, and the Canal Zone; interior control netic surveys; tide and current observations; and investigations.

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

## BUREAU OF NAVIGATIO

Artiur J. Tyaer, Commissioner

Superintendence of commercial marine and mer
Supervision of registering, enrolling, licensin etc., of vessels under the United States flag, publication of a list of such vessels.

Enforcement of the navigation and steamp laws, including imposition of fees, fines, tomange

## STEAMBOAT INSPECTION SEF

Dickerson N. Hoover, Supervising Inspect
The inspection of merohant vessels, including and life-saving equipment, licensing of officers of fication of able seamen and lifeboat men, and th of violations of steamboat inspection laws.

## UNITED STATES PATENT OR

Thomas E. Robertson, Commission
The granting of patents and the registration of prints, and labels after technical examination an ceedings.

Maintenance of library with public search ro copies of foreign and United Stateb patents an Recording bills of sale, assignments, eto, relat and trade-marks. Furnishing copies of recorde patents.

Publication of the weekly Official Gazette, bh ente and trade-marks issued.

## RADIO DIVISION

## W. D. Ternell, Chief

Inspection of radio stations on ships; inspect tions on shore, including broadcasting stations operators; assigning station call letters; enforci the International Radiotelegraphic Conventiont and settling international radio accounts.


[^0]:    - Fluctuations between maximum and minimum due largely to seasonal conditions.

[^1]:    : Compiled by the Western Pine Manufacturers Association, the actual figures being prorated to computed totals through percentages of normal production. The normal monthly production covers 54 mills with output of $148,000,000$ board feet in earlier years, gradually reduced to 42 mills with normal output of $136,800,000$ feet in 1925 , and estimated to represent 70 per cent of the output of western pine territory through 1925 and thereafter 74 per cent, owing to the decrease in total number of mills in business and increase of reporting mills to 49 .
    ${ }_{2}$ Compiled from data furnished by the California Redwood Association from reports of 14 mills estimated to represent 73 per cent of the redwood output and prorated up to 100 per cent on this basis.
    ${ }^{3}$ Compiled from data furnished by the Southern Pine Association, the sctual figures being computed up to the totals for 192 mills with a normal production of $484,065,392$ feet, the monthly average for the first four months of 1916, by the same percentage as used for new orders each month. Beginning with January, 1928 , the figures are prorated on the proportion of the actual number of units reporting each month to the $2641 / 2$ units included in the compilation of 192 mills.

[^2]:    ${ }_{1}$ Compiled by the Department of Trade and Commerce, Dominion Bureau of Statistics, revising previous reports and covering all the large central electric stations in Canada, which in 1925 produced 98 per cent of all stations in Canada. These data do not include the output of pulp and paper mills and other plants generating electricity only for their own use

[^3]:    ${ }^{1}$ Compiled by the New York Coffee and Sugar Exchange. Brazilian figures cover the ports of Rio, Santos, Bahia, Victoria, and Paranagua, the figures for Victoria being added in September, 1925 and for Paranagua in November, 1927 , these two ports being of small importance in coffee movement prior to those dates. The world visible supply consists of stocks in Europe, United States, Brazil, and afloat, all of which are shown separately in the Exchange's monthly report. From August, 1917, through June, 1919, no figures on the world visible supply were compiled.
    ' Seven months' average.
    2' Seven months' average
    3 Six months' average.

[^4]:    *See table on p. 20 of the March, 1928, issue for earlier data.

[^5]:    *See table on p. 21 of the March, 1928, issue for earlier data.

    ## Revised.

[^6]:    * See p. 22 of this issue for previous data.

[^7]:    :Revised.

[^8]:    * See p. 23 of the February, 1928, issue for earlier data.

[^9]:    * See table on p. 23 of the February, 1928, issue for earlier data.

[^10]:    ${ }^{3}$ Revised.

