## UNITED STATES DEPARTMENT OF COMMERCE

# SURVEY OF CURRENT BUSINESS 

 TULX, 1928 No. 8 ?
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ment from one period to the next. Thus, if a selative number at one thoith is 120 and for a later month it is 144 there has been an increase of 20 per cent.

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## RATIO GHARTS

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## RECORD BOOK

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# UNITED STATES DEPARTMENT OF COMMERCE SURVEY OF CURRENT BUSINESS 



## BUREAU OF THE CENSUS

in cooperation with
BUREAU OF FOREIGN AND DOMESTIC COMMERCE AND BUREAU OF STANDARDS

## CONTENTS



## PRELIMINARY SUMMARY FOR JUNE

The volume of trade during the early weeks of June, as reflected by check payments, was greater than in the corresponding period of last year. The value of new building contracts awarded was also running higher than a year ago. Operations in steel plants, although slightly below the May level, were more active than in June, 1927. Factory employment in Detroit, largely indicative of conditions in the automobile industry, registered little change from May, but was considerably greater than a year ago. Loans and discounts of Federal reserve member banks receded from the high point reached during the preceding month, while interest rates on both time and call funds continued to rise, averaging higher also than a year ago.

The general level of wholesale prices showed but little change from May but was higher than a year ago. Prices for iron and steel continued to weaken, being lower also than in June a year earlier, while 111271-28-1
prices for copper and cotton averaged higher than in either period.

Stock prices receded substantially from the high record registered in May, while bond prices, reflecting higher interest rates, exhibited a further tendency to decline. Brokers' loans were substantially reduced during the month, following the decline in stock and bond prices. The Federal reserve ratio continued to decline, being lower also than in June of last year. Business failures were more numerous than in either the previous month or June a year ago.

The production of lumber was running smaller than in May, showing a decline also from last year, but production of bituminous coal, also declining from May, was on about the same level as in June, 1927. Car loadings of freight continued to record declines from the preceding year. Petroleum production was running lower than in either the previous month or June, 1927.

## MONTHLY BUSINESS INDICATORS, 1923-1928

Ratio cbarts-see explanations on inside front cover. The curves on check payments, wholesale trade, sales of mail-order houses and 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 |  |  |  |  | 1827 |  |  |  |  |  |  |  |  |  | 1928 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1923 | 1924 | 1925 | 1926 | 1927 | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nev. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
|  | 1923-1925 monthly average $=100$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrial production: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total manufacturing | 101. 0 | 94.0 | 105.0 | 108.0 | 106.0 | 110.0 | 109.0 | 111.0 | 108.0 | 106.0 | 107.0 | 105.0 | 102.0 | 98.0 | 99.0 | 107.0 | 111.0 | 110.0 | 110.0 | 110.0 |
| Total minerals. | 105.0 | 96.0 | 99.0 | 107.0 | 107.0 | 118.0 | 104.0 | 108.0 | 104.0 | 100.0 | 108.0 | 105.0 | 105.0 | 101.0 | 103.0 | 103. 0 | 103.0 | 105.0 | 103.0 | 104.0 |
| Pig iron | 111.7 | 88.7 | 101.5 | 109.0 | 101.0 | 118.6 | 114. 5 | 113.5 | 103.4 | 88.8 | 98.6 | 92.9 | 93.2 | 88.6 | 90.2 | 96.1 | 97.1 | 107.1 | 105.6 | 109.9 |
| Steel ingot | 104.8 | 88.7 | 106. 4 | 113.1 | 104.6 | 131.2 | 119.4 | 117.1 | 101.1 | 82.7 | 101. 2 | 91.6 | 85. 9 | 90.5 | 81.9 | 115.4 | 117.0 | 130.4 | 124.5 | 121.6 |
| Automobiles | 101.5 | 90.9 | 107.7 | 108.5 | 85.7 | 119.5 | 122.6 | 122.4 | 97.5 | 81.3 | 93.5 | 78.9 | 66.5 | 40.7 | 40.4 | 70.2 | 98.1 | 125.2 | 124.2 | 129.0 |
| Cement | 92.1 | 99.8 | 108.1 | 110.0 | 115.3 | 92.1 | 113.0 | 134.4 | 138.6 | 140.1 | 147.4 | 140.8 | 138. 2 | 116.3 | 96.5 | 78.6 | 70.8 | 82.3 | 108.4 | 139.0 |
| Lumber ( 5 species) | 98.6 | 96.2 | 105.2 | 101.5 | 94.9 | 91.6 | 91.0 | 101.9 | 93.9 | 96.5 | 107. 5 | 105.8 | 101.5 | 24.4 | 82.9 | 76.1 | 87.2 | 97.1 | 98.7 |  |
| Cotton (consumption) | 105.8 | 89.7 | 104.4 | 108. 5 | 120.3 | 135.3 | 120.6 | 123.3 | 129.1 | 110.8 | 123.4 | 122.2 | 119.4 | 121.9 | 105.9 | 113.5 | 111.8 | 113.3 | 102.3 | 112.6 |
| Wool (consumption). | 112.8 | 94.6 | 92.6 | 89.7 | 97.0 | 114.5 | 92.8 | 93.6 | 95.0 | 84.1 | 98. 1 | 101.6 | 103.7 | 07.8 | 88.0 | 95.2 | 102.0 | 93.7 | 82.0 | 92.7 |
| Raw material output: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crops. | 92.0 | 104. 0 | 104.0 | 109.0 | 113.0 | 89.0 | 62.0 | 62.0 | 60.0 | 65.0 | 115.0 | 183.0 | 219.0 | 166.0 | 120.0 | 98.0 | 81.0 | 77.0 | 81.0 | 70.0 |
| Forest product | 99.0 | 97.0 | 104. 0 | 98.0 | 93.9 | 94.0 | 93.0 | 99.0 | 96.0 | 89.0 | 99.0 | 98.0 | 96.0 | 93.0 | 86. | 81.0 | 87.0 | 97.0 | 96.0 | 100.0 |
| Crude petroleuin | 99.4 | 96.9 | 103.7 | [04. 6 | 121.4 | 122.7 | 118.2 | 124.2 | 121.4 | 127. f. | 127.1 | 1223 | 125.6 | 120.2 | 120. 7 | 117.8 | 110.9 | 122.2 | 117.5 | 122.5 |
| Bituminous coal | 108.0 | 92.5 | 99.5 | 109.7 | 99.4 | 138.1 | 79.6 | 81.2 | 84.1 | 77.2 | 95.7 | 96.2 | 101.0 | 93.3 | 94.8 | 101. 5 | 94.9 | 100.9 | 73.9 | 84.1 |
| Copper | 93.4 | 100.2 | 106. 4 | 110.2 | 104. 9 | 105.1 | 107.8 | 108.6 | 105. 4 | 99.4 | 102.0 | 100.0 | 108. 1 | 103.2 | 101.9 | 103.8 | 102. 2 | 106.6 | 105. 7 | 111.8 |
| Power and construction: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Electric power. | 92.5 | 98.1 | 109.5 | 122.6 | 133.3 | 136.4 | 129.3 | 131.6 | 129.5 | 129.2 | 133.5 | 131.7 | 138.2 | 137.1 | 143.88 | 144. 9 | 137.0 | 144.5 | 136.7 | 142.0 |
| Building contracts (37 St | 89.7 | 92.7 | 117.6 | 111.0 | 106. 8 | 132.4 | 126.0 | 111.6 | 118.6 | 102. 4 | 110.1 | 101.8 | 115.0 | 105. 2 | 95.2 | 96.0 | 103. 7 | 132.7 | 142.4 | 143.5 |
| Unfliled orders: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| General index. | 121.7 | 87.0 | 91.5 | S4. 8 | 74.0 | 81.2 | 77.2 | 74.3 | 72.2 | 72.1 | 71.5 | 69.8 | 67.0 | 67, 1 | 71.5 | 81.2 | 81.6 | 81.4 | 76.8 | 73.5 |
| U. S. Steel Corporation | 125.8 | 83.6 | 90.6 | 82.1 | 71.1 | 74.4 | 72.4 | 63.9 | 83.9 | 65. 8 | 68.9 | 65.9 | 70.0 | 72.4 | 83.2 | 89.5 | 92.1 | 90.8 | 81.1 | 71.8 |
| Stocks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * General index | 88.9 | 102.2 | 108. 6 | 129.5 | 139.6 | 136.1 | 129.1 | 134.6 | 132.8 | 141.4 | 152.7 | 145.8 | 140.1 | 140.9 | 139.3 | 137.0 | 144.4 | 137.1 | 133.4 | 139.4 |
| - Manfd. commodities | 88.6 | 104. 1 | 108.6 | 109.4 | 120.0 | 115.1 | 115.5 | 118.0 | 116.9 | 121. ${ }^{\text {a }}$ | 127.9 | 127.8 | 125. 2 | 120.9 | 116. 9 | 126.8 | 125.2 | 122.3 | 121.6 | 121.0 |
| Cotton. | 102.5 | 91.4 | 106. 2 | 145.5 | 153.2 | 172.1 | 148. 2 | 124.0 | 100.3 | 85.8 | 87.8 | 135.2 | 178.8 | 200.0 |  | 178.8 | 159.1 | 135. 7 | 117.8 | 96. |
| Copper (refive | 106. 4 | 113.9 | 73.1 | 64.8 | 85. 4 | 91.1 | 87.7 | 85.5 | 85.1 | 82. 2 | 82.7 | 78.4 | 74.1 | 80.3 | 84. 2 | 85.2 | 76.8 | 77.1 | 64.4 | 58.6 |
| Employment: <br> Factories | 106. 6 | 96. 3 | 67.2 | 98. | 94.3 | 97. 4 | 96. 6 | 95.6 | 95.0 | 93.1 | 98. 2 | 83.8 | 93.4 | 916 | 90.7 | 89.8 | 91.2 | 9 l .8 | 91.4 | 91.2 |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm products, to producer | 97.8 | 97.1 | 106.5 | 88. | 94,9 | 91.3 | 90.6 | 91.3 | 94.2 | 94.2 | 95.7 | 101.4 | 100.7 | 99.3 | 99.3 | 98.3 | 97.8 | 99.3 | 101.4 | 107.2 |
| Wholesale, all commodities | 99.7 | 97.2 | 102.6 | 99.1 | 05.4 | 93.7 | 92.9 | 92.9 | 93.0 | 93.3 | 04.4 | 95. 6 | 98.1 | 95.8 | 95.9 | 95.4 | 95.5 | 05.1 | 96.5 | 97.7 |
| Retail food. | 97.6 | 97.6 | 104.9 | 107.6 | 103. 6 | 102.9 | 102.9 | 1036 | 108.2 | 102.8 | 101.6 | 102.8 | 104.3 | 104.9 | 104. 2 | 103.6 | 101.3 | 101.2 | 101.6 | 102. 8 |
| Cost of living (including food | 98.1 | 99.9 | 102.3 | 102.3 | 99.9 | 99.9 | 99.9 | 99.8 | 100.5 | 98.7 | 98.7 | 99.3 | 99.8 | 99.0 | , | 99.2 | 98. 4 | 98.1 | 97.9 | 08.4 |
| Distribution (values) : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * Wholesale trade.. | 101.0 | 88.0 | 101.0 | 98.0 | 95.0 | 96.0 | 94.0 | 95.0 | 93.0 | 95.0 | 100.0 | 96. 0 | 91.0 | 95.0 | 93.0 | 95.1 | 97.0 | 92.8 | 89.2 | 96.2 |
| * Department stores, sa | 98.0 | 99. 0 | 103.0 | 1060 | 106.0 | 105. 0 | 105.0 | 103.0 | 104. 0 | 103. 0 | 111.0 | 109.0 | 105. 0 | 107. 0 | 111.0 | 105.0 | 105.0 | 105. 0 | 103.0 | 104. 0 |
| * Mail-order houses, sal | 92.0 | 98.0 | 110.0 | 115.0 | 120.0 | 117.0 | 113.0 | 118.0 | 121.0 | 127.0 | 133.0 | 122.0 | 117.0 | 119.0 | 128. 0 | 113.0 | 116.0 | 113.0 | 117.0 | 132.0 |
| * 10-cent chains, sale | 88.0 | 99.0 | 113.0 | 125. 0 | 138. 0 | 128.0 | 137.0 | 132.0 | 135. 0 | 139. 0 | 140.0 | 141.0 | 144.0 | 1400 | 147.0 | 140.0 | 142.0 | 142.0 | 147.0 | 144.0 |
| Imports. | 97.8 | 93.1 | 109.0 | 114.3 | 107.9 | 117.1 | 110.3 | 107.3 | 109.9 | 98.9 | 114. 2 | 105.9. | 110.1 | 108.6 | 102. 5 | 104.6 | 108. 7 | 117.8 | 167.2 | 109.9 |
| Exports | 91.5 | 100.8 | 107.8 | 105. 5 | 1068 | 107.7 | 109.4 | 103.5 | 94.0 | 90.1 | 98.7 | 112.0 | 128.7 | 121.4 | 107.4 | 108.2 | 97.8 | 110.8 | 95.9 | 111.4 |
| Transportation: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * Car loadings. | 99.8 | 97.6 | 102.8 | 106.8 | 104.0 | 135.3 | 86.1 | 108.8 | 102. 6 | 102. 7 | 103.3 | 103.3 | 101.3 | 95. 2 | 96.8 | 98.0 | 101. 8 | 129.0 | 83.0 | 106. 4 |
| Freight, net ton-miles. | 102.2 | 95.9. | 101.9 | 109.1 | 101.5 | 112.1 | 99.4 | 107.5 | 103.1 | 102.9 | 112.5 | 115.1 | 122.1 | 99.8 | 92.7 | 97.2 | 95. | 105.8 | 96.1 |  |
| Finance: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Member bank loans and discounts. | 94. 1 | 98.5 | 107. 4 | 112.9 | 117.3 | 114.6 | 114.6 | 116.7 | 117.5 | 115. 7 | 117.3 | 119.3 | 120.0 | 121. 4 | 123.2 | 121.9 | 120.9 | 123.3 | 127.3 | 126.9 |
| Interest rate (commercial paper).- | 115.9 | 90.8 | 93.4 | 98.5 | 93.1 | 92.8 | 95.2 | 95.9 | 95.9 | 94.5 | 90.6 | 89.9 | 922 | 91.0 | 92.2 | 90.1 | 93.6 | 97.3 | 100.1 | 105.7 |
| Federal reserve ratio. | 09.0 | 104.1 | 98.9 |  | 991 | 102.1 | 103.0 | 99.5 | 100.5 | 103. 2 | 101.4 | 88.8 | 96.4 | 92.2 | 86. 5 | 95.5 | 96.0 | 95.6 | 90.8 | 89.2 |
| Price, corporation bonds | 96.4 | 99.9 | 103.6 | 108.0 | 1125 | II. 2 | 111.8 | 112.1 | 11.2 | 17. 4 | 112.8 | 113.4 | 114.4 | 114.9 | 115.6 | 115.9 | 115.8 | 115.7 | 116.0 | 115.0 |
| Price, railroad stocks. | 86.0 | 96.1 | 117.9 | 133.4 | 162.7 | 152.4 | 158.3 | 162.4 | 165.3 | 167.3 | 167.8 | 17.5 | 163.5 | 171.6 | 171.1 | 169.1 | 184.7 | 170.1 | 176. | 178.9 |
| Price, industrial stocks | 86.1 | 81.9 | 122.0 | 132.4 | 171.4 | 150.8 | 159.8 | 167.6 | 168.8 | 177.3 | 183.7 | 193.9 | 186.4 | 190.0 | 193.7 | 193.5 | 191.2 | 204.8 | 210. | 213.2 |
| Failures (liabilities).. | 106.0 | 106.8 | 87.2 | 804 | 192 | 133 s 5 | 125. 4 | 89. I | 81.3 | 101.8 | 92.4 | 77.3 | 85.5 | 88.3 | 120. 4 | 112.3 | 106.3 | 129.3 | 82.5 | 85.2 |

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## BUSINESS CONDITIONS IN MAY

## PRODUCTION

Manufacturing output, after adjustments for seasonal conditions, showed no change from the preceding month but declined from May, 1927. Mineral output, however, although lower than a year ago, was somewhat high er han in April. Marketings of animal products in May, although higher than in the pr ceding month, were lower than a year ago. Crop marketings showed a decline from the preceding month and a gain over last year. The output of forest produ: s registered an increase over the previous month and over last year, as well.

## SALES

The index of unfilled orders for manufactured commodities declined from both the preceding month and May, 1927. As compared with April, unfilled orders for textiles and lumber showed gains, insufficient, however, to offset the decline in iron and steel. Contrasted with a year ago, the gain in iron and steel orders was insufficient to offset declines in textiles and lumber.

Wholesale trade was larger in May than in April, making an increase also over a year ago. As compared with a year ago, all lines of wholesale trade showed increases except dry goods and women's

PRODUCTION, STOCKS, AND UNFILLED ORDERS FOR MANUFACTURED COMMODITIES
1523-1925 monthiy average-100. Adjustment has been made for the seasonal movement of stocks and relative number of working days for production. Unfiled orders are principally those of iron, steel, building materials, and textiles. May, 1928, is latest month plotted]


## COMMODITY STOCKS

Stocks of commodities, after adjustments for seasonal variations, were larger at the end of May than at the end of either the preceding month or May of last year. The increase in the general index over the preceding month was solely due to larger holdings of raw foodstuffs, stocks of other raw materials and manufactured commodities showing declines from the preceding month. The increase over last year was due to larger stocks of both raw foodstuffs and manufactured commodities other than foodstuffs, declines being registered in stocks of manufactured foodstuffs.
clothing, which declined from 1927. Retail trade in May, as measured by department store sales, after adjustments for seasonal conditions, showed a gain over a year ago. Merchandise stocks held by department stores at the end of May, however, were also smaller than a year ago. Sales by mail-order houses and 10 -cent chain store systems showed gains over May, 1927, with a gain over April also by mail-order houses. Sales by grocery and drug chains showed larger business than a year ago, while cigar chains reported a decline. As compared with the preceding month, grocery and drug chains showed gains in May but shoe and candy chains showed smaller business.

## PRICES

The general index of wholesale prices registered an advance over both the preceding month and May of last year. Compared with April, all groups showed higher average prices except hides and leather and chemicals, which declined, and textiles and house furnishings, which showed no change. Contrasted with a year ago, all groups showed higher prices, except fuel and lighting and building materials, which declined, and metals, chemicals, and house furnishings, which showed no change. Classified by state of manufacture, all groups showed higher average prices than in either the previous month or May a year ago.

May, 1927. As compared with April, the declines in the number of employees in the textile, leather, and chemical industries were more than sufficient to offset increased employment in iron and steel, stone, clay and glass, tobacco, and vehicle factories. Contrasted with last year, employment was lower in all groups except vehicles. The greatest decline in factory employment from May, 1927, occurred in chemicals, stone, clay and glass, textiles, leather, and iron and steel factories. Factory pay-roll payments in May, although unchanged from the previous month, were also lower than a year ago. Smaller pay-roll payments than in April were registered in textile, leather, and

FACTORY EMPLOYMENT, BY GROUPS
[1923 monthly average $=100$. May, 1928, is latest month plotted]


The index of prices received by farmers for their produce also showed gains over both periods, all groups showing gains over both the previous month and May a year ago, except dairy and poultry products, which showed no change from the previous month. Retail food costs were higher than in April but lower than a year ago, while the general index of cost of living showed similar comparisons. As compared with a year ago, all items entering the cost of living index were lower except clothing and light, which showed no change, while as compared with the previous month, the general increase in the cost of living was solely due to higher food costs.

## EMPLOYMENT

The general index of factory employment in May was lower than in April, recording a decline also from

chemical factories, sufficient to offset increases in other groups. Contrasted with a year ago, all groups showed smaller pay-roll payments except paper and printing and vehicles, which showed no change.

Reports from the American Federation of Labor show 13 per cent of union members in representative cities out of employment in May, as compared with 16 per cent for April. Wages of common labor showed practically no change from the preceding month but were higher than a year ago. The number of applicants per job at employment agencies declined from the preceding month but were larger than in May of last year. Employment in anthracite mines was greater than in the preceding month but smaller than a year ago.

## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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


## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

Notr.-Prices to producer on farm products and market price of wool are from $C$. s. Department of Agriculture, Bureau of Agricultural Economics, nonferrous metals from the Engineering and Mining Journal-Press, exeept tin, which is from the American Mfetal Mfarket. All other prices are from U. S. Department of Labor, Bureau of Labor Statistics. So far as possible all quotations represent prices to producer or at milh.

| Commodrtes | Unit | acteal price(dollars) |  |  | 1026 average $=100$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\underset{1928}{\text { April, }_{1}}$ | $\begin{gathered} \text { May, } \\ 1928 \end{gathered}$ | $\underset{1927}{\mathrm{M}: \mathrm{y},}$ | $\underset{1928}{\text { March, }}$ | $\underset{1928}{\text { April, }}$ | $\begin{gathered} \text { May, } \\ 1928 \end{gathered}$ | $\begin{gathered} \text { Apriit, } \\ 1927 \end{gathered}$ | $\begin{gathered} \text { May, } \\ 1927 \end{gathered}$ |
| FAEM PRODUCTS-ATERAGE PRICE TO PRODUCEL |  |  |  |  |  |  |  |  |  |
| Wheat. | Bushel | 1. 292 | 1. 443 | 1. 232 | 90 | 96 | 107 | 87 | 91 |
| Corn | Bushel.... | . 919 | 1. 025 | . 730 | 123 | 132 | 147 | 94 | 104 |
| Potatoes | Bushel. | 1. 168 | 1.033 | 1.460 | 61 | ${ }^{63}$ | 56 | 68 | 79 |
| Cotton-.- | Pound..... | . 188 | . 201 | . 3339 | 118 | 124 | 133 | 82 | 92 |
| Cottonseed | Ton-..-...- | 39. ${ }^{30} 0892$ | 43.00 | 23.60 0717 | 139 136 | 145 <br> 138 <br> 1 | 1158 | ${ }^{95}$ | 96 |
| Hogs | Pound.--- | . 0775 | . 0882 | .0941 | $\stackrel{1}{3}$ | 66 | 75 | 88 | 80 |
| Lambs. | Pound...... | . 1273 | . 1303 | . 1192 | 106 | 110 | 113 | 104 | 103 |
| FARM PRODUCTS-MARKET PRICE |  |  |  |  |  |  |  |  |  |
| Wheat, No. 1, northern spring (Minneapolis) | Bushel...- | 1. 417 | 1. 502 | 1.444 | 85 | 92 | 97 | 87 | 93 |
| Wheat, No. 2, red, winter (Chicago) | Bushel.... | 1. 812 | 1.898 | 1.443 | 105 | 118 | 123 | 87 | 94 |
| Corn, contract grade No. 2, cash (Chicago) | Bushel...-. | 1. 033 | 1.072 | . 874 | 131 | 136 | 141 | 97 | 11.5 |
| Oats, contract grades, cash (Chicago) | Bushel....- | . 649 | . 692 | . 508 | 141 | 150 | 161 | 111 | 118 |
| Barley, feeding (Chicago) | Bushel....- | 1. 011 | 1. 041 | . 896 | 143 | 146 | 150 | 119 | 129 |
| Rye, No. 2, cash (Chicago)-...........-.-.-....... | Bushel.... | 1. 2685 | 1. 362 | 1. 134 | 126 | 133 | 143 | 108 | 119 |
| Tobacco, leal, average sales, warehouse (Kentueky) | Cwt Pound | 12.735 . 203 | 11.643 | 6. 259 | 147 | 150 116 | 137 | 77 84 | 74 93 |
| Cotton, middling upland (New York) ................................. | Pound.... | . 203 | . 215 | . 163 | 111 | 116 | 124 | 84 | 83 |
| Cattle, steers, good to choice, corn fed (Chicago)...................... | Cwt | 13.340 | 13. 181 | 11. 440 | 144 | 140 | 138 | 129 | 12. |
| Hogs, heavy (Cbicago).........--........-.... | Cwt-....... | 9.085 | 9.613 | 9.445 | 63 | 74 | 78 | 85 | 77 |
| Sheep, ewes (Chicago)- | Cwt | 8.900 | 7.313 | 5.900 | 128 | 135 | 111 | 118 | 90 |
| Sheep, lambs (Chicago). | Cwt. | 15.975 | 15. 188 | 14.850 | 112 | 117 | 111 | 115 | 108 |
| FOOD |  |  |  |  |  |  |  |  |  |
| Flour, standard patents (Minneapolis) | Barrel | 8.113 | 8. 490 | 7.830 | 90 | 96 | 101 | 86 | 93 |
| Flour, winter straights (Kansas City) | Barrel | 7.556 | 7. 631 | c. 963 | 95 | 104 | 105 | 91 | 96 |
| Sugar, $96^{\circ}$ centrifugal (New York)- | Pound. | . 045 | . 045 | . 048 | 104 | 103 | 104 | 111 | 111 |
| Sugar, granulated, in barrels (Now York) | Pound....- | 058 | . 059 | . 050 | 104 | 106 | 107 | 106 | 110 |
| Cottonseed oil, prime yellow (New York) -..... | Pound..... | 009 | ${ }^{106}$ | . 091 | 81 | 84 | 89 | 104 | 104 |
| Beef, (rash, carcass, good native steers (Chicago) | Pound....- | 220 | . 2291 | . 1780 | 325 130 | 1122 | 122 134 | 104 | 1104 |
| Pork, smoked hams (Chicago) - .i. | Pound...- | 201 | .206 | . 259 | 67 | 65 | 67 | 87 | 84 |
| Butter, creamery, 92 score (New York) | Pound. | 45 | . 45 | . 43 | 109 | 100 | 100 | 111 | 96 |
| Oleoraargarine, standard, uncolored (Chicago) | Pound. | . 215 | . 215 | . 215 | 103 | 94 | 94 | 94 | 94 |
| TEXTILES |  |  |  |  |  |  |  |  |  |
| Cotton yarns, carded, white, northern, mule spun, 22-1 cones (Boston) | Pound....- | . 360 | . 380 | . 335 | 102 | 102 | 106 | 87 | 94 |
| Cotton-print cloth, $64 \times 60-381 / 2^{\prime \prime}-5.35-\mathrm{yards}$ to pound.-.............. | Yard....... | . 076 | . 079 | . 071 | 101 | 101 | 105 | 90 | 94 |
| Cotton sheeting, brown $4 / 4$ Trion (New York) -- | Yard....... | . 091 | . 092 | . 082 | 99 | 97 | 99 | 87 | 88 |
| Worsted yarns, $2 / 32$ 's cross-bred stock, white, in skein (Boston) | Pound. | 1. 50 | 1. 575 | 1. 325 | 106 | 108 | 110 | 94 | 92 |
| Woman's dress goods, French, 39 inches at mills, serge. | Yard... | 1. 025 | 1. 025 | . 975 | 99 | 99 | 99 | 94 | 94 |
| Suitings, unfinished worsted-13-ounce. mill | Yard. | 2. 008 | 2. 008 | 1.913 | 100 | 100 | 100 | 95 | 95 |
| Suitings, serge, 11 -ounce, $56-58$ inch. | Yard | 2. 095 | 2.095 | 2.048 | 97 | 97 | 97 | 95 | 95 |
| Silk, Japan, 13-15.-.......... | Pound --- | 5. 350 | 4.998 | 5.831 | 84 | 87 | 81 | 99 | 94 |
| Hosiery, women's, pure silk, mill. | Dozen pair | 10. 290 | 10. 290 | 11.27) | 85 | 85 | 85 | 93 | 93 |
| LEATHER |  |  |  |  |  |  |  |  |  |
| Hides, green salted, packers' heavy native steers (Chicago). | Pound | . 236 | . 246 | . 168 | 169 | 183 | 175 | 108 | 129 |
| Hides, caliskins, No. 1 , country, 8 to 15 pounds (Chicago). | Pound.--- | . 295 | . 295 | . 1787 | 155 | 170 | 170 | 92 | 102 |
| Leather, chrome calf, dull or bright "B" grades (Boston).. | Square foot | -600 | . 60 | . 430 | 132 | 132 | 132 | 102 | 106 |
| Leather, sole, oak, scoured backs, hesvy (Boston)........- | Pound..... | - 650 | . 670 | . 450 | 148 | 149 | 153 | 98 | 103 |
| Boots and shoes, men's black calf, blucher (Massachusetts) Boots and shoes, men's dress welt tan calf (St. Louis). | Psir-......- | e. 750 5.000 | 6. 750 | 6. 400 | 106 | 106 | 106 | 100 | 100 |
| Boots and shoes, men's dress welt tan call (St. Louis) .-.......-------- | Pair | 5.000 | 5. 000 | 4.850 | 102 | 102 | 102 | 99 | 99 |
| FUEL |  |  |  |  |  |  |  |  |  |
| Coal, bituminous, mine-run (composite price) -- | Net ton... | 4. 016 | 3. 986 | 4. 234 | 94 | 93 | 92 | 99 | 99 |
| Coal, bituminous, prepared sizes (composite price) | Net ton.... | 4. 249 | 4. 288 | $4.76 \%$ | 92 | 89 | 89 | 98 | 98 |
| Cosi, anthracite, chestnut (composite price) .-..--.......-.........-- | Long ton--- | 12. 794 | 12.786 | 12.871 | 96 | 93 | 93 | 94 | 94 |
| Coke, Connellscille (range of prompt and future) furnace-at ovens. | Short ton-- | 2. 744 | 2. 685 | 2. 249 | ${ }^{6}$ | 67 | 66 | 85 | 72 |
| Petroleum, crude, Kansas-Okiahoma-at wells.......................... | Barrel....-- | 1. 190 | 1. 190 | 1. 15 | 63 | 63 | 63 | 59 | 61 |
| metals |  |  |  |  |  |  |  |  |  |
| Pig iron, foundry No. 2, northern (Pittsburgh) | Long ton.. | 19.010 ${ }^{\text {- }}$ | 18.980 | 20.269 | 92 | 92 | 92 | 98 | 98 |
| Pig iron, basic, valley furnace- | Long ton... | 17. 000 | 16. 300 | 18. 200 | 92 | 92 | 88 | 102 | 98 |
| Steel billets, Bessemer (Pittsburgh) | Long ton.- | 33. 000 | 33.000 | 33.000 | 94 | 94 | 94 | 95 | 94 |
| Copper ingots, eiectrolytic, early delivery (New York) | Pound...- | . 1399 | . 1420 | . 1262 | 100 | 101 | 103 | 93 | 91 |
| Brass, sheets, mill------.... | Pound...- | . 188 | . 189 | . 180 | 99 | 99 | 100 | 96 | 95 |
| Lead, pig, desilverized, for early delivery (New York) | Pound..... | . 0610 | . 0912 | . 0665 | 71 | 72 | 73 | 85 | 79 |
|  | Pound.... | . 5236 | . 5154 | . fif | 80 | 80 | 79 | 104 | 103 |
| Zinc, slab, western (St. Louis) | Pound...- | . 0576 | . 0603 | . 0608 | 77 | 78 | 82 | 83 | 83 |
| bUILDING MATERIAL AND MISCELLANEOUS |  |  |  |  |  |  |  |  |  |
| Lumber, pine, southern, yellow flooring, mill --.... | M feet..... | 35. 74 | 35. 88 | 39. 32 | 79 | 79 | 80 | 88 | 87 |
| Brick, common red, domestic building (New York) -...-...-...-....- | Thousand.- | 13. 50 | 13.50 | 15.50) | 81 | 82 | 82 | 100 | 4 |
| Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district) | Barrel...-.- | 1. 600 | 1. 600 | 1.900 | 97 | 97 | 97 | 97 | 97 |
| Steel beams, mill (Pittsburgh). | Cwt.-...- | 1. 900 | 1.875 | 1.990 | 97 | 97 | 96 | 97 | 97 |
| Rubber, Para Island, fine (New York).................................. | Pound..... | . 183 | 165 | . 300 | 54 | 48 | 43 | 72 | 79 |
|  | Ton- | 15. 500 | 15. 500 | 15.500 | 107 | 107 | 107 | 103 | 103 |
| Wood pulp, sulphite, domestic, unbleached, news grade (New York) -- | Cwt....... | ${ }_{2}^{2.525}$ | 2. $E 25$ | 2. 639 | 88 | 88 | 88 | 96 | 92 |
|  | 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
[Relative numbers, monthly average, 1923-1925, taken as 100]


## REVIEW BY PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

## TEXTILES

Receipts of wool at Boston were larger in May than in either the preceding month or the same month of last year, with imports making similar comparisons with both prior periods. Consumption of raw wool by textile mills showed a large increase over the previous month but was lower than a year ago. Machinery activity in woolen mills was correspondingly higher than in the preceding month and lower than a year ago.

Receipts of cotton into sight were larger than a year ago. Exports of raw cotton, although greater than in the previous month, were smaller than last year.
off. Unfilled orders at the end of May were lower than at the end of the previous month, but stocks of cotton textiles were larger. Prices of cotton yarns and fabrics averaged higher than in either the previous month or May of last year.

Reports from cotton finishers showed larger orders and shipments than in the previous month but both items showed declines from a year ago. Operating activity of cotton finishers was lower than in either the previous month or May of last year. Stocks of finished goods, although greater than a year ago, were lower than at the end of April. Unfilled orders on the books of cotton finishers at the end of May were

THE TEXTILE INDUSTRIES
[Relative numbers, monthly average 1923-1925, taken as 100 . Where available. May, 1928, is latest month plotted]


Cotton consumption by textile mills was larger than in the previous month but smaller than a year ago, while for the first five months cotton consumption showed a decrease of almost 10 per cent from the same period of last year. Stocks of cotton held by mills and warehouses at the end of May were considerably smaller than a year ago. Prices for cotton, both to the producer and at wholesale, averaged higher than in either prior comparative period.

Cotton machinery, reduced to a ratio capacity, was more active than in April but showed lower activity than a year ago. Production and shipments of cotton textiles were larger than in April, but new orders fell
lower than at the end of either the previous month or the same month of 1927.
Silk imports in May were considerably larger than in either the preceding month or May of last year, while for the first five months the total importation also recorded an advance over the same period of 1927. Deliveries of silk to consuming establishments also showed gains over both periods as well as in the cumulative total for the first five months of the year. Stocks of silk were generally higher than a year ago. Silk prices were likewise lower, showing a decline also from April. Imports of rayon, although larger than in the previous month, were substantially lower than a year ago.

## METALS

Consumption of iron ore in May, although greater than in the preceding month, was smaller than a year ago. More pig-iron furnaces were in blast than at the end of April but a decline was registered from last year. The output of pig iron was larger than in April but smaller than in May of last year, the first five months of the year also recording a decline from 1927. Wholesale prices for iron averaged lower than in either the preceding month or May a year ago.

The production of steel ingots, although lower than in April, was greater than a year ago, both for May

Production and exports of copper were larger than in either the preceding month or May of last year. Stocks of refined copper in North and South America were considerably lower than in either the preceding month or May a year ago. Wholesale prices for copper continued to average higher than in either prior period.

Imports of tin, although lower than in the preceding month, were greater than a year ago. For the first five months of the year tin imports showed a gain of 18 per cent over last year. Deliveries of tin declined from both the preceding month and May a year ago,

and for the first five months of the year. Unfilled orders for steel at the end of May were lower than at the end of April but larger than a year ago. The production of steel sheets by independent manufacturers showed gains over both periods although the ratio to capacity declined. Stocks of steel sheets were higher than at the end of April but lower than a year ago.

Production and new orders for steel castings showed gains over both the preceding month and May of last year, but for the first five months of the year were smaller than a year ago. New orders for fabricated structural steel showed gains over both periods, and also in the five-month total
the total for first five months showing practically no change from last year. World stocks of tin at the end of May were greater than a year ago. Tin prices averaged lower than in either the previous month or May of last year.

Fewer zinc retorts were in operation at the end of May than at either the end of the previous month or May a year ago. Zinc production, although lower than in April, was higher than a year ago. For the first five months of the year zinc production was slightly lower than for the same period of last year. Zinc stocks at the end of the month were larger than at the end of sither prior period. Prices for zinc averaged higher than in April but wara slightly bolow a vear ago.

The production of lead, although greater than in April, was lower than a year ago. Lead prices, averaging higher than in April, were lower than in May of last year.

## FUELS

The output of bituminous coal was larger than in either the previous month or May of last year. Prices for bituminous at the mines averaged lower than in either the previous month or the same month of 1927. The production of anthracite coal was likewise larger than in either the preceding month or May of last year, but the total for the first five months was lower than in the same period of 1927. The price for anthracite at wholesale was slightly lower than in either the preceding month or May of last year. The

## HIDES AND LEATHER

Imports of hides and skins were larger than in either the preceding month or May of last year, while the output of hides, as reflected by the slaughter of cattle, although greater than in April, was lower than a year ago. The production of sole leather gained in May over both prior periods. Exports of sole leather, although smaller than in April, were greater than in May of last year. Exports of upper leather showed gains over both periods, while prices for leather continued to average higher than in either the preceding month or May a year ago. The production of shoes was larger than in April. Exports of shoes increased over April but were considerable smaller than a year ago. Prices for shoes, unchanged from

## THE FUEL INDUSTRIES


production of coke, although greater than in April, showed little change from a year ago. Coke prices averaged lower than in either prior period.

## AUTOMOBILES

The production of automobiles in May was larger than in either the previous month or May of last year, the total for the first five months also showing a gain over the same period of 1927. Exports of automobiles, although greater than in April, were smaller than a year ago, but the total for the first five months showed a gain over last year. Shipments of accessories and parts, both as original equipment and for replacements, showed gains over both prior periods, while the production of automobile rims, although smaller than in April, was larger than a year ago.

April, were generally higher than in May of last year.

## PAPER AND PRINTING

Imports of chemical wood pulp increased over April but were smaller than a year ago. The output of newsprint paper showed a gain over the previous month but a decline from last year, with a corresponding decrease in the five-months' total. Imports of newsprint showed gains over both periods. Production of newsprint in Canada increased over both the previous month and May of last year, with a corresponding gain over a year ago for the first five months. Stocks of newsprint held at both domestic and Canadian mills at the end of the month were considerably larger than a year ago.

## BUILDING AND CONSTRUCTION

Contracts awarded for building construction, measured both in value and in floor space, showed gains over both the preceding month and May, 1927. Measured in floor space, gains were registered over last year in all groups except industrial buildings and certain public and semipublic structures. Building costs in May showed relatively little change from the previous month but were generally lower than a year ago. Fire losses in the United States and Canada,

## STONE AND CLAY PRODUCTS

Production and shipments of face brick averaged higher than in April and shipments were higher also than a year ago. Stocks of face brick were lower than in April but slightly higher than last year. Unfilled orders were lower than at the end of either prior period. Prices for common brick, showing no change from the previous month, were lower than a year ago. New orders for porcelain plumbing fixtures were smaller than in April. New orders for terra cotta

THE BUILDING-MATERIAL INDUSTRIES
[Relative numbers, monthly average 1923-1925 taken as 100]

although smaller than in April, were considerably larger than a year ago.

## LUMBER AND LUMBER PRODUCTS

The production of lumber was generally lower than a year ago, most of the principal species showing declines. As compared with April, the output of southern pine gained, while Douglas-fir production declined. Shipments of both Douglas fir and southern pine were larger than in either the previous month or May of last year. Lumber prices were somewhat stronger than in April but averaged lower than a year ago. Production and shipments of maple flooring were lower than a year ago, while for oak flooring these items showed gains over the same period. Stocks of flooring, both species, were larger than a year ago.
were likewise smaller than April but in tonnage were higher than a year ago. New orders for vitreous china plumbing fixtures were lower than in either the previous month or May of last year, but for the first five months showed a considerable gain. The production and shipments of Portland cement showed gains over both the previous month and May, 1927, while the output of polished plate glass made similar comparisons.

## CHEMICALS

Imports of potash and nitrate of soda, although smaller than in April, were considerably larger than a a year ago. Exports of sulphuric acid declined from both periods but exports of fertilizer increased. The consumption of fertilizer in Southern States was greater than a year ago, the gain over the first five
months of 1927 amounting to more than 20 per cent. Exports of coal-tar dyes increased over April but declined from a year ago. Chemical prices showed practically no change from either period, while prices for oils and fats, averaging higher than in April, were lower than a year ago.

## FOODSTUFFS AND TOBACCO

The visible supply of wheat at the end of May was considerably larger than a year ago. Receipts and shipments were larger than in either the previous month or May of last year and prices averaged higher than in either period. The visible supply of corn showed a substantial decline from a year ago, while receipts and shipments increased. Corn prices aver-
but inspected slaughter was greater than in either the previous month or May of last year. Storage of lamb and mutton was greater than a year ago, while prices for sheep and lamb, averaging lower than in April, were higher than May of last year.

The factory output of butter was smaller than a year ago, while receipts, although larger than in April, were likewise smaller than last year. Storage holdings of creamery butter were considerably smaller than a year ago. The wholesale price of butter, showing no change from the previous month, averaged higher than a year ago. The production of cheese was smaller than in May of last year. Wholesale prices of cheese showed no change. Receipts of eggs, although higher than in April, were somewhat lower

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

aged higher than in either period. Total grain exports, although higher than in April, were considerably lower than a year ago.

Cattle receipts and slaughter declined from a year ago. Exports of beef products were lower than a year ago, but higher than in April, while storage holdings showed a considerable decline from both periods. Wholesale prices of cattle and beef were generally higher than in either the previous month or May a year ago. Receipts of hogs were higher than last year, while inspected slaughter, although higher than in April, was lower than a year ago. Storage of pork products was considerably larger than last year. Prices for hogs and pork products were higher than in April, although pork products were lower than last year. Receipts of sheep were lower than a year ago,

than a year ago, while storage holdings were also lower than last year.

Sugar imports were lower than in either the previous month or May of last year. Refinery stocks of raw sugar gained over both periods. Prices of sugar showed no change from April but were generally lower than a year ago.

Consumption of cigarettes in May was larger than a year ago. Cigarette exports in May were smaller than in either the previous month or May of last year, but for the first five months were more than 30 per cent larger than a year ago. Sales of tobacco at loose-leaf warehouses were considerably smaller in either the previous month or a year ago, while prices, although lower than in April, were considerably higher than a year ago.

## TRANSPORTATION

Freight-car loadings were lower than in May, 1927, all groups showing a decline from a year ago except grain and grain products and miscellaneous. More surplus freight cars were available at the end of May than a year ago. Clearances of vessels engaged in foreign trade showed a tonnage gain over the previous month but a decline from a year ago. Merchandise warehouse space at the end of April was 70 per cent filled, showing no change from the condition at the end of the previous month.

Interest rates on all types of money averaged higher than in either the previous month or May of last year. Loans to brokers and dealers continued to increase, while dividend and interest payments scheduled for June were greater than in either the previous month or June a year ago. Business failures showed smaller liabilities than a year ago but more firms failed than in May of 1927. New sales of ordinary life insurance gained over both the previous month and May of last year.

## WHOLESALE TRADE



DISTRIBUTION
Newspaper advertising showed declines from both the previous month and May of last year. Magazine advertising, declining from the previous month, was greater than a year ago. Postal receipts were greater than in either the previous month or the same month of 1927. Sales of mail-order houses and 10 -cent chain-store systems showed gains over a year ago.

## BANKING AND FINANCE

The volume of check payments, both in and outside of New York City, showed gains over both the preceding month and a year ago. Loans and discounts of Federal reserve member banks, declining from the previous month, were higher than a year ago. Rediscounts by Federal reserve banks continued to show gains over both periods. The reserve ratio at he end of May was lower than at the end of either the previous month or May, 1927.

## GOLD, SILVER, FOREIGN EXCHANGE, AND TRADE

Gold receipts at the mint were larger in May than in either the previous month or May, 1927. Imports of gold declined from both periods. Gold exports, although smaller than in April, were considerably greater than a year ago. The monetary stock of gold at the end of May declined from both prior periods. Silver production, although greater than in April, was smaller than a year ago. Stocks of silver in the United States were considerably smaller than a year ago. Silver prices at New York averaged higher than in either the previous month or May of last year.

Exchange on the principal foreign countries showed little change from the previous month but, as compared with a year ago, most currencies were higher, the principal exceptions being the Japanese yen, and the Canadian dollar. Imports and exports of merchandise into the United States showed larger values than in either the previous month or May, 1927.

## INDEXES OF BUSINESS

The index numbers presented in this table are designed to show the trend in production, prices, trade, etc., by commodities or groups. They consist in general of weighted combinations of series of individual relative numbers; often the individual relative numbers are also given. The function of index and relative numbers is explained on the inside front cover. All of the index numbers 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 , thus eliminating the abnormal period prior to 1923 . The data covering mineral and manufacturing production are those compiled by the Federal Reserve Board and are here substituted for those previously given. The complete series on these two indexes as well as for animal and crop marketings and the output of forest products are given on pp. 18 to 22 , inclusive, of this issue.


* Fluctuations between maximum and minimum due largely to seasonal conditions.

INDEXES OF BUSINESS-Continued


[^1]INDEXES OF BUSINESS-Continued

$\dagger$ See table on p. 23 of June issue for earlier data.
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## OUTPUT OF FOREST PRODUCTS

（Relative to 1923－1925 monthly average as 100）

| Monti | 䂞 | 年 | $\begin{aligned} & \text { E } \\ & 0 \\ & E \\ & E \\ & E \\ & E \end{aligned}$ |  |  | 震 | $\begin{aligned} & \text { 呂 } \\ & \text { 品 } \end{aligned}$ | $\begin{aligned} & \text { F } \\ & \stackrel{\rightharpoonup}{E} \\ & \text { en } \\ & \text { E } \end{aligned}$ |  |  | $\begin{aligned} & \text { T } \\ & \stackrel{7}{6} \\ & \text { Ein } \end{aligned}$ |  | $\begin{aligned} & \text { 흘 } \\ & \text { 最 } \\ & \text { 总 } \end{aligned}$ |  |  |  | $\begin{aligned} & \text { 台 } \\ & \text { 葿 } \end{aligned}$ | $\begin{aligned} & \vec{\theta} \\ & E \\ & E \\ & E \\ & e \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1920 |  |  |  |  | 1922 |  |  |  |  | 1924 |  |  |  |  | 1926 |  |  |  |  |
| January．． | 78 | 77 | 103 | 43 | 113 | 75 | 74 | 86 | 48 | 70 | 92 | 89 | 133 | 56 | 112 | 91 | 90 | 111 | 33 | 110 |
| February | 80 | 79 | ${ }^{91}$ | 24 | 108 | 72 | ${ }^{73}$ | 70 | 28 | 70 | 95 | 96 | 97 | 39 | 104 | 96 | 99 | 90 | 27 | 102 |
| March．． | 91 | 89 | 118 | 12 | 118 | 83 | 83 | 101 | 32 | 82 | 99 | 101 | 97 | 26 | 112 | 106 | 109 | 101 | 18 | 111 |
| April． | 93 | 91 | 125 | 29 | 116 | 84 | 84 | 99 | 57 | 62 | 108 | 104 | 151 | 61 | 106 | 103 | 103 | 119 | 44 | 113 |
| May．． | 90 | 87 | 121 | 80 | 109 | 100 | 99 | 108 | 105 | 63 | 107 | 105 | 127 | 128 | 96 | 108 | 106 | 121 | 102 | 103 |
| June．．． | 90 | 87 | 103 | 112 | 115 | 100 | 100 | 101 | 115 | 70 | 97 | 96 | 106 | 135 | 76 | 103 | 103 | 92 | 156 | 89 |
| July | 82 | 80 | 93 | 135 | 118 | 92 | 93 | 81 | 115 | 80 | 88 | 89 | 70 | 157 | 66 | 96 | 97 | 67 | 161 | 86 |
| August． | 85 | 85 | 75 | 123 | 135 | 102 | 103 | 92 | 123 | 84 | 100 | 101 | 83 | 145 | 67 | 97 | 100 | 54 | 153 | 94 |
| September． | 83 | 82 | 78 | 114 | 113 | 96 | 98 | 84 | 112 | 84 | 97 | 97 | 89 | 127 | 72 | 98 | 99 | 75 | 132 | 93 |
| October－ | 81 | 78 | 101 | 97 | 105 | 97 | 98 | 87 | 97 | 106 | 101 | 100 | 112 | 100 | 83 | 97 | 98 | 82 | 124 | 105 |
| November | 71 | 68 | 94 | 91 | 100 | 96 | 94 | 101 | 109 | 136 | 93 | 92 | 106 | 106 | 79 | 92 | 91 | 99 | 109 | 105 |
| December | 55 | 52 | 75 | 82 | 90 | 80 | 78 | 83 | 109 | 146 | 88 | 86 | 101 | 116 | 84 | 85 | 84 | 90 | 124 | 105 |
| Monthly average． | 82 | 80 | 98 | 79 | 112 | 90 | 90 | 91 | 88 | 88 | 97 | 96 | 106 | 100 | 88 | 98 | 98 | 92 | 99 |  |
|  | 1921 |  |  |  |  | 1923 |  |  |  |  | 1925 |  |  |  |  | 1927 |  |  |  |  |
| January | 50 | 49 |  | 37 | 79 | 89 | 89 | 91 | 58 | 148 | 97 | 98 | 98 |  | 101 | 82 | 83 | 72 | 42 | 114 |
| February | 56 | 58 | 48 | ${ }^{25}$ | 70 | 80 | 80 | 84 | 38 | 121 | 93 | 96 | 82 | 40 | 89 | 87 | 88 | 83 | 33 | 98 |
| March． | ${ }^{67}$ | ${ }^{69}$ | 64 | 25 | 68 | 101 | 102 | 100 | 37 | 130 | 105 | 105 | 114 | 40 | 98 | 94 | 95 | 100 | 32 | 108 |
| April．－． | 70 | 70 | 83 | 42 | 42 | 100 | 100 | 103 | 67 | 118 | 108 | 106 | 141 | 63 | 101 | 93 | 90 | 119 | 74 | 99 |
| May． | 76 | 77 | 69 | 80 | 35 | 110 | 109 | 119 | 123 | 126 | 108 | 107 | 120 | 123 | 98 | 99 | 97 | 117 | 113 | 91 |
| June．－ | 75 | 77 | 53 | 106 | 32 | 108 | 109 | 99 | 138 | 120 | 108 | 109 | 93 | 149 | 89 | 96 | 96 | 88 | 133 | 92 |
| July．． | 70 | 71 | 47 | 116 | 24 | 98 | 100 | 65 | 147 | 109 | 101 | 102 | 85 | 155 | 94 | 89 | 91 | 64 | 124 | 90 |
| August． | 75 | 76 | 58 | 112 | 25 | 109 | 111 | 78 | 159 | 105 | 108 | 111 | 66 | 137 | 93 | 99 | 102 | 63 | 119 | 116 |
| September． | 72 | 73 | 62 | 102 | 33 | 100 | 103 | 69 | 130 | 92 | 109 | 111 | 78 | 128 | 93 | 98 | 99 | 84 | 124 | 113 |
| October－ | 76 | 75 | 80 | 86 | 45 | 107 | 108 | 99 | 127 | 104 | 112 | 112 | 109 | 106 | 94 | 96 | 94 | 100 | 117 | 104 |
| November． | 78 | 76 | 94 | 98 | 60 | 101 | 101 | 99 | 109 | 114 | 100 | 98 | 115 | 77 | 104 | 93 | 91 | 111 | 109 | 100 |
| December． | 73 | 70 | 93 | 107 | 68 | 87 | 84 | 115 | 120 | 96 | 97 | 96 | 111 | 90 | 109 | 86 | 83 | 111 | 98 | 95 |
| Monthly average | 70 | 70 | 68 | 78 | 49 | 99 | 100 | 93 | 104 | 115 | 104 | 104 | 101 | 96 | 97 | 93 | 93 | 93 | 93 | 102 |

## REVISED INDEXES OF OUTPUT OF FOREST PRODUCTS AND MARKETINGS OF CROPS AND ANIMALS

## （1923－1925 monthly average $=100$ ）

There are presented herewith revised indexes of the output of forest products and the marketings of crops and animal products，revisions having been made in the weightings and base period．For both the weightings and base period the aver－ age for the years 1923－1925，inclusive，has been taken．

## FOREST PRODUCTS

For forest products the same items and sources have been used as in the original index，the index being constructed in the same manner．（See issue for August，1922．）The com－ modities for which monthly data are available constitute about 40 per cent of the estimated timber cut from the forests each year and represent about 80 per cent of the value of forest products marketed for manufacturing purposes．The revised weightings for forest products follow：

| ITEM USED | weight |
| :---: | :---: |
| Logs used for lumber and lath． | 88 |
| Pulp wood－－．．．． | 9 |
| Hardwoods in distilation． | ${ }_{1}$ |
| Total． | 100 |

For crops the same items and sources have been used as in the original index．（See issue for July，1922．）The commodities
for which monthly data are available and which are included in the index represent approximately 87 per cent of the total sales value of all crops．The old index was weighted by the values of crops grown as adduced from census returns covering 1919，while the revised index is weighted by the average farm income from sales for the years 1923 to 1925 ，inclusive，as computed by the Department of Agriculture．The revised weightings for crop marketings follow：



## ANIMAL MARKETINGS

For animals a change has been made in the items included, especially as respects the substitution of butter receipts for receipts of milk at New York, the entire weight for dairy products being assigned to butter receipts. Except as noted below, the index is constructed in the same manner as the old index. (See issue for June, 1922.) As in the case of crop marketings, the revised index of animal marketings is weighted by the average farm income derived from sales by farmers during the years 1923 to 1925 , inclusive. The old index was given by commodities, while the revised index is shown by major groups.

The revised weightings for animal products follow:

| ttem used | weiget |
| :---: | :---: |
| Livestock | 22 |
| Dairy products. | 15 |
| Poultry and eggs. | 5 |
| Fish... | 1 |
| Total | 44 |

COLD-STORAGE HOLDINGS, TOTAL FISH, 15TH OF MONTH ${ }^{*}$

| [Thousands of pounds] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Month | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1024 | 1925 | 1926 | 1927 | 1928 |
| January. |  | 32, 235 | 51, 116 | 80, 684 | 61, 510 | 53, 851 | 48,320 | 40, 033 | 52, 627 | 55, 308 | 48,181 | 58,655 | 53, 921 |
| February |  | 14,727 | 35, 907 | 67, 617 | 47,904 | 42, 117 | 37,742 | 27, 070 | 40, 421 | 44, 034 | 37,378 | 48, 684 | 44, 872 |
| March |  | 13, 374 | 28, 457 | 50, 036 | 29, 958 | 33, 404 | 25, 474 | 16, 724 | 29,571 | 29, 865 | 24, 894 | 34, 887 | 34, 528 |
| April |  | 9,516 | 26,548 | 37, 111 | 20,633 | 28,444 | 17,485 | 10,590 | 21, 489 | 22,442 | 16, 154 | 24,731 | 26,473 |
| May |  | 14,040 | 31,403 | 37, 174 | 19,804 | 26, 346 | 17,074 | 12,312 | 21, 840 | 23,749 | 21, 540 | 29,782 | 26, 358 |
| June |  | 27,791 | 50, 298 | 48, 840 | 27,779 | 32,311 | 20, 818 | 17,780 | 27, 115 | 31, 980 | 31,346 | 36, 696 |  |
| July |  | 38, 431 | 64, 865 | 59, 674 | 36, 618 | 40, 160 | 25, 621 | 27, 237 | 36, 036 | 40,458 | 45,606 | 42,118 |  |
| August |  | 44, 025 | 82, 555 | 65, 145 | 47, 140 | 47,431 | 32, 227 | 39, 101 | 49,026 | 47,474 | 57,627 | 54, 061 |  |
| September |  | 47, 198 | 89, 204 | 69, 581 | 56, 296 | 54, 469 | 41, 139 | 53, 220 | 56, 607 | 55, 447 | 64, 657 | 60, 330 |  |
| October. | 37, 753 | 60,677 | 93, 812 | 76, 763 | 64,731 | 58,899 | 54, 755 | 62, 616 | 67,025 | 58,358 | 70, 310 | 65, 960 |  |
| November. | 44, 703 | 70,939 | 99, 632 | 78,769 | 67, 549 | 61, 228 | 54,503 | 63,458 | 70,406 | 61,849 | 75, 035 | 66, 790 |  |
| December | 42,784 | 69,987 | 96, 600 | 74, 202 | 65,841 | 59, 126 | 48, 689 | 64, 290 | 68,325 | 58,048 | 69, 854 | 64,787 |  |
| Monthly average |  | 36, 912 | 62, 533 | 62, 133 | 45, 480 | 44,816 | 35, 321 | 36. 203 | 45, 041 | 44, 084 | 46, 882 | 48, 957 |  |

1 Compiled by the U. S. Department of Commerce, Bureau of Fisheries, representing total fish stocks, including fish frozen when imported, at principal warehouses on the 15 th of the month.

COLD-STORAGE HOLDINGS, TOTAL MEATS, INCLUDING LARD, END OF MONTH ${ }^{1}$
[Thousands of pounds]

| Month | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 961,658 | 1,177,275 | 1,590, 665 | 1, 284, 179 | 1,059, 607 | 685, 480 | 932,517 | 1, 041, 903 | 1, 132, 699 | 760,289 | 820,139 |
| February | 1, 002,119 | 1,330,909 | 1,561,788 | 1, 390, 704 | 1, 255, 723 | 741, 850 | 1, 017, 009 | 1, 131, 426 | 1, 251, 548 | 821,853 | 900,101 |
| March | 917, 169 | 1,444, 815 | 1,501, 233 | 1, 437, 135 | 1,236, 320 | 803,448 | 1, 098,551 | 1, 193, 583 | 1,192, 275 | 846, 171 | 971,565 |
| April.- | 889,591 | 1,422, 701 | 1, 444, 852 | 1, 394, 327 | 1,194,980 | 808, 942 | 1, 179, 016 | 1, 165,952 | 1,150,999 | 812, 708 | 993, 134 |
| May. | 904, 232 | 1, 405,973 | 1, 366, 864 | 1, 361, 035 | 1, 199, 201 | 868, 820 | 1,129, 754 | 1, 156, 237 | 1, 043,314 | 783, 605 | 1, 012,427 |
| June | 973,795 | 1, 257, 248 | 1, 346, 589 | 1, 387, 780 | 1,193, 703 | 970,943 | 1, 164, 647 | 1,157, 522 | 1, 024,249 | 826,247 | 1, 100, 477 |
| July. | 1,005, 721 | 1,238, 912 | 1, 271, 859 | 1, 306, 613 | 1, 093,896 | 931, 608 | 1, 126, 733 | 1, 080,261 | 1936,349 | 901, 159 | 1, 123, 747 |
| August | 880, 291 | 1,140, 529 | 1, 149, 221 | 1, 147, 999 | 926, 867 | 846, 866 | 983, 876 | 950, 327 | 809, 639 | 876, 502 | 1, 034,057 |
| September | 702,731 | 995, 724 | 1,060, 715 | 893, 035 | 692,570 | 664,526 | 796, 067 | 756, 635 | 633, 385 | 724, 528 | 822,973 |
| October- | 624, 340 | 958,354 | 946, 755 | 717, 624 | 539,498 | 549, 146 | 663, 803 | 567, 466 | 523,731 | 594, 580 | 635, 349 |
| Noveniber | 753, 410 | 1,019,742 | 914, 248 | 692, 319 | 546, 660 | 601,671 | 774,820 | 634, 058 | 544, 265 | 578,075 | 587,338 |
| December | 1, 035,917 | 1,303, 566 | 1,078, 172 | 879,564 | 614, 144 | 803, 297 | 949,582 | 946, 801 | 658, 209 | 692, 024 | 721,055 |
| Monthly avera | 887, 581 | 1,224,646 | 1,269, 413 | 1, 157,693 | 962, $7 ¢ 4$ | 773, 050 | 984, 698 | 981, 848 | 908, 389 | 768, 145 | 893, 530 |

${ }^{1}$ Compiled by the $U$. S. Department of Agriculture, Bureau of Agricultural Economics, representirg total meats and lard held in cold-storage warehouses and meatpacking establishments at the end of each month. It should be noted that these holdings are distinctly seasonal.

## MARKETINGS OF CROPS AND ANIMAL PRODUCTS

(Relative to 1923-1925 monthly average as 100)


INDEX OF INDUSTRIAL PRODUCTION ${ }^{1}$
［Adjusted for seasonal variations，except where otherwise noted．1923－1925 average＝100］

| Year and Month | TOTAL INDUS－ TRIAL |  | MANUFACTURES |  |  |  |  |  |  |  |  |  |  |  |  |  | MINERALS |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Un． ad－ just－ ed | $\begin{array}{\|c} \text { Ad- } \\ \text { just- } \\ \text { ed } \end{array}$ | $\xrightarrow[\left.\begin{array}{c}\text { Un－} \\ \begin{array}{c}\text { ad－} \\ \text { just－} \\ \text { ed }\end{array} \\ \hline\end{array} \right\rvert\,]{ }$ | $\begin{aligned} & \text { tal } \\ & \text { Ad- } \\ & \begin{array}{c} \text { just- } \\ \text { ed } \end{array} \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \text { 苞 } \\ & \text { 蓉 } \\ & \text { E } \end{aligned}$ | Food products | $\begin{gathered} \text { Paper an } d \\ \text { printing } \end{gathered}$ | $\begin{aligned} & \text { E } \\ & \text { E } \\ & \text { E } \end{aligned}$ |  |  |  |  |  | Rubber tires |  | $\left\lvert\, \begin{gathered} \text { To } \\ \hline \text { Un- } \\ \text { ad- } \\ \text { just- } \\ \text { ed } \end{gathered}\right.$ | $\frac{\text { tal }}{}$ | $\underset{\text { coal }}{\text { Bitumincus }}$ |  |  |  | $\begin{aligned} & \stackrel{.}{\otimes} \\ & \stackrel{\rightharpoonup}{\theta} \\ & \hline 8 \end{aligned}$ | 込 | 䔍 | 気 |
| 1919 monthly av |  | 83 |  | 84 | 82 | 92 | 93 | 76 | 79 | 53 | 104 | 53 | 67 | 54 |  | 83 |  | 77 | 88 | 109 | 52 | 88 | 77 |  |  |  |
| 1920 monthly av |  | 87 |  | 86 | 99 | 84 | 84 | 86 | 79 | 55 | 95 | 68 | 78 | 63 |  | 86 |  | 89 | 108 | 110 | 61 | 114 | 80 | 87 |  |  |
| 1921 monthly av |  | 67 |  | 66 | 46 | 88 | 84 | 66 | 68 | 41 | 91 | 62 | 39 | 64 | 55 | 85 |  | 70 | 79 | 112 | 64 | 40 | 30 | 39 | 66 | 84 |
| 1922 monthly ar |  | 85 |  | 87 | 83 | 99 | 94 | 85 | 89 | 66 | 103 | 78 | 69 | 74 | 78 | 88 |  | 74 | 80 | 69 | 76 | 80 | 63 | 68 | 77 | 87 |
| 1923 monthly av． |  | 101 |  | 101 | 106 | 105 | 100 | 95 | 99 | 103 | 110 | 95 | 94 | 86 | 85 | 96 |  | 105 | 109 | 115 | 100 | 114 | 93 | 96 | 88 | 103 |
| 1924 monthly av． |  | 95 |  | 94 | 88 | 90 | 102 | 99 | 98 | 91 | 93 | 95 | 99 | 98 | 99 | 99 |  | 06 | 92 | 109 | 97 | 79 | 100 | 97 | 102 | 100 |
| 1925 monthly av． |  | 104 |  | 105 | 106 | 104 | 98 | 106 | 105 | 107 | 97 | 110 | 107 | 115 | 116 | $10 \bar{\square}$ |  | 99 | 99 | 77 | 103 | 102 | 107 | 107 | 111 | 98 |
| 1926 monthly av． |  | 108 |  | 108 | 113 | 104 | 98 | 114 | 100 | 109 | 98 | 112 | 112 | 125 | 116 | 112 |  | 107 | 110 | 104 | 105 | 112 | 110 | 116 | 116 | 96 |
| 1927 monthly av． |  | 106 |  | 106 | 104 | 114 | 97 | 112 | 94 | 86 | 103 | 109 | 109 | 136 | 121 | 117 |  | 107 | 98 | 100 | 122 | 93 | 105 | 111 | 112 | 93 |
| 1919 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January． | 81 | 83 | 82 | 84 | 100 | 76 | 93 | 70 | 68 | 57 | 108 | 34 | 78 | 48 |  | 75 | 74 | 78 | 88 | 118 | 51 |  | 96 |  |  |  |
| February | 78 | 80 | 81 | 81 | 96 | 70 | 92 | 70 | 75 | 51 | 99 | 37 | 71 | 50 |  | 79 | 63 | 69 | 78 | 91 | 49 |  | 84 |  |  |  |
| March | 76 | 77 | 78 | 78 | 85 | 71 | 90 | 68 | 77 | 48 | 96 | 40 | 60 | 49 |  | 87 | 61 | 68 | 82 | 79 | 50 |  | 69 |  |  |  |
| April． | 78 | 78 | 80 | 79 | 74 | 83 | 95 | 69 | 78 | 45 | 101 | 45 | 60 | 53 |  | 73 | 65 | 73 | 87 | 107 | 48 | －－－－ | 69 |  |  |  |
| May | 80 | 77 | 80 | 78 | 65 | 92 | 97 | 69 | 77 | 40 | 106 | 53 | 50 | 56 |  | 72 | 75 | 75 | 92 | 106 | 47 | 99 | 64 |  |  |  |
| June | 84 | 83 | 85 | 84 | 81 | 96 | 92 | 75 | 79 | 40 | 102 | 56 | 53 | 55 |  | 74 | 82 | 78 | 94 | 106 | 51 | 98 | 67 |  |  |  |
| July | 87 | 87 | 87 | 88 | 91 | 101 | 92 | 79 | 79 | 47 | 100 | 60 | 56 | 54 |  | 75 | 88 | 82 | 101 | 111 | 54 | 100 | 73 |  |  |  |
| August | 89 | 89 | 90 | 90 | 98 | 98 | 90 | 80 | 81 | 48 | 105 | 64 | 67 | 55 |  | 81 | 83 | 79 | 97 | 116 | 54 | 53 | 76 |  |  |  |
| September | 89 | 87 | 89 | 87 | 77 | 103 | 96 | 79 | 83 | 53 | 106 | 67 | 75 | 56 |  | 84 | 94 | 85 | 107 | 111 | 55 | 98 | 81 |  |  |  |
| October－．． | 88 | 86 | 87 | 85 | 67 | 106 | 93 | 81 | 85 | 63 | 103 | 66 | 72 | 58 |  | 89 | 96 | 88 | 115 | 119 | 53 | 85 | 80 |  |  |  |
| November | 86 | 85 | 90 | 89 | 74 | 108 | 91 | 83 | 84 | 68 | 109 | 66 | 80 | 57 |  | 101 | 63 | 61 | 41 | 121 | 54 | 80 | 85 |  |  |  |
| December． | 81 | 85 | 82 | 87 | 75 | 104 | 89 | 84 | 78 | 72 | 109 | 51 | 79 | 55 |  | 104 | 70 | 74 | 80 | 118 | 55 | －．．－－ | 75 |  |  | －－－ |
| Tanuary 1920 | 92 | 95 | 94 | 96 | 96 | 104 | 98 | 88 | 87 | 86 | 113 | 82 | 85 | 54 |  | 100 | 82 | 85 | 104 | 111 | 57 |  | 87 | 88 |  |  |
| February | 93 | 95 | 96 | 97 | 102 | 105 | 89 | 87 | 91 | 79 | 107 | 81 | 83 | 55 |  | 92 | 78 | 84 | 100 | 110 | 57 |  | 86 | 94 |  |  |
| March． | 93 | 94 | 95 | 95 | 101 | 102 | 87 | 88 | 88 | 68 | 105 | 75 | 83 | 58 |  | 100 | 80 | 89 | 110 | 118 | 59 |  | 82 | 97 |  |  |
| April． | 87 | 88 | 89 | 89 | 88 | 103 | 80 | 90 | 87 | 52 | 105 | 66 | 81 | 58 |  | 93 | 73 | 83 | 103 | 98 | 59 |  | 81 | 96 |  |  |
| May | 92 | 90 | 93 | 91 | 100 | 96 | 88 | 90 | 78 | 56 | 120 | 65 | 78 | 60 |  | 93 | 86 | 85 | 100 | 118 | 58 | 108 | 80 | 95 |  |  |
| June | 92 | 90 | 91 | 90 | 106 | 84 | 88 | 89 | 79 | 56 | 116 | 64 | 83 | 65 |  | 87 | 95 | 90 | 110 | 116 | 59 | 109 | 82 | 83 |  |  |
| July | 87 | 88 | 86 | 88 | 103 | 79 | 84 | 92 | 74 | 57 | 106 | 62 | 83 | 64 |  | 77 | 94 | 89 | 107 | 116 | 60 | 106 | 80 | 89 |  |  |
| August | 89 | 88 | 88 | 88 | 108 | 78 | 82 | 88 | 76 | 53 | 93 | 62 | 81 | 68 |  | 81 | 98 | 92 | 111 | 117 | 62 | 111 | 83 | 88 |  |  |
| September | 88 | 85 | 87 | 85 | 107 | 76 | 78 | 88 | 75 | 50 | 79 | 60 | 75 | 70 |  | 81 | 94 | 85 | 111 | 70 | 62 | 107 | 79 | 87 |  |  |
| October－ | 85 | 82 | 83 | 80 | 101 | 68 | 74 | 85 | 75 | 40 | 68 | 65 | 70 | 70 |  | 81 | 100 | 91 | 111 | 114 | 63 | 127 | 74 | 78 |  |  |
| November | 78 | 75 | 74 | 72 | 89 | 58 | 81 | 78 | 69 | 34 | 62 | 65 | 70 | 70 | 21 | 77 | 97 | 92 | 110 | 113 | 65 | 130 | 78 | 73 |  |  |
| December． | 68 | 70 | 65 | 67 | 83 | 50 | 75 | 74 | 61 | 35 | 67 | 64 | 62 | 70 | 16 | 70 | 87 | 91 | 114 | 120 | 65 | ．．．． | 70 | 59 |  |  |
| January 1921 | 66 | 67 | 64 | 65 | 71 | 64 | 77 | 67 | 54 | 25 | 70 | 46 | 59 | 69 | 22 | 81 | 77 | 80 | 89 | 117 | 64 |  | 65 | 53 | 77 | 94 |
| February | 65 | 66 | 64 | 64 | 61 | 70 | 80 | 68 | 62 | 31 | 72 | 45 | 53 | 64 | 24 | 91 | 72 | 77 | 77 | 130 | 64 |  | 61 | 40 | 73 | 107 |
| March | 64 | 65 | 63 | 63 | 47 | 79 | 83 | 66 | 64 | 41 | 74 | 51 | 52 | 61 | 30 | 89 | 67 | 74 | 72 | 114 | 67 |  | 64 | 32 | 60 | 111 |
| April．－ | 64 | 65 | 64 | 63 | 39 | 85 | 85 | 63 | 64 | 47 | 81 | 60 | 43 | 65 | 45 | 86 | 66 | 73 | 75 | 124 | 66 |  | 38 | 35 | 58 | 83 |
| May． | 67 | 66 | 66 | 65 | 42 | 87 | 82 | 61 | 69 | 46 | 91 | 63 | 31 | 63 | 58 | 83 | 73 | 74 | 89 | 115 | 66 | 40 | 18 | 38 | 57 | 77 |
| June． | 66 | 65 | 65 | 64 | 35 | 92 | 83 | 60 | 67 | 41 | 101 | 67 | 29 | 63 | 66 | 82 | 73 | 71 | 83 | 114 | 65 | 42 | 15 | 44 | 54 | 76 |
| July | 64 | 64 | 63 | 64 | 30 | 92 | 86 | 60 | 69 | 45 | 108 | 69 | 27 | 60 | 8.5 | 82 | 70 | 67 | 75 | 108 | 64 | 46 | 14 | 34 | 55 | 76 |
| August． | 67 | 66 | 66 | 66 | 39 | 91 | 91 | 62 | 66 | 45 | 98 | 71 | 31 | 61 | 86 | 89 | 71 | 69 | 76 | 106 | 65 | 50 | 16 | 34 | 65 | 71 |
| September | 69 | 67 | 68 | 67 | 40 | 98 | 87 | 67 | 66 | 47 | 96 | 68 | 34 | 62 | 64 | 88 | 72 | 68 | 76 | 110 | 60 | 47 | 17 | 34 | 64 | 79 |
| October． | 73 | 71 | 72 | 71 | 51 | 97 | 89 | 72 | 72 | 46 | 97 | 71 | 34 | 65 | 65 | 90 | 78 | 73 | 93 | 110 | 57 | 46 | 18 | 32 | 74 | 86 |
| November | 72 | 71 | 72 | 72 | 53 | 99 | 83 | 74 | 77 | 43 | 97 | 68 | 39 | 65 | 58 | 85 | 71 | 67 | 77 | 107 | 64 | 10 | 17 | 47 | 77 | 74 |
| December． | 66 | 70 | 66 | 70 | 49 | 97 | 82 | 76 | 83 | 36 | 102 | 63 | 39 | 65 | 60 | 74 | 64 | 67 | 68 | 91 | 70 | －． | 14 | 46 | 79 | 76 |
| January 1922 | 72 | 73 | 72 | 73 | 53 | 97 | 85 | 75 | 85 | 44 | 101 | 56 | 46 | 65 | 63 | 79 | 73 | 76 | 84 | 100 | 72 |  | 19 | 48 | 78 | 76 |
| February | 76 | 76 | 76 | 75 | 62 | 93 | 91 | 77 | 81 | 46 | 98 | 55 | 51 | 65 | 63 | 78 | 81 | 87 | 104 | 115 | 74 |  | 30 | 50 | 79 | 76 |
| March． | 81 | 80 | 80 | 78. | 72 | 94 | 90 | 80 | 78 | 48 | 97 | 70 | 57 | 68 | 68 | 80 | 88 | 97 | 120 | 134 | 77 |  | 45 | 53 | 71 | 76 |
| April | 78 | 77 | 83 | 81 | 83 | 88 | 89 | 80 | 81 | 56 | 99 | 75 | 62 | 69 | 69 | 83 | 48 | 53 | 46 | 0 | 74 | －－．．－ | 57 | 54 | 73 | 77 |
| May | 82 | 81 | 88 | 86 | 90 | 94 | 94 | 85 | 87 | 60 | 97 | 80 | 64 | 73 | 72 | 86 | 53 | 53 | 51 | 0 | 73 | 24 | 68 | 57 | 71 | 77 |
| June | 87 | 86 | 91 | 90 | 93 | 97 | 97 | 86 | 93 | 70 | 99 | 84 | 71 | 76 | 81 | 92 | 63 | 58 | 55 | 1 | 73 | 78 | 71 | 65 | 70 | 90 |
| July | 84 | 86 | 88 | 89 | 94 | 96 | 97 | 87 | 92 | 70 | 100 | 83 | 74 | 80 | 83 | 93 | 61 | 56 | 43 | 2 | 75 | 102 | 72 | 71 | 72 | 84 |
| August | 83 | 84 | 86 | 87 | 76 | 101 | 99 | 89 | 92 | 74 | 99 | 78 | 74 | 77 | 81 | 102 | 68 | 62 | 57 | 2 | 74 | 104 | 75 | 72 | 78 | 99 |
| September | 89 | 88 | 89 | 89 | 83 | 102 | 94 | 91 | 92 | 68 | 105 | 84 | 77 | 78 | 83 | 97 | 88 | 82 | 93 | 75 | 74 | 82 | 76 | 78 | 80 | 99 |
| October．．． | 96 | 94 | 96 | 94 | 95 | 106 | 95 | 90 | 94 | 76 | 108 | 92 | 80 | 78 | 88 | 86 | 98 | 91 | 97 | 126 | 76 | 87 | 77 | 89 | 82 | 94 |
| November | 99 | 97 | 99 | 98 | 96 | 112 | 101 | 91 | 95 | 87 | 114 | 91 | 83 | 81 | 92 | 92 | 98 | 94 | 99 | 132 | 80 | 84 | 79 | 89 | 87 | 96 |
| December． | 95 | 100 | 95 | 100 | 101 | 112 | 101 | 93 | 96 | 93 | 115 | 93 | 83 | 81 | 92 | 91 | 94 | 99 | 107 | 134 | 84 | ．．．．． | 81 | 90 | 85 | 98 |

1 Compiled by the Federal Reserve Board，Division of Research and Statistics，from 60 individual series of data representing the production of about 35 industries and estimated to represent，directly and indirectly，about 80 per cent of the total industrial production of the United States．The figures are reduced to average daily output to make figures for each month comparable．In addition，the figures are also corrected for seasonal variation，except the unadjusted total，which is presented to show the
actual output on a daily average basis independent of seasonal conditions．Complete description of this index，which is being substituted for the indexes of manufactures and minerals previously published，was presented in the Federal Reserve Bulletin for February，1927，and March， 1927. Figures for 1928 are shown on page 15.

INDEX OF INDUSTRIAL PRODUCTION ${ }^{1}$－Continued
［Adjusted for seasonal variations，except where otherwise noted．1923－1925 average $=100$ ］

| Year and Month | $\begin{aligned} & \text { TOTAL } \\ & \text { INDUS } \\ & \text { TRIAL } \end{aligned}$ |  | manufactures |  |  |  |  |  |  |  |  |  |  |  |  |  | MINERALS |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\left\lvert\, \begin{gathered} \text { und } \\ \text { ad } \\ \text { just- } \\ \text { ed } \end{gathered}\right.$ | $\left.\begin{array}{\|l\|} \text { Ads- } \\ \text { just- } \\ \text { ed } \end{array} \right\rvert\,$ | $\left\lvert\, \begin{gathered} \text { Tot } \\ \hline \left.\begin{array}{c} \text { Un- } \\ \text { adst } \\ \text { just } \\ \text { ed } \end{array} \right\rvert\, \end{gathered}\right.$ | $\begin{aligned} & \text { tal } \\ & \hline \begin{array}{l} \text { Add } \\ \text { just. } \\ \text { ed } \end{array}, \end{aligned}$ |  | 苞 |  | 河 |  |  |  |  |  |  |  |  |  | tal |  |  |  |  | $\begin{aligned} & \text { 发 } \\ & \stackrel{8}{8} \end{aligned}$ | 共 | 淢 | 菏 |
| January 1923 | 101 | $\begin{aligned} & 100 \\ & 100 \\ & 103 \\ & 107 \end{aligned}$ | $\begin{gathered} 99 \\ 102 \\ 106 \\ 109 \end{gathered}$ | $\left.\begin{gathered} 100 \\ 100 \\ 100 \\ 106 \\ 106 \end{gathered} \right\rvert\,$ | $\begin{aligned} & 104 \\ & 105 \\ & 105 \end{aligned}$ |  | $\begin{gathered} 92 \\ 95 \\ 105 \\ 106 \end{gathered}$ | $\begin{aligned} & 93 \\ & 94 \\ & 93 \end{aligned}$ | $\begin{aligned} & 98 \\ & 90 \\ & 97 \end{aligned}$ | $\begin{aligned} & 94 \\ & 94 \\ & 97 \end{aligned}$ |  |  |  | $\begin{aligned} & 84 \\ & 84 \\ & 84 \\ & 86 \end{aligned}$ |  |  |  |  |  |  |  |  | 8482888788 |  | 83 100 <br> 84  <br> 91 93 <br> 93 111 <br>  123 |  |
| ${ }_{\text {Febranary }}$ |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|l} 112 \\ 113 \\ 117 \end{array}$ | $\begin{gathered} 103 \\ 93 \\ 97 \\ 95 \end{gathered}$ | $\begin{aligned} & 87 \\ & 87 \\ & 93 \\ & 93 \\ & 93 \end{aligned}$ |  | $\begin{gathered} 94 \\ 94 \\ 103 \\ 103 \end{gathered}$ | $\begin{aligned} & 97 \\ & 97 \\ & 97 \end{aligned}$ | $\begin{aligned} & 97 \\ & 94 \\ & 97 \end{aligned}$ | $\begin{aligned} & 100 \\ & 100 \\ & 100 \\ & 106 \end{aligned}$ | $\begin{aligned} & 107 \\ & 107 \\ & 112 \end{aligned}$ | $\begin{aligned} & 124 \\ & 124 \\ & 133 \\ & 127 \end{aligned}$ | $\begin{aligned} & 88 \\ & 88 \\ & 94 \\ & 97 \end{aligned}$ |  |  |  |  |  |
| April． |  |  |  |  |  |  |  | $\begin{aligned} & 93 \\ & 96 \end{aligned}$ |  |  |  |  |  |  |  | $\begin{gathered} 95 \\ 96 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |
| May | 108 |  | 108 | 107 | 120 | 112 | 101 | 98 | 98 |  | 117 | 94 | 97 | 86 |  |  | 108 | 108 | 118 | 120 | 99 | 100 | 92 |  |  | ${ }^{23}$ |
| June． | 105 | 105 | 104 | 104 | 114 | 109 | ${ }_{96}^{95}$ | ${ }_{96}^{99}$ | ${ }^{98}$ | 102 | 117 | 92 | ${ }_{95}^{95}$ | 88 | $\begin{aligned} & 88 \\ & 86 \\ & 68 \end{aligned}$ | ${ }_{95}^{95}$ | 113 | 107 | 113 | 120 | 101 | 112 | ${ }_{9}^{94}$ | 97 | ${ }_{93}^{95}$ | ${ }^{96}$ |
| August | 100 | 102 | ${ }_{98}^{98}$ | 101 | 109 | 100 | 100 | ${ }_{96} 9$ | ${ }_{99}$ | 100 |  | 94 | 95 | 86 | 67 | ${ }_{93}$ | 116 | 119 | 112 | 123 |  | 119 | ${ }_{99}^{98}$ | ${ }_{95} 9$ | ${ }_{89} 8$ | ${ }_{94}$ |
| emb |  | 100 | 101 | 101 | 105 | 102 | 100 | 94 | 102 | 110 | 107 | － | 94 | 87 | 71 | 98 | 106 |  | 109 | 44 | 107 | 114 | 99 |  |  | 93 |
| ber | 101 | ${ }_{97}^{99}$ | ${ }_{98}^{99}$ | ${ }_{96}^{98}$ | ${ }_{89}^{97}$ | ${ }_{98}^{97}$ | 105 | ${ }_{91}^{94}$ | ${ }^{100}$ | 112 | 102 | 95 | $\begin{aligned} & 92 \\ & 97 \end{aligned}$ | ${ }_{89}^{87}$ | ${ }_{81}^{76}$ | ${ }_{98}^{97}$ | 113 | 105 | ${ }_{95}^{102}$ | 116 | 1108 | 121 | ${ }_{99}^{99}$ | ${ }_{98}^{93}$ | 75 | ${ }_{96}^{99}$ |
| December | ${ }_{92}^{99}$ | ${ }_{96} 97$ | 92 | ${ }_{95}$ |  | ${ }_{93}$ |  | 92 | 100 | 117 | 98 | ${ }_{98} 9$ | ${ }_{97}$ | 90 | 85 | ${ }_{95}^{98}$ | ${ }_{93}^{108}$ | ${ }_{99}^{104}$ | ${ }_{92}^{95}$ | 117 | 100 |  | 100 | ${ }_{97}^{98}$ | ${ }_{84}^{84}$ | ${ }_{92}^{96}$ |
| 1924 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| uary | ${ }_{03}^{98}$ | 100 | 98 104 | ${ }_{102}^{99}$ | 99 110 | ${ }_{94}^{97}$ | 101 105 | 98 100 | ${ }_{102}^{97}$ | ${ }_{117}^{115}$ |  | ${ }_{97}^{98}$ | ${ }_{100}^{96}$ | ${ }_{95}^{92}$ | ${ }_{93}^{96}$ |  | ${ }_{100}^{99}$ | ${ }_{106}^{103}$ | 1109 | 113 | ${ }_{97}^{95}$ |  | 100 101 | ${ }_{94}^{101}$ | ${ }_{95}^{83}$ | ${ }_{12} 8$ |
| March． | 102 | 100 | 104 | 101 | 112 | ${ }_{9}^{92}$ | ${ }_{100}^{103}$ | 102 | ${ }_{98}^{98}$ | 105 | 96 | 96 | ${ }_{96}^{98}$ | $\begin{array}{\|l\|} \hline 99 \\ 97 \\ 90 \end{array}$ | $\begin{aligned} & 95 \\ & 905 \\ & \hline 90 \end{aligned}$ | $\begin{aligned} & 98 \\ & 98 \\ & \hline 8 \end{aligned}$ | ${ }_{93}^{93}$ | 101 | 99 88 | 117 | ${ }_{98}^{98}$ |  | ${ }^{94}$ | ${ }_{95}^{96}$ | ${ }_{97}^{96}$ | 101 |
| April． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 98 |  |  |  |  |  |
| May |  | 89 | $\begin{aligned} & 89 \\ & 88 \end{aligned}$ | 88 | 76 | 82 | 102 | 99 | 95 | 80 | 91 | 94 | 102 | 101 | ${ }_{83}^{83}$ | 102 | ${ }^{93}$ | 93 | 80 | 109 | ${ }^{97}$ | ${ }^{99}$ | ${ }^{97}$ | 100 | 103 |  |
| Juny | 81 | 83 | 83 79 | 82 | $\begin{aligned} & 65 \\ & 59 \end{aligned}$ | 78 | 104 | 94 | $\begin{aligned} & 91 \\ & 89 \end{aligned}$ | 78 | ${ }_{86}^{89}$ | ${ }_{94}^{93}$ | ${ }_{98}^{100}$ | ${ }_{95}^{99}$ | 88 | 100 | ${ }_{95}^{96}$ | ${ }_{90}{ }^{1}$ | 78 | 108 | ${ }_{96}^{95}$ | ${ }_{80}^{93}$ | ${ }^{95}$ | ${ }_{95}^{99}$ | 105 | ${ }_{96}^{92}$ |
| August | 87 | 89 | 86 | 89 | 76 | 82 |  | 96 |  |  | 90 | 92 | 97 |  |  |  | 96 | 92 | 80 | 103 | 98 | 80 | 100 | 96 | 106 |  |
| em |  |  | 93 | 93 | 84 | 93 | 103 |  | ${ }^{95}$ | 92 | 93 | 92 | 100 | 99 | 116 | 99 |  |  |  | 10 | 5 |  | 101 |  | 15 | 103 |
| Oetober |  | 97 | $\begin{aligned} & 97 \\ & 99 \end{aligned}$ | 97 | 84 90 | ${ }_{99}^{99}$ | ${ }_{103}^{100}$ | 100 | 98 | ${ }_{85}^{86}$ | 95 | ${ }_{100}^{96}$ | 100 100 | ${ }_{102}^{99}$ | 123 | ${ }_{100}^{96}$ | ${ }_{100}^{103}$ | ${ }_{96}^{97}$ | ${ }_{95}^{97}$ | 109 | ${ }_{95}^{95}$ | 53 | 103 | ${ }_{94}^{94}$ | 105 | 103 |
| December． | 97 | 101 | ${ }_{98} 9$ | 101 | 104 | 102 | 102 | 101 | 101 | 76 | 96 | 101 | 101 | 104 | 112 | 103 | ${ }_{94}$ | 100 | 99 | 107 | ${ }_{95}$ |  | 105 | 100 | 104 | 110 |
| 1925 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January－ | 105 | 105 | 105 | 105 | ${ }_{113}^{113}$ | 103 <br> 103 | 105 | 104 | 108 | 87 92 | ${ }_{98}^{96}$ | 109 | 107 | 106 110 | 109 | 105 | 101 | 105 | 107 | 107 | 100 |  | 112 | 102 | 106 | 106 |
| February | ${ }_{108}^{107}$ | 105 | ${ }_{109}^{109}$ | 106 | ${ }_{12}^{13}$ | ${ }_{107}^{103}$ | ${ }_{95}$ | ${ }_{106}$ | 104 | 100 | 98 | 110 | ${ }_{111}$ | 110 | 108 | 104 | ${ }_{90}^{95}$ | ${ }_{98}^{101}$ | ${ }_{90}^{96}$ | 117 | ${ }_{99}^{98}$ |  | 1108 | lot | 1112 |  |
| April． | 104 | 103 | 106 | 103 | 101 | 107 | 94 | 106 | 102 | 106 | ${ }_{97}$ | 109 | 108 | 112 | 110 | 103 | ${ }_{92}$ | 99 | 91 | 111 | 101 |  | 105 | 103 | 111 | 103 |
| May． | 104 | 103 | 104 | 103 | 101 | 105 | ${ }_{96}^{92}$ | 105 | 102 | 110 | ${ }_{92}^{96}$ | 110 | 104 | 115 | 117 | 104 | 105 | 104 | ${ }_{81}^{98}$ | 118 | 108 | 129 | 104 | 104 | 110 | ${ }^{94}$ |
| June． | 100 | 103 | ${ }_{99}$ | ${ }_{103}^{101}$ | ${ }_{95}^{96}$ | 102 | ${ }_{95} 9$ | 10 | 103 | 110 | ${ }_{97}^{92}$ | 112 | 104 | 120 |  | 105 | 104 | ${ }_{102}^{99}$ | 929 | 116 | 106 |  | ${ }_{106}^{104}$ | 104 | 111 |  |
| Augus | 101 | 103 | 100 | 103 | 103 | 103 | 95 | 106 | 106 | 82 | 100 | 114 | 104 | 120 | 126 | 105 | 113 | 107 | 100 | 132 | 107 | 102 | 102 | 110 | 110 | 105 |
| Septem | 103 | 102 | 104 | 104 | 104 | 101 | 101 | 106 | 108 | 102 | 198 | 112 | 107 | 116 | 122 | 105 |  |  | 102 | 1 | 106 |  | 107 | 112 | 109 | ${ }_{85}^{90}$ |
| Oevember | 108 | 105 | ${ }_{110}^{109}$ | 108 | ${ }_{113}^{104}$ | 106 | ${ }_{94}^{99}$ | 110 | ${ }_{106}^{108}$ | ${ }_{132}^{133}$ | ${ }_{94}^{100}$ | 111 | 1098 | 117 | 112 | 105 | ${ }_{98}^{98}$ | ${ }_{94}^{91}$ | ${ }_{112}^{107}$ | ${ }^{3}$ | 103 | ${ }^{96}$ | 105 | 112 | 110 | ${ }_{96}$ |
| December． | 103 | 108 | 106 | 110 | 116 | 106 | 104 | 110 | 110 | 119 | 94 | 108 | 110 | 116 | 118 | 109 | 89 | 94 | 113 | 3 | 102 |  | 108 | 112 | 118 | 96 |
| 192 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January． | 105 | ${ }_{107}^{106}$ | 108 | ${ }_{109}^{108}$ | ${ }_{113}^{116}$ | ${ }_{104}^{103}$ | 100 | 112 | 110 | 114 | ${ }_{94}^{92}$ | 114 | 109 | ${ }_{117}^{116}$ | 115 | 108 | ${ }_{92}^{91}$ | ${ }_{98}^{93}$ | 115 | 34 | ${ }_{99}^{100}$ |  | 107 | ${ }_{119}^{11}$ | 114 | ${ }_{99}^{99}$ |
| March． | 110 | 107 | 111 | 108 | 115 | 104 | 996 | 113 | 105 | 113 | ${ }_{94}^{94}$ | 110 | 108 | 119 | 107 | 117 | 99 | ${ }^{108}$ | 1106 | ${ }_{129}$ | 99 |  | 109 | 109 | 112 | ${ }_{95}$ |
| April． | 108 | 107 | 110 | 108 | 115 | 101 | 95 | 14 | 106 | 110 | 93 | 106 | 115 | 123 | 109 | 113 | 96 | 107 | 107 | 126 | 99 |  | 109 | 113 | 112 | ${ }_{9} 9$ |
| May | 107 | 106 | 108 | 107 | 116 | ${ }^{99}$ | 94 | 115 | 102 | 114 | ${ }_{93}$ | 111 | 114 | 125 | 117 | 111 | 103 | 103 | 100 | 120 | ${ }^{98}$ | 95 | 108 | 12 | 116 | 92 |
| June | 106 | 107 | ${ }_{102}^{106}$ | 107 | ${ }_{13}^{13}$ |  | 100 | ${ }_{114}^{113}$ | ${ }_{99} 9$ | 1109 | ${ }_{102}$ | 119 | 109 | 126 | 118 | 119 | 113 |  | 101 | 112 | ${ }_{103}$ | 109 | 112 | 107 | 113 | 90 |
| August． | 109 | 111 | 108 | 112 | 120 | 105 | 103 | 115 | 94 | 134 | 103 | 119 | 110 | 128 | 128 | 113 | 115 | 109 | 103 | 121 | 106 | 128 | 108 | 119 | 110 | ${ }^{93}$ |
|  | 113 | 112 |  |  | 117 | 110 |  |  |  |  |  | 119 | 12 |  |  |  |  |  |  |  | 106 | 116 |  |  | 2 | ${ }_{93}^{93}$ |
| Oetober | 114 | 111 | 112 | 111 106 | 114 | 110 | － 102 | 118 | ${ }_{95}^{97}$ | ${ }_{89}^{106}$ | ${ }_{99}^{107}$ | 114 | ${ }_{121}^{113}$ | ${ }_{133}^{129}$ | ${ }_{106}^{126}$ | 116 | 124 124 124 | 116 | 112 | 113 | 112 | 1 | 113 | 122 | 19 | ${ }_{93}^{93}$ |
| December．－ | 101 | 105 | ${ }_{99}$ | 103 | 102 | 109 | 96 | 113 | 98 | 63 | 100 | 94 | 119 | 135 | 112 | 110 | 112 | 120 | 124 | 111 | 121 |  | 112 | 119 | 125 | 109 |
| 192 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| uar |  | 107 | 104 | 105 | 106 | 108 | ${ }_{93}^{95}$ | 113 | ${ }_{95}^{96}$ |  | ${ }^{99}$ | 101 | 116 | 135 | 118 | 114 | 113 | 116 | 119 | 101 | 120 |  | 114 | 113 | ${ }^{113}$ | 97 |
| Febraary | 13 | 111 | ${ }_{113}$ | 110 | 114 |  |  | 113 |  |  | ${ }_{98}$ |  |  | 135 | 123 |  | 112 |  |  | 888 | 123 |  |  |  | 115 | ${ }_{90}$ |
| April． | 109 | 108 | 112 | 109 | 116 | 112 | 98 | 114 | 88 | 106 | 98 | 109 | 112 | 134 | 131 | 122 | 101 | 104 | 87 | 108 | 119 |  | 106 | 110 | 120 | 90 |
| May． | 112 | 111 |  |  |  |  |  |  |  |  | 100 |  | 111 |  | 127 | 122 |  |  |  |  | 120 | 120 | 107 | 108 | 13 | ${ }^{90}$ |
| ${ }_{\text {June }}$ | 107 | 108 | 107 <br> 101 | 1108 | 105 | ${ }_{118}^{121}$ | ${ }_{96} 10$ | 112 | 935 | 84 | 1105 | 111 | ${ }_{108}^{108}$ | ${ }_{136}^{134}$ | ${ }_{124}^{131}$ | 1109 | ${ }_{103}^{108}$ | 104 | ${ }_{87}^{91}$ | ${ }_{75}$ | ${ }_{124}^{122}$ | ${ }_{99} 1$ | 1105 | 114 | 112 | ${ }_{94}^{93}$ |
| August．．． |  | 107 | 104 | 107 | 102 | 119 | 97 | 112 |  |  | 112 | 115 | 108 | 136 | 119 | 119 | 111 | 106 | 92 | 107 | 123 | 99 | 101 | 114 | 112 | 94 |
| Septembe | 106 | 105 | 106 | 105 |  | 118 |  | 113 |  |  | ${ }_{128}^{113}$ | 113 | 107 | 139 | 113 | 123 | 111 |  | ${ }_{20}$ | 100 | 124 | 87 | 104 | 111 | ${ }^{111}$ | 90 |
| October－ | ${ }^{105}$ | ${ }_{99}^{103}$ | ${ }_{101}^{104}$ | ${ }_{98}$ | 94 | ${ }_{12}^{13}$ | ${ }_{94}^{94}$ | ${ }_{110}^{111}$ | 98 | ${ }_{47} 7$ | ${ }_{97}^{108}$ | 108 | 106 | ${ }_{140}^{142}$ | 1117 | 122 | 112 | 105 | 85 | ${ }_{106}^{107}$ | ${ }_{124}^{124}$ | 49 |  | 107 | 110 | ${ }^{91}$ |
| December | 95 | 99 | ${ }_{95}$ | ${ }_{99} 9$ | ${ }_{93}^{88}$ | 105 | ${ }_{95}$ | 112 | ${ }_{93}^{96}$ | 53 | 96 | 105 | 111 | 137 | 110 | 112 | 103 | 103 | ${ }^{85} 8$ | 92 | ${ }_{124}^{124}$ |  | 105 | 109 | 109 | ${ }_{95}$ |

${ }^{1}$ See footnote on preceding page．

## FACTORY EMPLOYMENT

(Relative to 1923 monthly average $=100$ )

| Month | NEW YORK ${ }^{\text {1 }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|  | Number of employees |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January |  | 83.4 | ${ }^{99.6}$ | 109.7 | 110.4 | 103.1 | 112.0 | 84.4 | 83.8 | 99.0 | 96.6 | 89.7 | 92.5 | 87.7 | 82.6 |
| February |  | 85.5 | 101.7 | 110.2 | 112.0 | 101.9 | 110.9 | 85.9 | 86.5 | 100.1 | 97.6 | 91.3 | 93.1 | 88.8 | 83.5 |
| March |  | 85.6 | 102.8 | 111.8 | 113.1 | 101.2 | 114.0 | 86.8 | 87.5 | 102.5 | 98.0 | 92.3 | 93.3 | 89.3 | 83.9 |
| A pril. |  | 86.2 | 104.6 | 110.0 | 111.9 | 101.1 | 112.5 | 85.1 | 86.4 | 102.2 | 94.8 | 90.5 | 92.0 | 88.1 | 82.9 |
| May.. |  | 87.9 | 102.6 | 109.2 | 111.6 | 100.2 | 110.8 | 83.4 | 87.1 | 101.2 | 90.9 | 89.4 | 90.1 | 86.8 | 82.0 |
| June. | 91.0 | 88.8 | 103.5 | 107.9 | 111.9 | 99.9 | 110.4 | 81.8 | 88.5 | 100.3 | 88.4 | 88.7 | 89.7 | 86.6 |  |
| July.. | 87.8 | 87.9 | 102.5 | 107.4 | 113.7 | 102.5 | 109.8 | 80.2 | 88.5 | 99.6 | 85.0 | 87.8 | 87.6 | 85.1 | -..... |
| August. | 83.6 | 87.2 | 104.0 | 105.6 | 111.3 | 104.7 | 107.6 | 80.1 | 90.6 | 98.7 | 85.1 | 88.0 | 88.3 | 85.7 |  |
| September | 87.4 | 92.0 | 106.7 | 107.5 | 111.0 | 105.7 | 106.2 | 83.2 | 92.4 | 99.1 | 88.4 | 90.3 | 90.4 | 87.5 |  |
| October- | 86.7 | 92.4 | 107.5 | 109.6 | 105. 9 | 104.2 | 104.2 | 85.3 | 95.4 | 100.4 | 89.5 | 92.1 | 91.5 | 87.6 |  |
| November | 84.8 | 96.3 | 109.7 | 110.5 | 109.5 | 107.1 | 98.6 | 85.2 | 97.6 | 99.0 | 89.5 | 92.7 | 90.3 | 85.9 |  |
| December | 83.8 | 97.9 | 110.9 | 110.8 | 108.5 | 110.8 | 91.3 | 85.2 | 99.0 | 97.8 | 90.2 | 93.2 | 89.4 | 84.4 |  |
| Monthly average. | 286.4 | 89.3 | 104.7 | 109.2 | 110.9 | 103.5 | 107.4 | 83.9 | 90.3 | 100.0 | 91.2 | 90.5 | 90.7 | 87.0 |  |
|  | Weekly pay roll |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January |  | 38.2 | 49.5 | 61.5 | 68.1 | 85.4 | 109.0 | 85.5 | 75.2 | 95.2 | 98.7 | 93.2 | 98.6 | 95.1 | 88.6 |
| February |  | 39.2 | 51.4 | 61.9 | 72.6 | 82.5 | 107.8 | 84.5 | 76.7 | 95.1 | 99.3 | 93.8 | 97.7 | 96.0 | 89.4 |
| March. |  | 40.0 | 52.7 | 64.8 | 77.6 | 82.6 | 116.7 | 85.9 | 78.9 | 101. 2 | 101.3 | 96.4 | 99.5 | 97.6 | 91.3 |
| April.- |  | 40.0 | 54.3 | 62.6 | 79.0 | 82.1 | 114.8 | 81.8 | 76.6 | 101.3 | 96.4 | 92.0 | 97.5 | 94.3 | 87.6 |
| May |  | 41.2 | 53.6 | 64.4 | 81.6 | 81.8 | 115.7 | 79.1 | 78.7 | 102.7 | 91.9 | 92.1 | 94.9 | 92.9 | 87.8 |
| June | 42.0 | 41.6 | 54.8 | 64.2 | 84.0 | 82.6 | 116.6 | 77.2 | 80.9 | 102.6 | 88.3 | 91.0 | 95.5 | 92.7 |  |
| July.. | 40.1 | 41.5 | 53.1 | 63.8 | 86.7 | 86.9 | 114.8 | 74.4 | 80.5 | 100.7 | 84.4 | 90.2 | 92.6 | 90.4 |  |
| August..... | 38.1 | 41.5 | 55.2 | 63.7 | 86.8 | 91.6 | 113.4 | 74.8 | 83.4 | 98.3 | 85.6 | 91.0 | 93.6 | 92.2 |  |
| September | 40.0 | 43.3 | 58.2 | 67.0 | 90.9 | 96.4 | 112.0 | 76.6 | 87.2 | 99.8 | 91.0 | 93.9 | 97.3 | 95.0 |  |
| October-- | 39.0 | 45.0 | 59.0 | 69.7 | 87.0 | 93.4 | 110.7 | 76.8 | 89.6 | 102.2 | 90.4 | 96.6 | 98.5 | 94.2 |  |
| November | 38.3 | 47.6 | 61.1 | 71.8 | 86.9 | 99.7 | 103.8 | 76.1 | 93.3 | 100.4 | 90.9 | 97.5 | 96.6 | 90.7 |  |
| December. | 38.5 | 48.6 | 63.1 | 72.0 | 92.3 | 107.1 | 95.1 | 77.9 | 95.9 | 100.5 | 93.5 | 99.4 | 96.7 | 91.7 |  |
| Monthly average. | ${ }^{2} 39.4$ | 42.3 | 55.5 | 65.6 | 82.8 | 89.3 | 110.9 | 79.2 | 83.1 | 100.0 | 92.7 | 93.9 | 96.6 | 93.6 |  |

## LLLINOIS ${ }^{\text {s }}$



WISCONSIN ${ }^{5}$


[^2]FACTORY EMPLOYMENT-Continued

| Month | OKLAFIOMA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employees on pay roll (number) |  |  |  |  | Total pay roll (dollars) |  |  |  |  | Average weekly earnings (dollars) |  |  |  |  |
|  | 1924 | 1925 | 1926 | 1927 | 1228 | 1924 | 1925 | 1926 | 1927 | 1928 | 1924 | 1925 | 1926 | 1927 | 1923 |
|  | 27,463 |  | 30,351 | 31, 141 | 25,615 |  | \$741,553 | \$832, 895 | \$868, 279 | \$684, 796 |  | \$27.00 | \$27.44 | \$27. 88 | \$26. 73 |
| February |  | 28,067 | 30,629 | 30, 226 | 24, 251 |  | 751,897 | 845,745 | 847, 568 | ${ }^{719} 180$ |  | 26.79 | 27.61 | 28.04 | ${ }^{29.65}$ |
| April | 28,677 |  | $\begin{aligned} & 30,754 \\ & 30,539 \end{aligned}$ | $\begin{aligned} & 31,423 \\ & 31,226 \end{aligned}$ | 24, 292 |  | $\begin{aligned} & 77,158 \\ & 780,170 \end{aligned}$ | $\begin{aligned} & 811,834 \\ & 842,252 \end{aligned}$ | 862,666858,228 | 634,029708,792 | 27.21 |  | 27. 58 | 27.48 | 25.8427.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May |  | 28,537 |  | 31, 193 | 29, 865 | 26, 553 |  | 769, 118 | 858, 684 | 813,902 | 702, 263 |  | 26.9527.09 | 27. 53 | ${ }_{27}^{27.25}$ | 26.44 |
| June | 28, 213 | 28, 570 | 31,548 | 30, 059 | \$739,094 |  | 774, 043 | 864, 559 | 819,301 | \$26. 20 |  |  |  |  |  |
| August....-..........- | 28, 517 | 29, 424 | 31,38832,012 | $\begin{aligned} & 30,173 \\ & 30,718 \end{aligned}$ | ---- | 731, 607 | 777, 485 | 861, 375 | 819, 430 | --------- | ${ }_{26.25}^{25.36}$ | 26.42 | 26.91 | $\stackrel{26.98}{26.68}$ |  |  |
|  | 27,867 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| September | $\begin{aligned} & 28,077 \\ & 28,550 \\ & 28,055 \end{aligned}$ | 29,66529,874 | 32,94731,499 | 29,94827,62420 | -...- | $\begin{array}{r}735,946 \\ 777,554 \\ \hline 784\end{array}$ | 776,741$808,34 \%$88 | 903, 086870,355 | 970, 393 | ----.--... | 26. 21. | 26.1827.06 | 27.41 | 32. 73 |  |  |
|  |  |  |  |  | --..-.-.---- |  |  |  | 740, 591 |  |  |  | 27.82 | 26. 89 |  |  |
| November |  | 29,83930,329 | $\begin{aligned} & 31,750 \\ & 31,764 \\ & 31 \end{aligned}$ | $\begin{aligned} & 26,667 \\ & 26,883 \end{aligned}$ |  | 769.435774,189 | $\begin{aligned} & 813,057 \\ & 833,461 \end{aligned}$ | $\begin{aligned} & 887,549 \\ & 887,128 \end{aligned}$ | $\begin{aligned} & 676,490 \\ & 673,185 \end{aligned}$ |  | 27.4027.33 | 27.2027.48 | 27.95 | 25.3625.37 |  |  |
| Decembe | 28, 329 |  |  |  |  |  |  |  |  |  |  |  | 28.38 |  |  |  |  |
|  |  | $\begin{array}{r} 348,425 \\ 29,035 \end{array}$ | $\begin{array}{r} 375,854 \\ 31,321 \end{array}$ | $\begin{array}{r} 355,953 \\ 29,663 \end{array}$ |  | $\begin{aligned} & 5,251,107 \\ & 250,158 \end{aligned}$ | $\begin{array}{r} 9,376,809 \\ 781,401 \end{array}$ | $\begin{array}{\|} 10,321,044 \\ 860,087 \end{array}$ | $\begin{array}{r} 9,764,213 \\ -813,684 \end{array}$ |  |  |  | $2 \overline{2} .46$ | 27.44 ......... |  |  |
| Monthly average | 2 28, 234 |  |  |  |  |  |  |  |  |  | 226.5 | $26.91$ |  |  |  |  |  |

EMPLOYEES ON PAY ROLL


[^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.


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 2f to 138 of the February, 1928, "Survey" | 1928 |  |  |  |  | 1927 |  | per cent inCREASE ( + ) OR decrease (-) |  | cumulative total from january 1 terough may 31 |  | $\|$Per ct. <br> in- <br> crease <br> $(+)$ <br> or de- <br> crease <br> $(-)$ <br> cumu- <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | February | March | April | May | April | May | May, 1928, from ${ }_{1928}$ | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { May, } \\ & \text { 1927, } \end{aligned}$ | 1927 | 1928 |  |
| TEXTILES-Continued Cotton Finishing |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Billings, finished goods .-.--thous. of yds--- New orders, gray yardage --thous. of yds.- | 68,737 75,665 | 78,786 <br> 79,184 | 89,740 81,328 | 75,378 <br> 68,316 | 73,539 72,961 | - ${ }_{8}^{91,675}$ | 85,054 77,170 | -2.4 +6.8 | -13.5 | 443,860 444,825 | 386,180 377,454 | -13.0 -15.1 |
| Shipments, finished goods...........cases.- | 44, 673 | 49,035 | 51,495 | 43,378 | 47,555 | 51,869 | 49,711 | +6.8 +9.6 | -4.3 | $\stackrel{44,}{459,003}$ | 3776,434 $\mathbf{2 3 6}, 136$ | -15.1 |
| Stocks, finished goods, end mo......cases.- | 40, 751 | 38,698 | 39,787 | 40,876 | 40, 449 | 38, 275 | 37, 340 | -1.0 | +8.3 |  |  |  |
| Operating activity .-...per ct. of capacity... | 62 | 69 | 69 | 64 | 62 | 38,78 | 72 | -3.1 | $-13.9$ |  |  |  |
| Unfiled orders, end of month-.-.-.-days.- | 4.7 | 5.2 | 4.8 | 4.5 | 4.3 | 6.2 | 6.1 | -4.4 | -29.5 |  |  |  |
| Production..............---thous. of yds.- | 49,826 | 64,015 | 75,725 | 69,378 | 73.520 |  |  |  |  |  | 332464 |  |
| Stocks, end of month.........thous, of yds.. |  | 74,326 | 75, 153 | 78, 151 | 76, 149 |  |  | -2.6 |  |  | 332,464 |  |
| Silk |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports, raw ......-.-.-.-..---- thous. of ibs-- | 7,405 | 6,657 | 6,725 | 6, ${ }^{661}$ | 9,133 | 6,418 | 7,322 | +39.2 | +24.7 | 34, 396 | 36, 481 | +6.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| At warehouses. $\qquad$ bales. | 47,528 | 41,677 | 40,186 | 35,483 | 42,088 | 31,749 | 35, 227 | +18.6 | +18.5 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Narrow looms............per cent of normal.- | 94.6 50 | ${ }_{50.6}^{99.6}$ | 52.5 | 49.8 |  | 86.4 62.6 | 61.6 |  |  |  |  |  |
| Spinning spindles......per cent of normal.. | 77.3 | 79.1 | 67.7 | 64.2 |  | 79.7 | 76.5 |  |  |  |  |  |
| Price, Japanes, 13-15, New York. dolls. per lb.. | 5.145 | 5. 292 | 5. 194 | 5.390 | 4.998 | 6. 125 | 5.831 | -7.3 | -14.3 |  |  |  |
| Rayen |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports....-.-.-.-.-............thous. of lbs.- | 1,366 | 1,146 | 1,080 | 844 | 902 | 1,518 | 1,799 | +6.9 | -49.9 | 6, 587 | 5,338 | -19.0 |
| Stocks, bonded, end month .......thous. of lbs. Price, 150 denier, A grade, N. Y.. dolls, per lb.. | 1,915 1.50 | 1,048 1.50 | 1,263 $\mathbf{1}, 50$ | 3,164 1.50 | 1.50 | 1.022 | 1,366 1.50 | 0.0 | 0.0 |  |  |  |
| Clothing |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Suits...-.-..........--thous. of garments.- | 2,207 | ${ }^{8} 2,408$ | 2,265 | 1,584 |  | 1,932 | 1,775 |  |  | 2 9,152 | 28,464 | -7.5 |
| Separate trousers.-.---thous. of garments.- | 2,021 | 2, 043 | $\begin{array}{r}3 \\ 3 \\ \hline\end{array}$ | 1,662 |  | 2,032 | 2,032 |  |  | 2 8,806 | 28,055 21 | -8.5 |
| overcoats . ...............thous. of garments.- | 269 | 280 | 280 | 199 |  | 255 | 378 |  |  | ${ }^{2} 1,203$ | ${ }^{2} 1$ 1,028 | -14.5 |
| Cut .-...-.-..............-dozen garments.- | 353,790 | 376, 887 | ${ }^{3} 386,482$ | 336, 530 |  |  |  |  |  |  | ,453,689 |  |
| Net shipments.........-.dozen garments..- | 294, 231 | 352, 708 | : 370, 541 | 316, 120 |  |  |  |  |  |  | 1,333,600 |  |
| Unflled orders, end of mo-dozen garments.- | 99, 039 | 105, 970 | ${ }^{3} 104,143$ | 123,980 |  |  |  |  |  |  | , 3,0 |  |
| Hosiery |  |  |  |  |  |  |  |  |  |  |  |  |
| Production_-------....--thous. of dozen pairs.- | 3,578 | 3,603 | 3,808 | 3,304 |  | 3,709 | 3,694 |  |  | 215,189 | 2 14,293 | -5.9 |
| Net shipments...-....--thous. of dozen pairs-- | 3,033 | 3,279 | 3, 808 | 3,217 |  | 3,618 | 3, 551 |  |  | ${ }^{2} 14,456$ | 2 13, 337 | -7.7 |
| Stocks, end of month...-thous. of dozen pairs-- | 7,983 | 8,466 | 8,494 | 8,618 |  | 7,758 | 7,914 |  |  |  |  |  |
| New orders...-.-.-....thous. of dozen pairs-- | 3,109 | 3,137 | 3,363 | 3,418 |  | $\stackrel{3}{3,963}$ | 4,058 |  |  | 2 15, 557 | ${ }^{2} 13,027$ | -16.3 |
| Knit Underwear |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. ........-thous. of dozen garments.- | 1,022 | 1,132 | 1,215 | ${ }^{3} 1,151$ | 1,162 | 1,108 | 1,082 | +1.0 | +7.4 | 5,259 | 5,682 | +8.0 |
| Net shipments.....-thous. of dozen garments-- | 917 | 1,042 | 1,194 | ${ }_{3} 1965$ | 1,043 | 1,013 | 1,088 | +8.1 | +8.9 | 4,865 | 5,161 | +6.1 |
| Stocks, end of mo...thous. of dozen garments.- | 1,202 | 1,209 | 1,250 | ${ }^{2} 1,520$ | 1,657 | 1,395 | 1,527 | +9.0 | +8. 5 |  |  |  |
| New orders.......-.-thous. of dozen garments.Unfilled orders, end | 1,309 | 1,025 | 1,208 | ${ }^{3} 934$ | 1,041 | 949 | 952 | +11.5 | +9.3 | 5,772 | 5,517 | -4.4 |
| of month..........-thous. of dozen garments.. | 2,313 | 2, 275 | 2,281 | ${ }^{3} 2,245$ | 2,228 | 2,566 | 2,583 | -. 8 | -13.7 |  |  |  |
| Burlaps and Fibers |  |  |  |  |  |  |  |  |  |  |  |  |
| Burlaps $\qquad$ thous. of lbs. | 48,922 | 66, 102 | 63,901 | 62,050 |  |  |  | -6.3 | -7.4 |  |  | +19.7 |
| Fibers (unmanufactured)........-long tons.. | 39, 268 | 28,493 | 32, 882 | 23,682 | 21,846 | 43,437 | 30,569 | -7.8 | $-28.5$ | 153, 745 | 146, 171 | -4.9 |
| Pyroxylin Coated Textiles |  |  |  |  |  |  |  |  |  |  |  |  |
| 'Pyroxylin spread................. thous. of lbs.- | 4,068 | 4,752 | 5,670 | 4,636 | 5,422 | 3,559 | 3,854 | +17.0 | +40.7 | 18,292 | 24, 548 | +34.2 |
| Shipments billed.-.-....thous. of linear yards.- | 3,051 | 3,654 | 4,469 | 3,705 | 3,991 | 2,752 | 2,930 | +7.7 | $+36.2$ | 13,707 | 18,870 | +37.7 |
| Unfilled orders, end mo_thous. of linear yards.. <br> Fur | 3,588 | 4,715 | 4,499 | 3,817 | 4,005 | 2,995 | 2, 768 | +4.9 | +44.7 |  |  |  |
| Sales by dealers...-...........thous. of dollars.. | 7,081 | 13,919 | 14,572 | 11,113 | 12,905 | 17,544 | 17,551 | +16.1 | -26.5 | 92, 619 | 59, 590 | -35.9 |
| Buttons |  |  |  |  |  |  |  |  |  |  |  |  |
| Fresh-water pearl buttons: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. $\qquad$ ration to capacity.. <br> Stocks, end of month thous. of gross | 10,902 | 10,748 | 10,914 | 10,949 | 11,098 | 9,900 | 9,830 | +1.4 | +12.9 |  |  |  |
| Ocean pearl buttons:* <br> Production. number of gross |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 189, 864 | ${ }^{233}$, 393 | 225, 05 | 219,571 | 206, 129 | 209,227 | 208, 226 | -6.1 | -1.0 | 944, 056 | 1,074,010 | +13.8 |
|  | 223,095 300,605 | ${ }_{336,045}^{258,195}$ | 229,397 236,835 | + ${ }^{3} 216,842$ | 203,755 198,998 | 210,455 203,227 | 208, 2774 | -6.0 -7.7 | -6.1 | 1, 102,323 | 1, 131, 284 | +2.6 -1.9 |
| Stocks, end of month....-number of gross.. | 565, 248 | 577,789 | ${ }_{585}^{2868}$ | 3 584,308 |  | 539,676 | 534, 801 |  |  |  |  |  |

[^4][^5][^6]TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"' | 1928 |  |  |  |  | 1927 |  | per cent inCREASE ( + ) or decrease (-) |  | cumulative total from january 1 through may 31 |  | Per ct.in-crease(+)or de-crease$(-)$cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | Feb- ruary | March | April | May | April | May | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { April, } \\ & 1928 \end{aligned}$ | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { May, } \\ & 1927 \end{aligned}$ | 1927 | 1928 |  |
| IRON AND STEELIron |  |  |  |  |  |  |  |  |  |  |  |  |
| Manganese ore, imports . ..thous. of long tons.Iron ore: | 9 | 18 | 13 | 14 | 16 | 30 | 18 | +14.3 | -11.1 | 111 | 70 | $-36.9$ |
| Imports.-.-...........thous. of long tons.- | 251 | 230 | 163 | 225 | 11 | 240 | 186 | -6.2 | +13.4 | 1,049 | 1, 080 | +3.0 |
| Shipments from mines thous. of long tons.- |  |  |  | 6 | 5,363 | 1,560 | 7,752 |  | $-30.8$ | 9,312 | 5,369 | -42.3 |
| Receipts- <br> Lake Erie ports and |  |  |  |  |  |  |  |  |  |  |  |  |
| furnaces--........thous. of long tons.- |  |  |  |  | 2,848 | 733 | 4,969 |  | -42.7 | 5,702 | 2, 848 | -50.1 |
| Other ports.-.-.-.- thous. of long tons-- |  |  |  | 6 | 1,517 | 316 | 2,183 |  | $-30.5$ | 2,499 | 1,523 | -39. 1 |
| Consumption. $\qquad$ thous. of long tons.- | 4,303 | 4,395 | 4,808 | 4,781 | 4,948 | 5,019 | 5,013 | +3.5 | -1.3 | 23, 821 | 23, 235 | -2.5 |
|  | 33, 350 | 29,003 | 24, 259 | 17,570 | 18,877 | 20,753 | 22,971 | +7.4 | -17.8 |  |  |  |
| At furnaces.--.---- thous. of long tons.-. | 27, 062 | 23,015 | 18,691 | 14, 388 | 13,942 | 16, 050 | 18, 215 | -3.1 | $-23.5$ |  |  |  |
| On Lake Erie docks -thous. of long tons.-- | 6,288 | 5,988 | 5,568 | 5,182 | 4,935 | 4,703 | 4,756 | -4.8 | +3.8 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Merchant furnaces.....thous. of long tons..- | 715 | 625 | 612 | ${ }_{630}$ | 631 | 784 | 772 | $+{ }_{+}^{+1}$ | $-18.3$ | 3, 808 | 3, 213 | -15.6 |
| Canada-1---------thous. of long tons.- | 65 | 65 | 78 | 75 | 88 | 77 | 79 | +17.3 | +11.4 | 335 | 371 | +10.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity-..................iong tons per day... | 96,640 | 100, 060 | 104, 650 | 104, 015 | 106, 145 | 112,955 | 107, 445 | +2.0 | -1.2 |  |  |  |
| Per cent of total................... per cent.- | 52.9 | 53.6 | 56.8 | 56.9 | 57.7 | 60.4 | 58.3 | +1.4 | -1.0 |  |  |  |
| Ohio gray-iron foundries: Meltings- |  |  |  |  |  |  |  |  |  |  |  |  |
| Actual | 13,977 | 15, 270 | 13,355 | 19,039 |  | 19, 189 | 20, 117 |  |  | ${ }^{2} 666,292$ | ${ }^{2}$ 61, 641 | -7.0 |
| Normal......-.-.-.-...-.-long tons.- | 16,097 | 15, 245 | 12,123 | 17,579 |  | 21, 159 | 23, 241 |  |  | ${ }^{2} 76,658$ | ${ }^{2} 61,044$ | -20.4 |
| Ratio to normal ....per cent of normal | 86.8 | 100.0 | 110.0 | 108.0 |  | 90.6 | 86.5 |  |  |  |  |  |
| Stocks, end of month.. per cent of normal.- | 129 | 135 | 149 | 145 |  | ${ }_{79}^{99}$ | 111 |  |  |  |  |  |
| Malleable castings: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production.---.-.........---short tons.- | 50,096 | 54, 031 | 57,649 | 52,004 | 56, 412 | 55,318 | 53,698 | +8.5 | $+5.1$ | 277, 297 | 270, 192 | -2.6 |
| Operating activity..... per ct. of capacity.. | 41.9 | 62.3 | 67.6 | 61.0 | 66.0 | 55.3 | 53.4 | +8.2 | +23.6 |  |  |  |
|  | +44,458 | 49,253 51,414 | ¢ $\begin{gathered}58,254 \\ 56,634\end{gathered}$ | 52,383 50,296 | 53,222 <br> 50 <br> 189 | 56,595 53,002 | 53, 501 46,119 | +1.6 | -9.5 | 265,440 250,286 | 257,570 258,084 | -3.0 +3.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basic (valley furnace)-.-dolls. per long ton-. | 17.00 | 17.00 | 17.00 | 17.00 | 16.30 | 20.26 19.00 | 18.20 | -4.1 | -10.4 |  |  |  |
| Composite pig iron...-. dolls. per long ton-.- | 18.37 | 18.45 | 18.40 | 18.40 | 18.18 | 20.04 | 19.89 | $-1.2$ | $-8.6$ |  |  |  |
| Cast-iron Boilers and Radiators |  |  |  |  |  |  |  |  |  |  |  |  |
| und boilers: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production--...........-.-..--thous. of ibs.- | 9,037 | 13, 341 | 15,631 | 12,452 | 14, 232 | 23, 719 | ${ }^{23,128}$ | +14.3 | $-38.5$ | 111, 882 | ${ }^{64,693}$ | -42.2 |
| Shipments--...-.------..---thous. of libs-- | 11, 009 | 10, 620 | 10,407 | 9, 285 | 12, 186 | 11,352 | ${ }^{20,992}$ | +31.1 | -42.0 | 85, 030 | 53, 482 | -37.1 |
| New orders - | 11, 511 | 10,566 | 11, 238 | 9,554 | 14,888 | 17, 627 | 23, ${ }^{23} 86$ | +55.8 | $-35.5$ | 85,997 | 57,757 | -32.8 |
| Square boilers: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production..-.................-thous. of lbs.- | 24, 743 | 29,068 | 36, 544 | 28,994 | 34,790 | 20,442 | 21, 367 | +20.0 | +62.8 | 109, 235 | 154,089 | +41.1 |
| Shipments--.----------.---thous. of libs-- | 19,292 | 18,099 | 16,474 | 15,787 | 20, 268 | 16, 164 | 18, 539 | +28.4 | +9.3 | 74, 467 | 89, 920 | +20.8 |
| New orders -.-....--.......-thous. of lbs.. | 18,230 | 19,466 | 17,006 | 15,582 | 29, 021 | 15, 610 | 21, 439 | +86.2 | +35.4 | 76, 503 | 99,305 | +29.8 |
| Stocks, end of month........thous. of lbs.- | 120, 522 | 131,341 | Stacks,Radiators: |  |  |  |  |  |  |  |  |  |
| Production.. thous. sq. ft. heating surface.. | 12,581 | 14,774 | 18,039 | 13,651 | 16,513 | 15,326 | 14, 797 | +21.0 | +11.6 | 76,452 | 75, 558 | -1.2 |
| Shipments...thous. sq. ft. heating surface.- | 10,661 | 9,357 | 7,994 | 7,541 | 9, 730 | 10, 594 | 12,965 | +29.0 | $-25.0$ | 51,828 | 45, 283 | -12.6 |
| New orders..thous. sq. ft. heating surface.Stocks end of | 9,990 | 12, 139 | 8,792 | 8,928 | 13, 572 | 10,873 | 15, 810 | +52.0 | $-14.2$ | 54, 904 | 53, 421 | -2.7 |
| month .....thous. sq. It. heating surface.. | 48,714 | 54,353 | 64,467 | 70,845 | 77,926 | 53,598 | 60,439 | +10.0 | +28.9 |  |  |  |
| Shipments.........................-dollars.. | 96,589 | 128,824 | 177, 859 | 161,976 |  |  |  |  |  |  | ${ }^{2} 565,248$ |  |
| Shipments...................thous. B. t. u.. | 86, 892 | 103, 250 | 147,845 | 119,354 |  |  |  |  |  |  | ${ }^{2}$ 457, 341 |  |
|  | 132, 733 | 165, 901 | 217,385 | 161, 317 |  |  |  |  |  |  | ${ }^{2} 677,336$ |  |
| Stocks, end of month.---.-.thous. B. t. u-- | 846, 845 | 880, 423 | 923,617 | 983, 786 |  |  |  |  |  |  |  |  |
| Crude Steel |  |  |  |  |  |  |  |  |  |  |  |  |
| Steel ingots, production: <br> United States, total....thous. of long tons.. <br> Ratio to capacity $\qquad$ Canada -...........per cent.hous. of long tons. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,991 | 4,045 | 4,508 | 4, 303 | 4,203 | 4. 127 | 4,047 | -2.3 | +3.9 | 20,311 | 21, 050 | +3.6 |
|  | 81 | 86 | 89 | 91 | 118 |  | 85 97 | -8.8 | -2.4 |  |  |  |
| Canada <br> U. S. Steel Corporation, unfiled orders, end mo . -thous. of long tons. | 84 | 99 | 118 | 113 | 118 | 109 | 97 | +4.4 | +21.6 | 428 | 532 | +24.3 |
|  | Steel castings: $\dagger$, |  |  |  |  |  |  |  |  |  |  |  |
| Production-Total.......................short tons... |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 74,082 | 87,323 | 893,521 |  | 91, 638 | 94, 677 | 86, 942 | +7.0 | +5.4 | 460, 456 | 432, 233 | -6.1 |
| Ratio to capacity-.........-- per cent.-- |  |  | 3 3 385 348 | $\begin{array}{r} 359 \\ 32,619 \end{array}$ | 63 36,58 | - ${ }^{66}$ | 60 35, 236 | +6.8 +12.1 | +5.0 +3.8 |  |  |  |
| Railroad specialties........-short tons.. Miscellaneous..................short tons. | $\begin{aligned} & 28,714 \\ & 45,368 \end{aligned}$ | 37,719 49,604 | $\begin{array}{r} 38,448 \\ \mathbf{5} 55,073 \end{array}$ | $\begin{array}{r} \begin{array}{r} 3 \\ 32,619 \\ 3 \\ 3 \\ \hline \end{array}, 050 \end{array}$ | 36,558 55,080 | $\begin{aligned} & 39,189 \\ & 55,488 \end{aligned}$ | 35,236 51,706 | +12.1 +3.8 | +3.8 +6.5 | $\begin{aligned} & 185,016 \\ & 275,440 \end{aligned}$ | $\begin{gathered} 174,058 \\ 175 \end{gathered}$ | -5.9 |
| New orders- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 91, ${ }^{672}$ | 90,677 63 | $\begin{array}{r} 38,285 \\ 3 \\ 3 \end{array}$ | $\begin{array}{r} 383,737 \\ { }^{3} 58 \end{array}$ | 84, 824 | 81, 044 | 72,744 50 | +1.3 +1.7 | +16.6 +18.0 | 446, 291 | 433, 595 | -2.8 |
| Railroad specialties........---short tons.. | 41, 276 | 41, 096 | 30,992 | ${ }^{8} 32,810$ | 34,954 | 32, 279 | 28,946 | +6.5 | +20.8 | 190, 272 | 181, 128 | $-5.0$ |
| Sheets, black, blue, galvanized, and full finished: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production- |  |  |  |  |  |  |  |  |  |  |  |  |
| Ratio to capacity...................per cent.. | 89.6 | 98.7 | 103.0 | 327,909 97.8 | 348,367 95.6 | 310,10. 103.1 | 309,360 98.7 | ${ }_{-2.2}^{+6.5}$ | ${ }_{-3.1}^{+12.9}$ | 1,523, 827 | 1,690, 509 | +10.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 170,453 59,508 | 169,918 55,594 | 163,846 53,144 | 163,053 53,853 | 168,711 54,047 | 169,977 | 175,670 | +2.2 | +48.3 |  |  |  |
|  | 274, 126 | 298, 420 | 359, 532 | 327, 674 | 326, 324 | 300, 858 | 302, 759 | - 4 | +7.8 | -1,442,484 | 1,586,076 | +10.9 |
| New orders.-......-.-...-......net tons.- | 302, 921 | 266, 210 | 399, 441 | 284, 070 | 250, 316 | 292, 865 | 212, 337 | -11.9 | +17.9 | 1, 354, 510 | 1, 502, 958 | +11.0 |
| Unfilled orders, end of month....net tons.. | 694, 197 | 667, 054 | 675, 196 | 571, 761 | 527, 477 | 491, 290 | 439, 067 | -7.7 | +20.1 |  |  |  |

- See table on p. 18 of the April, 1928, issue for earlier data.
$\dagger$ See table on p. 20 of the March, 1928, issue for earlier data.
${ }^{2}$ Cumulative through Apr. 30.
${ }^{8}$ Revised.

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"' | 1928 |  |  |  |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DERERASE }(-) \end{aligned}$ |  | cumulative total FROM JANUARY 1 through may 31 |  | Per ct <br> in- <br> crease <br> or <br> or de- <br> crease <br> (-S <br> cumu. <br> lative <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\begin{aligned} & \text { Feb- } \\ & \text { rery } \end{aligned}$ ruary | March | April | May | April | May | May, 1928, from April, 1928 | May, from May, | 1927 | 1928 |  |
| FUELS |  |  |  |  |  |  |  |  |  |  |  |  |
| Bituminous:Production- |  |  |  |  |  |  |  |  |  |  |  |  |
| United States..---thous. of short tons.- | 44, 208 | 41, 351 | 43, 955 | 32, 188 | 36,624 | 34, 674 | 35, 395 | +13.8 | +3.5 | 240, 002 | 198, 326 | -17.4 |
| Canada............thous. of short tons.- | 31,695 850 | 31,403 796 | ${ }^{3} 1,401$ | 1, 123 |  | 1,315 | 1,306 1,368 |  |  | 5, 677 7,074 | 5, 622 4,257 | -1.0 -39.8 |
| ............thous. of long tons. |  |  |  |  | 1,144 |  | 1,368 | +60.9 | -16.4 |  |  | -39.8 |
| By vessels........-thous. of long t | 319 | 267 | 305 | 306 | 364 | 345 | 332 | +19.0 | +9.6 | 1,679 | 1,561 | -7.0 |
| By electric-power plants.......thous. of short tons.. | 3,695 | ${ }^{3} 3,455$ | ${ }^{3} 3,467$ | 3,095 |  | 3,278 | 3,273 |  |  | 213,977 | ${ }^{2} 13,712$ | -1.9 |
| By railroads......thous. of short tons.. | 8, 304 | 7,872 | 8,265 |  |  | 7,693 | 7,724 |  |  |  |  |  |
| By coke plants- <br> United States......thous. of short tons.. | 6, 192 | 5, 964 | 6,548 | 6,235 | 6, 460 | 6, 557 | 6, 442 | +3.6 | +. 3 | 32,657 | 31, 399 | $-3.9$ |
| Canada-........thous. of short tons.- | 257 | 233 | 252 | 243 | 266 | 253 | 249 | +9.5 | +6.8 | 1,235 | 1,251 | +1.3 |
| Stocks, end of month, held by consumers..thous. of short tons.- | 51, 500 |  | 48,300 |  |  |  |  |  |  |  |  |  |
| Prices- |  |  |  |  |  |  |  |  |  |  |  |  |
| Mine aver. (spot).dolls. per short ton.-- Wholesale, comp..dolls. per short ton.- | 1.84 | 1.86 | 1.92 | 1.74 | 1.73 | 2.12 | 1.99 | -. 6 | -13.1 |  |  |  |
| Wholesale, comp.-dols. per short ton.- Retail, composite_dolls. per short ton.- | 4.093 <br> 9.21 | 4.069 9.28 | 4.045 9.26 | 1.716 9.20 | 3. 8 8.186 | 4.265 8.95 | 4.264 8.88 | -11.7 | -6.5 -7.9 |  |  |  |
| Anthracite: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. .-.-.-...-thous. of short tons - | 5,690 | 5,582 | 5,497 | 6,909 | 8,124 | 7,127 | 8,002 | +17.6 | +1.5 | 33, 640 | 31, 802 | -5.5 |
| Exports.-.-.-.-.-.--thous. of long tons.. | 233 | 224 | 189 | 182 | 266 | 201 | 305 | +46.2 | -12.8 | 1,067 | 1,094 | +2.5 |
| Stocks, end of mo. in yds. of dealers........no. of days' supply . |  | 42 | 25 |  |  | 44 |  |  |  |  |  |  |
| Prices- Wholesale, comp dolls, per long ton.- |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale, comp.--dolls. per long ton.- | 13. 130 | 13.232 15.09 | 13.207 | 12.794 | 12.786 | 12.932 | 12.891 | 1 | -. 8 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, Beehive.........-thous. of short tons.- | 376 | 390 | 449 | 377 | 376 | 779 | 630 | +. 3 | -40.3 | 3,840 | 1,968 | -48.7 |
| By-product.-....-.thous. of short tons.-- | ${ }^{3} 3,897$ | ${ }^{3} 2,233$ | 4, 065 | 3,925 | 4,084 | 3,708 | 3,788 | +4.1 | +7.8 | 18,516 | 19, 204 | +3.7 |
| Production, Canada.-thous. of short tons.- | 179 | 167 | 178 | 171 | 190 | 170 | 174 | +11.1 | +9.2 | 851 | 885 | +4.0 |
| Exports...............-thous. of long tons.. | 65 | 76 | 74 | 62 | 89 | 50 | 50 | +43.5 | +78.0 | 264 | 366 | +38.6 |
| Price, furnace. <br> Connellsville.......dolls. per short ton. Petroleum | 2.78 | 2.71 | 2.72 | 2.74 | 2.70 | 3.49 | 2.94 | -1.4 | -8.2 |  |  |  |
| Crude petroleum: <br> Production. thous. of bbls. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 72, 321 | 68.059 | 75,037 | 72, 127 | 75, 218 | 72,590 | 76, 275 | +4.3 | -1.4 | 363, 518 | 362, 762 | -0.2 |
| Total (comparable) .....thous. of bbls. | 358.8 | 363, 340 | 368, 7 | 371, 579 | 371, 551 | 297, 895 | 307, 016 | 0.0 | +21.0 |  |  |  |
|  | 317,725 | 320, 979 | 325, 135 | 328, 354 | 328, 258 | 260, 410 | 270,518 | 0.0 | +21.3 |  |  |  |
| Rafineries --.-........--thous. of bbls.- | 41, 167 | 42,361 | 43,609 | 43, 225 | 43, 293 | 37, 485 | 36, 498 | +0.2 | +18.6 |  |  |  |
| California- | 20, 493 | 20, 110 | 19,633 | 18, 752 | 19, 170 | 29,460 | 27.143 |  |  |  |  |  |
| Heavy-...................-thous. of bbls-- | 94, 327 | 94,797 | 94, 484 | 94,301 | 93,941 | 88, 383 | 90.289 | ${ }_{-0.4}^{+2.2}$ | +4.0 |  |  |  |
| Imports .-.------............-- thous. of bbls.- | 6,145 | 6,036 | 6,845 | 5,661 | 6,766 | 4,063 | 4,557 | +19.5 | +48.5 | 21,749 | 31,453 | $+44.6$ |
| Consumption (run to stills) ---thous. of bbls.- | 68, 193 | 65, 601 | 72,124 | 72.979 | 77,311 | 66, 624 | 69,759 | +5.9 | +10.8 | 337, 763 | 356, 208 | +5.5 |
| Refinery operations........per ct. of capacity.- | 72 | 73 | 75 | 79 | 180 | 77 | 78 | +1.3 | +2.6 |  |  |  |
| Price, Kansas-Oklahoma........-dolls. per bbl.- | 1.220 | 1.213 | 1.190 | 1.190 | 1,190 | 1.114 | 1.155 | 0.0 | +3.0 |  |  |  |
|  | 764 | 836 | 949 | 961 | 961 | 1,528 | 1. 274 | 0.0 | -24.6 | 6,946 | 4,471 | -35.6 |
| Production- |  |  |  |  |  |  |  |  |  |  |  |  |
| Raw (at refineries) _---thous. of bbls.- | 27, 879 | 26,775 | 29, 245 | 29,332 | 30, 825 | 26,577 | 26,787 | +5.1 | +15.1 | 134, 234 | 144, 056 | +7.3 |
| Natural ga' (at plants) ..thous. of bbls.- | 3,367 | 3,279 | 3,426 | 3,469 | 3,474 | 3,171 | 3, 219 | +0.1 | +7.9 | 15,739 | 17,015 | $+8.1$ |
| Exports-_-.................thous. of bbls.- | 3,692 | 3,326 | 3,777 | 4, 044 | 6,535 | 3,424 | 4, 366 | +61.6 | +49.7 | 17,807 | 21, 374 | +20.0 |
| Consumption...............thous. of bbls.- | 20.939 | 21,136 | 24, 041 | 25.712 | 27,355 | 23,371 | 26. 579 | +6.4 | +2.9 | 108, 542 | 119, 183 | $+9.8$ |
| Stocks, end of month- Raw (at refineries) | 36, 112 | 38,782 | , 229 | 40,210 | 47,336 | 52,379 | 48,609 | +42.6 | +18.0 |  |  |  |
| Natural gas (at plants)...thous. of bbls.- | 740 | 824 | 842 | 832 | 809 | 788 | 926 | -2.8 | $-12.6$ |  |  |  |
| Wholesale, New York dolls, per gal |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholessle, New York_-_dolls. per gal.- | . 170 | . 170 | . 170 | . 170 | . 170 | . 194 | . 190 | 0.0 | -10.5 |  |  |  |
| Retail, wagon,* 50 cities_dolls. per gal-- Retail distribution, 41 States_thous. of gals.- | 600. ${ }_{133}$ | 602. ${ }^{\text {. }} 3617$ | ${ }_{3689}{ }^{148} 10$ | ${ }^{745.150}$ | . 15 | 153 | 147 | 0.0 | +3.4 |  |  |  |
| Kerosenail ${ }^{\text {Ret }}$ distribution, 41 |  |  | $\checkmark$ cs, | 740, 828 |  | 698, 448 | 760, 166 |  |  | 4, | , | +11.1 |
| Production.................-thous. of bbls.- | 5,047 | 4,783 | 4,717 | 5,033 | 5,243 |  | 4, 663 |  |  |  | 24, 823 | +5.0 |
| Exports ---..................thous. of bbls.- | 2,345 2742 | 1,541 | $\begin{array}{r}1,325 \\ \hline\end{array}$ | 1,468 | 1,489 | 1, 833 | 1,604 | +1.4 | +7.2 | 7,752 | 8,168 | +5.4 |
| Consumption-----.-.-.-.thous. of bbls-- | 2742 7,670 | 3,221 7,692 | 2,737 7,826 | 3,234 7,733 | 3, <br> 7,583 | 2,776 8,725 | 3, 188 8,568 | +4.6 +2.5 | ${ }_{-12.1}^{+6.1}$ | 15,792 | 15, 317 | -3.0 |
| Retail distribution, 13 States thous. of bbls.- | 30,746 | 30, 176 | 33, 707 | 33, 206 |  | 32, 209 | -33,712 |  |  | 2122,397 | 2-127, 835 | 4 |
| Gas and fuel oils: | . 070 | . 070 | 069 | . 069 | . 074 | . 079 | . 076 | +7.2 | -2.6 |  |  |  |
| Production.......-.........thous. of bbls.. | 32, 271 | 30,944 | 34,071 | 33,857 | 35,620 | 31,856 | 33, 499 | +5.2 | +6.3 | 160.853 | 166, 763 | +3.7 |
| Consumption-1------....-- | 3,783 | 3,751 | 4,236 | 4,275 | 5,013 |  |  |  |  |  |  |  |
| By electric pow. plants..thous. of bbls.- | ${ }_{589}$ | 545 | ${ }^{4} 610$ | + 533 | ${ }^{490}$ | 4. 549 | ${ }_{4}^{487}$ | +8.1 | +18.0 +0.6 | 19,855 3,168 | $\stackrel{21,088}{2,762}$ | +6.1 -12.8 |
| By railroads....-.-...- thous. of bbls.- | 4, 047 | 3,853 | 4, 106 |  |  | 3,920 | 3,948 |  |  |  |  |  |
| Stocks at refineries, end mo-thous. of bbls.- Price Okla., $24-26$, refineries dolls. per bbl- | $\begin{array}{r}29.623 \\ \hline 800\end{array}$ | 29,011 | 29, 8170 | 29,499 | 32,888 | 23, 732 | 26,059 | +11.5 | +26. 2 |  |  |  |
| Price, Okla., 24-26, refineries_dolls. per bbl-- | . 800 | . 850 | . 850 | . 840 | . 763 | 1.063 | . 925 | -9.2 | $-17.5$ |  |  |  |
| Production..................thous. of bbls.- | 2,658 | 2,728 | 2,905 | 3, 026 | 3,091 | 2,615 | 2, 625 | +2.1 | +17.8 | 12,909 | 14, 408 | +11.6 |
| Consumption.-.-.-........thous. of bbls.- | 1,606 | 1,533 8,332 | 1,988 | 2,362 | 1,989 | 1,712 | 1,923 | +15.8 | +3.2 | 8, 721 | 9,478 | +8.7 |
| Stocks at refineries, end mo-thous. of bbls.- | 7,978 .245 | 8,332 .245 | 8,412 .223 | 8,018 | 8,060 .228 | 8, 1754 | 8, 011 | $+$ | +0.6 |  |  |  |
| Asphalt: Price cylinder oil.-.-.......-dolls. per gal. |  |  |  |  |  | . 254 | . 251 | +3.2 | -9.2 |  |  |  |
| Production - .-.....thous. of short tons.- | 199 | 209 | 270 | 274 | 331 | 274 | 319 | +20.8 | +3.8 | 1,179 | 1,283 | +8.8 |
| Stocks, end of month - thous. of short tons.- | 209 | 230 | 269 | 274 | 262 | 220 | 223 | -4.4 | +17.5 |  |  |  |
| Coke: 1 Ports ..............-thous. of short tons.- | 7 | 4 | 8 | 6 | 13 | 8 | 8 | +116.7 | +62.5 | 64 | 38 | -40.6 |
| Production. $\qquad$ _thous. of short tons. Stocks, end of month thous. of short tons | 103 330 | 100 337 | 107 352 | 109 342 | 118 | 88 319 | 88 329 | +8.3 +1.8 | +62.1 +3.1 +5.8 | 455 | 537 | +18.0 |
| Wax: |  |  |  |  |  |  | 329 |  |  |  |  |  |
| Production $\qquad$ thous. of lbs. Stocks, end of month thous. of lbs. | $\begin{array}{r} 55,320 \\ { }^{3} 150,485 \end{array}$ | $\begin{array}{r} 49,72 \pm \\ { }^{3} 150,033 \end{array}$ | $\begin{array}{r} 50.207 \\ \mathrm{~s} 120,800 \end{array}$ | $\begin{array}{r} 57,548 \\ { }^{3} 110,010 \end{array}$ | $\begin{array}{r} 51,072 \\ 103,639 \end{array}$ | $\begin{array}{r} 48,917 \\ 211,019 \end{array}$ | $\begin{array}{r} 46,267 \\ 207,329 \end{array}$ | $\begin{array}{r} -11.3 \\ -5.8 \end{array}$ | ${ }_{-50.0}^{+10.4}$ | 250, 305 | 263,871 | $+5.4$ |

*See table on p. 21 of the March, 1928, issue for earlier data.
${ }^{2}$ Cumulative through Apr. 30
${ }^{3}$ Revised.

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1928 |  |  |  |  | 1927 |  | pER CENT INCREASE ( + ) or decrease (-) |  | cumulative total FROM JANUARY 1 through may 31 |  | Per ct.in-crease$(+)$or de-crease( -9cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | February | March | April | May | A pril | May | May, <br> 1928, <br> from <br> April, <br> 1928 | May, 1928, from May, 1927 | 1927 | 1828 |  |
| RURBER Crude Rubber |  |  |  |  |  |  |  |  |  |  |  |  |
| World shipments, plantation.....-.--long tons.- | 48,134 | 48, 579 | 46,362 |  |  | 44,751 | 48,748 |  |  |  |  |  |
| Imports (including latex)-.-.-.----long tons.-- | 39, 108 | 33,392 | 40,638 | 37, 958 | 31, 014 | 46, 202 | 36,518 | $-18.3$ | -15.1 | 189,912 | 182, 160 | -4. 1 |
| Consumption by tire mfrs.......-thous. of lbs.World stocks, end of month: | 43,709 | 46,468 | 48,897 | 43, 701 |  | 51, 333 | 47, 270 |  |  | ${ }^{2}$ 191, 062 | ${ }^{2} 182,775$ | -4.3 |
| world stocks, end of month: <br> World total $\qquad$ long tons.- | 276, 670 | 269,572 | ${ }^{3} 260,991$ | 248, 995 |  | 263, 362 | 258, 300 |  |  |  |  |  |
|  | 110, 243 | 108,955 | 114, 050 | ${ }^{1} 113,083$ | 105, 357 | 92,757 | 94, 563 | $-6.8$ | +11.4 |  |  |  |
|  | 69,594 | 66, 265 | 361,478 | 56, 689 |  | 71, 229 | 71, 562 |  |  |  |  |  |
| Froducing countries..........--long tons.- | 27,453 | 25,649 | 22, 353 | 19, 223 | 20, 116 | 26, 176 | 26, 475 | +4.6 | -24.0 |  |  |  |
|  | 69,380 | 68, 700 | 63, 100 | 60, 000 |  | 73, 200 | 65,700 |  |  |  |  |  |
| Wholesale price, Para, N. Y $\qquad$ dolls. per lb.Tires and Tubes | . 288 | . 234 | . 204 | . 183 | . 165 | . 274 | . 300 | $-9.8$ | -45.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 4,026 | 4,784 | 5, 128 | 4, 645 |  | 4,742 | 4,629 |  |  | ${ }^{2} 17,034$ | ${ }^{2} 18,583$ | +9.1 |
|  | 7,491 | 8,826 | 9,318 | 9,561 |  | 9, 113 | 9,370 |  |  |  |  |  |
| Shipments- ${ }_{\text {Domestic }}$-.-.-.-.-........thousands.- | 3,924 | 3,653 | 4,137 | 4,229 |  | 4,118 | 4, 069 |  |  | 14,950 | ${ }^{2} 15,943$ | +6. 6 |
| Export...----------.-.............thousands.-- | ${ }^{132}$ | 133 | 154 | , 143 |  | ${ }_{171}$ | , 186 |  |  | ${ }_{2} 693$ | ${ }_{2} 582$ | $-16.0$ |
| Inner tubes: | 4,086 | 5,176 | 5,427 | 4,999 |  | 5,536 | 5,060 |  |  | 2 18,662 | 219,688 | +5.5 |
| Stocks, end of month --------- ${ }^{\text {thousands }}$ -Shipments | 9,760 | 11,020 | 11,878 | 12, 500 |  | 13,371 | 13,813 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestie-.-------------- -- thousands --- | 4,469 | 3,997 81 | 4,205 | 4, 196 |  | 4,669 105 | 4, 5001 |  |  | 217,394 2364 | 216,867 235 | $-3.0$ |
|  |  | 81 | 98 | 86 |  | 105 | 109 |  |  | ${ }^{2} 364$ | 2355 | -2.5 |
| Production......-....-.........thousands.. | 37 | 37 | 44 | 44 |  | 64 | 65 |  |  | 2211 | 2162 | -23.2 |
| Stocks, end of month....-.....thousands.- | 164 | 159 | 159 | 157 |  | 162 | 178 |  |  |  |  |  |
|  |  | 36 | 41 | 40 |  | 54 | 45 |  |  |  |  |  |
|  | 3 | 3 | 5 | 3 |  | 5 | 4 |  |  | 228 | 214 | $-50.0$ |
| Other Rubber Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Rubber-proofed fabries: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ...................-thous. of yds.- | 2,177 | 2,575 | 2, 853 | 2,416 |  | 2,800 | 2,642 |  |  | 29,556 | ${ }^{2} 10,021$ | +4.9 |
| Auto fabrics.............-thous. of yds.- | 600 | 757 | 805 | 835 |  | 820 | 955 |  |  | ${ }^{2} 3,234$ | ${ }^{2} 2,997$ | $-7.3$ |
| Raincoat fabrics...-....- thous. of yds.- | 874 | 1,107 | 1,148 | 874 |  | 1,498 | 1,206 |  |  | ${ }^{2} 4,353$ | 24,003 | -8.0 |
| All other-.-.-.-.-.---thous. of yds-- | 703 | 711 | 800 | 707 |  | 482 | 481 |  |  | 21,969 2 2 | 2 2 2 2 | +53.4 |
| New orders, auto fabrics---- thous. of yds.- | 773 | 9600 | 896 | 980 |  | 805 414 | 740 |  |  | ${ }^{2} 3,618$ | ${ }^{2} 3,609$ | -0.2 |
| Production, relative to capacity per cent.Rubber heels: | 29.6 | 28.8 | 26.6 | 27.6 |  | 41.4 | 59.9 |  |  |  |  |  |
| Production......-...........thous. of pairs.. | 17,682 | 19,181 | 22.583 | 18,575 |  | 14, 169 | 16, 133 |  |  | ${ }^{2} 54,202$ | 278,021 | +43.9 |
| Shipments- To shoe mafacturers thous. of pairs.- | 10,786 | 10,802 | 10,083 | 8,639 |  | 6,682 | 7,128 |  |  | ${ }^{2} 27,925$ | 240,310 | +44.4 |
| To repair trade........thous. of pairs.. | 6,314 | 6,754 | 9,407 | 6,173 |  | 6,507 | 7,016 |  |  | ${ }^{2} 20,949$ | ${ }^{2} 28,648$ | +36.8 |
| For export....-.-........thous. of pairs.- | 793 | 1,127 | 1,169 | 819 |  | 768 | 666 |  |  | ${ }^{2} 3,446$ | ${ }^{2} 3,908$ | +13.4 |
| Stocks, end of month.......thous. of pairs.. | 43,796 | 44, 259 | 46, 144 | 48, 892 |  | 47, 869 | 47, 516 |  |  |  |  |  |
| Rubber soles: <br> Production. $\qquad$ thous. of pairs.- | 3,431 | 3,628 | 3,747 | 2,928 |  | 1,726 | 1,779 |  |  | 24,742 | 213,734 | +139.2 |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| To shoe manufacturers thous. of pairs.- | 2, ${ }_{916}$ | $\begin{array}{r}2,087 \\ \hline 92\end{array}$ | 1,692 | 1,524 884 |  | 1,122 | 1, 275 |  |  |  | 2 <br> 2 <br> 2 <br> 3,546 | +103.2 +197.2 |
| For export .-.-------- thous. of thours- | 675 | 529 | 1,282 | 141 |  | ${ }^{532}$ | 19 |  |  | ${ }^{2} 12313$ | ${ }^{2} \mathrm{i}$ 1,627 | +419.8 |
| Stocks, end of month.-...thous. of pairs.- | 3,148 | 3,381 | 3,822 | 4,084 |  | 4,113 | 3,853 |  |  |  |  |  |
| Mechanical rubber goods, shipments: <br> Total.........................-.thous. of dolls.- | 5,630 | 5,838 | 6,675 | 5,406 |  | 5,823 | 5,726 |  |  | ${ }^{2} 23,989$ | 23,549 | -1.8 |
| Belting.-.........................thous. of dolls.. | 1,388 | 1,351 | 1,524 | 1,211 |  | 1,459 | 1,350 |  |  | 25,806 | 25,474 | -5.7 |
| Hose-..-.-.-..............-. - thous. of dolls.- | 2, 257 | $\stackrel{2}{2} 289$ | 2, 589 | 2,078 |  | 2,370 | 2,437 |  |  | 210,138 | ${ }^{2} 9,213$ | -9.1 |
| All other---....................thous. of dolls.- | 1,984 | 2,199 | 2,562 | 2,117 |  | 1,995 | 1,939 |  |  | 28,046 | 2 8,862 | +10.1 |
| Rubber bands,* shipments............-pounds.- | 217, 798 | 195, 249 | 215, 724 | 169,403 |  |  |  |  |  |  |  |  |
| HIDES AND LEATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| Hides |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports: Total hides and skins........thous. of lbs..- | 36, 409 | 33, 421 | 48, 489 | 45, 443 | 61, 288 | 33, 234 | 37, 105 | +34.9 | +65. 2 | 155,548 | 225, 050 | +44.7 |
| Calfskins---..--------.--- thous. of libs-- | 3,410 | 2,861 | 3,018 | 2,836 | 4,387 | 2, 809 | 3, 598 | +54.7 | +21.9 | 14,985 | 16,512 | +10.2 |
| Cattle hides.-----------........thous. of libs-- | 18,856 | 16, 269 | 28, 833 | 26, 101 | 30,913 | 15, 148 | 16,699 | +41.4 | +121.0 | 70,966 | 126,972 | +78.9 |
|  | 5,448 | 7,453 | 8,362 4,841 | $\begin{array}{r}8,182 \\ 5 \\ \hline\end{array}$ | 10,082 | 8, 195 | 8,267 6,393 | +23.2 +10.8 | +22.0 -5.9 | 36,948 23,486 | 39,527 25,678 | +7.0 +9.3 |
| Sheepskins.....................thous. of lbs.- | 5,117 | 4,276 | 4,841 | 5,428 | 6,016 | 5, 113 | 6,393 | +10.8 | $-5.9$ | 23,486 | 25, 678 | +9.3 |
| Total hides and skins........thous. of lbs.. | 244, 242 | 238, 736 | 229,970 | 228, 037 |  | 220,679 | 230, 924 |  |  |  |  |  |
| Cattle hides...-.-.-..........-thous. of libs.- | 204, 224 | 200,897 | 194, 655 | 190, 492 |  | 170, 732 | 174,407 |  |  |  |  |  |
| Calf and kip skins...............thous. of lbs.- | 23,825 | 21, 615 | 20, 136 | 22, 687 |  | 31,638 | 35, 532 |  |  |  |  |  |
| Sheep and lamb skins...--....thous. of lbs.-- | 16, 193 | 16, 224 | 15, 179 | 14, 858 |  | 18,309 | 20, 985 |  |  |  |  |  |
| Prices: <br> Green salted, packers' $\qquad$ dolls. per lb.. | . 261 | . 248 | . 237 | . 256 | . 246 | . 152 | . 168 | -3.9 | +46.4 |  |  |  |
| Calfskins, country No. 1 --.--dolls. per lb-- | .300 | . 291 | . 269 | . 295 | . 295 | . 160 | . 177 | 0.0 | +66.7 |  |  |  |
| Inspected slaughter of livestock: United States- |  |  |  |  |  |  |  |  |  |  |  |  |
| Cattle................thous. of animals.. | 711 | 666 | 665 | 623 | 723 | 742 | 785 | +16.1 | -7.9 | 3,774 | 3,388 | -10.2 |
| Calves.................thous. of animals.. | 383 | 374 | 407 | 438 | 473 | 454 | 462 | +8.0 | +2. 4 | 2,147 | 2,075 | -3.4 |
| Swine.-...............thous. of animals.. | 5,479 | 5,780 | 5,140 | 3,446 | 3,804 | 3,330 | 3, 766 | +10.4 | +1.0 | 18, 842 | 23, 649 | +25.5 |
| Sheep-------.-.----- thous. of animals-- | 1,151 | 1,048 | 1,016 | 918 | 1,015 | 960 | 992 | +10.6 | $+2.3$ | 5,100 | 5,148 | +0.9 |
| Canada- ${ }_{\text {Cattle }}$ and calves.......no. of animals.- | 66,128 | 61,041 | 80,550 | 95, 521 | 123, 257 | 98, 759 | 114, 484 | +29.0 | +7.7 | 424, 687 | 426, 497 | $+.4$ |
| Swine....................no. of animals.- | 271, 156 | 247, 966 | 246, 597 | 222, 116 | 218, 751 | 209, 671 | 212,835 | -1.5 | +2.8 | 1, 131, 652 | 1,206,586 | +6.6 |
|  | - 26,090 | 18, 482 | 16,543 | 16,018 | 16,775 | 17,005 | 13, 790 | +4.7 | +21.6 | 101,905 | 93,908 | $-7.8$ |

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1928 |  |  |  |  | 1927 |  | PER CENT increase ( + ) or decrease (-) |  | cumulative total from jandary 1 through may 31 |  | Per ct. <br> in- <br> crease <br> ( <br> or de- <br> crease <br> $(-)$ <br> cumu- <br> cutive <br> 1928 <br> from <br> 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\begin{aligned} & \text { Feb- } \\ & \text { ruary } \end{aligned}$ | March | April | May | April | May | May, <br> from <br> April, | May, from May, 1927 | 1927 | 1928 |  |
| HIDES ANB LEATHER-Continued Leather <br> Production: |  |  |  |  |  |  |  |  |  |  |  |  |
| Sole leather..thous. of backs, bends, sides. | 1,223 | 1,240 | 1,363 | ${ }^{8} 1,358$ | 1,392 | 1,397 | 1,378 | +2.5 | +1.0 | 3,577 |  | 0.0 |
| Finished sole and belting...-thous. of lbs.. | 23,095 | 23, 409 | 25, 245 | 24, 761 |  | 25,897 | 25, 842 |  |  | 299,895 | 296,510 | -3.4 |
| Finished upper-..-......-.thous. of sq. ft. | 71,415 | 70,509 | 73, 045 | 63, 730 |  | 59, 753 | 60,197 |  |  | ${ }^{2} 2688,980$ | ${ }^{2}$ 278, 699 | +3.6 |
| Oak and union harness.-.-..--stuffed sides.- | 79, 438 | 85,757 | 79, 226 | ${ }^{3} 69,462$ | 68, 608 | 80, 464 | 81, 719 | -1.2 | -6.0 | 361, 048 | 382, 491 | +5.9 |
|  | 19,931 | 20, 154 | 19, 061 | ${ }^{3} 18,237$ | 19, 156 | 22, 966 | 23, 985 | +5.0 | -20.1 | 114, 554 | 96,539 | -15.7 |
| Unfilled orders, oak and union harness...sides.. Stocks, end of month: | 119,896 | 79, 257 | 59,769 | ${ }^{3} 54,183$ | 45, 330 | 128,446 | 238,983 | -16.3 | -81.0 |  |  |  |
| Sole and belting--...........t.thous. of libs.- | $\begin{array}{r} 54,828 \\ 245,931 \end{array}$ | $\begin{array}{r} 54,085 \\ 242,361 \end{array}$ | $\begin{array}{r} 54,302 \\ 249,023 \end{array}$ | $\begin{array}{r} 57,335 \\ 253,557 \end{array}$ |  | $\begin{array}{r} 65,608 \\ 274,983 \end{array}$ | $\begin{array}{r} \mathbf{6 6}, 298 \\ \mathbf{2 6 7}, 949 \end{array}$ |  |  |  |  |  |
| Stocks in process of tanning, end of month: <br> Sole and belting $\qquad$ thous. of lbs. | 85, 396 | 86, 028 | 87, 299 | 89,181 |  | 90,794 | 90,395 |  |  |  |  |  |
| Upper-........................thous of sq. ft.. | 149, 952 | 147,315 | 141, 386 | 140, 713 |  | 145,298 | 144,257 |  |  |  |  |  |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |
| Sole..............................-. -thous. of lbs.- | 1,265 | 1,076 | 971 | 753 | 650 | 846 | 521 | -13.7 | +24.8 | 4, 268 | 4,715 | $+10.5$ |
| Uper-- Total_-.-............-thous. of sq. ft.-. | 15, 532 | 15, 567 | 14, 297 | 10, 846 | 11, 400 | 13,388 | 11, 151 | +5.1 | +2.2 | 61, 131 | 67, 642 | +10.7 |
| Cattle and calf.......-.thous. of sq, ft.- | 10,614 | 10,750 | 9, 830 | 7,311 | 7,603 | 9,786 | 8, 167 | +4.0 | -6.9 | 44,960 | 46, 108 | +2.6 |
| Patent..............-.-.- thous. of sq. ft | 4,103 | 3,836 | 3,605 | 2,958 | 3,028 | 2,896 | 2,525 | +2.4 | +19.9 | 13, 226 | 17,530 | +32.5 |
| ces: Sheep.............------thous. of sq. ft..- | 815 | 981 | 862 | 577 | 769 | 706 | 459 | +33.3 | +67. 5 | 2, 845 | 4, 004 | +36.0 |
| Sole, oak, scoured backs...--dolls. per lb.. Chrome calf, " B " grades doils. per sq. ft.- | - 59 .54 | . 65 | . 65 | .66 .60 | .67 .60 | .43 .46 | . 48 | +1.5 0.0 | $\begin{array}{r} +48.9 \\ +25.0 \end{array}$ |  |  |  |
| Leather Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Production $\qquad$ thous. of pairs.. | 25,939 | 29, 248 | 32,013 | ${ }^{1} 26,178$ |  | 28, 389 | 25, 626 |  |  | ' 111, 951 | ${ }^{2} 113,378$ | +1.3 |
| Exports....................- thous. of pairs.. | 388 | 303 | 471 | 394 | 409 | 595 | 586 | +3.8 | $-30.2$ | 2,628 | 1, 965 | $-25.2$ |
| Men's black calf <br> bucher Mass dolls per pair |  |  |  |  |  |  |  |  |  |  |  | k ${ }^{2}$ |
| bucher, Mass.......-dolls. per pair.. | 6.75 | 6.75 | 6. 75 | 6. 75 | 6. 75 | 6.40 | 6.40 | 0.0 | +5.5 |  |  |  |
| Men's dress welt, tan calf, St. Louis. $\qquad$ dolls. per pair | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.85 | 4.85 | 0.0 | +3.1 |  |  |  |
| Women's black kid, dress |  |  |  |  |  |  |  |  |  |  |  |  |
| welt, lace, oxford..... dolls. per pair-- | $\begin{array}{r} 4.03 \\ 177,884 \end{array}$ | $\begin{array}{r} 4.15 \\ 194,874 \end{array}$ | $\begin{array}{r} 4.15 \\ 223,271 \end{array}$ | $\begin{array}{r} 4.15 \\ 210,420 \end{array}$ | 4.15 | $\begin{array}{r} 4.00 \\ 219,370 \end{array}$ | $\begin{array}{r} 400 \\ 208,924 \end{array}$ | 0 | +3.8 | 844, 376 | 806,449 | -4.5 |
| PAPER AND PRINTING Weod Pulp |  |  |  |  |  |  |  |  |  |  |  |  |
| Mechanical: | 142,03 | 132, 743 | 143, 678 | 3 149,652 | 156, 258 |  | 160192 |  |  |  |  |  |
| Consumption and shipments...-short tons.- | 139, 851 | 135,952 | 144, 771 | ${ }^{3} 133,702$ | 143, 015 | 142,483 | 137, 997 | +7.0 | +3.6 | 721, 192 | 697, 291 | $-3.3$ |
| Stocks, end month....-........-short tons.. | 159, 575 | 156, 366 | 155,274 | ${ }^{3} 173,134$ | 186, 377 | 221, 535 | 243,762 | +7.6 | -23.5 |  |  |  |
| Imports..........-.........-....-short tons.- | 21,082 | 21, 151 | 21, 124 | 18,549 | 24, 024 | 19,772 | 17,217 | +29.5 | +39.5 | 91, 836 | 105, 930 | +15.3 |
| Chemical: <br> Production $\qquad$ short tons | 209, 106 | 209, 820 | 228,692 | 3 210,780 | 222,924 | 218, 996 | 214, 848 | +5.8 | +3.8 | 1, 105, 478 | 1,081, 322 | -2.2 |
| Consumption and shipments..-short tons.- | 210, 016 | 207, 926 | 230, 484 | : 211,400 | 225, 710 | 221, 406 | 214,918 | +6.8 | +5.0 | 1, 102, 812 | 1, 085, 536 | -1.6 |
| Stocks, end of month .-.........short tons.. | 44,726 | 47, 162 | 45,854 | ${ }^{3} 43,872$ | 41, 456 | 39, 290 | 39, 120 | -5.5 | +6.0 |  |  |  |
| Imports | 156, 164 | 130, 152 | 83, 352 | 80,592 | 90,736 | 82, 536 | 116, 912 | +12.6 | -22.4 | 539,757 | 540,996 | +. 2 |
| Price sulphite.............dolls. per 100 lbs.. Newsprint Paper | 2.53 | 2.53 | 2.53 | 2.53 | 2.53 | 2.75 | 2.63 | 0.0 | -3.8 |  |  |  |
| Production: <br> United States, total.................short tons |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 119, 525 | 112,302 79 | 119,932 80 | 117, 583 | 126, 010 | 129,892 | 127, 395 | +7.2 0.0 | -1.1 | 645, 842 | 595,322 | -7.8 |
|  | 186, 721 | 189, 822 | 197, 976 | 192, 645 | 203, 811 | 166,460 | 171,586 | +5.8 | +18.8 | 825,850 | 970, 975 | $+17.6$ |
| Consumption by publishers........short tons. | 172, 952 | 162, 573 | 186, 232 | 181, 112 | 186, 641 | 186, 138 | 186, 268 | +3.1 | +0.2 | 873, 624 | 889,510 | +1.8 |
| Shipments: States..................-short tons. | 114, 211 | 109, 666 | 113,752 | 118, 453 | 122,540 | 128, 666 | 126,9 | +3.5 | -3.5 | 633, 186 | 578, 622 | -8.6 |
| Canada-.-.-.-.-.-.-.-.-.-.-.-.--short tons. | 186,829 | 188,163 | 190, 305 | 193, 443 | 203, 836 | 168,711 | 170,468 | +5.4 | +19.6 | 813, 471 | 962, 576 | +18.3 |
|  | 177, 808 | 172,635 | 172, 896 | 163, 179 | 181, 913 | 147, 736 | 170,545 | +11.5 | +6.7 | 785, 123 | 868, 431 | +10.6 |
| Exports: ${ }_{\text {United }}$ States .-.-.-............-short tons.- |  | 539 | 854 | 638 | 882 |  | 1,314 | +38.2 | -32.9 | 6,269 | 4,671 |  |
|  | 157,466 | 183,414 | 216, 160 | 140,011 | 194, 298 | 123, 449 | 149,924 | +38.8 | +29.6 | 741, 403 | 891, 349 | +20.2 |
| Stocks, end of month: At mills- |  |  |  |  |  |  |  |  |  |  |  |  |
| United States ...............short tons.. | 25,905 | 28,499 | 34, 648 | 33, 734 | 37, 207 | 24, 105 | 24, 233 | +10.3 | $+53.5$ |  |  |  |
| Canada......................-short tons.. | 37,731 | 39, 145 | 47,657 | 46,641 | 46, 290 | 26,389 | 27, 520 | -0.8 | +68.2 |  |  |  |
| At publishers.-.-...........-.-short tons..- | 207, 449 | 215, 118 | 206, 392 | 188, 384 | 184, 580 | 215, 329 | 193,005 | -2.0 | -4.4 |  |  |  |
| In transit to publishers-.------short tons.- | 46,522 | 48, 212 | 41, 613 | 43, 363 | 46, 627 | 40,798 | 43, 862 | +7.5 | +6.3 |  |  |  |
| Price, roll, f. o. b. mill.------ dolls. per 100 lbs-- Printing | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 0.0 | 0.0 |  |  |  |
| Book publication: ${ }^{\text {cring }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| American manufacture. .-..--no. of titles.- | 507 | ${ }_{6}^{654}$ | 853 | ${ }_{127}^{697}$ | 599 | 819 | 693 | -14. 1 | $-13.6$ | 3,593 | 3,310 | -7.9 |
|  | 118 | 153 | 151 | 123 | 119 | 135 | 70 | -3.3 | +70.0 | 591 | 664 | +12.4 |
| Sales Nowks: New orders...............-thous. of books.- | 12,329 | 12,332 | 13,190 | 11,796 | 12, 162 | 11,045 | 12, 233 | +3.1 | -0.6 | 59,914 | 61, 809 | +3.2 |
| Shipmeats.-.-.-...-.-.-.--thous. of books-- | 11, 897 | 11, 722 | 11,930 | 11, 807 | 11,645 | 11, 167 | 10,781 | -1.4 | +8.0 | 56, 844 | 59, 001 | -3.8 |
| Printing activity....-weighted index number.- |  |  | ${ }^{3} 112$ | 111 |  | 107 | 107 |  |  |  |  |  |
| Cash checks, shipments * --.thous. of checks.- Blank forms, new orders *-...thous. of sets. | 75,144 | 65, 865 | 78,629 40 4021 | 71,715 | 80, 116 | 71,767 | 79, 472 | +11.7 | +0.8 | 387,097 | 371,469 | -4.0 |
| Blank forms, new orders *-......thous. of sets.- <br> Box Roard | 43, 173 | 37, 172 | 40, 221 | 40,880 |  | 31, 270 | 36,739 |  |  | 2 124, 957 | ${ }^{2} 161,446$ | +29.2 |
| Operation-------.-.---- thous. of inch hours-- | 7,892 | 8, 194 | 8. 856 | ${ }^{3} 8,312$ | 8,721 | 7,771 | 7,836 | $+4.9$ | +11.3 | 38,817 | 41,975 | +8.1 |
| Operation_...-.-.-.-.-.....-. per ct. of capacity-- | 78.9 205.065 | 82.0 213,066 | - 82.80 | 383.1 32015046 | 841919 | $\begin{array}{r}74.7 \\ \hline 058\end{array}$ | \% 78.4 | $+1.0$ | +7.0 |  |  |  |
|  | 205.065 | ${ }_{216,051}^{213,066}$ | ${ }_{245}^{22753}$ | ${ }^{3} 2221,046$ | ${ }^{241.919}$ | 205, 589 | 200, 216 | +9.4 | +20.8 | ${ }_{999}^{988} 531$ | 1. 108, 669 | +12.2 |
| Unflled orders, end of month........short tons.- | 82, 446 | 216.051 860 | 24, 065 | $\begin{array}{r}\text { - } \\ \\ 211,237 \\ 84 \\ \hline\end{array}$ | 224,220 73,157 | 197.435 101.861 | $\begin{array}{r}194,122 \\ 93,248 \\ \hline 1\end{array}$ | +6.1 -13.4 | ${ }_{-21.5}^{+15.5}$ | 999, 768 | 1, 102. 810 | +10.3 |
| Consumption of waste paper ........short tons.. | 190, 631 | 194, 756 | 209. 806 | ${ }^{3} 211.869$ | 220, 261 | 189, 942 | 193,077 | +4.0 | +14.1 | 938.408 | 1,027,323 | +9.5 |
|  | 198, 194 | 211,687 | 237, 807 | ${ }^{3} 220,248$ | 235, 648 | 209, 944 | 201, 788 | $+7.0$ | +16.8 | 994, 168 | 1, 103, 584 | +11.0 |
| Stocks, end of month.--.-.-.-.-.-- short tons.Stocks of waste paper, end of month: | 49,172 | 50, 490 | 40, 424 | 40.312 | 48.906 | 50,211 | 48,906 | +21.3 | 0.0 |  |  |  |
| On hand .................short tons.- | 157,185 62,791 | $\begin{gathered} 142,723 \\ 60,918 \end{gathered}$ | $\begin{array}{r} 139,775 \\ 47,582 \end{array}$ | $\begin{aligned} & 132,719 \\ & 4755 \end{aligned}$ | $127,352$ | $\mathbf{1 4 7 , 9 3 8}$ | $149,438$ | $\begin{aligned} & -4.0 \\ & -2.8 \end{aligned}$ | $-14.8$ |  |  |  |

*See tables on p. 48 of the May, 1928, issue for earlier data.

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 May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February 1928, "Survey"'} \& \multicolumn{5}{|c|}{1928} \& \multicolumn{2}{|c|}{192\%} \& \multicolumn{2}{|l|}{per cent inCREASE ( + ) OR
DECREASE \((-)\) DECREASE ( - )} \& \multicolumn{2}{|l|}{CUMULATIVE TOTAL FROM JANUARY 1
THROUGH MAY 31} \& \multirow[t]{2}{*}{\begin{tabular}{|c} 
Per ct. \\
In- \\
crease \\
( \\
or de- \\
creas \\
creas \\
c-mu- \\
cumive \\
lative \\
1928 \\
from \\
1927 \\
\hline
\end{tabular}} \\
\hline \& January \& \[
\begin{aligned}
\& \text { Feb- } \\
\& \text { ruary }
\end{aligned}
\] \& March \& April \& May \& April \& May \& \[
\begin{aligned}
\& \text { May, } \\
\& \text { 1928, } \\
\& \text { from } \\
\& \text { April, } \\
\& 1928
\end{aligned}
\] \& May, from \(\underset{1927}{\text { May, }}\) \& 192\% \& 1928 \& \\
\hline \multicolumn{13}{|l|}{PAPER AND PRINTING-Continued Other Paper} \\
\hline Binder's board, production.---.-.--short tons.- \& 2,547 \& 4,382 \& 3,626 \& 3,450 \& 3,720 \& 3,040 \& 2.796 \& +7.8 \& +33.0 \& 13, 646 \& 17,725 \& +29.9 \\
\hline Book paper: \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  \& 121, 509 \& 123,939 \({ }_{93}\) \& 137, 572 \& 125, 191 \& 130, 199 \& 110, 217 \& 103, 604 \& \({ }_{-1.1}^{+4.0}\) \& +25.7 \& 569, 194 \& 638, 410 \& +12.2 \\
\hline Shipments -.-.----------.-- -short tons-- \& 125. 033 \& 123, 567 \& \({ }^{135,370}\) \& 117, 304 \& 124. 861 \& 110,658 \& 100, 185 \& +6.4 \& +24.6 \& 562, 281 \& 626, 135 \& +11.4 \\
\hline Stocks, end of month----------short tons.- \& 68, 265 \& 69, 630 \& 72, 415 \& 81.105 \& 86, 782 \& 66, 099 \& 71,387 \& +7.0 \& -21.6 \& \& \& \\
\hline Coated .-. p. ct. of normal production.. \& 83 \& 96 \& 88 \& 97 \& 74 \& 87 \& 84 \& -23.7 \& -11.9 \& \& \& \\
\hline Uncoated--p. ct. of normal production.. \& 87 \& 86 \& 81 \& 84 \& 77 \& 90 \& 89 \& \(-8.3\) \& \(-13.5\) \& \& \& \\
\hline Unfilled orders, end of month- \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Coated-.-p. ct. of normal production.- \& 11
9 \& 11
9 \& 10
8 \& 12
9 \& 11
7 \& 10
10 \& 12 \& -8.3 \& -8.3
-30.0 \& \& \& \\
\hline Wrapping paper: \& \& 93,249 \& 101.618 \& \({ }^{3} 91,744\) \& \& 93,419 \& 84, 451 \& \& +15.7 \& 453, 916 \& 480, 536 \& +5.9 \\
\hline  \& 91 \& 89 \& \& \& \({ }^{87}\) \& \& \& +1.2 \& +15. \& 453,910 \& \& +5.9 \\
\hline Shipments.-.-..---.....-...-short tons.- \& \({ }^{93} 144\) \& 93. 249 \& 96. 334 \& 3 89, 542 \& 94.478 \& 87.627 \& 80, 735 \& +5.5 \& +17.0 \& 439,924 \& 466, 747 \& +6. 1 \\
\hline Stocks, end of month --.-.------short tons.-. \& 87, 895 \& 87, 593 \& 92, 551 \& \({ }^{3} 93,975\) \& 97, 228 \& 72,705 \& 73, 031 \& \(+3.5\) \& \(-33.0\) \& \& \& \\
\hline \begin{tabular}{l}
Fine paper: \\
Production short tons
\end{tabular} \& 37, 471 \& 38,870 \& 42,399 \& 40, 288 \& 40,904 \& 40,539 \& 38,734 \& +1.5 \& +5.6 \& 187.680 \& 199, 932 \& \(+6.5\) \\
\hline Ratio to capacity .-.---...- \({ }^{\text {per cent-- }}\) \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline  \& 35,550
52.410 \& 38,287
52.973 \& 43,489
51,850 \& 37,548
53,741 \& 40.863
53.791 \& 39,931
49.446 \& 38.424
\[
50.436
\] \& +8.8
+.1 \& \[
\begin{aligned}
\& +6.3 \\
\& +6.7
\end{aligned}
\] \& 189, 051 \& 195, 707 \& +3.0 \\
\hline All other grades: \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Production.----------------.-- short toas-- \& 99,588 \& \({ }^{96,075}\) \& \({ }^{3} 106,528\) \& 399.266
397
3
808 \& 107, 475 \& 99, 211 \& 100,357 \& +8.3 \& +7.1 \& 502, 692 \& 508,932 \& +1.2
+1.0 \\
\hline Shipments \(\qquad\) short tons Stocks, end of month............. short tons \& 98,946
60.838 \& 93,680
66,766 \& 3

3
306,905

66,460 \& | 3 |
| :--- |
| 3 |
| 3 |
| 69,8988 | \& 105,705

71,569 \& $\begin{array}{r}98.063 \\ \hline 67.589\end{array}$ \& 98,298
72,942 \& +8.0
+2.5 \& +7.5
$+\quad-1.9$ \& 499.053 \& 504, 094 \& <br>
\hline Total paper (inc. newsprint and box board): \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline  \& $$
\begin{array}{r}
679,381 \\
82
\end{array}
$$ \& \[

$$
\begin{array}{r}
677,501 \\
82
\end{array}
$$

\] \& \[

$$
\begin{array}{|l} 
\\
\\
\\
735.622 \\
8
\end{array}
$$

\] \& \[

$$
\begin{array}{|}
3 \\
3 \\
65.088 \\
85
\end{array}
$$
\] \& 744.209

83 \& 678,867 \& 654, 757 \& +7.1
+2.4 \& +i3.7 \& 3, 347,945 \& 3, 531, 801 \& +5.5 <br>
\hline  \& 665, 078 \& ${ }^{670} 136$ \& ${ }^{3} 732.627$ \& ${ }^{3} 680.953$ \& 724,095 \& 674, 889 \& 646,414 \& +6.3 \& +12.0 \& $3,318,563$ \& 3, 472, 889 \& $+4.7$ <br>
\hline Stocks, end of month.---------short tons-- \& 344, 485 \& 355, 951 \& ${ }^{3} 358,384$ \& ${ }^{3} 372,665$ \& 395, 483 \& 330, 155 \& 340,985 \& +6.1 \& +16.0 \& \& \& <br>
\hline \multicolumn{13}{|l|}{Paper-board Shipping Boxes} <br>
\hline Production: \& 347, 622 \& 402, 183 \& 425,361 \& 405,319 \& 398,473 \& \& 406, 633 \& -1.7 \& -2.0 \& \& 1,978, 958 \& <br>
\hline  \& 227, 280 \& 326, 430 \& 348,835 \& 327,815 \& 323,493 \& 322,002 \& 326, 474 \& -1.3 \& --.9 \& 1, 617,463 \& 1, $1,583,853$ \& $-3.9$ <br>
\hline  \& 70,342 \& 75, 753 \& 76, 526 \& 78,845 \& 74,980 \& 81, 163 \& 80, 159 \& -4.9 \& -6. 5 \& 1, 406,358 \& ${ }^{376,446}$ \& $-7.4$ <br>
\hline Operating activity: \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Total...--.............per cent of normal.- \& \& 77 \& 80
78 \& 74
72 \& 72
69 \& 77
76 \& \& -2.7 \& -4.0
-8.0 \& \& \& <br>
\hline Corrugated $\qquad$ per cent of normal.- \& 75 \& 84 \& 88 \& 88 \& 80 \& 77 \& 76 \& -0.0 \& -8.3
+5.3 \& \& \& <br>
\hline \multicolumn{13}{|l|}{Other Paper Products} <br>

\hline \multirow[t]{2}{*}{| Abrasive paper and cloth: |
| :--- |
|  |
| Foreign sales. |
| reams. |} \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline \& 80,503

17,112 \& -8,169 \& -96,858 \& $$
\begin{array}{r}
8 \\
81,782 \\
19,634
\end{array}
$$ \& 94, 18,944 \& -16,714 \& \[

$$
\begin{aligned}
& 85,928 \\
& 17,735
\end{aligned}
$$
\] \& ${ }_{-3.5}^{+15.3}$ \& +9.8

+6.8 \& 81, 437 \& 437,4
92 \& +13.5 <br>
\hline \multicolumn{13}{|l|}{BULLDING CONSTRUCTION AND} <br>
\hline Rental advertisements, Minneapolis. number-- \& 2,473 \& 23,465 \& 3. 8820 \& 5,561 \& 5,212 \& 5,895 \& 5,828 \& $-6.3$ \& $-10.6$ \& 21,992 \& 19,531 \& -11.2 <br>
\hline \multicolumn{9}{|l|}{Building Costs} \& \& 2587,035 \& ${ }^{2} 582,597$ \& -. 8 <br>
\hline Suilding materials:
Frame house, 6 room..........rel. to 1913..- \& 178 \& 182 \& 184 \& 179 \& 177 \& 190 \& 189 \& -1.1 \& -6.3 \& \& \& <br>
\hline Brick house, 6 room...........-rel to 1913-- \& 183 \& 186 \& 187 \& 184 \& 183 \& 189 \& 189 \& $-.5$ \& $-3.2$ \& \& \& <br>
\hline Concrete factory costs (Aberthaw) - rel. to 1914-- \& 192 \& 192 \& 192 \& 191 \& 191 \& 193 \& 193 \& 0.0 \& -1.0 \& \& \& <br>
\hline \multirow[t]{2}{*}{Building costs (Eng. News Record)_rel. to 1913 Building costs (A. G. C.) ...........rel. to 1913} \& 205 \& 205 \& ${ }^{206}$ \& 207 \& 206 \& 207 \& 206 \& $-.5$ \& 0.0 \& \& \& <br>
\hline \& 199 \& 199 \& 197 \& 197 \& 197 \& 201 \& 200 \& 0.0 \& -1.5 \& \& \& <br>
\hline \multicolumn{13}{|l|}{Construction costs ( Am. Appraisal) : 1913} <br>
\hline Brick, wood frame.-.-.---------- rel. to 1913-- \& 214 \& 212 \& 212 \& 212 \& 212 \& 213 \& 213 \& 0.0 \& -. 5 \& \& \& <br>
\hline Brick, steel frame-...-.-.----- rel. to 1913-- \& 196 \& 197 \& 197 \& 197 \& 197 \& 197 \& 196 \& 0.0 \& +. 5 \& \& \& <br>
\hline Reinforced concrete. .---------rel. to 1913--1 \& 200 \& 200 \& 200 \& 200 \& 200 \& 200 \& 199 \& 0.0 \& +. 5 \& \& \& <br>
\hline \multicolumn{13}{|l|}{Contraets and Losses} <br>
\hline \multicolumn{13}{|l|}{} <br>
\hline Commercial buildings....- thous. of sq . ft . Industrial buildings -...... thous. of sq. ft _ \& 10,803
4,412 \& 9,084
5,384 \& 10,526
6,940 \& 13,896
10,834 \& 14,316
6,020 \& 12,259
9,187 \& 12,499
6,062 \& $\begin{array}{r}+3.0 \\ -44.4 \\ \hline\end{array}$ \& +14.5
-8 \& 58,306
29,446 \& ${ }_{33,590}^{58,925}$ \& +1.1
+14.1 <br>
\hline Residential buildings .-..---thous. of sq. ft-- \& 37,516 \& 42, 448 \& 54, 582 \& 55, 281 \& 56, 655 \& 47, 731 \& 38,223 \& +2.5 \& +48.2 \& 194, 679 \& 246, 582 \& $+26.7$ <br>
\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{}} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline prand total --......-.--thous. of sa. ft.. \& 60,271 \& 65, 137 \& 84, 266 \& 91, 222 \& 91, 693 \& 79, 722 \& 70,580 \& +. 5 \& +29.9 \& 336, 045 \& 392, 589 \& +16.8 <br>
\hline \multicolumn{13}{|l|}{Contracts awarded, value (36 states):} <br>
\hline Commercial buildings.---- thous. of dolls.-- \& 65,981
34,83 \& 51,564
31,716 \& 69,490
48.068 \& 80,514
83,208 \& 87,162
31,627 \& 78,084
40,032 \& 69,183
42,809 \& +8.3
-62.0 \& +26.0
-26.2 \& 397,958
197,976 \& 354,711
229,452 \& -10.9
+15.9 <br>
\hline Residential buildings-------thous of dolls.- \& 186,994 \& 232,574 \& 266.069 \& 269, 325 \& 280, 292 \& 259,841 \& 212, 500 \& +4.1 \& +31.9 \& 1,030, 686 \& 1,235, 164 \& +19.8 <br>
\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{Edueational buildings - - - - -thous of dolls.
Other public and semi-}} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Public works and utilities .thous. of dolls.- \& 69,676 \& 56, 134 \& 106, 511 \& 113, 746 \& 144,738 \& 113, 246 \& 105, 220 \& $+27.2$ \& +37.6 \& 423, 179 \& 490, 805 \& $+\mathrm{IC.0}$ <br>
\hline Grand total .........--thous. of dolls.- \& 410,535 \& 444, 023 \& 572.847 \& 624,523 \& 641, 395 \& 583, 766 \& 530, 762 \& +2.7 \& $+20.8$ \& 2, 460, 618 \& 2, 693, 323 \& +9.5 <br>
\hline Contracts awarded, Canada....thous. of dolls.- \& 20,480 \& 25,875 \& 22, 940 \& 56, 346 \& 70,684 \& 38, 582 \& 46,758 \& +25.4 \& +51.2 \& 139, 095 \& 196,331 \& +41.1 <br>

\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{| Building volume ( A. G. C.) $\ldots \ldots$ rel. to $1913 \ldots$ <br> Fire losses: |
| :--- |}} <br>

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

\hline \multirow[t]{2}{*}{| United States and Canada |
| :--- |
| (Journal of Conmerce) . . thous, of dolls. |
| Canada (Monetary Times). thous. of dolls.. |} \& 43,201 \& 41, 105 \& 30.377 \& 25, 981 \& 23, 202 \& 39,721 \& 20, 713 \& -10.7 \& +12.0 \& 151,438 \& 163, 926 \& +8.2 <br>

\hline \& 2,959 \& 1,713 \& 2,04 \& 2,101 \& 2,860 \& 2,173 \& 1,338 \& +36. 1 \& +113.8 \& 10, 226 \& 11, 681 \& +14.2 <br>
\hline
\end{tabular}

[^7]TREND OF BUSINESS MOVEMENTS-Continued


TREND OF bUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1928 |  |  |  |  | 1927 |  | per cent increase ( + ) or decrease ( - ) |  | cumulative total from jandary l through may 31 |  | Per ct.in.crease( + )or de-crease(-cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\begin{aligned} & \text { Feb- } \\ & \text { ruary } \end{aligned}$ | March | April | May | April | May | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { April, } \\ & \text { 1928 } \end{aligned}$ | May, from May, 1927 | 1927 | 1928 |  |
| LUMBER PRODUCTS-Continued <br> Flooring |  |  |  |  |  |  |  |  |  |  |  |  |
| Maple flooring: <br> Production M ft. b. m. |  |  | 7,862 |  |  | 8,141 | 8,282 | -3.6 |  |  |  |  |
| Shipments.............................. ft. b. m.. | 7,252 | 6,889 | 8,184 | 7,545 | 8,256 | 10,022 | 11,921 | +9.4 | $-30.7$ | 47,271 | 38, 126 | -19.3 |
| Stocks, end of month.........-M Mt f. b. m-- | 28,721 | 29, 118 | 28,036 | 28,326 | 27, 514 | 28,154 | 25,055 | -2.9 | +9.8 |  |  |  |
| New orders--...-.-...--.-M M ft. b. m -- | 8,161 | 7,712 | 7,211 | 7,036 | 9,197 | 9,103 | 11,785 | $+30.7$ | -22.0 | 42,000 | 39,317 | $-6.4$ |
| Unflled orders, end of month ${ }_{\text {- }}$ M ft. b. m-- | 9,154 | 10,034 | 9,816 | 9,963 | 11, 423 | 10,856 | 13, 238 | +14.7 | -13.7 |  |  |  |
| Production...................... M ft. b. m..- | 35,947 | 38,771 | 42,272 | 42,924 | 47,785 | 35,697 | 40,380 | +11.3 | +18.3 | 186, 810 | 207,699 | +11.2 |
| Shipments-..-............................ ft. b. m.. | 38,080 | 40, 232 | 47, 599 | 46, 105 | 50,256 | 40,970 | 49,034 | +9.0 | +2.5 | 199, 393 | 222, 272 | +11.5 |
| Stocks, end of month.........-M ft. b. m-. | 82, 239 | 82, 758 | 78,855 | 77, 491 | 75, 948 | 62, 196 | 51, 430 | -2.0 | +47.7 |  |  |  |
|  | 53,888 | 36, 163 | 48,815 | 46,071 | 50, 295 | 45,763 | 48, 424 | +9.2 | +3.9 | 215, 426 | 235, 232 | +9.2 |
| Doors at wholesale* |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of month.........-.-.-number.- | 111,313 | 116,234 | 163, 986 | 83,908 | 68,396 |  |  | -18.5 |  |  |  |  |
| Unsold stock, end of month. ......number-- | 94, 534 | 88, 582 | 121,445 | 61,048 | 46, 758 |  |  | -23.4 |  |  |  |  |
|  | 9,175 | 18,069 | 29,822 | 10,006 | 12,117 |  |  | +21.1 |  |  |  |  |
|  | 8,860 | 15, 524 | 31,339 | 17, 218 | 9,010 |  |  | $-47.7$ |  |  |  |  |
| Stocks, end of month....--------number-- | 47,601 | 80,340 | 113,361 | 87,199 | 47,315 |  |  | -45.7 |  |  |  |  |
| Wooden Furniture |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 55 | 54 | 53 | 47 |  | 47 | 44 |  |  |  |  |  |
| Cancellations......-per cent of new orders-. | 7.0 | 13.0 | 7.0 | 12.0 |  | ${ }^{265.0}$ | ${ }_{95}^{10.0}$ |  |  |  |  |  |
| Piano benches and stools:Prant |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders (av. per frm) .-.......dollars.- <br> Unflled orders, end of month | 7,043 | 7,556 | 6,818 | 5,626 | 6,581 | 8,129 | 7,011 | +17.0 | -6.1 | 39,984 | 33,624 | -15.9 |
| (av. per firm) .-.........................dollars.-Shipments- | 2,851 | 2,076 | 1,978 | 1,650 | 2, 094 | 2,004 | 1,972 | +26.9 | +6.2 |  |  |  |
| Value (av. per firm) .-.........dollars.. | 5,918 | 7,647 | 6,933 | 5,955 |  | 7,935 | 6,976 | +3.0 | -12.0 | 38,853 | 32,569 | -16.2 |
| Quantity (total)......-.........-pieces.. | 7,617 | 9,781 | 9, 104 | 7,694 | 7,958 | 10,218 | 8,900 | +3.4 | -10.6 | 49, 736 | 42,154 | $-15.2$ |
| Plywood: Plywood and Veneer |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders.....thous. of sq. ft. of surface.- | 2,469 | 2,450 | 2,709 | 2,450 |  | 2,362 | 3,426 |  |  | 812,818 | ' 10,078 | -21.4 |
| Shipments.......thous. of sq. ft. of surface.Unflled orders, end of | 2,575 | 2,896 | 3,125 | 2,680 |  | 2,370 | 2,136 |  |  | : 12,082 | ' 11, 276 | -6.7 |
| month.......-thous. of sq. ft. of surface.- | 2, 863 | 2,808 | 3,807 | 2,582 |  | 3,182 | 3,290 |  |  |  |  |  |
| Rotary-cut veneer:PurchasesReceipts........................................ | 80 | 97 | 91 | 173 | 165 | 84 | 100 |  |  | 470 |  |  |
|  | 132 | 115 | 173 | 183 | 229 | 84 | 127 | +25.1 | +80.3 | 432 | 834 | +93.1 |
| STONE, CLAY, AND GLASS PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |
| Clay Products |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production......................thousands.: | ${ }_{402}^{482}$ | ${ }_{447}^{526}$ | 640 686 | ${ }_{768}^{622}$ | 796 925 | 729 | 819 | +28.0 +20.4 | -2.8 | 3,449 3,024 | 3,066 3,228 | -11.1 +6.7 |
|  | 2,958 | 3,037 | 2,960 | 2,757 | 2,517 | 2,614 | 2,507 | +8.7 | +7.8 +4 |  |  |  |
| Unfilled orders, end of month...thousands.. | ${ }^{2} 761$ | ${ }^{3} 84$ | ${ }^{2} 899$ | ${ }^{2} 958$ | , 942 | 1,074 | 1,069 | -1.7 | -11.9 |  |  |  |
| Common brick: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unburned --.-.----............thousands.. | 68, 611 | 64,492 | 69, 460 | 966,998 |  | 100, 953 | 154, 151 |  |  |  |  |  |
| Shipments-...----.-...-.-...thousands-- | 131,338 | 121,089 | 233, 702 | 236, 433 |  | 197, 411 | 237, 107 |  |  | 2590,436 | 272, 562 | +22.4 |
| Unfilled orders, end of month . thousands.- | 219, 233 | 231, 203 | 251, 105 | 275, 872 |  | 348, 211 | 274, 959 |  |  |  |  |  |
| Plants closed down |  |  |  |  |  |  |  |  |  |  |  |  |
| Price, red, New York_-...dolls. per thous.- 12.75 13.50 13.25 13.50 13.50 16.50 15.50 0.0 -12.9 <br> Porcelain plumbing fixtures:          |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 13,239 | 11,969 | 12,079 | 17, 037 | 15,459 |  |  | -9.3 |  |  |  |  |
| Unfilled orders, end of month......-pieces.. | 22,639 | 23,464 | 53, 515 | 96, 125 | 103, 181 |  |  | +7.3 |  |  |  |  |
| Stocks, end of month..............-pieces.. | 37, 374 | 40,930 | 42,442 | 48,831 | 50,819 |  |  | +4.1 |  |  |  |  |
| Vitreous china plumbing fixtures: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 240, 829 | 246, 002 | ${ }^{3} 335$, 948 | ${ }^{3} 2981,130$ | 288, 530 | 220,786 | 246, 223 | $-0.9$ | +17.2 | 1,253, 761 | 1,402, 439 | +11.9 |
| Unfilled orders, end of month...... pieces.- | 329, 482 | 577, 522 | ${ }^{3} 622,215$ | 3 569, 254 | 514,452 | 347, 635 | 342, 717 | -9.0 | $+50.1$ |  |  |  |
| Stocks, end of month....-....-....--pieces.- | 544,461 | 538, 965 | ${ }^{3} 463,180$ | ${ }^{3} 445,752$ | 448,326 | 618, 492 | 607,968 | +0.6 | -26. 3 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments, quantity.......- thous. of st. ft.- | 3,951 | 4,185 | 5, 253 | 5 5,53 |  | 4,948 | 5,092 |  |  | 218,818 | 218,942 | $+.7$ |
| Shipments, value .-......- thous. of dolls.-. | 1,495 13,902 | 1,683 14,169 | 2,035 13,907 | 2,016 |  | 1,879 11,658 | 1,902 11,766 |  |  | ${ }^{2} 7,149$ | 27,229 | +1.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

*See table on p. 18 of the April, 1928, issue for earlier data!
a Cumulative through Apr. 30.
${ }^{3}$ Revised.

TREND OF BUSINESS MOVEMENTS-Continued

$\dagger$ See table on p. 18 of the ApriI, 1928, issue for earlier data.
t See table on p. 18 of the April, 1928, issue for earlier data.
: See table on p. 21 of the March, 1928 , issue for earlier data
I See table on p. 22 of the June, 1928, issue for earlier data.

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"' | 1928 |  |  |  |  | 1927 |  | PER CENT INCREASE ( + ) OR decrease (-) |  | cumulative total FROM JANUARY through max 31 |  | Perin-crease( + )or de-crease(-cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\begin{aligned} & \text { Feb- } \\ & \text { ruary } \end{aligned}$ | March | April | May | April | May | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { April, } \\ & 1928 \end{aligned}$ | May, <br> from <br> $\underset{1927}{\text { May, }}$ | 1927 | 1928 |  |
| CHEMICALS AND OILS-Continued Fats and Oils |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports-..---......-.-.----- thous. of lbs-- | $\begin{array}{r}9,405 \\ 59 \\ \hline 870\end{array}$ | 8,939 | 9,406 | 4,618 | 1,996 | 6,050 | 8,519 | -56.8 | -76.6 | 36,921 | 36,986 | $+0.2$ |
|  | 59,870 26,872 | 49,811 5,178 | 56,179 15,200 | 65,152 11,334 | 57, 21,383 | 72,305 19,107 | 74,369 20,418 | -12.4 +88.7 | -23.3 +4.7 | 284,977 86,473 | 288,061 79,967 | $\pm \underline{-1.5}$ |
| Copra or coconut oil: |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports--...-.-........--thous. of lbs.. | 32,751 | 22, 271 | 20,889 | 23, 112 | 15.076 | 35, 149 | 26,538 | -34.8 | $-43.2$ | 125, 558 | 114, 099 | -9.1 |
| Consumption in oleomargarine................. thous. of lbs. - | 13,191 | 14,009 | 13,381 | 12, 284 | 11,613 | 10,279 | 8,734 | -5.5 | +33.0 | 49,699 | 64,478 | +29.7 |
| Oleomargarine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production......---.--.-..... thous. of libs-- | 26, 205 | 27, 624 | 27, 288 | 24, 291 | 23,74 | 23, 569 | 20,917 | -2.3 | +13.5 | 115, 063 | 129, 152 | +12.2 |
| Consumption ...........-. thous. of lhous.-- | 27,729 | 26,327 | 27,427 6,524 | 22,800 6,587 | 23, 381 | 23,267 6,175 | 20,799 5,840 | +2.5 | +12.4 | 113,515 226,176 | 127,644 226,597 | +12.5 +1.6 |
| Cottonseed |  |  |  |  |  |  |  |  |  |  |  |  |
| Cottonseed: | 339, 212 | 177.229 | 95,296 | 15,947 | 5,660 | 103,239 |  | -64. 5 | -90.0 | 1,574,035 | 633,344 | -59.8 |
| Consumption (erush) --...-......-short tons.- | 570, 408 | 450,627 | 323, 307 | 164, 872 | 66,040 | 352,994 | 196, 510 | -60.9 | $-66.4$ | 2,701, 083 | 1,575,254 | -41.7 |
| Stocks at mills, end of month . short tons.- | 763, 353 | 489, 955 | 261, 944 | 113, 019 | 52, 437 | 311, 931 | 171,852 | $-53.6$ | $-69.5$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 181, 022 | 144,658 159,302 | 108,387 124,730 | 56,945 83,371 | 24,437 47,409 | 106,887 123,141 | 62,182 73,029 | -57.1 | -60.7 -35.1 | 817,420 | 515,449 | -36.9 |
| Cottonseed oil, refined: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production--...-.-.----....thous. of lbs.- | 143, 378 | 138,231 | 124,848 | 84, 159 | 61,935 | 111,408 | 91, 455 | -26.4 | -32. 3 | 780, 877 | 552, 551 | -29.2 |
| Stocks, end of month .-.-...-thous. of lbs.- | 538, 257 | 566, 832 | 541,640 | 516, 232 | 480, 431 | 531, 376 | 507, 762 | -6.9 | -5.4 |  |  |  |
| Price, yellow, prime, N. Y .-.dolls. per lb | 101 | . 093 | . 096 | . 099 | 106 | 091 | 091 | +7.1 | +16.5 |  |  |  |
| Consumption in oleomarg - . - thous. of lbs... | 2,162 | 2,114 | 2, 214 | 2,015 | 2,135 | 2,173 | 1,974 | +6.0 | +8.2 | 10, 653 | 10,640 | -. 1 |
| Cottonseed cake and meal: |  |  |  |  |  |  |  |  |  |  |  | -40.3 |
| Stocks, end of month..........-short tons.- | 177, 118 | 170, 827 | 111, 819 | 84, 870 | 59,745 | 180,741 | 153,853 | -29.6 | $-61.2$ |  |  |  |
| Exports.-.........--.-.-......-short tens-- | 53, 249 | 27, 671 | 12,514 | 8,230 | 4,906 | 8,636 | 21, 527 | $-40.4$ | -77.2 | 196, 897 | 106,570 | $-45.9$ |
| Flasseed |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts.-.-.-.-.-.-- --- thous. of bushs... | 925 | 660 | 595 | 474 | 650 | 374 | 491 | +37.1 | +32.4 | 2,741 | 3,304 | +20.5 |
| Shipments ---.---.---- thous. of bushs-- | 576 | 457 | 612 | 584 | 675 | 330 | 338 | +15.6 | +99.7 | 2.024 | 2,904 | +43.5 |
| Stocks, end of month....--thous. of bushs Imports | 3,212 1,181 | 2,668 | 2,087 | 1,627 1,718 | 856 2,156 | 1,860 2,360 | 1,381 2,376 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Snipments from Minneapolis thous. of lbs-- | 13,023 | 12,917 | 15,722 | 15, 079 | 17, 245 | 10,826 | 10, 051 | +14.4 | $\underline{+57.5}$ | 50,364 | 73,985 | +46.9 |
| Price, New York --.----......dolls. per Ib Linseed cake and meal | . 098 | . 098 | . 099 | . 098 | . 103 | . 106 | . 115 | +5. 1 | -10.4 |  |  |  |
| Shipments from Minneapolis thous. of lbs.. | 27,056 | 28, 54.0 | 29,547 | 21, 607 | 10,621 | 11, 178 | 7,801 | -23.1 | +113.1 | 70,881 | 123, 371 | +74.1 |
| Exports....-.........-.......thous. of lbs..- | 44,367 | 53,532 | 53, 686 | 38, 582 | 45, 331 | 64, 896 | 41,403 | +17.5 | +9.5 | 286, 590 | 235, 498 | -17.8 |
| FOODSTUEFS |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |  |  |
| Visible supply, end of month:United states.-........-thous. of bushs.--Canada |  |  |  |  |  |  |  | -10.8 | +67.9 |  |  |  |
|  | 152,560 | 152, 760 | 143,919 | 129, 522 | 112,054 | 83,121 | 64, 600 | -13.5 | +73.5 + |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, principal markets - thous of bushs-- | 23, 542 | 22,488 | 26, 263 | 17,949 | 24,481 | 14,420 | 19, 258 | +36.4 | $+27.1$ | 95, 839 | 114,723 | $+19.7$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat only ..........thous. of bushs.- | 5,956 | 2,276 | 2,740 | 2,723 | 4, 823 | 11,363 | 8,960 | +77.1 | -46. 2 | 38,374 | 18,518 | -51.7 |
| Including wheat lour hous. of bushs.-. | 11,560 | 6, 226 | 7,290 | 7,660 | ${ }_{8,624}^{4,8}$ | 15,935 | 13,903 | +12.6 | -38.0 | 60, 288 | 41, 670 | $-30.9$ |
| $\underset{\text { Wheat only ..........thous. of bushs }}{\text { Canada- }}$ |  |  |  |  |  |  |  | +262.2 | +5.5 |  | 90, 871 | +1.8 |
| Including wheat flour thous. of bushs.-- | 15,201 18,647 | 18,828 | -23,794 | 11, 103 | 34, 268 | 22,050 | 28,316 | +208.6 | +6.0 | 106, 234 | 109, 640 | +3.2 |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |
| No. 2, red winter, Cbicago_dolls. per bush -- | 1.43 | 1.54 | 1. 62 | 1.81 | 1.90 | 1.34 | 1.44 | +5.0 | +31.9 |  |  |  |
| No. 1, northern spring, cash, Minneapolis........dolls. per bush.- | 1.293 | 1.263 | 1.315 | 1.417 | 1.592 | 1.341 | 1. 444 | +6.0 | +4.0 |  |  |  |
| Wheat Flour |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States ..........---thous. of bushs-- | ${ }^{3} 42,403$ | ${ }^{41,140}$ | 44, 748 | : 38,986 | 39,401 | 38,028 | 38,924 6558 | +1.1 | +1.2 | 193,710 294,358 | $\begin{aligned} & 206,678 \\ & 227,522 \end{aligned}$ | +6.7 +13.0 |
| Canada | 7,246 | 6,737 | 7,481 | 6,058 |  | 5,281 | 6,658 |  |  | ${ }^{2} 24,358$ | ${ }^{2} 27,522$ | +13.0 |
| United States, actual.....--thous of hbls-- | 9,132 | 8,872 | 9,659 | ${ }^{3} 8,400$ | 8.493 | 8,309 | 8,497 | +1.1 | +. 5 | 42,389 | -44, 556 | +5. 1 |
| United States, prorated.....thous. of bobs.. | 10, 502 | 10, 107 | 10,738 | 9.691 |  | 9, 667 | 9,532 |  |  | ${ }^{2} 38,735$ | ${ }^{2} 41,008$ | $+5.9$ |
| Canada-...-.---------- thous. of bbls-- | 1,579 | 1,464 | 1,617 | 1,3i4 |  | 1,154 | 1,455 |  |  | $\stackrel{\text { 2 }}{5}$ 5,336 | r ${ }^{2} 5,974$ | +12.0 +9.4 |
| Production, grain offil ----------thous. of lbs Capacity operated, flour mills per cent | - ${ }^{344,527} 5$ | 727, 288 | 700, 088 | ${ }^{3} 886,720$ | $\begin{array}{r} 697,012 \\ 50 \end{array}$ | 659, 1988 | 672, 824 | $\begin{aligned} & +1.4 \\ & -2.0 \end{aligned}$ | $\begin{array}{r} +15.6 \\ -3.8 \end{array}$ | 3,332, 879 | 3,645, 634 | +9.4 |
| Consumption (computed) ....-thous of bbls.- | 8,207 | 9,340 | 10,499 | 8,064 |  | 8, 551 | 8,733 |  |  |  |  |  |
| Stocks, all positions, end of <br> month (computed) $\qquad$ thous. of bbls. | 7,150 | 6,970 | 6, 200 | 6, 760 |  | 6, 600 | 6,300 |  |  |  |  |  |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |
| United States ....--------- thous. of bbls | 1,245 | 947 | 1,011 | 1, 067 | 845 | 1,016 | 1,999 | $-23.0$ | $-23.1$ | 4, 865 | 5,145 | +5.8 |
| Canada .-....----......-- thous. of bbls-. | 766 | 768 | 1,142 | ${ }_{6} 609$ | 886 | ${ }^{1} 45$ | 80.4 | + 4.5 .5 | +10.2 | 3, 760 | 4,171 | +10.9 |
| Wholesale prices: <br> Standard patents, Minn...-dolls, per bbl.-. | 7.45 | 7.37 |  |  |  | 7.25 |  | +4.7 |  |  |  |  |
| Standard patents, Minn..--dois. per bbl.-Winter, straights, | 7.45 | 7.37 | 7.54 |  | 8.49 | 8.25 | 7.83 | +4. 7 | +8.4 |  |  |  |
| Kansas City | 6. 70 | 6.66 | 6.88 | 7.56 | 7.63 | 6. 58 | e. 96 | +. 9 | +9.6 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are throughMay, except where otherwise noted. Earlier data for items shown here may be found on pages 24, to 138 of theFebruary, 1928 , "Survey"" | 1928 |  |  |  |  | 1927 |  | PER CENT INCREASE ( + ) OR DECREASE ( - ) |  | cumulative fotalfromJANOARY1 throjeg may 31 |  | Per ct.increasecraseor de.orease$(-$cumu.cutivelive1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\underset{\text { ruary }}{\text { Feb- }}$ | March | April | May | April | May | $\begin{gathered} \text { May, } \\ \text { May, } \\ \text { 1920, } \\ \text { fromil, } \\ \text { April, } \\ \text { 1928 } \end{gathered}$ | $\begin{aligned} & \text { May, } \\ & \text { Mas, } \\ & \text { Iromy, } \\ & \text { Masy, } \\ & \text { M927 } \end{aligned}$ | 1927 | 1928 |  |
| FOODSTUFFs-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,705 <br> 705 <br> 168 <br> 994 | $\begin{array}{r}1,669 \\ \text { 1 } \\ 729 \\ 109 \\ 945 \\ \hline\end{array}$ | 1,520 <br> 705 <br> 95 <br> 814 | 1,591 +78 134 814 814 | 1,952 \% 924 205 951 | $\begin{array}{r}1,486 \\ \hline 690 \\ 118 \\ 800 \\ \hline 8\end{array}$ | 2,013 1, 064 269 951 951 | +22.7 +27.8 +53.0 +16.8 |  | 8,298 <br> 3,961 <br> , 960 <br> 4,344 | 8,437 3 3,911 6511 4,518 | +1.7 -1.7 -2.4 +4.0 |
| Lamb and mutton: <br> Production, inspected.........thous. of Ibs Apparent consumption_........thous. of libs. Cold-storage holdings, | 47,081 47,055 | 44,057 44,428 | ${ }_{42,052}^{429}$ | 36,248 3 38,039 | 38,455 40,177 |  | 37,731 <br> 38,452 | ${ }_{+5.6}^{+6.1}$ | +1.9 +4.5 +2. | 201, 491 | 207,971 212,751 | $\stackrel{+}{+3.2}$ |
| end mo $\qquad$ thous. of lbs.. | 4,404 | 4,020 | 3,262 | 1,828 | 1,235 | 1,862 | 1,210 | -32.4 | +2.1 |  |  |  |
| Sheep, ewes, Chicago....dolls. per 100 lbs . Sheep, lambs, Chicago...-dolls. per 100 lbs.- | - ${ }_{\text {12.05 }}^{6.65}$ | 8.16 15.13 | $\begin{array}{r} 8.41 \\ 15.38 \end{array}$ | $\begin{gathered} 8.90 \\ 15.98 \end{gathered}$ | 7.31 15.13 | $\begin{array}{r}7.78 \\ \hline 15.81\end{array}$ | $\begin{array}{r} 5.90 \\ 14.85 \end{array}$ | ${ }_{-4.9}^{-17.9}$ | +23 +2.9 |  |  |  |
| Miscellaneous Meats |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Meats |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, inspected ...........thous. of libs. | 1,370 | 1,43 | 1,310,789 | 983, 046 | 1,134, 010 | 1,062, 230 | 15 | +15.4 | -3.0 | 5,726,831 | 6,230, 132 | +8.8 |
| A pparent consumption.....-.-.thous. of libs. | 1,116,668 | 1,065,135 | 1,046, 326 | ${ }^{3} 1,242,2006$ | 1, 1 1, ${ }^{\text {205, }}$ | ${ }_{948,077}^{93,134}$ | ${ }^{1}, 062,251$ | +16.3 | $\stackrel{+19}{+1}$ | 4, 991, 948 | 5,264, $800^{\circ}$ | +5 |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts at 5 markets.............thous. of lbs. Cold-storage holdings, end of mo.thous of lbs | 29, 347 | $\begin{gathered} 20,855 \\ 103,494 \end{gathered}$ | $\begin{aligned} & 18,135 \\ & 83,169 \end{aligned}$ | $\begin{gathered} 16,006 \\ { }_{3}^{566,832} \end{gathered}$ | 17,862 43,915 | $\xrightarrow{13,956}$ | $\begin{aligned} & 20,157 \\ & 61,525 \end{aligned}$ | ${ }_{-22.7}^{+11.6}$ | -11.4 | 96, 543 | 102, 207 | +5.9 |
| Fish |  |  |  |  |  |  |  |  |  |  |  |  |
| Total catch, prin. fishing ports... thous. of lbs. Cold-storage holdings, 15 th of mo thous of lbs | $\begin{aligned} & 14,300 \\ & 53,921 \end{aligned}$ | $\begin{aligned} & 18,860 \\ & 44,877 \end{aligned}$ | $\begin{aligned} & 28,316 \\ & 34,528 \end{aligned}$ | $\begin{array}{r} 24,387 \\ 3 \\ 26,473 \end{array}$ | 27, 650 26,358 | $\begin{gathered} 20,556 \\ 24,731 \end{gathered}$ | ${ }_{29,782}^{25,171}$ | $\underline{+13.4}$ | ${ }_{-11.5}^{+9.8}$ | 111,826 | 113, 513 | +1.5 |
| Canned salmon: <br>  | $\begin{gathered} 254,394 \\ 168,946 \end{gathered}$ | $\begin{gathered} 316,392 \\ 79,760 \end{gathered}$ | 314,241 103,127 | $\begin{array}{r} 116,155 \\ 37,231 \end{array}$ | 42,117 | 206,647 53,450 | $\xrightarrow{288,120} 6$ | +13.1 | -34.8 | $\begin{aligned} & 1,546,965 \\ & \hline 417,247 \end{aligned}$ | $\begin{array}{r} 21,001,184 \\ \quad \begin{array}{c} 211 \\ 181 \end{array} \end{array}$ | $\stackrel{-39.2}{+.9}$ |
| Butter |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (factory)...-------....thous. of lbs Cold-storage holdings, creamery, | 103,861 42,271 | 96,768 41,140 | $\begin{aligned} & 107,899 \\ & 45,778 \end{aligned}$ | ${ }_{44,781}^{117}$ | 156,020 54,427 | 124,099 48,279 | 165,790 | +32.5 +21.7 | -5.9 -14.6 | 583,248 238 | 582,302 228,307 | 0.0 -2.1 |
| end of month....................thous. of libs.- Apparent consumption | $\begin{array}{r} 88,273 \\ 159,687 \end{array}$ | $\begin{array}{r} 14,404 \\ 143,844 \\ 47 \end{array}$ | $\begin{gathered} 5,716 \\ 156,505 \\ \hline 49 \end{gathered}$ | $\begin{array}{r} 5,109 \\ 163,257 \\ 109 \\ 45 \end{array}$ | $\begin{gathered} 16,020 \\ { }_{205,97}^{407} \end{gathered}$ | $\begin{gathered} 3,436 \\ 165,82 \end{gathered}$ | $\begin{array}{r} 25,404 \\ 149,660 \\ 10 \end{array}$ | $\begin{array}{r} +213.6 \\ +26.2 \end{array}$ | $\begin{array}{r} -36.9 \\ +376 \\ +47 \end{array}$ | 751,661 | 829, 266 | +10.3 |
| Cheese |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, all varieties: <br> Production (factory) $\qquad$ thous. of lbs. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 24, 14.409 | 24,456 13,716 | 30,410 14,655 |  | 40, ${ }^{1655}$ | 38,126 16,923 | 51, 262 21,301 | +39.2 | $\mathrm{-}_{-23.7}^{21.4}$ | 175,175 80,788 | ${ }^{148,164}$ | -15.4 |
| A pparent consumption-.....thous. of libs. | 37, 408 | ${ }^{36,618}$ | 41, 490 | - 36,570 | 38, 807 | 38, 212 | 年 41,420 | ${ }_{+6.1}^{+1}$ | -8.5 | 196,378 | 190, 893 | -2.8 |
| Cold-storage holdings, end mo-thous. of libs | $\underset{55,862}{5}$ |  | $\begin{array}{r}43,303 \\ 5 \\ 5 \\ \hline 79\end{array}$ | ${ }^{3}{ }^{411,791} \mathbf{6 , 2 9}$ | $\begin{array}{r}49,030 \\ 6,280 \\ \hline\end{array}$ |  | $\xrightarrow{50,864} 7$ | +17.3 | - ${ }^{-3.6}$ |  | 28,918 | -10.2 |
| Exports, United States....-.-.thous. of libs |  |  | -266 | ${ }^{6} 187$ | $\stackrel{303}{ }$ | , 327 | , 297 | +62. | +2.0 +8 | 1, 696 | $1{ }_{1}, 221$ | $-28.0$ |
| Exports, Canada------.-.-thous. of lbs | 1,324 | 1,148 | 2,011 | 668 | 4,860 | 1,117 | 2,619 | +627.5 | +85.6 | 13, 540 | 10,011 | $-26.1$ |
| Cold-storage holdings, end mo_thous. of lbsWholesale price, New York .-dolls. per lb. | ${ }^{41,793}$ | $\xrightarrow{36,710}$ | ${ }^{31,887}$ | $\stackrel{3}{230,207}$ | $\xrightarrow{36,803}$ | $\stackrel{32,487}{.24}$ | ${ }^{35,826}$ | $\underline{+21.8} 0$ | ${ }^{+2.0}$ |  |  |  |
| Eggs |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, 5 markets.............thous. of cases. Cold-storage holdings, end of month: | 862 | 1,320 | 2,034 | 2,360 | 2,503 | 2,729 | 2,523 | +6.1 | -. 8 | 9,393 | 9,07 | -3.4 |
|  | $38,575$ | $\begin{array}{r} \text { 36 } \\ 31,362 \end{array}$ | 34,, 087 | $\begin{gathered} 34,515 \\ { }^{5} 51,532 \end{gathered}$ | $\begin{array}{r} 8,162 \\ 68,223 \end{array}$ | 5,501 52,053 | $\begin{gathered} 8,962 \\ 71,605 \end{gathered}$ | $\left\lvert\, \begin{aligned} & +80.8 \\ & +32.4 \end{aligned}\right.$ | -8.9 -4.7 |  |  |  |
| Condensed milk: <br> Mill |  |  |  |  |  |  |  |  |  |  |  |  |
| Total stocks, mirs., end mo.- |  |  |  |  |  |  |  |  |  |  |  |  |
| Case goods..............thous. of ibs.- | 20,618 | $\underset{7,635}{17,94}$ | $\stackrel{15,844}{8,299}$ | ${ }_{8}^{181,757}$ | -22,396 | $\stackrel{14}{14,688}$ | ${ }_{\text {15, }}^{262}$ | ${ }_{+}^{+21.1}$ | -16.1 +5.5 |  |  | , |
| Unsold stocks, mfrs., end mo- Case goods |  |  |  |  |  |  |  |  |  |  |  |  |
| Bulk goods....-.-------thous- | ${ }_{5}^{5,216}$ | 5,230 | 6,034 | 6,453 | 7,937 | 3,689 | 5,220 | $+23.1$ | +52.0 |  |  |  |
| Wxports-- price, Now Yorkidilils. per ease.- | 3,819 6.00 | 2,645 5.88 | ${ }^{4,707}$ | 2,700 5.83 | 3,279 5.83 | 2,761 <br> 5.84 | 3,642 | $\xrightarrow[+21.4]{0.0}$ | -10.0 -1.7 | 14,924 | 17,150 | +14.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 7,360 | $\begin{array}{r}\text { 7,531 } \\ \hline 4.46\end{array}$ | ${ }_{8}^{86,742}$ | 6,421 | - 7 ¢,806 | 7,054 | - ${ }_{7} \mathbf{7 , 3 0 5}$ | ${ }_{+11}^{+21.1}$ | + +6.9 +6.6 | 30,476 | 37, 86 | +24.2 |
| Production, condensed and evaporated milk. thous. of lbs.- | r 102, 847 | 4.46 131, 323 | 4. 23 181,476 | 170, 884 | 4. 28 205,123 | $\begin{array}{r}\text { 4. } \\ 182 \\ \hline 183\end{array}$ | 239, 680 | +1.2 +20.0 | -14.6 -14 | 811, 387 | 791,653 | -2.4 |
| Powdered milk: <br> Manufacturers' stocks, end |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports....................-.thous. of thbs.- | 8,334 236 | 9,185 | ${ }^{9,113}$ | 812,156 ${ }_{303}$ | 15,536 ${ }_{273}$ | 6, ${ }_{\text {6,68 }}^{368}$ | 9, ${ }_{887} 136$ | +27.8 -9.9 | ${ }_{-29.5}^{+70.1}$ |  |  |  |
|  | 4,880 | 4,781 | 6,062 | 6,037 | 6,590 | 6,012 | 5,716 | +9.2 | +15.3 | 24, 190 | 28,349 | +17 |

${ }^{2}$ Cumulative through Apr. 30.
${ }^{3}$ Revised.

## TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey"" | 1928 |  |  |  |  | 192\% |  | PER CENT IN CREASE ( + ) OR DECREASE (-) |  | cumulative total FROM JANUARY 1 through may 3i |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | February | March | April | May | April | May | May, 1928, from April, 1928, | May, 1928, from May, 1927, | 1927 | 1928 |  |
| FOODSTUFES-Contimued Milk-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Fluid milk: Receipts- |  |  |  |  |  |  |  |  |  |  |  |  |
| Boston (includ. cream) - thous. of qts-- | 17, 490 | 15, 964 | 18, 176 | 17,697 |  | 17,976 | 17,725 |  |  | ${ }^{2} 68,640$ | ${ }^{2}$ 69,327 |  |
| Greater New York.......thous. of qts.- | 109, 709 | 104, 413 | 114, 214 | 109,613 | 117, 558 | 108, 761 | 114,529 | +7.2 | +2.6 | 541, 665 | 555, 507 | $+2.6$ |
| Production- <br> Minneapolis, St. Paul....thous. of lbs.. | 26,140 | 26, 192 | 28,780 | 27, 522 |  | 26,458 | 30,818 |  |  | ${ }^{2} 104,343$ | ${ }^{2} 109,767$ | +5.2 |
| Consumption in manufacture of oleomargarine............ - thous. of lbs.. | 7,190 | 8,117 | 7,762 | 7,035 | 7,455 | 6,518 | 5,913 | +6.0 | +26.1 | 32, 022 | 37, 559 | +17.3 |
| Raw: Sugar |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| From Hawaii, Porto Rico .- long tons | 45,026 | 130, 034 | 204,691 | 164, 551 | 158,387 | 158,556 | 144, 715 | $-3.7$ | +9.4 | 673, 807 | 702,689 | +4.3 |
| From foreign countries..--- long tons-- | 219,926 | 344, 459 | 425, $81{ }^{-}$ | 448, 325 | 271, 492 | 417, 332 | 348, 546 | -39.4 | -22.1 | 1,696,946 | 1,710,020 | +. 8 |
| Meltings, 8 ports---.---------long tons- | 307, 050 | 310, 612 | 468, 496 | 409, 447 | 378, 231 | 482, 656 | 472, 528 | -7.6 | -20.0 | 2, 161, 642 | 1,873, 836 | -13.3 |
| Stocks at refineries, end month..long tons.-. Receipts, domestic, New | 192, 968 | 333, 493 | 458, 231 | 666, 061 | 701, 624 | 379, 210 | 370, 898 | +5.3 | +89.2 |  |  |  |
| Recerleans | None. | None. | None. | None. | None. | 30 | 50 |  | $-100.0$ |  |  |  |
| Refined: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 40,958 29,542 | 47,631 20,283 | 70, 414 31,621 | 60,571 42.092 | 58,371 <br> 43,208 <br> 12 | 85,401 49,441 | 84,961 44,643 | -3.6 +2.7 | -31.3 -3.2 | 361, 251 | 277, 945 | -23.1 |
| Exports, including maple.-..---long tons.- | 3,184 | 8.842 | 9,865 | 8, 645 | 11,869 | 15,822 | 10, 524 | +37.3 | +12.8 | 56,942 | 42, 405 | $-25.5$ |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |
| Wholesale, granulated, N. Y dolls. per lb- | .057 | . 056 | . 057 | 058 | . 059 | . 058 | . 060 | +1.7 | $-1.7$ |  |  |  |
| Retail, granulated, N. Y .-..-dolls. per lb-- | . 053 | . 063 | . 063 | 064 | . 065 | . 093 | . 063 | +1.6 | +3.2 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts at Cuban ports.-.----- long tons.- | 238, 129 | 898, 615 | 1, 016,015 | 586,747 | 237, 507 | 595, 154 | 227, 001 | $-59.5$ | +4.6 | 3, 194, 213 | 2,977,013 | -6.8 |
|  | 212, 161 | 326,705 851,113 | $1,584,153$ $1,202,8: 1$ | - $\begin{array}{r}447,097 \\ 1,325,601\end{array}$ | \| ${ }_{1}^{287,561}$ | 441,653 $1,449,624$ | 336,320 $1,357,045$ | -35.7 -4.7 | -14.5 -6.9 | 1,853, 907 | 1,857,677 | +. 2 |
| Coffee |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports ....-.-.-.-...........thous. of bags . | 1,148 | 1,024 | 1,085 | 935 | 839 | 962 | 712 | $-10.3$ | +17.8 | 4,335 | 5, 031 | +16.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States.-.-.-.-.-.-.- thous. of bags..- | 782 | 833 | 873 | , 892 | 775 | +806 | 4,743 | -13.1 | +4.3 |  |  |  |
| Receipts, total, Brazil $\dagger$----------thous, of bags -- | ${ }^{3} 1,224$ | ${ }^{3} 1,032$ | ${ }^{3} 1,332$ | ${ }^{5} 1,203$ | 1,158 | 933 | 1,058 | $-3.7$ | -9.5 | 5,324 | 5,949 | +11.7 |
| Clearances: $\dagger$ <br> Total, Brazil, for world thous. of bags Total, Brazil, for U. S. thous. of bags <br> Price, Rio No. 7, Brazil grades...dolls. per lb. | ${ }^{3} 1,248$ | 3988 | ${ }^{3} 1,318$ | ${ }^{2} 1,052$ | 1,306 | 942 | 935 | +24. 1 | +39.1 | 5,287 | 5,922 |  |
|  | 687 | 507 | 759 | . 518 | 1,649 | 511 | 509 | +25.3 | $+27.5$ | 2,805 | 3,150 | +12.3 |
|  | . 148 | . 157 | 168 | . 154 | 157 | 152 | . 154 | +1.9 | $+1.9$ |  |  |  |
| Tea |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports | 8, 130 | 6, 087 | 7,577 | 4, 299 | 4,755 | 5,251 | 4, 732 | +10.6 | +0. 2 | 29,813 | 30,878 | +3.6 |
| Stocks, United King, end mo.-.thous. of lbs-- | 284,957 | 252, 704 | 242, 771 | 223, 464 | 195, 988 | 175, 080 | ${ }^{3} 157,172$ | $-12.3$ | +24.7 |  |  |  |
| Price, Formosa, fine, New York. .dolls, per 1b_ TOBACCO | . 325 | . 325 | . 325 | . 325 | . 325 | . 345 | . 345 | 0.0 | -5.8 |  |  |  |
| Consumption (tax-paid withdrawals): |  |  |  |  |  |  |  |  |  |  |  |  |
| Large cigars - .------------ thousands | 413,532 | 453,605 | 497, 904 | -459,022 | 54,501 | 475, 980 | 540, 874 | $+18.0$ | +0.1 | 2. 453, 326 | 2,365, 564 | -3.6 |
| Small cigarettes ------------- thousands | 8,369,087 | 7,531,914 | 8, 470,466 | -7, 511, 408 | 18,891, 803 | 7, 880, 403 | 8, 538, 988 | +18.4 | +4. 1 | 38, 324, 009 | 40,774, 678 | +6.4 |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 962,574 | 836, 921 | 834, 541 | 1, 147, 089 | 781, 118 | 468,852 | 893, 152 | -31.9 | -12.5 | 3,482, 268 | 4,592, 243 | +31.9 |
| Sales of loose-leaf, warehouses.-. thous. of lbs.- | 135,470 | ${ }^{61,235}$ | 8. 325 | 587 | 154 | 8,076 | 2,180 | -73.8 | -92.9 | 63.499 | 8,230 | -87.0 |
| Price, leaf, Kentucky---.-.-dolls. per 100 lbs. - | 23. 227 | 19.294 | 12.468 | 12.735 | 11.643 | 6. 490 | 6. 299 | -8.6 | +84.8 |  |  |  |
| TRANSPORTATION |  |  |  |  |  |  |  |  |  |  |  |  |
| River and Canal Cargo Traffe |  |  |  |  |  |  |  |  |  |  |  |  |
| Panama Canal: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cargo traffic-..... thous. of long tons.- | 2,372 | 2,660 | 2,429 | 2,474 | 2, 498 | 2,430 | 2,389 | +1.0 | $+5.0$ | 11,816 | 12, 433 | +5.2 |
| In American vessels . . thous. of long tons-- | 1,019 | 1, 121 | 1,101 | 1,154 | 1,162 | 1,410 | 1,308 | $+0.7$ | -11.2 | 6,433 | 5,557 | $-13.6$ |
| In British vessels.....- thous. of long tons-- | 698 | 872 | 682 | ${ }^{716}$ | 726 | 491 | 1550 | +1.4 | $+32.0$ | 2,699 | 3,694 | $+36.9$ |
| Sault Ste. Marie canals - - thous. of short tons-- | None. | None. | Nore. | 9,298 |  | 4,698 | 12, 573 |  |  |  |  |  |
| New York State canals . . thous. of short tons.. | None. | None. | None. | None. | 124 | 169 | 285 |  | -56.5 |  |  |  |
| Cape Cod Canal.-.-.-------.-.-.--short tons-- | 73,093 2 2,647 | 30,575 2 2439 | 63, 371 | 105, 857 | 110, 136 | 54, 155 | 60, 482 | +4.0 | --82. 1 | 259, 041 | 383, 032 | $+47.9$ |
| Suez Canal..........-.-.thous. of metric tons-- | 2,647 | 2,439 | 2,891 |  |  | 2, 789 | -2,410 |  |  |  |  |  |
| Welland Canal ---...............--short tons-- | None. | None. | None. | 52,409 | 997, 484 | 321, 670 | 1,040, 748 |  | $-4.2$ | 1,362,418 | 1,049,953 | --22.9 |
| St. Lawrence Canal -..---.-.----short tons-- | None. | None. | None. | 56, 931 | 1, 038,485 | 241, 070 | 1, 094, 346 | +82.4 | -5.1 | 1, 335,416 | 1,095, 413 | -18.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 81, 585 | 80, 245 | 118, 000 | 238,970 | 344, 578 | 184, 015 | 105, 792 | + 44.2 | +76.9 | +663, 087 | 3, 864,428 | -17.7 +30.3 |
| Monongahela River-.-.----------short tons. | 2,327, 245 | 2, 056, 247 | 2, 103, 8:7 | 1,964,311 | 2, 215, 732 | 1,829,631 | 1,806, 081 | +12.8 | +22.7 | 10, 470, 977 | 10,667,413 | +2.6 |
| Ocean TrafficClearances, vessels in foreign trade: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total-----------.----thous. of net tons.- | 5,143 | 5,035 | 5,681 | 5,537 | 5,993 | 6,160 | 6,248 | +8.3 | -4.0 | 27, 464 | 27,312 | -4.2 |
| American .............. thous. of net tons | 1, 865 | 1, 877 | 1,845 | 2, 090 | 2,837 | 2,618 | 2,632 | $+35.8$ | +7.8 | 10,685 | 10, 564 | -1.1 |
| Foreign-.----.-.-.-.-.- thous. of net tons | 3,299 | 3,158 | 3,685 | 3,447 | 3,159 | 3, 542 | 3,616 | -8.4 | -12.6 | 16,759 | 16,748 | -. 1 |
| Shiphuilding |  |  |  |  |  |  |  |  |  |  |  |  |
| Completed during month: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 9. 294 | 20,787 | 12,999 | 9,880 |  | 42,752 | 40, 030 |  |  | ${ }^{2}$ 110, 391 | ${ }^{2} 52,951$ | -52.0 |
| Steel seagoing. .-...-..........gross tons | 2,888 | 15,218 | 5,907 | 1,488 |  | 33, 631 | 31,661 |  |  | 277, 218 | 225,501 | -67.0 |
| Building or under contract, end of month: <br> Merchant vessels.....- thous. of gross tons. - | 214 | 207 | 232 | 252 | 259 | 235 | 235 | +2.8 | $+10.2$ |  |  |  |

t See table on p. 23 of the April, 1928, issue for earlier data.

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shoun are through May, except wherc otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survet," | 1928 |  |  |  |  | 1927 |  | per cent increase ( + ) or DECREASE ( - ) |  | cumulative total from Jandary 1 through may 31 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | $\begin{aligned} & \text { Feb- } \\ & \text { ruary } \end{aligned}$ | March | April | May | April | May | $\begin{gathered} \text { May, } \\ \text { 1928, } \\ \text { from, } \\ \text { April, } \\ 1928 \end{gathered}$ | $\begin{aligned} & \text { May, } \\ & \text { l928, } \\ & \text { from } \\ & \text { May, } \\ & 1927 \end{aligned}$ | 1927 | 1928 |  |
| TRANSPORTATION-Continued Freight Cars |  |  |  |  |  |  |  |  |  |  |  |  |
| Surplus (daily av. last week of month): Total | 403, 792 | 372,916 | 344, 502 | 320,7e2 | 304, 152 | 259, 736 | 256, 448 | -5.2 | +18.6 |  |  |  |
|  | 182, 001 | 155, 554 | 125, 627 | 134,069 | 143, 864 | 137. 432 | 133, 345 | +6.9 | +7.4 |  |  |  |
|  | 169, 463 | 168, 172 | 171, 481 | 140,091 | 103, 833 | 90,075 | 78, 148 | -22.3 | +39.3 |  |  |  |
| shorage (daily av. last week of month): Totai-ars |  | None. | None. |  | None. | 19 | 10 |  | -100.0 |  |  |  |
|  |  | None. | None. | None. | None. | 8 | None. |  |  |  |  |  |
| Coal--.................................ears- | None. | None. | None. | None. | None. | 1 | None. |  |  |  |  |  |
| Car Toadings: | 3, 447, 723 | 3, 589, 694 | 4, 452, 031 | [3, 733, 295 | 4,006,058 | 3,875,589 |  |  |  |  | 19, 533, 801 | -4.8 |
| Grain and grain products................cars. | 187, 197 | -187,045 | +, 237,266 | -159,131 | ${ }^{1,163,115}$ | 3, 148.584 | $\stackrel{1}{3} 158,9 \overline{54}$ | $\underline{+2.5}$ | -2.5 +2.6 | 30, $8.50,401$ | 19, 933,752 | -4.8 +9.2 |
|  | 127, 658 | 180, 005 | 43, 383 | 105, 146 | 106, 860 | ${ }_{3} 110,340$ | ${ }^{3} 115,383$ | +1.6 | -7.4 | ${ }^{3} 602,057$ | 613,052 | +1.8 |
|  | 752, 752 | 726, 259 | 869, 335 | 620, 985 | 670,821 | ${ }^{3} 6833,092$ | ${ }^{3} 6889,313$ | +8.0 | $-2.7$ | ${ }^{3} 4,276,565$ | 3,640,152 | -14.9 |
|  | 233, 368 | 270,914 | 343, 780 | 257,316 | 266, 769 | ${ }^{3}$ 273, 577 |  | +4.8 | $-5.0$ |  | 1, 375, 147 | -4.7 |
|  | 31,737 | 31,394 | 42,859 | 41,055 | 1655,201 | ${ }^{3} 101,893$ | ${ }^{3} 2329,532$ | + +3.2 .4 | -31.0 | ${ }^{3} 476,622$ | $\begin{array}{r}1312,245 \\ 5.88 \\ \hline 140\end{array}$ | -34.5 |
| Merchandise and l.c. 1 $\qquad$ cars Miscellaneous $\qquad$ cats | 927,299 <br> 187,712 | 1, $\begin{array}{r}974,382 \\ \hline 29923\end{array}$ | $1,299,322$ $1,816,086$ | $\begin{aligned} & 1,040,909 \\ & 1,313,663 \end{aligned}$ | $\xrightarrow{1,046.138} 1$ | $3,047,971$ $1,530,012$ | $31,050,276$ $1,570,908$ | +0.5 +4.7 | -0.4 +0.8 | $1,7,369,480$ $=7,501,618$ | 5, 288,140 $7,371,312$ | -1.5 |
| Railroad Operations |  |  |  |  |  |  |  |  |  |  |  |  |
| Operating revenue: thous of dolls |  |  |  |  |  |  |  |  |  |  |  |  |
| Freight---.................-thous. of dolls-- | 337,382 78,483 | 346,024 69,551 | $\begin{array}{r}387,739 \\ 70,468 \\ \hline 109\end{array}$ | 2.5 .5955 70,951 |  | $\begin{array}{r}5 \\ \begin{array}{r}371,571 \\ 377,372\end{array} \\ \hline\end{array}$ | 390,680 78,532 |  |  |  | $\stackrel{2}{21,427,110} \begin{array}{r}289 \\ 2\end{array}$ | -4.2 -7.9 |
| Totel operating.--.-....--- thous of dolls.- | 457, 426 | 456, 593 | 505, 185 | 474, 316 |  | 3 498,927 | 518, 509 |  |  | ${ }^{21,987, ~} 696$ | 21, 893, 514 | -4.7 |
| Operating expenses ------.-.-. - thous of dolls -- | 363, 384 | 348, 498 | 373, 30 , | 383, 381 |  | 3384, 958 | 390, 787 |  |  | 1. 580, 527 | 21,448, 568 | -5. 7 |
| Net operating income-...--.-. thous. of doils - | 56,634 | 70, 064 | 90, 774 | 70, 548 |  | 3 3 3 37 | 85, 664 |  |  | 2929,046 2155,421 | 2 <br> 2 <br> 2 <br> 2 <br> 2878 <br> 1805 | -3.7 |
| Freight camied- -.-.----..-- millis. ton-miles - | 36,271 | 35, 301 | 39, 45 | 35, 836, |  | ${ }^{3} 37,111$ | 40,113 |  |  | ${ }^{2} 155,421$ | 2 147, 305 | -5.2 |
| Railway Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Locomotive (Am. Ry. Assn.): <br> Owned, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity.....................number.- | 60, 679 | 60, 598 | ${ }_{60,471}^{296}$ | 60, 373 | 60. 284 | 62, 238 | ${ }_{6}^{62,172}$ | $-1$. | -3.0 -8 |  |  |  |
| In bad order end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fer cent of total in use.-.---per cent.- | 14.5 | $1 \pm .7$ | 13.7 | 14.3 | 14.1 | 14.5 | 14.7 | -1.4 | -4. 1 |  |  |  |
|  | 154 | $1 \pm 1$ | 140 | 99 | 159 | 187 | 143 | +44.8 | -6.1 | 782 | 670 | -14.3 |
|  | 259 | 222 | 267 | 194 | 224 | 223 | 213 | +17.5 | $+7.0$ | 1,061 | 1,170 | $+10.3$ |
| New orders-........-.-..-.-.-.- number-- | , | 30 | 15 | 33 | 52 | 27 | 184 | $+57.6$ | -73.6 | 392 | 132 | $-66.3$ |
| Shipments, manufacturers' (Census)- | 47 | 59 | 70 | 45 | $4 i$ | 98 | 109 | -10.9 | -62. 4 | 481 | 263 | -53.3 |
| Steram, domestic---...-........ number-- | 22 | 43 | 44 | 38 | 29 | 72 | 7 | $-23.7$ | -62.3 | 318 | 176 | -44.7 |
| Electrie, domestic-.......... number.- | 23 | 11 | 15 | 6 | 19 | 23 | 15 | $+6.7$ | -33.3 | 67 | 65 | -2.0 |
| Unfilled orders (railroads), end of mo.-- From manufacturers. |  |  |  |  |  |  |  |  |  |  |  |  |
| Irom manuaturers--------- - number--- | ${ }_{22}$ | 148 23 | 127 | ${ }_{2} 2$ | 30 | 187 30 | 40 | +20.0 | -25.0 |  |  |  |
| Cnfiled orders, mandacturers' ( Consus)-- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 222 | 204 | 173 | 188 | 220 | 334 | 434 | $+17.0$ | -49.3 |  |  |  |
| Steam, domestic---.-.-.-....- number - | $\begin{array}{r}161 \\ ? 8 \\ \hline 8\end{array}$ | 146 40 | 123 37 | 129 41 | $\begin{array}{r}138 \\ 39 \\ \hline\end{array}$ | 255 | 380 34 | +1.0 +7.0 -4.9 | -63.7 +14.7 |  |  |  |
|  | 38 | 40 | $\stackrel{37}{26}$ | 41 | 39 | 42 | 34 10 | -4.9 | +14.7 -500 |  |  | -45. 9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ôwned, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2,309, 577 | 2, 306, 816 | 2, 303, 638 | 32,301,602 | 2. 500,133 | 2, 332, 184 | 2,333,098 | -. 1 | -1.4 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| In bad order, end of month- ${ }_{\text {Quantity }}$ | 136,115 | 133, 870 | 139, 698 | 149,863 | 151,359 | 135, 458 | 147,449 | +1.0 | +2.7 |  |  |  |
| Per cent of total in use | ${ }^{6.0}$ | -6.2 | 130.6 | , 6.7 | 6.6 | , 6.9 | +6.5 | 0.0 | +3.1 |  |  |  |
|  | 2,098 | 5,876 | 4,029 | 5,683 | 2, 354 | 3,362 | 4,378 | -58.6 | -46. 2 | 34,371 | 20,040 | - 41.7 |
| Total $\qquad$ cars. | 774 | 444 | 3,332 | 4, 5.58 |  | 5,570 | 6,202 | $+29.3$ | $-4.7$ | 22,453 | 15,029 | --8. 1 |
|  | 576 | 444 | 3,231 | 4,324 | 5,354 | 5,562 | 6,182 | +-35.4 | -5.3 | 22,358 | 14,479 | -3m. 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 15,459 | 17, 603 | 20,648 | 17, 1.80 | 14, 158 | 18,217 | 15, 122 | $-19.4$ | -6.3 |  |  |  |
| Passenger cars: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 73 | 74 | 80 | 51 | 23 | 88 | 52 | - 34.9 | --55. 8 | 342 308 | 306 242 | -10.5 -21.4 |
| Domestic.-...-.-...................cars--- | 69 | 72 | 50 | 34 | 18 | 88 | 52 | -47.1 | -65.4 |  |  |  |
| Passenger Travel |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 50,591 | 57,950 | 57, 332 | 71, 06 | 125, 102 | 56.543 | 140,716 | +74. 5 | $-11.1$ | 367,427 | 363, 054 | $-1.2$ |
| Automobiles entered...-...........number.- | 6,679 | 6,658 | 3,194 | ${ }^{3} 12,456$ | 23,341 | 8,508 | 28,477 | +87.8 | $-18.0$ | 56,418 | 52, 298 | $-7.3$ |
| frivals from abroad: |  | 20, 888 | 2f, 270 | 30, 709 |  | 33,034 | 31, 819 |  |  | : 103,401 | ${ }^{2} 96,013$ | -7.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5,323 27,126 | 4,708 34,810 | 4,931 29,422 | 4,515 29,506 |  | 4,185 26,815 |  |  |  | $\begin{array}{r} 216,306 \\ { }^{2} 105,071 \end{array}$ |  | +19.4 +15.0 |
|  | 8,896 | 8,971 | 17,334 | 27,008 | 37,648 | 27, 144 | 32, 863 | +38.9 | +14.6 | 95,997 | 99,947 | +4.1 |
| Pullman company operations: <br> Revenue--------------- .- thous. of dolls. - | 6,963 | 6,393 | 6, 131 | 6, 515 |  | 6, 329 | - 6,419 |  |  | : 26,053 | ${ }_{2}^{2} 26,002$ | -. 2 |
| Passengers carried -----.-.-.....- thousands.- | 2,886 | 2, 563 | 2, 625 | 2, 713 |  | 2, 775 | 2,780 |  |  | ${ }^{2} 11,084$ | ${ }^{2} 10,787$ | -2. 7 |
| Hotel room oceupancy 4 - .- - per ct of capacity . | 72 | 7 |  | 73 | 69 | 72 |  |  |  |  |  |  |

ISee table on p. 18 of the April, 1928, isste for earlier data.

[^8][^9]TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


## TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through May, except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, 'Survey" | 1928 |  |  |  |  | 1927 |  | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DECREASE }(-) \end{aligned}$ |  | cumulative total grom jandary 1 througe may 31 |  | Per et.in-crease( + de-or decrease( -()$_{\text {en }}$cumu-lative1928from1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | January | Feb- ruary | March | Aprii | May | April | May | $\begin{aligned} & \text { May, } \\ & \text { Maze, } \\ & \text { irom } \\ & \text { April, } \\ & 1 \leqslant 28 \end{aligned}$ | $\begin{aligned} & \text { May, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { May, } \\ & 1927 \end{aligned}$ | 1927 | 1928 |  |
| BANKING AND FINANCE-Continued Dividend and Interest payments (For the following month) |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand total....-.-..........-. thous. of dolls.- | 333,000 | 428, 900 | 561, 230 | 334, 850 | 467,225 | 386, 650 | ${ }^{3} 440,700$ | $+39.5$ | +6.0 | 72, 779,320 | ${ }^{6} 2,875,405$ | +3.5 |
| Interest payments | 176, 000 | 258,750 | 372,050 | 203, 500 | 316,900 | 254,900 | ${ }^{3} 290,000$ | $+55.7$ | +9.3 | ${ }^{6} 1,708,370$ | ${ }^{6} 1,787,800$ | +4.6 |
| Dividend payments: Total $\ldots$.-..........thous. of dolls.-- | 157,000 | 170, 150 | 189, 180 | 131,350 | 150,325 | 131, 750 | ${ }^{3} 150,700$ | +14.4 | -. 2 | 1, 050, 950 | 1, 087,605 | +2.5 |
| Industrial and misc.------thous. of dolls-- | 114, 300 | 129,050 | 149, 500 | ${ }_{96,550}^{181,3}$ | 118,050 | 98, 100 | ${ }^{3} 119,500$ | +14.4 <br> +2.3 | -1.2 | $1,050,950$ 676,275 | $1,0887,05$ 687 | $+2.5$ |
| Steam railroads ....-.-....- thous. of dolls-. | 33, 100 | 34, 600 | 28, 380 | 27, 100 | 26, 075 | 26,300 | 25, 450 | -3.8 | +2.5 | ${ }^{6} 175,700$ | ${ }^{6} 183,055$ | +4.2 |
| Street railways.--.----.-.- thous. of dolls.- | 9,600 | 6,500 | 11,300 | 7,700 | 6, 200 | 7,350 | 5,750 | -19.5 | $+7.8$ | ${ }^{6} 57,475$ | ${ }^{6} 62,300$ | $+8$. |
| New Security Issues |  |  |  |  |  |  |  |  |  |  |  |  |
| Foreign loans in the U. S. $\dagger$-.--thous. of dolls.. | 159,825 | 131, 129 | 118,437 | 158,039 | 233,870 | 203,415 | 52, 879 | +49.9 | +342.3 | 653,682 | 799,300 | +26.1 |
| Foreign governments...-.-.-.-.-thous. of dolls.- | 79, 808 | 117,351 | 85, 750 | 87, 130 | 79,885 | 121, 386 | 23,060 | -8.3 | +247.3 | 355,879 | 449,924 | +26.4 |
| Total corporation --.----------- thous. of dolls.-- | 573, 573 | 612,696 | 741,950 | 833, 206 | 757,834 | 520, 452 | ${ }^{3} 712,924$ | -9.0 | $+6.3$ | 3, 123, 433 | 3,519,259 | +12.7 |
| Purpose of issue- <br> New capital.. thous. of dolls.- | 408,545 | 411,352 | 380, 707 | 484,090 | 583,357 | 388, 371 | ${ }^{3} 447,135$ | +20.5 | $+30.5$ | 2, 276, 523 | 2, 268,051 | -. 4 |
| Refunding .-...-.-.....theus, of dolls.- | 165, 028 | 201, 344 | 361, 240 | 349, 116 | 174,477 | 131, 581 | 265, 789 | $-50.0$ | -34.4 | 846, 910 | 1, 251, 208 | +47.7 |
| Stocks .-.............-. - thons. of dolls | 188,545 | 126, 857 | 245,096 | 310,263 | 321,257 | 100,059 | 127,464 | +3.5 | +152.0 | 728,519 | 1, 142,018 | +56.8 |
| Bonds and notes----.- thews. of dolls-- | 435,028 | 485, 840 | 496, 854 | 522, 934 | 436,377 | 420, 393 | ${ }^{3} 585,460$ | -16.5 | -25.4 | 2,394,915 | 2, 377, 242 | -. 7 |
| Class of industry- <br> Railroads thous. of dolls. | 78,222 | 74,216 | 192,781 | 95,0\%3 | 23,601 | 57, 330 | 129, 225 | -69.9 | -77.9 | 417,989 | 468,873 | +12.2 |
| Public utilities ........- thous. of dells.- | 210,155 | 262, 825 | 226, 733 | 380, 541 | 242,497 | 196, 731 | 255, 614 | -36.3 | -5. 1 | 1,324,416 | 1,322,751 | -. 1 |
| Industrials..............-thous. cf dolls.- | 118,902 | 93, 570 | 131, 262 | 138, 172 | 150,783 | 58,963 | 83, 288 | +9.1 | +81.0 | 449, 695 | 632, 689 | +40.7 |
|  | 2,200 | 20,675 | 12,952 | 7,300 | 22,929 | 79,500 | 7, 110 | +214.1 | -69.5 | 257,388 | 66,053 | $-74.3$ |
| Land and buildings -- thous. of dolls.. | 78,741 | 48,038 | 73,935 | 97, 152 | 82, 233 | 56,594 | 41,510 | $-15.3$ | +98.2 | 286,758 | 380, 119 | $+32.6$ |
| Shipping and misc. .-. - thous. of dolls | 74,331 | 112,672 | 102, 803 | 114,988 | 230,272 | 70, 508 | 67,124 | +100.3 | +243.1 | 323,423 | 635, 066 | +96.4 |
|  | 4,000 | 5,000 |  | 80 | 30,000 | 10,044 | 8,400 |  | +257.1 | 54,695 | 39,036 | -28.6 |
|  | 415 | 1,560 | 4,379 | 2,312 | 4,347 | 11, 331 | 1,517 | +88.0 | +186.6 | 34,064 | 13,013 | -61.8 |
|  | 9,396 | 3,185 | 7,490 | 41,845 | 57,970 | 31, 260 | 30, 100 | +38.5 | +92.6 | 96,479 | 119,886 | +24.3 |
| States and municipalities: | 103,199 | ${ }^{3} 132,740$ | ${ }^{3} 132,510$ | ${ }^{3} 130,359$ | 133,883 | 124, 308 | 3210,051 | +2.7 | -36.3 | 674,284 | 632,691 |  |
| Temporary loans.-.-....-. thous. of dolls.- | 73,320 | 113, 389 | 75, 359 | ${ }^{3} 78,001$ | 13, 320 | 67, 252 | 18,010 | $-82.9$ | $-26.0$ | 305, 106 | 353, 389 | +15.8 |
| Tax-exempt securities outstand- <br> ing, end of month _-..............mills. of dolls. | 16,278 | 16,442 | - 16,557 | ? 16, 667 | 16,728 | 15,561 | 15.693 | +. 4 | +6.6 |  |  |  |
| Agricultural Finances |  |  |  |  |  |  |  |  |  |  |  |  |
| Loans outstanding, end mo.: <br> Federal farm loan banks....thous. of dolls. |  |  |  |  |  |  |  |  |  |  |  |  |
| Joderastorm farm land banks....--thous. of dolls..- | 1, 608,798 | 1, 609,984 | 1, 20n, 011 | 1, 610,821 |  | 1, 614,481 | $\left.\begin{array}{r} 1,124,055 \\ 617,202 \end{array} \right\rvert\,$ |  |  |  |  |  |
| Fedintermed. creditbanks_thous. of dolls.- | 74, 888 | 75, 220 | 74, 119 | 72, 351 |  | 76, 395 | 70,888 |  |  |  |  |  |
| War Finance Corporation--thous. of dolls | 1,244 | 1,226 | 1,037 | 985 | 926 | 5,220 | 5,050 | $-6.0$ | -81.7 |  |  |  |
| Stocks and Londs |  |  |  |  |  |  |  |  |  |  |  |  |
| Stock prices, arerage daily closing: ${ }^{25}$ industriats, average |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }_{25}^{23}$ industrials, average.--- dolls. per share.-- | 242.25 | 239.32 | 256.36 119 | ${ }^{263.34}$ | 266.82 | 199.99 | 209.83 | $+1.3$ | $+27.2$ |  |  |  |
| 25 railroads, average - ---- 103 dolis. per share | 118.29 | 115.20 139 1 | 119.00 | 123.09 | 125. 10 | 110.74 | 113.60 | $+1.6$ | $+10.1$ |  |  |  |
| 103 stocks, average --...-dolls. per share-- | 142.13 | 139.30 | 147.91 | 159.16 | 162.58 110.58 | 121.65 | 131.18 | +2.1 | --23.9 |  |  |  |
| Stock prices, arerage weekly closing. | 112.25 | 111.73 | 111.33 |  | 110. 58 | 111.36 | 111.93 | -. 4 | -1.2 |  |  |  |
| Total stocks (229) - ---------rel to 1917-21.- | 195.2 | 191.8 | 202.9 | 215.2 | 221.8 | 162.5 | 167.5 | $+3.1$ | +32.4 |  |  |  |
| Railroads (31) | 158.2 | 153.7 | 159.0 | 104.8 | 168.1 | 147.4 | 150.5 | $+2.0$ | +11.7 |  |  |  |
|  | 210.4 | 207. 5 | 220.9 | 236.2 | 243.9 | 168.7 | 174.6 | +3.3 | +39.7 |  |  |  |
| Automobile (10)-.........-rel. to 1917-21.-. | 369.8 582.3 | 372.9 565.0 | ${ }_{579.7}^{453.3}$ | 505.4 597.2 | ${ }_{6}^{528.2}$. | 266.6 446.3 | 276.7 466.1 | +3.9 +1.3 | +90.9 +29.8 |  |  |  |
| Copper (11) --.-------------rel. to 1917-21.- | 150.5 | 148.5 | 148.0 | 158.1 | 165.8 | 117.1 | 117.4 | +4.9 | +41.2 |  |  |  |
| Food (9).-..................rel. to 1917-21.- | 430.6 | 425.8 | 433.9 | 443.8 | 44.8 | 343.3 | 369.1 | +.2 | +20.5 |  |  |  |
| Machinery mifg. (5) .-.-.......rel. to 1917-21.- | 122.3 | 125.6 | 128.2 | 133.2 | 136.4 | 102.3 | 106.9 | +2.4 | +27.3 |  |  |  |
| Petrolcum (17)--.-------rel to to 1917-21.- | 107.4 | 101.9 | 106.2 | 116.6 | ${ }^{122.3}$ | 101.9 | 103.2 | +4.9 | +18.5 |  |  |  |
| Railroad equipment (10) .---rel to to 1917-21.- | 231.6 | 225.3 | 227.5 | 228.2 | 224.6 | 187.3 | 196.0 | $-1.6$ | +14.6 |  |  |  |
| Steel (9)-------------rel. to 1917-21-- | 159.1 | 154.5 | 157.6 | 160.0 | 160.8 | 135.3 | 136.0 | $+.5$ | +18.2 |  |  |  |
| Textile (5)-------------------rerel. to to 1917-21--- | 46. 6 | 47.5 | 49.6 | ${ }^{52.6}$ | 52.5 | 39.5 | 41.2 | $-.2$ | +27.4 |  |  |  |
|  | 178.6 | 180.3 | 188.8 | 199.3 | 207.0 | 180.2 | 179.0 | +3.6 | +15.6 |  |  |  |
| Tire and rubber (7) -.......-rel. to 1917-21..- | 64.7 | 58.7 | 55.1 | 55. 7 | 56.2 | 52.6 | 49.1 | +.9 | +14. 5 |  |  |  |
| Tobacco (7) -.........-.-rel. to to 1917-21.. | 220.5 | 209.2 | 212.4 | 215.7 | 201.3 | 172.7 | 183.5 | $-6.7$ | $+9.7$ |  |  |  |
| Traction, gas and power (16) -rel, to 1917-21.- | 294.8 | 309.9 | 315.7 | 339.7 | 360.4 | 226.7 | 239.2 | +6.1 | +50.7 |  |  |  |
| Stock sales, N. Y. Stock Exch_thous. of shares - | 56,963 | 47, 165 | 84,988 | 80,560 | 82, 164 | 49,636 | 46,598 | +2.0 | $+76.3$ | 231, 211 | 351, 849 | $+52.2$ |
| Miscellaneous ------------ - thous of dolls | 269, 374 | 222,644 | 304,610 | 301.084 | 263, 388 | 290, 520 | 303, 510 | -12.5 | -13.2 | 1, 516,065 | 1,361, 100 | -10.2 |
| Liberty-Treasury -------- thous. of dolls.- | 20, 864 | 16,611 | 11,910 | 14, 489 | 14, 764 | 25, 800 | 31, 163 | 1.9 +1.9 | $-52.6$ | 143, 71 | 78, 608 | -4.5. 1 |
| Total .-...-......--.........thous. of dolls.- | 290, 238 | 239, 255 | 316, 520 | 315, 573 | 278.152 | 316,320 | 334, 673 | -11.9 | -16.9 | 1, 659,136 | 1,439, 738 | -13.2 |
| ond prices: | 97.04 | 96. 50 | 95.90 | 95.33 | 94.49 | 94.74 | 95.06 | -. 9 | -. 6 |  |  |  |
| Second-grade rails - p. et. of par, $4 \%$ hond-- | 88.75 | 88.61 | 88.81 | 87.89 | 86.92 | 84.48 | 84.84 | -1.1 | +2.5 |  |  |  |
| Public utility ......p. ct. of par, $4 \%$ bond.- | 79.66 | 80.03 | 80.32 | 82.17 | 81.42 | 76.19 | 76.49 | -. 9 | +6.4 |  |  |  |
| Industrial.----.--p. ct. of par, $4 \%$ bond.- | 81.28 | 81.33 | 80.95 | 81.09 | 80.73 | 79.58 | 79.38 | -. 4 | +1.7 |  |  |  |
| Bond prices, ist of following month: | 105.94 | 105.96 | 100.05 | 105.98 | 105.03 | 103.41 | 104. i4 | -. 9 | $+.9$ |  |  |  |
| 16 foreign govt. and city .....-p. pt. of par-- | 105. 90 | 105.92 | 105.67 | 105.46 | 105.28 | 104.74 | 105.07 | -. 2 | +. 2 |  |  |  |
| Comb. price index, 66 bonds...p.ct. of par.. | 102.60 | 102.41 | 102.58 | 102.44 | 101.71 | 100.67 | 101.03 |  | +. 7 |  |  |  |
| $\dagger$ See table on p. 22 of the April, 1928, issue for earlier data. |  |  |  |  | ${ }^{3}$ Revised. |  |  | - Cumulative through June 30. |  |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


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[^0]:    * Seasonal adjustments.

[^1]:    - See tables on pp. 20 and 21 of the Aprid, 1928, issue for earlier data.

[^2]:    ${ }^{1}$ Compiled from data furnished by the New York State Department of Labor from reports of 1,648 firms, employing more than one-third of the factory workers of the ${ }_{2}{ }^{2}$ Seven months' average.
    ${ }^{3}$ Compiled from data furnished by Illinois Department of Labor from about 1,400 manufacturers, employing about 400,000 people, based on pay roll nearest to the 15 th of the month.

    - Compiled by the Industrial Commission of Wisconsin from reports of manufacturing plants in Wisconsin.

[^3]:    Compiled by the Oklahoma Department of Labor from reports of 710 establishments throughout the period.
    : Compiled by the Milwaukee Public Employment Office from reports from 50 identical manufacturers, 4 of which are now out of business. Data are for the end of the month.
    Compiled by the Cleveland Chamber of Commerce from reports of 100 identical manufacturers, except that in Novernber, 1925, when one plant went out of business, another was substituted. Data are for the end of the month.
    ocompiled by the Mrassachusetts Department of Labor and Industries from about 1,000 manufacturers. The same firms do not report each month and the index is thus compiled from link relatives.
    © Compiled from data furnished by the Maryland Commission of Labor and Statistics from about 250 manufacturers each month, link relatives being used for identical ncerns from month do montu. Monthy reports show detans by industries.
    identical firms for suceeding months. identical firms for succeeding months.

[^4]:    * See tables on p. 48 of the May, 1928, issue for earlier data.

[^5]:    : Cumulative through Apr. 30.

[^6]:    ${ }^{3}$ Revised.

[^7]:    Cumulative through Apr. 30

[^8]:    : Cumulative through Apr. 30 .

[^9]:    ${ }^{2}$ Revised.

[^10]:    * See table on p. 22 of the June, 1928, issue for earlier data.
    i See table on p. 21 of June, 1928, issue for earlier data.

[^11]:    ${ }_{3}^{2}$ Cumulative through April 30.
    ${ }_{3}$ Revised.

