# UNITED STATES DEPARTMENT OF COMMERCE WASHINGTON <br> SURVEY OF CURRENT BUSINESS 

No. 79


COMPILED BY
BUREAU OF THE CENSUS
IN COOPERATION WITH

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE AND

BUREAU OF STANDARDS

IMPORTANT NOTICE
In addition to figures given from Government sources, there are also intorporated for completeness of service figures from other sources generally accepted by the trades, the authority and responsibility for which are noted in the "Sources of Data" on pages 139-142 of the February semiannual issue

[^0]
## INTRODUCTION

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

## WEEKLY SUPPLEMENT

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

## BASIC DATA

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

## RELATIVE NUMBERS

To facilitate comparison between different important items and to chart series expressed in different units, relative numbers (often called "index numbers," a term referring more particularly to a special kind of number described below) have been calculated.

In computing these relative numbers the last prewar year, 1913, or the first postwar year, 1919, have usually been used as a base equal to 100 wherever possible. More lately the average for 1923-1925 has been frequently taken as 100 .
The relative numbers are computed by allowing the monthly average for the base year or period to equal 100. If the movement for a current month is greater than the base, the relative number will be greater than 100 , and vice versa. The difference between 100 and the relative number will give at once the per cent increase or decrease compared with the base period. Thus a relative number of 115 means an increase of 15 per cent over the base period, while a relative number of 80 means a decrease of 20 per cent from the base.

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

## INDEX NUMBERS

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

## RATIO CHARTS

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

## RECORD BOOK

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

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

No. 79 WASHINGTON March, 1928

## CONTENTS

| summaries |  | index by subjects | T | Ta |
| :---: | :---: | :---: | :---: | :---: |
| iminary summary for Febru | Page | Text |  | ${ }_{22}^{\text {page }}$ |
| Course of business in January | 5 | Metals and metal products | 11 | 24 |
| Business indicators (tables and charts) | 2,3 | Fuels. | 12 | 28 |
| Wholesale prices (table and charts) | 7, 8, 9 | Automobiles and rubber | 12 | 27, 30 |
| Indexes of business (production, prices, sales, etc.) | 17 | Hides and leather. | 13 | 29 |
| Automobiles, building, mining, manufacturing, electric |  | Paper and printing | 13 | 31 |
| power, and transportation (charts) | 4 | Building construction and housing | 13 | 32 |
|  |  | Lumber products. | 14 | 33 |
| new detailed tables |  | Stone, clay, and glass products | 14 | 34 |
| Commercial steel castings (revised) | 20 | Chemicals and oils. | 15 | 35 |
| Fabricated structural steel (revised) | 21 | Foodstuffs and tobacco | 15 | 37 |
| Stocks of clinker---------------- | 21 | Transportation and public Employment and wages | 16 | 41 |
| Electric railway fares. | 21 | Distribution movement (trade, advertising, ete.)- | 16 | 43 |
| Gasoline, tank-wagon price | 21 |  | 16 | 44 |
| Steel bars, shipments. | 21 | Foreign exchange and trade, gold and silver-.-- | 16 | 47 |

## PRELIMINARY SUMMARY FOR FEBRUARY

Business during the early weeks of February was running higher than in the corresponding period of 1927, as seen from the volume of checks passing through the banks for payment. The volume of goods moving through primary channels, as seen from figures on car loadings, however, was smaller than last year, the principal declines occurring in loadings of mineral and agricultural products. The value of new building contracts awarded during the early weeks of February showed about the same volume as a year ago. Employment in factories of Detroit, largely indicative of the automobile industry, was greater than in either the previous month or February, 1927. The output of crude petroleum showed a decline from both the preceding month and February of last year. Lumber production was running larger than in either prior period. The production of bituminous coal was smaller than in either the previous month or the same month of last year.

Wholesale prices averaged higher than in either the preceding month or February, 1927. Loans and discounts of Federal reserve member banks receded from the preceding month and reached a level lower than at any time in about three months. Prices of stocks listed on the New York Stock Exchange averaged lower than in the previous month but were higher than a year ago. Bond prices showed little change from the previous month but were above the level of last year. Loans to brokers and dealers by Federal reserve member banks in New York City receded from the high point reached early in the month.

Interest rates on call loans averaged higher than in either the previous month or February of last year. Time-money rates showed similar comparisons. Business failures were less numerous than in January, showing little change from a year ago.

Now ready.-Part II, Metals and Machinery, of the Record Book of Business Statistics, obtainable from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., at 10 cents per copy (no stamps).

## MONTHLY BUSINESS INDICATORS, 1920-1927

[Ratio charts-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. The items formerly shown in the table entitled "Business Summary," usually appearing on page 9 of previous issues, have been consolidated into this table.

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.


## NEW BUILDING CONTRACTS AND AUTOMOBILE PRODUCTION

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


FACTORY EMPLOYMENT, MANUFACTURING, AND ELECTRIC POWER 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]


## BUSINESS CONDITIONS IN JANUARY

## PRODUCTION

Manufacturing production in January was generally higher than in the preceding month but lower than in January, 1927. The production of pig iron and the output of steel ingots were larger than in the previous month, with steel-ingot production showing an increase over a year ago, as well. The production of automobiles showed a gain over December, but was lower than in the corresponding month of 1927. Crude-petroleum production declined from the previous month and was slightly higher than a year ago. The output of bituminous coal showed a gain over the previous month but was lower than last year. Copper production was higher than in December but lower than in January, 1928. The production of cement, although lower than in the previous month, made a gain over the same month of last year. The output of lumber was greater in January than in either the previous month or January, 1927. The consumption of cotton was larger than in December but smaller than a year ago, while wool consumption made similar comparisons.

## COMMODITY STOCKS

Commodity stocks at the end of January were held in smaller quantities than at the end of either the preceding month or the same month of last year, after adjustments for seasonal variations. Stocks of cotton held at mills and in public storage were lower than in either prior periods. Stocks of finished cotton goods, although higher than a year ago, were lower than at the end of the preceding month, while stocks of cotton textiles were higher than in either prior period. Silk stocks held at warehouses and manufacturing plants were lower than in either the previous month or January a year ago.

Stocks of iron ore were lower than in either the previous month or January of last year. Stocks of steel sheets, however, showed increases over both prior periods. Stocks of sanitary enameled ware were generally lower than in either the previous month or January, 1927.

The visible supply of wheat was lower than in the previous month but higher than a year ago, while the visible supply of corn showed an increase over the previous month, but a decline from last year. The visible supply of barley and oats was smaller than in either the previous month or January of last year. Storage holdings of meats showed an increase over both the previous month and January, 1927. Holdings of creamery butter in storage were lower than in the previous month but considerably greater than a year ago, while holdings of cheese showed declines from both prior periods. Stocks of raw sugar at refineries showed a decline from the previous month but were higher than a year ago.

## BUILDING AND CONSTRUCTION

New building contracts awarded in January, measured in value, were lower than in the previous month but higher than a year ago. Larger awards for industrial construction were let than in either the previous month or January a year ago. Fire losses in the United States and Canada were larger than in either prior period. Construction costs showed little change from the previous month, but were somewhat higher than last year.

## BANKING AND FINANCE

Sales of stock on the New York Stock Exchange declined from the previous month but were larger than a year ago. Bond sales were lower in volume than in either prior period. Brokers' loans were higher at the end of January than at the end of January of last year. Loans and discounts of Federal reserve member banks receded from the previous month but were higher than a year ago. Interest rates on both time and call funds were lower than in the previous month; time-money rates were lower than a year ago and call rates were higher. New business of life-insurance companies was smaller than in the previous month but greater than a year ago. Defaulted liabilities of failing business firms were smaller than in either the previous month or January, 1927.

## SUMMARY OF INDEXES OF BUSINESS

## PRODUCTION

The output of raw materials in January was smaller than in either the previous month or January, 1927. Mineral output declined from a year ago but exceeded the December output, crop marketings declined from both prior periods, while the marketings of animal and forest products, although lower than in the previous month, were greater than a year ago. In the case of mineral output all products were produced in smaller quantities than a year ago, except petroleum, zinc, and silver, which increased.

Manufacturing production, after adjustments for working-time differences, showed an increase over the preceding month but was lower than a year ago. The output of all manufacturing industries included in the index was greater than in the previous month, except chemicals and oils and stone and clay products, which declined, and paper and printing, which showed no change. Contrasted with a year ago in creases were registered in the output of foodstuffs, iron and steel, lumber, leather, and stone and clay products, all other groups showing smaller production than a year ago.

PRODUCTION, STOCKS, AND UNFILLED ORDERS FOR MANUFACTURED COMMODITIES
[1923-1925 monthly average $=100$. Adjustment has been made for the seasonal movement of stocks and relative number of working days for production. Unflled orders are principally those of iron, steel, building materials, and textiles. January, 1928, is latest month plotted]


## COMMODITY STOCKS

Stocks of commodities, after adjustments for seasonal variations, showed a decrease from both the previous month and January of last year. As compared with the previous month, declines were reported in the holdings of foodstuffs, both raw and manufactured, sufficient to more than offset increases in stocks of manufactured commodities and raw materials other than foodstuffs. Contrasted with last year, stocks of commodities at the end of January were larger in all groups, except raw foodstuffs.

## SALES

Unfilled orders at the end of January were larger than at the end of the previous month but smaller than a year ago. All groups showed larger forward business than in the previous month, but as compared with last year unfilled orders for iron and steel alone were larger, the increase being insufficient to offset the declines in the other groups.

Wholesale trade showed larger volume than in December and no change from a year ago. As compared with the previous month wholesale business was greater in all lines except groceries and hardware, which declined. As compared with a year ago wholesale busi-
ness in dry goods, men's clothing, boots and shoes, drugs, and furniture was greater, while declines were registered in meats and women's clothing.
Retail trade in January, as measured by department store sales, was seasonally smaller than in December and slightly below a year ago. Stocks of merchandise held by department stores showed a decline from both prior periods. Sales by mail-order houses and 10 -cent chain stores, although smaller than in the previous month, were larger than a year ago. Other chain stores showed larger business than a year ago except cigar chains, which declined.

## PRICES

The general index of wholesale prices declined from the previous month, being lower also than in the corresponding month of last year. Declines in the prices for food, fuel and lighting, and chemicals were more than sufficient to offset increased prices for farm products, hides and leather, and building materials. As compared with a year ago, prices for farm products, foods, hides and leather, textiles, and house-furnishing goods were higher, while prices for fuel and lighting, metals and metal products, building materials, chemicals, and miscellaneous items showed declines.

As reclassified, the general index of wholesale prices showed an increase over the previous week in producers' goods, while consumers' goods declined. Prices for raw materials showed no substantial change from the previous month. Contrasted with a year ago, prices for raw materials and consumers' goods were higher, while producers' goods were lower. Commercial indexes showed substantially the same comparisons with both prior periods.

The indexes of prices received by farmers for their produce showed no change from the preceding month, but was higher than a year ago. As compared with December, increased prices were registered in grains, fruits, and vegetables, and in certain unclassified items, while declines were reported in the prices for dairy and poultry products and cotton and cottonseed. As compared with January, 1927, prices for all groups were higher except meat animals, which showed a decline.

## EMPLOYMENT

Factory employment in January showed a decline from both the preceding month and the same month of last year. As compared with December, employment in all industrial groups was lower, except leather and vehicles, which increased, and iron and steel, which showed no change. Contrasted with a year ago, the January employment was lower in all factories except paper and printing and tobacco products, which showed no change. The greatest declines from last
year in factory employment occurred in iron and steel and nonferrous metal mills.

Factory pay-roll payments in January were also lower than in either the preceding month or January, 1927. As compared with the previous month, declines in pay-roll payments were registered in all groups except leather, which had larger payments. As compared with !ast year, pay-roll !payments in all groups were lower except paper and printing, tobacco products, and vehicles, which showed larger payments. The cost of living was lower than in either the previous month or January of last year, all groups declining from the previous year, except light, which made a slight advance.

Reports from the American Federation of Labor covering unemployment show 18 per cent of union members in representative cities to be out of employment as compared with an average of 14 per cent during the last quarter of 1927. Voluntary quits of factory labor in January were larger than in the previous month but smaller than a year ago. Factory lay-offs made similar comparisons. Industrial accessions were larger than in either the previous month or the corresponding month of 1927. Employment in the Ohio construction industries showed a decline from both the preceding month and the corresponding month of last year. Wages of common labor averaged lower than in December but showed no change from 1927.

## COMPARISON OF WHOLESALE AND RETAIL FOOD PRICE INDEX NUMBERS

WITH INDEX OF ALL COMMODITIES AT WHOLESAIE


## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

[Relative numbers, 1926 monthly average taken as 100 . January, 1928, is latest month plotted]


## WHOLESALE PRICES FOR SPECIFIED COMMODITIES

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

| commodities | Unit | ACTUAL PRICE(dollars) |  |  | relative price |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1926 average $=100$ |  |  |  |  |
|  |  | $\begin{aligned} & \text { Decem. } \\ & \text { ber, } \\ & 1027 \end{aligned}$ | $\underset{1928}{\text { January }}$ | January, | Novem. ber, 1927 | $\begin{gathered} \text { Decem- } \\ \text { ber, } \\ 1027 \end{gathered}$ | $\begin{aligned} & \text { January, } \\ & 1928 \end{aligned}$ | Decem ber, 1926 | January |
| FARM PHODUCTS-AVERAGE PRICE TO PRODUCER |  |  |  |  |  |  |  |  |  |
| Wheat | Bushel. | 1. 139 | 1. 152 | 122.2 | 82 | 84 | 85 | 91 | 90 |
| Corn. | Bussel- | . 751 | . 752 | . 643 | 105 | 107 | 108 | 92 | 92 |
| Potatoes | Bushel | . 941 | ${ }^{936}$ | 1. 391 | 51 | 51 | 50 | 74 | 75 |
| Cotton. | Pound.... | . 187 | 186 | . 106 | 132 | 124 | 123 | 66 | 70 |
| Cottonseed. | Ton.......- | 37.14 | 37.40 | 18.55 | 138 | 137 | 138 | ${ }_{99}^{66}$ | 68 |
| Cattle, beef. | Pound... | . 0832 | . 0848 | . 0645 | 124 76 | 129 | 131 66 | ${ }_{93}^{99}$ | 100 93 |
| Hags | Pound....- | .0814 .1139 | $\xrightarrow{.0781}$ | . 1097 | 76 99 | 69 98 | 66 98 | 93 94 | 93 92 |
| FARM PRODUCTS-MARKET PRICE |  |  |  |  |  |  |  |  |  |
| Wheat, No. 1, northern spring (Minneapolis) | Bushel. | 1.275 | 1. 293 | 1.413 | 82 | 82 | 84 | 92 | 91 |
| Wheat, No. 2, red, winter (Chicago) - ......... | Bushel | 1. 384 | 1. 425 | 1. 368 | 88 | 90 | 92 | 91 | 89 |
| Corn, contract grade No. 2 , cash (Chicago) | Bushel-- | . 867 | . 886 | . 768 | 114 | 114 | 117 | 100 | 101 |
| Oats, contract grades, cash (Chicago) | Bushel.- | . 554 | 564 | . 499 | 119 | 129 | 131 | 117 | 116 |
| Barley, fair to good, malting (Chicago) | Bushel. | . 876 | 932 | . 738 | 121 | 126 | 134 | 107 | 106 |
| Rye, No. 2, cash (Chicago)....------ | Bushel.....- | 1.088 | 1.085 | 1. 015 | 111 | ${ }_{214}^{114}$ | 114 | 102 | 106 |
| Tobacco, leat, average sales, warehouse (Kentucky) | Cwt | 20. 220 | 23.227 | 12.356 | 116 | 239 | 274 | 148 | 147 |
|  | Pound. | . 196 | . 190 | . 134 | 116 | 112 | 108 | 73 | 77 |
| Wool, 1/4 blood, combing, Ohio and Pennsylvania fleeces (Boston)..... | Pound..... | . 49 | . 50 | . 44 | 104 | 107 | 109 | 96 | 96 |
| Cattle, steers, good to choice, corn fed (Chicago)........................ | Cwt | 15. 500 | 15.800 | 10.295 | 167 | 163 | 166 | 102 | 108 |
| Hogs, heavy (Chicago) | CWt | 8. 575 | 8.320 | 11.970 | 83 | 70 | 67 | 95 | 97 |
| Sheep, ewes (Chicago) | Cwt--..... | 5. ${ }^{\text {5. }} 13.013$ | 6.000 12.650 | $\begin{array}{r}\text { 6. } \\ 12.435 \\ \hline 165\end{array}$ | $\stackrel{83}{99}$ | 85 95 | 92 | 86 88 | 91 |
| FOOD |  |  |  |  |  |  |  |  |  |
| Flour, standard patents (Minneapolis) | Barrel..... | 7. 100 | 7.450 | 7.463 | 85 | 84 | 88 | 91 | 87 |
| Flour, winter straights (Kansas City) | Barrel. | 6.563 | 6. 700 | 6. 545 | 91 | 91 | 92 | 91 | 90 |
| Sugar, $96^{\circ}$ centrifugal (New York)- | Pound.-. | . 046 | . 045 | . 051 | 107 | 106 | 104 | 118 | 116 |
| Sugar, granulated, in barrels (New York) | Pound... | . 056 | . 057 | . 062 | 102 | 101 | 104 | 111 | 112 |
| Cottonseed oil, prime yellow (NeW York) | Pound..... | . 100 | . 101 | . 085 | 89 | 84 | 85 | 69 | 72 |
| Beef, frash, carcass, good native steers (Chicago) | Pound....- | . 223 | . 220 | . 170 | 131 | 136 | 134 | 104 | 104 |
| Beef, fresh, carcass, steers (New York)--.-...- | Pound....- | . 238 | . 230 | . 178 | 137 | 139 | 135 | 108 | 104 |
| Pork, smoked hams (Cbicago)---.-- Butter, creamery, 95 score (New York) | Pound...- | . 214 | . 212 | .269 .50 | 71 111 | 70 116 | $\begin{array}{r}69 \\ 109 \\ \hline\end{array}$ | -912 | 87 |
| Oleomargarine, standard, uncolored (Chicago) - .-..................................... | Pound. | . 235 | .235 | . 215 | 103 | 103 | 103 | 94 | 94 |
| TEXTHLES |  |  |  |  |  |  |  |  |  |
| Cotton yarns, carded, white, northern, mule spun, 22-1 cones (Boston) | Pound..... | . 371 | . 369 | . 301 | 107 | 104 | 103 | 87 | 84 |
| Cotton-print cloth, $64 \times 60-381 / 2^{\prime \prime}-5.35-$ yards to pound..-............... | Yard......- | . 080 | . 080 | . 068 | 109 | 105 | 106 | 88 | 90 |
| Cotton sheeting, brown 4/4 Trion (New York) --....-................. | Yard | . 105 | . 098 | . 080 | 119 | 113 | 105 | 86 | 86 |
| Worsted yarns, $2 / 32$ 's cross-bred stock, white, in skein (Boston) | Pound....- | 1. 400 | 1.425 | 1. 375 | 98 | 98 | 99 | 96 | 96 |
| Woman's dress goods, French, 39 inches at mills, serge | Yard | 1. 000 | 1. 000 | 1. 000 | 97 | 97 | 97 | 97 | 97 |
| Suitings, unfinished worsted-13 ounce, mill | Yard. | 1. 917 | 1.935 | 1.895 | 95 | 96 | 97 | ${ }_{95}^{94}$ | 95 |
| Suitings, serge, 11 ounce, 56-58 inch......... | Yard... | 2. 084 | ${ }^{2} .093$ | 2.048 | 95 | 96 | 87 |  | 95 |
|  | Pound pair- | 4.998 10.516 | 5.145 10.290 | 5. 11. 635 | 78 89 | 81 86 | 85 | 97 | ${ }_{93}^{91}$ |
| LEATHER |  |  |  |  |  |  |  |  |  |
| Hides, green salted, packers' heavy native steers (Chicago) | Pound. | . 250 | . 261 | . 155 | 172 | 178 | 186 | 108 | 111 |
| Hides, calfskins, No. 1 , country, 8 to 15 pounds (Chicago) | Pound....- | . 250 | . 300 | . 169 | 132 | 144 | 173 | 96 | 98 |
| Leather, chrome calf, dull or bright " B " grades (Boston) | Square foot- | . 535 | . 535 | . 450 | 113 | 118 | 118 | 99 | 99 |
| Leather, sole, oak, scoured backs, heavy (Boston) | Pound. | - 590 | - 390 | . 430 | 126 | 135 | 135 | 98 | 98 |
| Boots and shoes, men's black calf, blucher (Massachusetts) | Pair. | 6. 500 | 6. 750 | 6. 400 | 102 | 102 | 106 | 100 | 100 |
| Boots and shoes, men's dress welt tan calf (St. Louis)...... | Pair | 5.000 | 5.000 | 4.850 | 102 | 102 | 102 | 99 | 99 |
| FUEL |  |  |  |  |  |  |  |  |  |
| Coal, bituminous, mine-run (composite price) --................-....... | Net ton.... | 4. 144 | 4. 093 | 4. 450 | 96 100 |  | ${ }_{95}^{95}$ | 108 108 | 103 |
|  | Net ton....- | 4.759 13.389 | 4. 13.130 1 | 4.996 | 100 97 | 97 | ${ }_{95}^{95}$ | 101 | 100 |
| Coke, Connellsville (range of prompt and future) furnace-at ovens... | Short ton-- | 2.788 | 2.780 | 3.875 | 69 | 68 | 68 | 95 | 94 |
| Petroleum, crude, Kansas-Oklahoma-at wells.... | Barrel. | 1.220 | 1. 220 | 1.750 | 65 | 65 | 65 | 93 | 93 |
| metals |  |  |  |  |  |  |  |  |  |
| Pig iron, foundry No. 2, northern (Pittsburgh). | Long ton.-- | 19.010 | 19.010 | 20.260 | 93 | 92 | 92 | 100 | 98 |
| Pig iron, basic, valley furnace.- | Long ton... | 17.000 | 17.000 | 18.000 | 92 | 92 | 92 | 100 | 97 |
| Steel billets, Bessemer (Pittsburgh) | Long ton...- | 33.000 | 33.000 | 35.000 | 94 | 94 | 94 | 100 | 100 |
| Copper ingots, electrolytic, early delivery (New York) | Pound -..--- | . 1377 | . 1385 | . 1299 | 97 | 100 99 | 100 99 | 96 98 | ${ }_{9}^{94}$ |
| Brass, sheets, mill ${ }_{\text {Lead }}$ desilverized, for early delivery ( Ne | Pound Pound | . 186 | - 188 | . 182 | 74 | 77 | 77 | ${ }_{93} 98$ | ${ }_{90}^{95}$ |
| Tin, pig, for early delivery (New York)....... | Pound.- | . 5800 | . 5518 | . 6479 | 90 | 91 | 87 | 105 | 102 |
| Zinc, slab, western (St. Louis) -...... | Pound | . 0.572 | . 0564 | . 0666 | 78 | 78 | 77 | 96 | 91 |
| bUILDING MATERIAL AND MISCELLANEOUS |  |  |  |  |  |  |  |  |  |
| Lumber, pine, southern, yellow flooring, mill | M feet | 35.540 | 35.260 | 40.810 | 81 | 79 | 78 | 92 | 91 |
| Brick, common red, domestic building (New York) | Thousand. | 11. 250 | 12.750 | 17.000 | 71 | 68 | 78 | 94 | 103 |
| Cement, Portland, net without bags to trade, f. o. b. plant (Chicago district) $\qquad$ | Barrel..... | 1. 600 | 1. 600 | 1.636 | 97 | 97 | 97 | 100 | 99 |
| Steel beams, mill (Pittsburgh). | Cwt....... | 1.800 | 1.800 | 1.975 | 89 | 92 | 92 | 102 | 102 |
| Rubber, Para Island, fine (New York) | Pound.-.-- | . 294 | . 288 | . 268 | 72 | 77 | 76 | 67 | 70 |
| Sulphuric acid 66 ${ }^{\circ}$ (New York) -.-... | Ton | 15. 500 | 15.500 | 15.000 | 103 | 107 | 107 | 103 | 103 |
| Wood pulp, sulphite, domestic, unbleached, news grade (New York) .- | Cwt | 2. 525 | 2. 525 | 2. 750 | 88 | 88 | 88 | 96 | 96 |
|  |  | 3. 250 | 3. 250 | 3. 250 | 94 | 94 | 94 | 100 | 94 |

## REVIEW OF PRINCIPAL BRANCHES OF INDUSTRY AND COMMERCE

## TEXTILES

lmports of wool in January were greater than in December but smaller than a year ago. The consumption of wool was larger than in either the previous month or January, 1927. Stocks of wool held at the end of 1927 were lower than at the end of the preceding year. Wool machines were more active in January than in either the previous month or the same month of last year.

Receipts of cotton into sight were smaller than in either prior comparative period. Exports of raw
previous month or January, 1927. Prices for cotton cloth were generally lower than in December but higher than in January of the previous year.

Imports of raw silk in January were smaller than in either the previous month or the corresponding month of last year. Deliveries of silk to mills, indicative of consumption, were greater than in either prior period. Stocks of silk held at warehouses at the end of the month showed declines from both the previous month and the corresponding month of 1927. Manufacturers' stocks were larger than in either prior period. Silk prices averaged higher than in the previous month

## THE TEXTILE INDUSTRIES

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

cotton also showed declines from both periods. The consumption of cotton was greater than in December but smaller than in January, 1927. Stocks of cotton held by mills and warehouses were lower than in either prior period. Prices for cotton averaged lower than in December but were considerably higher than a year ago. Prices for cotton yarns showed little change from the previous month, but were higher than in January of the preceding year.

Production of cotton textiles was smaller than in December but considerably greater than a year ago. Stocks of textiles at the end of the month showed increased holdings over both prior comparative periods. Exports of cotton cloth were lower than in either the
but were generally lower than in the corresponding month of the previous year. Imports of rayon were lower than in December, being almost twice as large, howover, as in January, 1927. Rayon prices showed no change from the preceding month but were generally higher than in January a year earlier.

Productive activity of manufacturers of fresh-water pearl buttons was greater than in either the previous month or January a year ago. Stocks of buttons were also larger than in either prior period. Imports of burlaps and fibers were greater than in December, fibers showing an increase over a year ago also.

The production of hosiery in December was smaller than in either the previous month or December, 1926.

Shipments of hosiery, however, declining from the previous month, were larger than in December, 1926. Stocks of hosiery at the end of 1927 were greater than at the end of the preceding year.

Men's and boys' suits cut in December showed an increase over the preceding month but a decline from December, 1926. The number of overcoats cut in December declined from the preceding month, but were larger than in the corresponding month of the previous year. More work clothing was cut in Decem-

The output of malleable castings was larger than in either the previous month or January of last year. Operating activity of reporting mills, however, showed declines from both prior periods. The production of steel ingots was larger than in either the previous month or the corresponding month of 1927, while the operating ratio of steel mills made similar increases over both periods. Unfilled orders for steel at the end of January were larger than at the end of either prior comparative period.

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

ber than in the same month of 1926, while net shipments also showed an increase.

## METALS

The consumption of iron ore was larger than in December but smaller than in January, 1927. Stocks of iron ore, both at furnaces and at Lake Erie docks, held at the end of the month, showed declines from both prior comparative periods. The output of pig iron in January was greater than in December, but smaller than a year ago. The production by merchant furnaces made similar comparisons. More furnaces were in blast at the end of January than at the end of either the preceding month or the same month of last year, while the capacity of furnaces in blast also increased over the previous month and showed a decline from a year ago.

New orders for steel castings in January showed an increase over the previous month, but were smaller than a year ago. The production of steel castings made similar comparisons with both periods. The production of steel sheets by independent manufacturers was greater than in either prior period with the operating ratio of mills showing similar comparisons. Shipments of sheets were likewise greater than in either the preceding month or January of last year. Unfilled orders for sheets, however, showed a decline from the previous month, but were considerably larger than a yaar ago.

New orders for fabricated structural steel were lower than in December but higher than in January, 1927. Structural-steel shipments//made similar comparisons with both periods. New orders for fabricated steel plate showed declines from both the
previous month and January of last year, while new orders for steel boilers, although declining from the previous month, were slightly in excess of those produced a year ago. More steel barrels were produced than in the previous month, but the output was lower than in January of last year, shipments making similar comparisons. Exports of iron and steel products were greater than in December but smaller than a year ago, while imports were lower than in December and greater than January, 1927.

Mine production of copper was greater in January than in the previous month but smaller than a year ago. The production of copper by smelters, however, was smaller than in either period. Stocks of
averaged lower than in either prior period. The output of lead was smaller than in the previous month, showing a decline also from a year ago. Lead prices, showing no change from the previous month, were lower than in the corresponding month of last year.

## AUTOMOBILES AND RUBBER

The production of automobiles was larger than in the previous month and smaller than a year ago, the increase over December being soley due to larger production of passenger cars. Exports of assembled automobiles from the United States were larger than in either the previous month or January, 1927, both trucks being exported in larger volume than in either

## THE AUTOMOBILE AND RUBBER INDUSTRIES


refined copper in North and South America held at the end of January were larger than at the end of either prior period, but blister stocks showed declines from both periods. The wholesale price of copper continued to average higher, being higher also than a year ago.

Deliveries of tin to consuming establishments were larger than in the previous month but smaller than a year ago. The visible supply of tin showed declines from both periods, while the wholesale price of tin also receded. The production of zinc was larger than in the previous month but smaller than a year ago. Stocks of zinc at the end of the month were larger than in either prior period. The price of zinc
period while passenger car exports showed a decline from a year ago. Shipments of accessories and parts were larger than in the previous month, showing an increase also over a year ago. Automobile rim production was greater than in either prior period. Imports of crude rubber were larger than during the previous month but smaller than a year ago. Rubber prices declined from December but were still above those which prevailed in January, 1927.

## FUELS

The production of coal, both bituminous and anthracite, was smaller than in the preceding year, while as compared with the previous month bituminous coal production was greater. Coke production
was larger than in the previous month but smaller than a year ago. Coke prices averaged lower than in either prior period. The production of crude petroleum was smaller than in December but greater than in January, 1927. Prices for petroleum, showing no change from the previous month, were considerably lower than a year ago.

## HIDES AND LEATHER

Imports of hides and skins, although smaller than in December, were greater than a year ago. All classes of skins showed larger importation than in January, 1927, except goatskins, which declined.
production of wood pulp, both chemical and mechanical, was smaller than a year ago. Prices for chemical pulp, although showing no change from the previous month averaged lower than last year.

Production of newsprint paper was greater than in December but considerably smaller than a year ago. The output of newsprint by Canadian mills, however, showed increases over both comparative periods. The consumption of newsprint by domestic publishers was smaller than in the corresponding month but greater than a year ago. Imports of newsprint, although greater than a year ago, were considerably

THE PAPER INDUSTRIES
[Relative numbers, monthly average 1923-1925 taken as 100. December, 1927, is latest month plotted]


Prices for hides averaged higher than in either the previous month or January of last year. The production of sole leather, declining from the previous month, showed an increase over a year ago.

Exports of sole leather were larger than in either prior period. Prices for leather showed no change from the previous month and averaged considerably higher than in January, 1927. Shoe production in January was larger than a year ago. Wholesale prices for shoes averaged higher than in either prior period.

## PAPER AND PRINTING

Imports of wood pulp, both chemical and mechanical, were larger than a year ago, with chemical imports increasing also over the previous month. The
smaller than in 1927. Stocks of newsprint, held at both Canadian and domestic mills, were considerably larger than a year ago, while publishers' stocks were lower. Prices of newsprint, showing no change from the previous month, averaged lower than a year ago.

The production of boxboard was greater than in either prior period, while stocks, although greater than in the previous month, were smaller than a year ago. Fewer titles were published by American book publishers than in either the previous month or the corresponding month of last year.

## building

Contracts awarded for new buildings showed larger contemplated floor space than was reported in either the previous month or January, 1927. Measured
in value, the January awards were lower than in December but considerably higher than a year ago. Construction costs showed little change from the previous month but in general were lower than a year ago. Fire losses in the United States and Canada were greater than in December, being larger also than in January, 1927.

## LUMBER AND LUMBER PRODUCTS

The production of southern pine lumber was greater than in either the previous month or January of last year, shipments being smaller than a year ago. Prices of southern pine were generally lower than in
likewise greater than in either prior period. Total exports of lumber were substantially greater than in either the previous month or in January, 1927. Composite lumber prices of both softwoods and hardwoods were higher than in the previous month but lower than a year ago. The production of flooring showed maple output smaller than in either the previous month or January of last year and oak flooring greater than in either prior period. Stocks of oak were larger than a year ago, while maple stocks were smaller.

Unfilled orders for flooring, both species, were greater at the end of January than at the end of either prior period. New orders for plywood were greater

## THE BUILDING-MATERIAL INDUSTRIES

[Relative numbers, monthly average 1923-1925 taken as 100. January, 1928, is latest month plotted]

either the previous month or January, 1927. The production of Douglas fir showed a decline from the previous month, but was larger than a year ago. California redwood production was greater than in either the previous month or the same month last year, while the output of western pine and North Carolina pine showed declines from both periods. The production of northern pine lumber was greater than in either prior period, while the output of northern pine lath made a similar comparison with both periods.

Total stocks of hardwoods at the end of January were considerably larger than at the end of either the previous month or January of last year. Unfilled orders for hardwoods at the end of the month were
than in the previous month, but smaller than a year ago, while new orders for piano benches and stools showed declines from both prior periods.

## STONE AND CLAY PRODUCTS

The production of face brick was smaller than in either the previous month or January of last year, but shipments and unfilled orders were larger than in either prior period. Prices for common brick averaged higher than in the previous month, but were still considerably lower than a year ago. The production of Portland cement was lower than in December but higher than in January, 1927. Portland cement shipments were larger than in either comparative period, while stocks made similar comparisons. New orders for terra cotta were greater than in either the
preceding month or January of last year. New orders for vitreous china plumbing fixtures were greater than in either the previous month or the same month of 1927, while shipments although larger than in December, were smaller than a year ago. New orders for porcelain plumbing fixtures were greater than in December. The production of sand-lime brick, although smaller than in December, was substantially greater than a year ago. Stocks of sand-lime brick at the end of the month were smaller than at the end of either the preceding month or January, 1927.
higher than a year ago. The output of acetate of lime declined from both previous periods. More turpentine and rosin from gum were received at ports than a year ago, but production of naval stores from wood declined. Both exports and imports of vegetable oils were higher than a year ago. Production of cottonseed oil declined from January, 1927.

## FOODSTUFFS AND TOBACCO

The visible supply of wheat was considerably larger than a year ago, exports were smaller, while receipts

## THE FOODSTUFFS INDUSTRIES

[Relative numbers, monthly average 1923-1925, taken as 100. January, 1928, is latest month plotted]


New contracts awarded for concrete pavements, although smaller than in the preceding month, were considerably larger than a year ago. Production of glass containers, although smaller than in the previous month, was greater than a year ago. New orders for containers, although greater than in the preceding month, were smaller than a year ago. Stocks of containers at the end of the month were smaller than at the end of either the preceding month or January of last year.

## CHEMICALS AND OILS

Larger imports were made in January of both potash and nitrate of soda than in either the previous month or a year ago. Fertilizer consumption in Southern States was seasonally larger than in December and
and shipments at the principal markets showed little change. The flour output increased over a year ago, as did exports. Corn exports and stocks were less than in January, 1927, but receipts, shipments, and grindings increased. Stocks of oats were much smaller than a year ago, as were receipts, while exports increased. Grain prices were generally higher than in December and considerably above a year ago. Flour prices showed little change from January, 1927.

Receipts of cattle and sheep declined slightly from a year ago, but hog receipts were much larger. Slaughter increased over a year ago for hogs and sheep but declined for cattle, but, for all meats, inspected production was greater. Cold-storage holdings declined for beef, increased for pork and lard and showed little
change for lamb, both as compared with the end of December and with a year ago. While beef exports declined, those of pork and lard increased. Prices of cattle and beef were generally higher than in December and far above a year ago, hog and ham prices tending downward from December and decreasing decidedly from January, 1927. Price movements for sheep were mixed.

Meltings of sugar at refineries were larger than a year ago, as were stocks, but exports of refined sugar declined. Sugar prices showed little change from December but were lower than a year ago. Cuban receipts and stocks were much less than at the end of January, 1927, but exports were greater. Coffee imports were higher than a year ago, as was the world visible supply, but stocks in the United States were lower.

Cigarette consumption continued to increase, while cigars fell behind the previous January. Cigarette exports also gained over a year ago.

## TRANSPORTATION

Panama Canal traffic was lighter than in December but heavier than a year ago. More traffic was carried on the Monongahela River than a year ago, but less on the Ohio and Allegheny Rivers. Carloadings declined from a year ago, grains alone showing an increase. Both shipments and orders for freight cars were far below last January. Locomotive shipments were less than a year ago, though domestic shipments increased, and unfilled orders declined almost half.

## DISTRIBUTION

Sales by the leading mail-order houses were seasonally smaller than in December but showed a substantial gain over the preceding year. Sales by 10cent stores were likewise smaller than in December, showing a gain over January, 1927. Newspaper advertising was smaller in January than in either the preceding month or the corresponding month of last year. Postal receipts, although smaller than in the previous month, were larger than in the same month a year ago.

## BANKING AND FINANCE

Check payments, both in and outside New York City, declined from the preceding month butwere
larger than in January, 1927. Loans and discounts of Federal reserve member banks receded from the preceding month but were larger than a year ago. The Federal reserve ratio averaged higher than in December but was lower than a year ago. Brokers' loans, made by Federal reserve member banks in New York City, showed an increase over both the preceding month and January of last year.

Interest rates on both time and speculative funds averaged lower than in December. As compared with a year ago time money-rates were also lower but rates on call loans averaged higher. Prices of stocks averaged higher than in either the previous month or January, 1927. Bond prices made similar comparisons with both periods.

Business failures were more numerous than in either the previous month or January of last year but liabilities of failing business firms showed declines from both prior comparative periods. Dividend and interest payments scheduled for February showed a decline from the preceding month but were larger than a year ago. New paid-for life insurance, although declining from the preceding month, was larger than in January, 1927. The increase over a year ago was solely due to larger sales of industrial insurance, other forms declining.

## GOLD, SILVER, AND FOREIGN EXCHANGE

Domestic receipts of gold at the mint were smaller than in either the previous month or January, 1927. Exports of gold, declining from the preceding month, were more than three times as large as a year ago. Foreign trade in gold showed an export balance in January as contrasted with an import balance a year ago. Domestic production of silver was larger than in either prior period, while silver exports showed declines from both periods. The price of silver averaged lower than in December but higher than a year ago. Merchandise exports were larger than in December but smaller than a year ago, with imports making a similar comparison. Exchanges on the principal foreign countries showed few changes from the previous month but as compared with a year ago, most currencies averaged higher. Exchanges on Japan and France, however, were lower than a year ago.

## INDEXES OF BUSINESS

The index numbers presented in this table are designed to show the detailed trend in production, prices, trade, etc., in various groups of industry and commerce. They consist in general of weighted combinations of series of individual relative numbers; often the individual relative numbers making up the series are also given. The function of index and relative numbers is explained on the inside front cover. Many of the index numbers have been reworked to a comparable basis on the average of the years 1923 to 1925 , while maxima and minima are given only since 1923, except on this page, thus eliminating the abnormal period prior to 1923.

|  | $\begin{gathered} \text { Maxi- } \\ \text { mumm } \\ \text { since } \\ \text { Jan. } 1, \\ 1920 \end{gathered}$ | $\begin{gathered} \text { Mini- } \\ \text { minm } \\ \text { since } \\ \text { Jan. } \\ \text { 1920 } \end{gathered}$ | 1926 |  | 1927 |  |  | 1928 | $\underset{\substack{\text { PER CENT INCREASE } \\ \text { OR DECREASE } \\(-)}}{( }+)$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { Novem- } \\ & \text { her } \end{aligned}$ | $\begin{array}{\|l} \text { Decem- } \\ \text { ber } \end{array}$ | January | $\begin{gathered} \text { Novem- } \\ \text { ber } \end{gathered}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January |  | $\left\{\begin{array}{l} \text { January, 1928, } \\ \text { from, } \\ \text { January, } 1927 \end{array}\right.$ |
| PRODUCTION <br> (Relative to 1919 monthly average as 100) RAW MATERIALS | 180 | 73 | 165 | 140 | 122 | 148 | 127 | 113 | -12.4 | -7.4 |
| Grand total. |  |  |  |  |  |  |  |  |  |  |
| minerals |  |  |  |  |  |  |  |  |  |  |
| Total | 165 | 62 | 158 | 150 | 147 | 135 | 130 | 131 | $+0.8$ | -10.9 |
| Petroleum | 256 | 105 | 220 | 229 | 227 | 234 | 235 | 229 | $-2.6$ | +0.9 |
| Bituminous coal | 155 | 41 | 154 | 149 | 147 | 105 | 106 | 114 | $+7.5$ | -22.4 |
| Anthracite coal | 122 | 0 | 101 | 103 | 89 | 94 | 82 | 77 | -6.2 | $-13.5$ |
| Iron ore* | 273 | 0 | 100 | 1 | 0 | 51 | 0 | 0 | 0.0 | 0.0 |
| Copper. | 152 | 17 | 148 | 143 | 151 | 135 | 133 | 136 | +2.3 | -9.9 |
| Lead. | 193 | 78 | 183 | 191 | 183 | 184 | 182 | 175 | -3.8 | -4. 4 |
| Zinc. | 149 | 38 | 138 | 146 | 136 | 130 | 139 | 139 | 0.0 | +2.2 |
|  | 131 | 57 | 106 | 90 | 82 | 93 | 77 | 78 | +1.3 | -4.9 |
| Silver | 145 | 80 | 101 | 119 | 110 | 106 | 106 | 113 | +6.6 | +2.7 |
| ANIMAL PRODUCTS (marketings) |  |  |  |  |  |  |  |  |  |  |
| Total | 138 | 80 | 125 | 126 | 111 | 124 | 123 | 117 | -4.9 | +5.4 |
| Wool* | 314 | 19 | 47 | 56 | 34 | 51 | 49 | 45 | -8. 2 | +32.4 |
| Cattle and calves | 143 | 58 | 120 | 90 | 89 | 114 | 82 | 86 | +4.9 | -3. 4 |
| Hogs | 177 | 64 | 95 | 105 | 114 | 98 | 113 | 142 | +25.7 | +24.6 |
| Sheep. | 153 | 54 | 85 | 75 | 77 | 84 | 71 | 75 | +5.6 | -2. 6 |
| Eggs* | 245 | 30 | 49 | 63 | 82 | 51 | 51 | 73 | +43.1 | -11.0 |
| Poultry | 390 | 21 | 353 | 388 | 140 | 310 | 355 | 148 | -58.3 | $+5.7$ |
| Fish- | 192 | 45 | 115 | 77 | 105 | 122 | 79 | 113 | +43.0 | +7.6 |
| Milk (New York) | 190 | 94 | 136 | 141 | 142 | 145 | 145 | 146 | +0.7 | +2.8 |
| CROPS (marketings) |  |  |  |  |  |  |  |  |  |  |
| Total | 246 | 49 | 199 | 149 | 122 | 173 | 129 | 104 | -19.4 | -14.8 |
| Grains* | 242 | 43 | 108 | 90 | 104 | 130 | 122 | 115 | -5. 7 | $+10.6$ |
| Vegetables* | 254 | 58 | 137 | 104 | 127 | 149 | 102 | 143 | +40.2 | +12.6 |
| Fruits*..----- | 405 | 50 | 202 | 104 | 96 | 152 | 89 | 70 | -21.3 | $-27.1$ |
| Cotton products*- | 346 | 12 | 343 | 251 | 150 | 244 | 155 | 87 | -43. 9 | -42.0 |
| Miscellaneous crops* | 170 | 18 | 142 | 117 | 113 | 147 | 106 | 111 | -4. 7 | -1.8 |
| forest products |  |  |  |  |  |  |  |  |  |  |
| Total --- | 136 | 61 | 113 | 106 | 98 | $11 \%$ | 106 | 101 | $-4.7$ | +3.1 |
| Lumber- | 137 | 59 | 110 | 102 | 101 | 110 | 101 | 102 | +1.0 | +1.0 |
| Pulp wood.------------- | 164 | 51 | 108 | 97 | 79 | 120 | 119 |  | -10.9 | +34.2 |
| Gum (rosin and turpentine)* | 356 | 20 | 184 | 209 | 61 | 251 | 198 | 64 | -67. 7 | +4.9 |
| Distilled wood. | 149 | 24 | 107 | 102 | 116 | 103 | 94 | 97 | +3.2 | -16. 4 |
| MANUFACTURING |  |  |  |  |  |  |  |  |  |  |
| Grand total (adjusted for working days) | 138 | 71 | 121 | 113 | $11 \%$ | 111 | 105 | 115 | $+9.5$ | -1.7 |
| Grand total (unadjusted) ------------- | 142 | 68 | 121 | 113 | 117 | 111 | 105 | 115 | +9.5 | $-1.7$ |
| Foodstuffs.-.....- | 135 | 77 | 101 | 102 | 103 | 107 | 107 | 120 | +12.1 | +16.5 |
| Textiles-- | 133 | 54 | 113 | 116 | 115 | 118 | 103 | 111 | +7.8 | -3.5 |
| Iron and steel | 152 | 32 | 127 | 119 | 126 | 104 | 106 | 130 | $+22.6$ | +3.2 |
| Lumber- | 166 | 57 | 137 | 127 | 123 | 127 | 118 | 124 | +5. 1 | +0.8 |
| Leather | 115 | 63 | 84 | 82 | 80 | 83 | 79 | 83 | $+5.1$ | +3.8 |
| Paper and printing | 127 | 69 | 123 | 118 | 118 | 102 | 104 | 104 | 0.0 | -11.9 |
| Chemicals, oils, etc | 211 | 92 | 205 | 210 | 198 | 206 | 199 | 187 | -6. 0 | -5. 6 |
| Stone and clay products | 190 | 69 | 144 | 115 | 90 | 155 | 131 | 104 | -20.6 | +15.6 |
| Metals, excepting iron and steel | 195 | 71 | 154 | 142 | 160 | 139 | 129 | 139 | +7.8 | -13.1 |
| Tobacco | 147 | 70 | 128 | 104 | 115 | 135 | 103 | 112 | +8.7 | -2. 6 |
| Miscellaneous.. | 164 | 37 | 105 | 86 | 105 | 74 | 77 | 93 | $+20.8$ | -11.4 |

[^1]INDEXES OF BUSINESS-Continued


## INDEXES OF BUSINESS--Continued



## STEEL CASTINGS ${ }^{1}$



[^2]FABRICATED STRUCTURAL STEEL ${ }^{1}$

${ }^{1}$ Compled by the U. S. Department of Commerce, Bureau of the Census, including reports from the Central Fabricators Association. Original reports from 229 identical firms, including 27 additional firms now out of business, with a capacity in 1928 of 305,685 tons per month, have been prorated to the estimated total capacity of the country, based on reports of 435 firms, this total capacity increasing froma 364,000 tons per month in 1922 to 375,000 tons in 1927, which is also used for the 1928 figures. Owing to the additional number of firms reporting, these figures show slight revisions from those carried in the Record Book of Business Statistics, Metals and Machinery Section, for years since 1921.

2 Nine months.

## MISCELLANEOUS DATA



[^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 or relative numbers, including base periods, see introduction on inside front cover.


## TREND OF BUSINESS MOVEMENTS-Continued



TREND OF BUSINESS MOVEMENTS-Continued


## TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  |  |  | 1929 | 1927 | per centinCREASE ( + ) or decrease (-) |  | comulative total from jandary 1 throvge decemBER 31 |  | Per ct <br> in- <br> crease <br> $(+)$ <br> or de- <br> crease <br> cumy <br> cumu- <br> lative <br> 1927 <br> from <br> 1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | Septem. ber | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem. } \\ & \text { ber } \end{aligned}$ | January | January | Jan, 1928, from Dec, 1927 | $\begin{aligned} & \text { Jan, }, \\ & \text { las, } \\ & \text { from, } \\ & \text { Jan, } \\ & \text { 1827 } \end{aligned}$ | 1926 | 1927 |  |
| IRON AND STEEL-Continued Crude Steel-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheets, black, blue, galvanized, and full finished: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total...-....-.-........-....-net tons.- | 266,645 | 220,919 | 245, 765 | 232,041 | 260,130 | 316,541 | 256, 856 | $+21.7$ | +23.2 | 3,447,452 | 3, 287, 276 | -4.6 |
| Ratio to capacity............- per cent.- | 80.3 | 62.6 | 71.7 | 65.9 | 75.9 | 89.6 | 83.5 | +18.1 | $+7.3$ |  |  |  |
| Stocks, end of month- <br> Total net tons. | 169,315 | 155, 865 | 145,980 | 145, 644 | 150, 104 | 170, 453 | 161,661 | +13.6 | +5.4 |  |  |  |
| Unsold.-.................................- | 54,553 | 53, 311 | 50,518 | 52,966 | 52,474 | 59, 508 | 44, 974 | +13.4 | +32.3 |  |  |  |
|  | 266, 713 | 230, 443 | 232, 626 | 224, 789 | 221, 689 | 274, 126 | 239, 019 | +23.7 | +14.7 | 3, 394, 017 | 3,152,173 | -7.1 |
| New orders......-.-.-.-.-.-.- | 177, 647 | 258, 427 | 234, 358 | 344, 519 | 530, 197 | 302, 921 | 261, 357 | -42.9 | +15.9 | 3, 196, 327 | 3, 354, 694 | +5.0 |
| Unfilled orders, end of month.....net tons.. | 312,662 | 350, 117 | 308, 264 | 437, 306 | 745, 393 | 694, 197 | 526, 550 | -6.9 | +31.8 |  |  |  |
| Steel barrels: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 56.2 | 47.4 | 51.6 | 45,6 | 40.8 | 43.7 | 48.1 | +7.6 | $-9.1$ |  |  |  |
| Shipments --.------.-.-.-.-.-.-. - barrels.- | 610,454 | 525, 374 | 572, 893 | 497, 345 | 454, 638 | 474, 159 | 525,518 | +4.3 | -9.8 | 6,586,845 | 6,624, 753 | $+.6$ |
| Stocks, end of month .-..----...-. barrels... | 57,413 | 53,938 | 59, 453 | 63, 017 | 52, 606 | 54, 353 | 51, 409 | +3.3 | +6.7 |  |  |  |
| Unfilled orders, end of month.-.-. barrels.- | 1, 106, 604 | 1,124, 437 | 1,000,559 | 845, 789 | 1, 308, 365 | 1, 351, 797 | 1,788, 194 | $+3.3$ | $-24.4$ |  |  |  |
| Track work, production...........-short tons.- | 4 13,387 | 410,999 | 19,914 | 49,706 | ${ }^{19} 9,139$ | 9,332 | -12,969 | +2.1 | $-23.0$ | 197, 005 | 160, 631 | -18.5 |
| Iron, steel, and heavy hardware: <br> Sales..........................rel. to Jan., 1921.. | 200 | 203 | 216 | 186 | 166 |  | 169 |  |  |  |  |  |
| Loek washers, shipments.......-.thous. of dolls.-- | 228 | 203 | 199 | 174 | 183 | 219 | 208 | +18.7 | $+5.3$ |  | 2,782 |  |
| Wholesale prices: ${ }_{\text {Steel }}$ billets, Bessemer doils per long ton |  |  |  |  |  |  |  |  |  |  |  |  |
| Steel billets, Bessemer.. dolls. per long ton-- Iron and steel......-.dolls. per long ton-- | 33.00 36.24 | 33.00 36.22 | 33.00 35.75 | 33.00 35.39 | 33.00 35.10 | 33.00 35.27 | 35.00 37.76 | $\stackrel{0}{+}$ | -5.7 |  |  |  |
|  | 1.80 | 1.83 | 1.80 | 1.75 | 1.80 | 1.80 | 2.00 | 0 | -10.0 |  |  |  |
| Composite finished steel dolls. per $100 \mathrm{lbs}_{\text {_- }}$ | 2.53 | 2.51 | 2.48 | 2.47 | 2.46 | 2.47 | 2. 62 | +. 4 | $-5.7$ |  |  |  |
| Steel sheets, Youngstown district-....................dolls. per 100 lbs . | 3.00 |  | 3.10 |  | 3.00 |  |  |  |  |  |  |  |
| Fabricated Steel Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Structural steel, fabricated: |  |  |  |  |  |  |  |  |  |  |  |  |
| Ratio to capacity --..---.-- per cent- |  | 70 | 77 | - 63 | 288, 69 | 210.57 | 195, 52 | -17.4 | $+9.6$ |  |  |  |
| Shipments (prorated).........-short tons-- Ratio to capacity...-.......-per cent- | 247, 500 | 270,000 72 | 251,250 67 | 247, 500 | 240,000 64 | 210, 000 | 195,000 52 | -12.5 -12.5 | +7.7 +7.7 | 3,218, 400 | 2,857,500 | -11.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 48,577 | 38,662 | 47,090 58 | 27,341 | 35,648 | 32,810 | 35,854 | -8.0 | -8.5 -8.9 | 513, 913 | 497,697 | -3.2 |
|  | - 690081 | 15,421 | $\begin{array}{r}\text { r } \\ \hline 18 \\ \hline 1848\end{array}$ | 8,920 | 13, 46 | 8,758 | 14,342 | -6.8 -34.5 | -38.9 | 175, 367 | 210, 974 | +20.3 |
| Steel boilers, new orders: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,517 | 1,312 | 1,270 | 1,235 | 1,054 | 1,025 | 1,021 | -2.8 | $+4$ |  | 15,946 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments.---.-......--thous. of dolls.- | 2,475 | 2,219 | 2,380 | 2,856 | 2,741 | 2,713 | 2,731 | -1.0 | -. 7 | 31, 429 | 31, 106 | -1.0 |
| New orders...-.--.-.-.thous. of dolls.- | 2,382 | 2,368 | 2,411 | 2,476 | 2,850 | 3,248 | 2,887 | +14.0 | $+12.5$ | 31,393 | 30, 760 | -2.0 |
| Unfilled orders, end mo_thous of dolls.- | 1,412 | 1,558 | 1,574 | 1,577 | 1,414 | 2,000 | 1,728 | +41.4 | +15.7 |  |  |  |
| Shipments............-thous. of dolls.- | 604 | 531 | 619 | 591 | 578 | 680 | 556 | +17.6 | +22.3 | 7,337 |  | -1.0 |
| New orders-.--.-.-.-.-- thous. of dolls.-. | 592 | 608 | 551 | 575 | 619 | 769 | 576 | +24.2 | +33.5 | 7,340 | 7,351 | + |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports....-.-.-.-.-.-.-.-..........long tons.- | 51,596 | 46, 573 | 39, 516 | 51, 185 | 55,070 | 49,903 | 42, 219 | -9.4 | $+18.2$ | 933, 641 | 552, 907 | $-40.8$ |
| Machinery |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Washing-machines, shipments: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total--..-.-.-.-----.............nnumber-- | 75, 155 | 84, 795 | 86,922 | 79, 422 | 69, 945 |  |  |  |  | 1, 029,053 | 944, 506 | -8.2 |
| Electric......-.-..................-number.- | 63,606 | 70, 227 | 71,570 | 64, 082 | 56, 999 |  | 55,319 |  |  | 843, 685 | 775, 661 | -8.1 |
| Water sorteners, shipments..----------units-.- | 1,595 | 1,674 | 1,743 | 1,414 | 1,106 | 1,268 | 1,273 | +14.6 | - -37 | 17,355 78 | 18,118 | +4.4 |
| Pumps: <br> Domestic shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pitcher, hand, etc-........-....-units.- | 39,969 | 43,007 | 40,443 | 36, 130 | 38,148 | 48,137 | 45, 283 | +26.2 | +6.3 | 546, 644 | 499, 499 | -8. 6 |
| Power, horizontal type.........-units.- | 994 | 1,492 | 1,758 | 1,461 | 1,370 | 1,582 | 608 | +15.5 | +160.2 | 6,288 | 13,058 | +107.7 |
| New orders .-.-.-....-thous. of dolls.- | 1,489 | 1,178 | 1,300 | 1,403 | 1,300 | 1,137 | 1,634 | -12.5 | -30.4 | 18,888 | 17,179 | $-9.5$ |
| Shipments------7.-.thous. of dolls-- | 1,474 3,040 | 1,221 2,950 | 1,303 <br> 2,950 | 1,294 | 1, 2155 | 1, 1138 | 1,112 | -9.3 | +2.3 | 18,625 | 16,799 | -9.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 177.6 166.8 | 157.2 134.4 | ${ }_{112.6}^{12.6}$ | 87.3 80.0 | $\begin{array}{r}190.7 \\ 182.4 \\ \hline\end{array}$ | ${ }_{126.2}^{123}$ | 103.7 | +35.8 +53.0 | +18.8 +19 |  |  |  |
| Foreign.....................-rel. to 1923-25-- | 234.0 | 277.0 | 178.0 | 125.6 | -133.8 | 114.3 | 103.6 93.5 | ${ }_{-14.6}$ | +19.4 |  |  |  |
| Production-.....-.........rel. to $1923-25-$Foundry equipment: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments -.................-rel. to 1922-24.- |  |  | 113.4 | 97.2 | 110.4 | 116.4 | 180.4 | +2.4 +5.4 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sales (new orders).................number-. | 160 | 104 | ${ }^{95}$ | ${ }_{6}^{67}$ | 83 | 75 | 69 | $-9.6$ | +8.7 | 1,361 | 1,261 | $-7.3$ |
| Machine tools: |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders....-.-....-.-...-rel. to 1922-24.- | 170 | 106 | 133 | 134 | 169 | 218 | 123 | +29.0 | +77.2 |  |  |  |
| Shipments.-...------...--rel. to 1922-24.- | 118 | 128 | 152 | 149 | 157 | 149 | 138 | -5.1 | +8.0 |  |  |  |
| Unifled orders, end of mo..rel. to 1922-24.-. | 278 | 265 | 231 | 214 | 192 | 293 | 248 | +52.6 | +18.1 |  |  |  |
| 2 Quarter ending in month indicated. |  | uarter end | ding Decem | ber 31, 192 |  | ${ }^{4}$ Revised. |  | page 21 | of this | sue for pre | ious data. |  |

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. | 192\% |  |  |  |  | 1928 | 192\% | PER CENT INCREASE ( + ) OR DECREASE (-) |  | cumulative total FROM JANUARY 1 THROUGE DECEMBER 31 |  | Peract.in-crease$(+)$or de-crease$(-) 1$cumu-lative1927from |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | August | Septem. ber | October | Novem. ber | Decem- ber | January | January | Jan., 1928, from Dec., 1927 | Jan., 1928, from Jan., 1927 | 1926 | 1927 |  |
| IRON AND STREEL-Continued Machlnery-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Electric hoists: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 278 | 300 | 270 | 223 | 272 | 346 | 262 | +27.2 | +32.1 | 3,605 | 3.293 | -8. 7 |
| Value............................-doll ${ }^{\text {drs.. }}$ | 162,594 | 147,323 | 114, 835 | 102, 238 | 122,663 | 160,852 | 134, 006 | +31.1 | +20.0 | 1,920.194 | 1,619,782 | -15.8 |
| Shipments...................................-dollars.-- | 128, 331 | 151,674 | 121, 445 | 139,066 | 102, 206 | 133, 842 | 139, 522 | $+31.0$ | -4.1 | 1,981,063 | 1,540,300 | -22.2 |
| Electic overhead cranes: |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments New orders | 729 483 | 653 | 764 566 | 637 525 | 762 586 | 432 <br> 358 | 704 | -43.3 -38.9 | -38.6 | 11,722 | 9.308 7,976 | -20.6 -31.8 |
| Unfilled orders, end mo....thous, of dolls.- | 2, 278 | 2, 273 | 2,117 | -1,975 | 1,792 | 1,735 | 3, 971 | -3.2 | $-56.3$ |  |  |  |
| Electric industrial trucks and tractors: |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments, domestic- |  |  |  |  |  |  |  |  |  |  |  |  |
| Tractors..........-number of vebicles.- | 87 | 8 68 | ${ }_{81}^{11}$ | 15 | 8 77 | 5 88 | ${ }_{6}^{6}$ | -37.5 +27.3 | -16.7 +46.3 | 1,190 |  | -28.8 -11.8 |
| Exports ..............-number of vehicles.- | 2 | 5 | 17 | 19 | 11 | 9 | 17 | -18.2 | -47.1 | 88 | 130 | +32.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Motor vehicles......................number.- | 143 | 122 | 108 | 111 | ${ }^{1} 114$ | 71 | 93 | -37.7 | -23.7 | 1,528 | 1,434 | -6.0 |
|  | 48, 101 | 46,255 | 48,472 | 43, 723 | 447,870 | 43, 175 | 47,354 | -9.8 | -8.8 | 614, 524 | 588, 682 | -4.2 |
| Patents issued: <br> Total, all classes. number. | 3,815 | 2,792 | 3,185 | 4, 232 | 3,170 | 3, 504 | 3, 029 | $+10.5$ | +15.7 | 44, 751 | 41, 731 | $-6.7$ |
| Agricultural implements........................ | 46 | 37 | 57 | 61 | 42 | 45 | 42 | +7.1 | +7.1 | 631 | 616 | -2.4 |
| Internal-combustion engines .-....number.- | 67 | 34 | 73 | 60 | 33 | 51 | 64 | +54.5 | -20.3 | 613 | 777 | $+26.8$ |
| NONFERROUS METALS |  |  |  |  |  |  |  |  |  |  |  |  |
| Production: Copper |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Smelter-...............-..................short tons.- | 78,245 | 74, 418 | 83,551 | 79, 878 | 85, 868 | 77, 429 | 80,719 | $-9.8$ | $-13.7$ | 984, 166 | 968, 657 | $-1.0$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| America) .....................short tons.. | 119,786 | 119, 100 | 124, 927 | 118,263 | 128,923 | 122, 723 | 133, 110 | -4.8 | -7.8 | 1,440,454 | 1,476.506 | +2.5 |
| World production, blister-..........short tons..- | 135,015 | 133,291 | 145, 278 | 141,975 | 148,961 | 140,546 | 143,337 | $-5.6$ | -1.9 | 1,600, 491 | 1,658, 346 | +3.6 |
| Domestic shipments, refined......-short tons. - | 71, 736 | 71.578 | 68.619 | 59, 264 | 60, 862 | 64, 824 | 76, 499 | +6.5 | -15. 3 | 902, 174 | 824.844 | -8.6 |
| Exports short tons Stocks (North and South America), end mo.: | 46, 571 | 46, 137 | 41,317 | 41, 129 | 51, 322 | 52,095 | 43,879 | +1.5 | +18.7 | 470, 769 | 523, 572 | +11.2 |
| Refined....-.-...................s.short tons.- | 93,654 | 86,493 | 83,882 | 90,874 | 95, 298 | 96,476 | 93,982 | +1.2 | $+2.7$ |  |  |  |
|  | 253,886 | 246, 517 | 246,354 | 250,014 | - 248, 420 | 4237,881 | 276,316 | -4.1 | -13.9 |  |  |  |
| Wholesale price, electrolytic.......dolls. per lb.. | . 1297 | . 1294 | . 1296 | . 1332 | .137\% | . 1385 | . 1299 | +. 6 | +6.6 |  |  |  |
| Copper Producte |  |  |  |  |  |  |  |  |  |  |  |  |
| Plumbing fixtures: |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders, tubular- |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 229,923 | 230,978 | 200, 298 | 238, 034 | 211,779 |  | 371.125 |  |  | 2,411,077 | 2.751. 618 | +14.1 |
| Value...-.-...-.-................. dollars.-: | 207,013 | 209, 702 | 178,280 | 162,871 | 187,767 |  | 248,094 |  |  | 2, 449, 301 | 2, 379,284 | $-2.9$ |
| Wholesale price, 6 pieces . . . . . . . . .dollars. | 104.39 | 104.51 | 104.71 | 104.33 | 99.44 | 98.59 | 105.91 | -. 9 | -6. 9 |  |  |  |
| Wire cloth: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production .................-thous. of sq. ft.- | 422 | 409 | 432 | 464 | 492 | 449 | 501 | $-8.7$ | -10.4 | 5, 887 | 5.48 | $-7.2$ |
| Shipments .-.-.-.............t. thous. of sq. ft.- | 4426 | 417 | 446 | 470 | 404 | 425 | 424 | +5.2 | +. 2 | 5,616 | 5.042 | $-10.2$ |
| Stocks, end of mo....-.-...- thous. of sq. it. | 1,320 | 1,242 | 1,187 | 1,161 | 1,213 | 1,189 | 1,149 | -2.0 | $+3.5$ |  |  |  |
| New orders....-.....-.....thous. of sq. ft-- | 413 | 440 | 476 | 442 | 381 | 414 |  | +8.7 |  |  |  |  |
| Unfilled orders, end of mo thous. of sq. ft.-. | 256 | 265 | 332 | 292 | 316 | 315 | 286 | -. 3 | +10.1 |  |  |  |
| Make nnd hold orders, end <br> of mo $\qquad$ thous. of sq. it... | 398 | 390 | 412 | 366 | 413 | 441 | 341 | +6.8 | +29.3 |  |  |  |
| Tin |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| World visible supply $\qquad$ long tons. United States. long tons.- | 14,487 2,201 | 15,083 1,973 | 14,684 3,158 | 14,594 2,003 | 15,733 1,573 | 15,244 $\mathbf{2 , 7 6 8}$ | 15,342 3,304 | -3.1 +76.0 | -16. ${ }^{-6}$ |  |  |  |
|  | 8,560 | 4,938 | 7,179 | 4, 876 | 3,958 | 5,727 | 7,966 | +44.7 | $-28.1$ | 77,090 | $71.20{ }^{-1}$ | -7.6 |
| Wholesale price, pig (New York) dolls. per lh.. | . 6352 | . 6074 | . 5756 | . 5709 | . 5805 | . 5518 | . 6479 | -4.9 | $-14.8$ |  |  |  |
| Zinc |  |  |  |  |  |  |  |  |  |  |  |  |
| Retorts in operation, end of month..-number -- | 76,851 | 74, ${ }^{\text {? }}$ | 76,067 | 76,627 | 77,084 | 72, 204 | 88,908 | -6. 3 | $-18.8$ |  |  |  |
| Production.-.-..--...-.....-.-....-short tons.- | 49,012 | 47,725 | 50, 185 | 49,217 | 52,347 | 52, 414 | 56, 898 | +. 1 | $-7.9$ | 638,533 | 613, 548 | $-3.9$ |
| Stocks, end of month .............short tons..SOre, Joplin, district: |  |  |  |  |  |  |  |  |  |  |  |  |
| Ore, Joplin, district: | 61, 749 | 55,308 | 76,430 | 49,830 | - 54, 586 |  | -69,835 |  |  | 840,867 | 689.036 | -18.1 |
| Stocks, mines, end of month.-short tons.- | 24,934 | 28,806 | 29,776 | 39, 296 | 43, 147 |  | 25, 515 |  |  |  | 6. |  |
| Price, slab, prime western........dolls, per lb.-. | . 0634 | . 0621 | . 0600 | . 0575 | . 0572 | . 0564 | . 0666 | -1.4 | $-15.3$ |  |  |  |
| Lead |  |  |  |  |  |  |  |  |  |  |  |  |
| Production.---.-..-................ - short tons.- | 55,830 | 53, 204 | 56, 134 | 57, 703 | 56, 812 | 54, 820 | 59, 383 | -3.5 | $-7.7$ | 708, 147 | 687, 273 | -2.9 |
| Ore shipments: <br> Joplin district $\qquad$ short tons. |  | 6,439 |  | 8,207 | 13,079 |  |  |  |  | 130,378 |  |  |
|  | 63,721 | 80, 362 | 66, 157 | 70,752 | 83,003 | 75, 855 | 64, 768 | $-8.6$ | +17.1 | 7886,381 | 822, 352 | +4.6 |
| Receipts in U. S. ore.-.-.................short tons.. | 56, 479 | 50, 995 | 53,017 | 57,035 | 57,027 | 85,970 | 56, 345 | -1.9 | -. 7 | 678, 036 | 660, 125 | -2.6 |
| Stocks, U. S. and Mexico, end mo._ short tons. Price, pig, desilverized (New | 162,866 | 160, 134 | 155,868 | 155,568 | 156, 280 |  | 134, 682 |  |  |  |  |  |
| York) $\qquad$ dolls. per lb.. | . 0668 | . 0630 | . 0625 | . 0626 | . 0650 | . 0650 | . 0758 | 0 | -14.2 |  |  |  |
| Enameled Ware |  |  |  |  |  |  |  |  |  |  |  |  |
| Baths: |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments ..--.-...-.-............-- pieces.- | 110, 220 | 93, 172 | 85, 163 | 72,424 | 55, 974 | 70,633 | 83, 117 | +26.2 | $-15.0$ | 1, 195, 142 | 1,101, 494 | -7.8 |
| Stocks, end of month--..............-pieces.- | 120,903 | 123,880 | 137,830 | 146, 113 | 157, 868 | 156, 020 | 182, 363 | -1.2 | -14.4 |  |  |  |
| New orders-....-.-.-..........-. pieces-. | 106,502 38,829 | 96,352 41,407 | 82,762 | 69,356 28,993 | 66,504 33,160 | 78,494 36,473 | 86,802 47,343 | +18.0 +10.0 | -9.6 -23.0 | 1,242,969 | 1,120,466 | -9.9 |

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 December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1929 |  |  |  |  | 1928 | 1927 | per centincrease ( + ) or decrease (一) |  | cumulative total. FROM JANUARYTHROUGH DECEM. BER 31 |  | Per ct. in. crease $(++$ or de- crease $(-)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | $\begin{aligned} & \text { Septem- } \\ & \text { ber } \end{aligned}$ | October | Novem- ber | December | January | January | Jan, ligr, from, Dec, 1927 | Jan, 1928, from, Jan, 1927 | 1926 | 1927 | $\begin{gathered} (-) \\ \text { cumu- } \\ \text { lative } \\ 1927 \\ \text { from } \end{gathered}$ |
| HIDES AND LEATHER-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports: Leather-Continued | Leather--Continued |  |  |  |  |  |  |  |  |  |  |  |
| Sole..........-................. . thous of lbs..- | 753 | 730 | 800 | 719 | 924 | 1,265 | 712 | +36.9 | +77.7 | 13, 522 | 9, 833 | $-27.3$ |
| Total.......-.......-thous. of sq. ft -- | 10,576 | 10,518 | 12,177 | 16,530 | 14,488 | 15,532 | 12,663 | +7.2 | +22.7 | 140, 871 | 148,256 | +5.3 |
| Cattle and calf........ thous. of sc. ft-- | 7,375 | 7,340 | 7,634 | 11, 093 | 9,975 | 10,614 | 8, 875 | $+8.4$ | $+19.6$ | 103, 088 | 104,011 | +0.9 |
| Sheep...................- thous. of sq. ft.- | 2, 878 | 2,427 | -884 | 4, 695 | -798 | 4, 815 | - ${ }_{644}$ | +2.1 | +26.6 | 30,866 8,196 | 35,831 8,414 | +16.1 +2.1 |
| Prices: ${ }^{\text {c }}$, |  |  |  |  |  |  |  |  |  |  |  |  |
| Sole, onk, scoured backs, <br> heayy, Boston $\qquad$ dolls. per lb. | . 53 | . 53 | . 55 | . 55 |  | . 59 |  |  |  |  |  |  |
| Chrome calf, "B; 'irades...dolls. per sq. ft. | .51 | . 31 | . 51 | .85 | - 34 | . 54 | . 45 | 0.0 | +37.2 +20.0 |  |  |  |
| Leather Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Production $\qquad$ thous. of pairs.. | 35,061 | 33,933 | 32, 267 | 125,973 | 23, 525 |  | 24,993 |  |  | 324, 513 | 343, 008 | +5.9 |
| Exports $\qquad$ thous. of pairs.. | 337 | 312 | 376 | 433 | 381 | 388 | 491 | +1.8 | $-21.0$ | 5,707 | 5, 514 | $-3.4$ |
| Men's black calf <br> blucher, Mass_-.......dolls. per pair.- | 6.40 | 6.50 | 6. 50 | 6. 50 | 6. 50 | 6.75 | 6. 40 | +3.8 | +5.5 |  |  |  |
| Men's dress welt, tan dolls per pair |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5.00 | 5.00 | 5.00 | 5.00 | 5. 00 | 5. 00 | 4.85 | 0.0 | +3.1 |  |  |  |
| welt, lace, oxford.-...dolls per pair.. | 4.00 | 4. 00 | 4. 00 | 4. 00 | 4.00 | 4. 03 | 4.00 | +0.8 | 0.0 |  |  |  |
| Leather Products |  |  |  |  |  |  |  |  |  |  |  |  |
| loves: <br> Glove leather- |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. $\qquad$ thous. of skins Stocks (tanned)- | 898 | 882 | 987 | 918 | 858 |  | 227 |  |  | 8, 195 | 10, 161 | $+24.0$ |
| In process..........thous. of skins... | 1,589 | 1. 494 | 1,467 | 1,434 | 1,150 |  | 1,913 |  |  |  |  |  |
| Finished............thous of skins.- | 2,636 | 2,614 | 2,457 | 2,481 | 2,611 |  | 2,672 |  |  |  |  |  |
| Gloves, cut- Total..................dozen pairs.. | 241,652 | 229,999 | 244, | 225,779 | 182,810 |  |  |  | -9.4 | 2,496,464 |  | $+4.7$ |
| Dress and street - - - - - - dozen pairs.- | 241,622 |  |  | 225, 77 | 182, 810 | 176,884 | 196, 270 | -2.7 | -9.4 | 2,496,464 | 2,614, 580 | $+4.7$ |
| Imported leather......dozen pairs.- | 64, 010 | 60,851 | 59,601 | 50, 532 | 41, 150 | 37,738 | 50,917 | -8.3 | -25.9 | 603,996 | 690,939 | +14.4 |
| Domestic leather......dozen pairs.- | 41,669 | 38, 132 | 36, 537 | 33,635 | 22,430 | 24,650 | 27, 736 | +9.4 | -11.1 | 393, 890 | 417,562 | +6.0 |
| Work gloves...............dozen pairs.- | 135, 973 | 131,016 | 147, 952 | 141,612 | 119, 230 | 115,496 | 117, 617 | $-3.1$ | -1.8 | 1,498, 567 | 1,506,079 | +0.5 |
| R |  |  |  |  |  |  |  |  |  |  |  |  |
| Crude Rubber |  |  |  |  |  |  |  |  |  |  |  |  |
| World shipments, plantation......-.long tons . ${ }^{\text {a }}$ | ${ }_{32}^{50,535}$ | 48,186 33 | 30,370 30 | + 48,454 | 54, 550 |  |  |  |  | 614,778 413 | 602,320 | -2.0 |
| Imports (including latex)................ong tons.. | 32,810 45,706 | 33,301 37,341 | 30,184 37 | 38,592 33,845 | 30,736 32,654 | 39,108 | 43,340 44,078 | +27.2 | -9.8 | 413,200 518,044 | 426,257 514,995 | +3.2 -.6 |
| Consumption by tire mirs.........thous. of lbs... World stocks, end of month: | 45,706 |  | 37, 130 | 33,845 | 32,654 |  |  |  |  | 518, 044 | 514,995 |  |
| World total.--............-...--long tons.-- | 255, 684 | 260, 799 |  |  |  |  | 237,425 |  |  |  |  |  |
| United States <br> Europe $\qquad$ long tons. long tons. | 96,148 69,109 | 97, 72748 | 97,453 73,876 | 101, 034 | 100, 131 |  | 76,172 58,329 |  |  |  |  |  |
| Producing countries.................-long tons.. | 27, 427 | 27, 822 |  |  |  |  | 27,224 |  |  |  |  |  |
| Afloat............-.-.-....-.-.-- long tons.. | 63,000 | 62,400 | 64,700 | 62,300 | 67, 400 |  | 75,700 |  |  |  |  |  |
| Wholesalc price, Para, N. Y.....-dolls. per lb.-. | . 243 | . 230 | . 249 | . 273 | . 294 | . 28 | . 268 | -2.0 | +7.5 |  |  |  |
| Tires and Tubes |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of month.............thousands.-Shipments- | 8,070 | 7,325 | 7,287 | 7,635 | 7,734 |  | 7,839 |  |  |  |  |  |
| Domestic. . . . . . . . . . . . . -thousands.- | 4,666 | 4, 168 | 3,484 | 3,100 | 2,959 |  | 3, 534 |  |  | 43, 203 | 40,109 | +6.9 |
| Inner tubes: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of montio...........-thousands.. | 11,023 | 10,162 | 10, 187 | 10,216 | 10,297 |  | 11,704 |  |  | 57,510 | 32,607 | -3. 4 |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic.................-. - thousands | 5,898 | 4,973 | 3, ${ }_{93}$ | 3,463 | 3,413 |  | 4,428 |  |  | 52, 735 | 53,556 | $\div 1.2$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-.---.-....-......thousands... | 49 | 36 | 34 | 32 | 33 |  | 44 |  |  | 578 | 570 | -1.4 |
| Stocks, end of month............thousands.. | 183 | 173 | 162 | 161 | 161 |  | 166 |  |  |  |  |  |
| Shipments- Domestic. |  |  |  |  |  |  |  |  |  |  |  |  |
| Domestic...................-thousands.- | 45 5 | 42 4 | 40 | 32 3 | 28 |  | $\stackrel{36}{7}$ |  |  | 498 61 | 509 63 | +2.2 +3.3 |
| Other Rubber Products |  |  |  |  |  |  |  |  |  |  |  |  |
| Rubber-proofed fabrics: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-- Auto fabrics.............thous. of yds.. |  |  |  | 691 | 621 |  |  |  |  | 8,367 | 9,3i8 |  |
| Raincoat fabries...........thous. of yds.- | 2, 223 | 3,123 | 3,179 | 2,489 | 1,303 |  | 784 |  |  | 14,758 | 21,996 | + 49.0 |
| All other.................-thous. of yds.-- | 552 | 666 | 636 | 611 | 594 |  | 414 |  |  | 6,208 | 6,515 | +4.9 |
| New orders, auto fabrics .-. -thous. of yds-- | 876 | 955 | 827 | 720 | 710 |  | 957 |  |  | 7,464 | 9, 932 | +17.3 |
| Production, relative to capacity .. per cent.. | 30.5 | 28.7 | 31.2 | 26.3 | 23.6 |  | 35.7 |  |  |  |  |  |

## TREND OF BUSINESS MOVEMENTS-Continued



TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928,"Survey" | 1927 |  |  |  |  | 1928 | 192\% | per centinCREASE ( + ) OR Decrease (-) |  | cumulative total FROM JANUARY 1 thROUGH DECEMBER 31 |  | Per ct.in-crease(+)or de-crease$(-)$cumu-lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | $\begin{aligned} & \text { Septem- } \\ & \text { ber } \end{aligned}$ | October | $\begin{gathered} \text { Novem- } \\ \text { ber } \end{gathered}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | January | $\begin{aligned} & \text { Jan., } \\ & 1928, \\ & \text { from } \\ & \text { Dee., } \\ & \text { 1927, } \end{aligned}$ | $\begin{aligned} & \text { Jan., } \\ & \text { l928, } \\ & \text { from. } \\ & \text { Jan., } \\ & \text { 1922 } \end{aligned}$ | 1926 | 1927 |  |
| EULLDING CONSTRUCTION ANDFOUSING-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Building Construction and Losses--Con. |  |  |  |  |  |  |  |  |  |  |  |  |
| Contracts awarded, Canada.... thous. of dolls.- | 29,881 | 32,783 | 47, 135 | 30, 260 | 36,682 | 20,480 | 6, 772 | -44.2 | +22.1 | 372, 946 | 418, 951 | +12.3 |
| Building volume (A. G. C.) .-....-.-rel. to 1913.Fire losses. | 238 | 236 | 222 | 215 | 162 | 125 | 129 | -22.8 | -3.1 |  |  |  |
| United States and Cenada |  |  |  |  |  |  |  |  |  |  |  |  |
| (Journal of Cominerce).-thous. of dolls-- | 21,300 1,561 | 21,875 1,789 | 22,327 1,778 | 18,992 1,309 | 31,935 41,947 | 43,261 2,959 | 37,911 2,378 | +35.5 +52.0 | +14.3 +24.4 | $\begin{array}{r} 393,010 \\ 32,903 \end{array}$ | 320,597 22,667 | $\begin{aligned} & -18.4 \\ & -31.1 \end{aligned}$ |
| CUMBER PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |
| Softwood Lumber |  |  |  |  |  |  |  |  |  |  |  |  |
| Southern pine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (computed)..........M ft. b. m.- | 455,796 | 457,587 | 438,708 | 439, 773 | 419, 297 | 462, 571 | 422,022 | +10.3 | +9.6 | 5,374,288 | 5, 173,558 | $-3.7$ |
| Shipments (computed) .......... M ft. b. m.. | 473,029 | 477,046 | 446, 696 | 442,920 | 395, 239 | 470, 837 | 382, 751 | $+19.1$ | +23.6 | 5, 431, 747 | 5, 135, 889 | -5.4 |
| New orders (computed) --..... M ft. b. m.- | 487, 599 | 483, 097 | 453, 811 | 436, 385 | 398, 192 | 523, 508 | - 426,558 | +31.5 | +22.7 | 5, 348, 988 | 5, 241, 265 | -2.0 |
| Stocks, end of mo. (eomputed) .-M ft. b. m.- | 1, 220, 663 | 1,103,268 | 1, 190, 112 | 11, 194, 404 | 1, 207, 534 | 1, 309, 864 | 1,219,779 | +8.5 | +7.4 |  |  |  |
| Unfiled orders, end mo. (comp.) M ft. b. m-- | 328,561 | 320,096 | 346, 715 | 305, 164 | 287, 741 | 385, 054 | -299, 314 | +33.8 | +28.6 |  |  |  |
| Exports, lumber.......-.......... ft. b. m.. | 66,790 | 48, 260 | 48, 637 | 43, 550 | 52, 930 | 66,332 | 64, 492 | +25.3 | $+2.9$ | 581,578 | 711, 411 | +22.3 |
| Exports, timber.................. $\mathrm{Mt}$. b. m.. | 210 | 179 | 113 | 183 | 308 | 870 | 261 | +182.5 | +233.3 | 20,001 | 3,743 | -81.3 |
| Price, flooring -----..dolls. per M ft. b. m.. | 37.68 | 37.49 | 37.08 | 36.42 | 35. 54 | 35.26 | 40.81 | -. 8 | -13.6 |  |  |  |
| Douglas In: |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments (computed) --...-.-. M ft. b. m.- | 521,958 | 492,860 | 491, 070 | 411,389 | 386, 768 | 397, 571 | 411,836 | $+2.8$ | -3. 5 | 6,357,936 | 5, 878, 066 | $-7.5$ |
| New orders (computed) . ........M it. b. m .- | 519, 719 | 487, 936 | 464, 211 | 452, 124 | 397, 511 | 444,514 | 458, 839 | +11.8 | -3.1 | 6,437, 618 | 5, 937, 153 | $-7.8$ |
| Fxports, lumber-....-........-M $\mathrm{Mt}$. b. m.- | 65,121 | 73, 717 | 56, 204 | 61, 999 | 51, 072 | 85, 299 | 48, 025 | +67.0 | +77.6 | 695, 119 | 685, 855 | -1.3 |
| Exports, timber .-....-........M ft. b. m- | 48, 864 | 64,781 | 15,498 | 47,711 | 46,492 | 2,280 | 26,449 | -95. 1 | $-91.4$ | 555, 764 | 519,887 | $-6.5$ |
| Price, No. 1 common dolis. per M ft. b. m-- Price, flooring, $1 \times 4$, ${ }^{\text {a }}$ " and | 16.51 | 16. 39 | 15.17 | 15. 48 | 14.90 | 15. 23 | 16.43 | $+2.9$ | -7.3 |  |  |  |
| better, V. O.-.-.-.-.........-M $\mathrm{Mt}$. b. m.. | 35.83 | 35.83 | 35.47 | 35.08 | 34.50 | 34.04 | 36.06 | -1.3 | $-5.6$ |  |  |  |
| California redwood: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (computed) $\qquad$ M ft. b. m- | 53,977 | 42,343 | 43, 142 | 52, 925 | 36,029 | 39,454 | 32,099 | $+9.5$ | +22.9 | 507,909 | 487,314 | $-4.1$ |
| Shipments (computed)-...-.-.-M ft. b. m.- | 53, 022 | 41, 418 | 42,676 | 40, 578 | 26, 882 | 30, 201 | 35, 851 | $+12.3$ | -15.8 | 469, 979 | 507, 591 | $+8.0$ |
| New orders (computed) -....-....M ft. b. m. | 42,373 | 39,680 | 36, 492 | 41,376 | 23, 398 | 38, 663 | 42, 600 | $+65.6$ | $-9.0$ | 508, 453 | 515,918 | $+1.5$ |
| California white pine: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 122,064 | 119,652 | 123, 538 | 92, 508 | 82, 087 | 90, 891 | 75, 706 | +10.7 | +20.1 | 1,362,985 | 1,226, 242 | $-10.0$ |
| Stocks, end of month.-...-....-M $\mathrm{Mt}$. . b. m-- | 603, 451 | 629, 284 | 623, 671 | 624, 651 | 667,618 | 609, 181 | 591, 017 | -8.8 | +3.1 |  |  |  |
| Western pine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (computed) .-...... M ft. b. m.- <br> Shipments (computed) ........... M ft. b. m.- | 169,338 150,979 | 145,101 150,768 | 134,691 153,019 | $\begin{aligned} & 118,704 \\ & 124,083 \end{aligned}$ | 4 47,348 49,454 | 52,371 123,524 | 69,113 14,579 | -32.3 +24.2 | -24.2 +7.8 | 1,729, 128 $1,782,459$ | $\begin{aligned} & 1,555,726 \\ & 1,633,443 \end{aligned}$ | -10.0 -8.4 |
| Shipments (computed) -......... M ft. b. m.Stocks, end of mo. (computed).M ft. b. m.. | 1,095, 1570 | 150,768 $1,084,500$ | [153, 019 | $\begin{array}{r} 124,083 \\ 1,068,630 \end{array}$ | - $1,039,454$ | 123, 924 | 114,579 $1,069,835$ | +24.2 -4.0 | +7.8 -6.8 | 1,782,459 | $1,633,443$ | -8. 4 |
| North Carolina pine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (computed) ........ M ft. b. m-- | 53,781 | 52, 129 | 57, 295 | 53, 522 | 48,139 | 40,019 | 47, 712 | $-16.9$ | -16.1 | 593,691 | 613, 851 | +3.4 |
| Shipments (computed)............$~$ it. b. m-- <br> Northern pine: <br> Lumber- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-.------.-..---M M f. b. m.- | 51, 054 | 46, 852 | 41, 148 | 32, 815 | 24, 300 | 33, 550 | 32,493 | +38. 1 | +3.3 | 488, 244 | 486, 440 |  |
| Shipments-------...---- M ft. b. m.- | 42,501 | 39,195 | 39, 175 | 32, 857 | 24,680 | 29,451 | 30, 557 | +19.3 | -3.6 | 541,957 | 451, 720 | $-16.7$ |
| New orders.-.-.-.-----...-M Mt . b. m.- | 36, 884 | 32, 098 | 33,698 | 27,569 | 22, 156 | 32, 703 | 29, 184 | +-47.6 | +12.1 | 493, 324 | 411, 144 | $-16.7$ |
| Lath-- Production.................thousands.. | 14,272 | 11,979 | 9,034 |  |  |  | 7,251 |  |  |  |  | -5.9 |
|  | 15,612 | 11,819 | 7,941 | 5,377 | 3,994 | 5,300 | 6,261 | +32.7 | $-15.3$ | 128, 815 | 119,970 | -6.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 21,369 | 14, 277 | 9,188 | 11,026 | 13,949 |  | 19,811 |  |  | 209, 229 | 192,678 | -7.9 |
| Shipments-------...........-. M ft. b. m.- | 22,693 | 19,187 | 17,914 | 14,261 | 10,014 |  | 14, 474 |  |  | 228, 478 | 228, 074 | 2 |
| Hardwood Lumber |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production.......----........-M M ft. b. m.- | 3,314 | 3, 000 | 2,921 | 3,234 | 3,376 | 3,063 | 2,417 | $-9.3$ | +26. 7 | 33,158 | 35,545 | +7.2 |
|  | 3,127 | 2,798 | 2,967 | 2,824 | 2, 548 | 2,687 | 2,809 | +5.5 | -4.3 | 38,642 | 34, 768 | -10.0 |
| Stocks, end of month...-....-- M ft. b. m.- | 11, 498 | 11,796 | 11,739 | 12,149 | 13, 037 | 13,264 | 11, 810 | $+1.7$ | +12.3 |  |  |  |
| New orders.-....-.-.-.-. M ft. b. m.- | 2,461 | 3,046 7,364 | 2,335 | 3,127 | 2,158 | 2,628 | $\stackrel{3}{7}, 621$ | +21.8 | -27.4 | 37,495 | 34, 782 | -7.2 |
| Walnut logs: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Purchased................M ft. log measure.- | 3,308 | 3,773 | 2,549 | 3,515 | 2, 709 | 2,255 | 2,441 | -16.8 | -7.6 | 30,129 | 35, 262 | +17.0 |
| veneer-...-........... M ft. log measure.- | 2,937 | 2,995 | 2,814 | 3,035 | 2,656 | 2,416 | 2,088 | -9.0 | +15.7 | 29, 253 | 31,742 | +8.5 |
| Northern hardwoods:N-TM |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipments----.-...........-.-M $\mathrm{Mf}$. b. m.- | 29,750 | 26, 475 | 27,623 | 24, 556 | 19,269 |  | 25, 178 |  |  | 352, 453 | 329, 100 | $-6.6$ |
| Lower Michigan hardwoods: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production..................... M M f. b. m -. | 4,893 7,507 | 4, ${ }^{4,257}$ | 5,388 7,348 | ${ }_{6}^{5,124}$ | 4,996 5,895 | -........ | 9,135 8,024 |  |  | 93,184 | 80, 339 | -13.8 |
| Stocks, end of month-.---------M Mt . b. m-- | 40, 552 | 35,491 | 33, 532 | 21,350 | -30,902 |  | 8,04 40,804 |  |  | 90, 045 |  |  |
| All hardwoods: <br> Total stocks, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total hardwoods............. M ft. b. m.-. | 843, 886 221,167 | 853,948 231,300 | 873, 696 237,395 | 889,772 241,868 | 930,398 263,649 | 1, ${ }_{2971,295}$ | 898,606 238,364 | +9.8 +1.8 | $+13.7$ |  |  |  |
|  | 308, 723 | - 313,817 | - 318,944 | 241, 3081 | -263,649 | - 3600,590 | 238, 364 | +12.8 | +24.8 |  |  |  |
| Unsold stoeks-- |  |  |  |  |  | 300, 590 |  |  |  |  |  |  |
| Total hardwoods..-------M it. b. m.- | 664, 677 | 683, 762 | 697, 288 | 705,678 | 740,914 | 805,780 | 698, 475 | +8.8 | +15.4 |  |  |  |
| Gum ..................-.-. M ft. b. m.. | 170,437 | 179,246 | 180, 899 | 184,015 | 197,437 | 219,301 | 168,645 | +11.1 | +30.0 |  |  |  |
| Oak .......................- M Mt f. b. m.- | 242, 208 | 257,604 | 259,794 | 259, 053 | 272,082 | 296, 720 | 252, 811 | +9.1 | +17.4 |  |  |  |
|  | 210, 432 | 196,757 | 204, 701 | 214, 616 | 225,388 | 256, 464 | 232,338 | +13.8 | +10.4 |  |  |  |
|  | 66,409 | 64,384 | 68, 494 | 70,292 | 83, 126 | 100, 560 | 83, 627 | +21.0 | $+20.2$ |  |  |  |
|  | 72,736 | 62,011 | 65,499 | 68,699 | 65,343 | 69,392 | 59,143 | +6.2 | +17.3 |  |  |  |
| Production (computed) .......-M M ft. b. m.. | 94, 000 | 96, 000 | 93,000 | 87,000 | 75,000 |  | 84, 000 |  |  | 1,055,000 | 963,000 | $-8.7$ |
| Shipments (complated) ------. M $\mathrm{Mt}$. b. m-- | 79,000 | 82,000 | 83,000 | 77,000 | 69,000 |  | 84,000 |  |  | 1,066,000 | 987, 000 | -7. 4 |
| New orders (eomputed) ......-. M $\mathrm{Mt}$. . $\mathrm{m} . \mathrm{m}$ - | 85,000 | 85, 000 | 87,000 | 79,000 | 76, 000 |  | 90,000 |  |  | 1,093,000 | 1,012,000 | $-7.4$ |

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 19:8, "Survey" | 1937 |  |  |  |  | 1923 | 1927 | PER CENT IN* Crease (+) or decrease ( - ) |  | cumulative total from january 1 through decemBER 31 |  | $\begin{aligned} & \text { Per ct. } \\ & \text { in. } \\ & \text { crease } \\ & \text { (+ } \\ & \text { or de- } \\ & \text { crease } \\ & (-) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | $\begin{aligned} & \text { Septem- } \\ & \text { ber } \end{aligned}$ | October | Novem-ber | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | January | Jan., <br> 1928, <br> from <br> Dec., | $\begin{aligned} & \text { Jan., } \\ & \text { 1922, } \\ & \text { from } \\ & \text { Jan., } \\ & 1927 \end{aligned}$ | 1926 | 1927 |  |
|  |  |  |  |  |  |  |  |  |  |  |  | cumu |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITMRER PRODUCTS-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Lumber |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, 10 species...-...-...... M ft. b. m. | 2, 576, 986 | 2, 487, 733 | 2, 374, 882 | 2, 358,209 | 2,085,371 | 2, 143, 125 | 2, 098,788 | +2.8 | +2.1 | 29, 520,313 | 27, 992, 530 | -5.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail yards, Minneapolis district: <br> Sales $\qquad$ | 16,618 | 14,435 | 16,247 | 12,554 | -4,742 | 5,042 | 4 4,762 | +6.3 |  | 195,494 | 152,822 | -21.8 |
| Stocks, end of month .-.............. M f. b. m.-- | 87,656 | 86, 248 | 80,397 | 74,658 | - 80,690 | 89,035 | 490,307 | +10.3 | -1.4 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardwood..--.-.....dolls. per M ft. b. m--. | 42. 40 | 41. 64 | ${ }^{40.02}$ | 39. 04 | 39. 74 | 40.42 | 41.11 | $+1.7$ | +1.7 |  |  |  |
| Softwoods......-----dolls. per M ft. b. m-- | 29.49 | 29.74 | 31.77 | 28.29 | 26.84 | 27.37 | 29.74 | $+2.0$ | . 0 |  |  |  |
| Flooring |  |  |  |  |  |  |  |  |  |  |  |  |
| Maple flooring: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production......-.-.............M ft. b. m-- | 11,557 | 10, 283 | 10, 558 | 8, 073 | 7,820 | 7,346 | 9,842 | -6. 1 | -25. 4 | 112, 201 | 112,825 | +. 6 |
| Shipments--.............-M Mf. b. m.-. | 10,939 26,338 | 9,843 25,921 | $\begin{array}{r}8,124 \\ 2683 \\ \hline 8\end{array}$ | 7,238 27,610 | 6,797 29,527 | 88, 282 | 7,880 29,034 | ${ }_{-2.7}^{+6.7}$ | -8.0 -1.1 | 110,345 | 111, 274 | $+.8$ |
| New orders.......................M ft. b. m.- | 7,344 | 7,748 | 7,493 | 6,233 | 6,883 | 8,161 | 6, 687 | +18.6 | +23.9 | 105, 977 | 87705 | $-17.6$ |
| Unfilled orders, end of month...M ft. b. m.. | 11,027 | 9,619 | 8,202 | 7, 843 | 8,736 | 9,154 | 6,224 | +4.8 +18 | $+47.1$ |  |  |  |
| Oak flooring: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 40,426 | 39,498 | 38,540 | 33,389 | 32, 113 | 35,947 | 35,215 | +11.9 | +2. 1 | 533, 053 | 451,733 | -15.3 |
|  | 38, 932 | 38, 084 | 38,349 | 30,998 | 29, 266 | 38,080 | 31,929 | +30.1 | +19.3 | 503, 079 | 442, 309 | -12.1 |
| Stocks, end of month.........-M Mt. b. m.. | ${ }^{66,253}$ | 66,416 | 67, 244 | ${ }^{69,449}$ | 74,773 | 82, 239 | 70,629 | +10.0 | +16.4 |  |  |  |
| Now orders.-.-.-.-......-.-M $\mathrm{Mt}$. b. m-- | 36,139 | 37,430 | 35,716 | 31,425 | 34,715 97 | 53,888 | 37,497 | +55.2 +64.7 | +43.7 +118 | 482, 331 | 435, 257 | -9.8 |
| Unfilled orders, end of month.. M ft. b. m-- | 27,036 | 25,127 | 22,764 | 24,080 | 27, 887 | 45,925 | 41,061 | +64.7 | +11.8 |  |  |  |
| Wooden Furniture |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand Rapids district: |  |  |  |  |  |  |  |  |  |  |  |  |
| Unfilled orders, end of dis, production |  |  |  |  |  |  |  |  |  |  |  |  |
| month-........No. of days, production.- | 53 25 | 50 30 | $\begin{aligned} & 41 \\ & 24 \end{aligned}$ | 45 |  |  | 57 46 |  |  |  |  |  |
| Shipments--........No, of days' production.- | 27 | 29 | 30 | 28 |  |  | 25 |  |  |  |  |  |
| Outstanding accounts, end of |  |  |  |  |  |  |  |  |  |  |  |  |
| month -----.-----.-No. of days' sales.- | 55 | 58 | 58 | 59 |  |  | 52 |  |  |  |  |  |
| Cancellations.......per cent of new orders-- | 9.0 | 7.5 | 11.0 | 13.0 |  |  | 6.0 |  |  |  |  |  |
| Plant operation .-...-per cent of full time.- | 98.0 | 99.0 | 100.0 | 99.0 |  |  | 98.0 |  |  |  |  |  |
| Piano benches and stoolsaa |  |  |  |  |  |  |  |  |  |  |  |  |
| Unfilled orders, end of month |  |  |  |  |  |  |  |  |  | 130,03 | 10,8819 | -21.1 |
| (av. per firm) --..---.-..........dollars. | 2,773 | 3,884 | 5,331 | 4,883 | 1,803 | 2, 851 | 3,490 | +58.1 | -18.3 |  |  |  |
| Shipments- <br> Value (av. per firm) <br> dollars | 8,342 |  | 12,935 | 12,667 | 10,338 | 5,918 |  |  | -18.5 |  |  | -20.8 |
| Quantity (total)..................-pieces.. | 10,879 | 12,469 | 17, 401 | 16,661 | 13, 072 | 7,617 | 9, 347 | -41.7 | -18.5 | 165,949 | 137,005 | -17.4 |
| Plywood and vencer |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New orders....-thous. of sq. ft . of surface.-- | 2,890 2,616 | 3,415 3,310 | $\underset{3,516}{2,773}$ | 2,245 3,424 | 2.114 | 2,469 2,575 | 3,219 3,348 | +16.8 -20.0 | $\mathrm{C}_{-23.1}^{23.3}$ | 43,138 46,860 | 34,509 34,956 | -20.0 |
| Shipments ..... thous. of sq. ft. of surface.. | 2,616 | 3,310 | 3,516 | 3,424 | 3,219 | 2,575 | 3,348 | -20.0 | -23.1 | 46, 860 | 34,956 | -25.4 |
| month ........thous. of sq. ft . of surface.- | 3,162 | 3,767 | 3,502 | 2, 765 | 2, 719 | 2,863 | 3,591 | +5.3 | -20.3 |  |  |  |
| Rotary-cut veneer: |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts...............number of carloads.. | 122 | 112 | 101 | 102 | 94 | 80 | 116 | -14.9 | -31.0 |  |  |  |
| Purchases.-.-.-........number of carloads.. | 162 | 105 | 79 | 96 | 86 | 132 | 59 | +53.5 | +123.7 | 2,309 | 1,161 | -49.7 |
| Harrel Headings |  |  |  |  |  |  |  |  |  |  |  |  |
| Circled headings for wooden barrels: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production (rough) --...-.......-.-.-. - sets.- | 855,308 | 7027,07 | 480, 438 | ${ }^{753,053}$ | 585, 774 | 353, 674 | 508, 827 | -39.6 | -30.5 | 8, 489,110 | 8,505,694 | +. 2 |
| Shipments (finished).-.....-.-.-....-sest-- | 805,059 | 703,532 | 831, 402 | 871, 742 | 619, 607 | 407, 094 | 617, 160 | $-34.3$ | -34.0 | 8, 860, 093 | 8, 990, 777 | $+1.5$ |
| New orders (Enished).-.............-sets-- | 413,443 | 542, 291 | 746, 657 | 226,918 | 698, 474 | 456, 145 | 568, 835 | $-34.7$ | -19.8 | 8, 109,745 | 6, 281,940 | -22. 5 |
| Unfilled orders, end of month........-sets.- | 1, 923, 653 | 1, 131, 118 | 1, 175, 241 | 1, 064, 723 | 1,079, 508 | 1,037, 375 | 1,993,216 | -3.9 | -48.0 |  |  |  |
| Stocks on hand, end of month........-sets.. | 3, 169,910 | 13, 221,508 | 3,396, 865 | 3, 203, 704 | 3,205, 147 | 3,341, 371 | 2,924,016 | +4.3 | +14.3 |  |  |  |
| STONE, CLAY, AND GLASS PRODUCTS |  |  |  |  |  |  |  |  |  |  |  |  |
| Clay Products |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production.................... thousands.. | 842 | 798 | 809 | 723 | 626 | 482 | 489 | -23.0 | -1.4 | 8,661 | 8,929 | +3.1 |
| Shipments........-.-..........- thousands.- | 825 | 693 | 724 | ${ }^{622}$ | 368 | 402 | 282 | +9.2 | +42.6 | 8,007 | 7,959 | -. 6 |
| Stocks, end of month......-..-thousands.. | 2,564 | 2,466 | 2, 679 | 2,777 | 2, 832 | 2,958 | 2, 409 | +4.4 | +22.8 |  |  |  |
| Unfiled orders, end of month..thousinds.- | 1,069 | 880 | 801 | 783 | 730 | 761 | 727 | +4.2 | +4.7 |  |  |  |
| Common brick: |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of munth- .........thorsanus.. | 427, 277 | 489,566 | 561,367 | 538,698 | 504, 836 |  | 462,565 |  |  |  |  |  |
| Unburned.-.-.-..............thousands.. | 178,357 | 158,761 | 169, 238 | 91, 424 | 76, 601 |  | 58,331 |  |  |  |  |  |
| Shipments .....-...............thousands.- | 194,971 | 176,315 | 214, 169 | 187, 448 | 168, 282 |  | 93, 806 |  |  | 1,754,834 | 2, 211,243 | $+26.0$ |
| Unfilled orders, end of month . thousands..- | 231,637 | 219, 244 | 182, 462 | 211,961 | 224, 825 |  | 324, 837 |  |  |  |  |  |
| Plants closed down...............number.- |  |  |  |  |  |  |  |  |  |  |  |  |
| Price, red, New York...-.dolis. per thous.. | 11.75 | 11.75 | 11.75 | 11.75 | 11.25 | 12.75 | 17.00 | +13.3 | -25.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Net new orders.......-.--.-........- pieces.- |  | ${ }_{4}^{20,045}$ | ${ }^{1} 14,065$ | - $\begin{array}{r}14,939 \\ 162 \\ 162\end{array}$ | 6,024 | 13, 953 |  | +131.6 |  |  |  |  |
| Unfilled orders, end of month.......ppieces. |  | 4 34, 972 | 429,455 | 128, 143 | 21,925 | 22, 639 |  | +3.3 |  |  |  |  |
| Stocks on hand, finished glust, end |  |  |  |  |  |  |  |  |  |  |  |  |
| of month .-.......-----..........pieces. |  | ${ }^{4} 25,863$ | 429,044 | + 29,998 | 33,353 | 33, 552 |  | +. 6 |  |  |  |  |
| Vitreous china plumbing fixtures. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 279, 539 | 2235,883 | 227,896 245,725 | 168, 138 | 223,188 189,684 | 235,816 240,971 | 200,988 281,896 | +5.7 +27.0 | ${ }_{+14.5}^{+17.3}$ | $3,105,489$ $3,011,784$ |  | -13.5 -2.6 |
| Unfilled orders, end of month........pieces. | 337,956 | 325,069 | 307, 240 | 295,363 | 328, 867 | 323,712 | 497, 700 | -1.6 | -35.0 |  |  |  |
| Stocks, end of month................pieces.- | 520,364 | 518,452 | 500, 868 | 526,773 | 557, 483 | 544,471 | 558, 121 | -2.3 | -2.4 |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  |  |  | 1928 | 1927 | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DECREASE }(-) \end{aligned}$ |  | cumulative total FROM JANUARY 1 through decemBER 31 |  | Per ct.in-crease( + )or de-crease(-)cumu-lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | Septem- ber | October | Novem. ber | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | January | $\begin{aligned} & \text { Jan, } \\ & \text { 1928, } \\ & \text { from } \\ & \text { Dec., } \\ & \text { 1927, } \end{aligned}$ | Jan., <br> 1928, <br> from <br> ${ }_{1927}$ | 1926 | 192\% |  |
| CHEMICALS AND OILS-Continued wood Chemicals |  |  |  |  |  |  |  |  |  |  |  |  |
| Acetate of lime: Production |  |  |  |  |  |  |  |  |  |  |  |  |
| United States_-.-.........thous. of lbs.- | 13,325 | 12,958 | 13,912 | 13, 519 | 12,376 | 12, 152 | 14, 181 | -1.8 | $-14.3$ | 157,077 | 156, 667 | -0.3 |
| Canada........................thous. of lbs.- | 172 | 427 | 1,091 | 1,106 | 1,186 | 1,109 | 1,200 | -6.5 | -7.6 | 8,681 | 9, 700 | +11.7 |
| United States.---.....-. - thous. of libs.- | 13, 516 | 13, 298 | 16,959 1,462 | - 13,611 | 11,779 | 11, 480 | 10,067 509 | -2.9 +88.0 | $\underline{+13.6}$ | 156, 139 | 155,339 7889 | -. 5 |
| Canada --....-..........-thous. of lbs..- | 513 | 830 | 1,462 | 808 | 395 | 782 | 509 | +98.0 | $+53.6$ | 8,585 | 7, 899 | -8.0 |
| United States.-..-......--thous. of libs. | 20, 110 | 19,704 | 16,524 | 16, 274 | 15, 465 | 16,978 | 19,910 | +9.8 | -14.7 |  |  |  |
|  | 2,222 | 1,823 | 1,283 | 1,560 | 2,462 | 2,888 | 2,187 | +17.3 | +32.1 |  |  |  |
| Exports.-.--.-.-.-.-....-. - thous. of lbs.- | 283 | None. | 915 | 676 | 2,078 | 1,630 | 1, 630 | $-21.6$ | 0 | 18, 583 | 12,134 | -34.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production- inited States Cat.............gallons | 582,710 | 576 | 6 | 4662505 | 617 |  |  |  |  |  |  |  |
|  | 12,058 | 17,777 | - 48,179 | - 662,05 47,750 | 617,627 49,107 | 682,883 47,234 | 805,473 49,885 | $\underline{-3.5}$ | -21.4 | $8,095,953$ 364,091 | $7,820,426$ 414,495 | -3.4 +13.8 |
| Stocks at crude plants, end of monthUnited States........................gallons.- | 367,657 | 320, 231 | 375, 965 | 365, 584 | 354, 398 | 341, 722 | 397, 999 | -3.5 | -14. 1 |  |  |  |
| Canada .-..-.-.----...---.-. gallons.- | 27,057 | 31,824 | 39,414 | 33, 414 | 50, 299 | 39, 249 | 48,446 | -22.0 | -19.0 |  |  |  |
|  | 1, 408,637 | 1,467,460 | 1, 181, 225 | 1, 407, 745 | 1,165,544 | 1,126, 152 | 341, 444 | -3.4 | +229.8 |  |  |  |
| Canada--......................-. gallons.- | 28, 610 | 1,590 | 27,995 | 1, 31,987 | -43,458 | 1, 56,104 | 15,913 | $+29.1$ | +252. 6 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United states..---------.......cords | 82,581 | 79,670 | 73, 219 | 70,855 | 65, 150 | 67,012 | 80,233 | +2.9 | -16.5 | 853, 1 | 859, | . 6 |
| Canada | 1,154 | 2,401 | 5,121 | 5,937 | 5,700 | 5,858 | 6, 096 | +2.8 | -3.9 | 49, 413 | 49,086 | -. 7 |
| United States...-.-.-.-...--....cords. | 603, 463 | 613,771 | 595, 591 | 589, 605 | 529, 141 | 554, 488 | 500, 818 | +4.8 | +10.7 |  |  |  |
|  | 68,693 | 66, 624 | 74,942 | 71,695 | 75, 124 | 74, 440 | 34, 872 | -. 9 | +103.5 |  |  |  |
| Daily capacity- | 3,395 | 3,395 | 3,339 | 3,323 | 3,329 | 3,293 | 3,553 | -1.1 |  |  |  |  |
|  | ${ }_{425}$ | 391 | 145 | 3, 145 | 330 | -277 | -155 | $-16.1$ | +78.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States .-. .-. - .-.-.-. - - gallons.- | 317, 521 | 441,771 | 688, 435 | 529, 552 | 470,969 | 496, 073 | 480, 448 | +5.3 | +3.3 | 7,402, 715 | 5, 414, 154 | -28.9 |
| Canada--...--....-.-.......-gallons.. | None. | 28, 293 | 6,700 | 38, 600 | 41,000 | 38,700 | 35, 290 | $-5.6$ | +9.7 | 291, 025 | 300, 138 | +2.8 |
| Stocks, end of month- <br> United States. $\qquad$ gallons | 428, 194 | 382, 876 | 396, 137 | 452, 240 | 419,812 | 455,316 | 436, 656 |  |  |  |  |  |
|  | 50,687 | 58,312 | 26,443 | 32, 854 | 43, 458 | 29, 198 | 58,596 | -32.8 | $-50.2$ |  |  |  |
| Shipments- |  |  |  |  |  |  |  |  |  |  |  |  |
| United States..........-----.-. gallons.- | 389,033 | 506, 914 | 698,476 | -626, 643 | 506,310 | 482, 666 | 374, 530 | -4.7 | +28.9 |  |  |  |
| Canada_.......-.-.....------gallons..- | 8,440 | 23,982 | 38,569 | 28, 629 | 16,937 | 17,775 |  | +4.9 | $-31.7$ |  |  |  |
| Price, wholesale, N. Y.....didils. per gal.- | . 58 | . 55 | . 53 | . 48 | . 48 | - 48 | $\bigcirc{ }^{\text {, }} 83$ | + | $-42.2$ |  |  |  |
| Ethyl Alcohol |  |  |  |  |  |  |  |  |  |  |  |  |
| Production.-.-.-.-.-----......-thous. of gals.. | 15,587 | 14,129 | 16,584 | 18,051 | 19,502 |  | 13, 235 |  |  | 194,653 | 173, 630 | -10.8 |
| Withdrawn for denaturization--thous. of gals.- | 12, 212 | 14, 130 | 17,759 | 17,329 | 18,760 |  | 8,907 |  |  | 179,936 | 162,087 | -9.9 |
| Warehouse stocks, end of month _thous. of gals_- | 11, 122 | 9,838 | 7,931 | 8,211 | 8,158 |  | 3,563 |  |  |  |  |  |
| Explosives |  |  |  |  |  |  |  |  |  |  |  |  |
| (Black powder, permissible, and other high explosives) |  |  |  |  |  |  |  |  |  |  |  |  |
| Production........................thous of lbs.- | 36, 304 | 36, 858 | 38,918 | 34, 695 | 29,490 | 29,607 | +33,847 | +. 4 | -12.5 | 436, 215 | 408,889 | -6.3 |
|  | 35, 736 | 36, 964 | 38, 261 | 34,645 | 27,839 | 31,332 | 33,726 | +12.5 | -7.1 | 436, 335 | 406, 045 | -6.9 |
|  | 34,680 | 35, 304 | 36,747 | 32, 111 | 27, 398 | 29,879 | 33,616 | +9.1 | -11.1 | 416, 580 | 390, 540 | -6.2 |
| Stocks, end of month .........-- thous. of libs.- | 17, 344 | 17, 152 | 17,807 | 17, 847 | 19, 196 | 17,973 | 17,303 | -6.4 | +3.9 |  |  |  |
| Naval Stores |  |  |  |  |  |  |  |  |  |  |  |  |
| Turpentine (gum): |  |  |  |  |  |  |  |  |  |  |  |  |
| Net receipts, southern ports - .-...-barrels.- | 47,809 | 45,775 | 39, 115 | 35,795 | 28,154 | 7,764 | 7,386 | $-72.4$ | +5.1 | 303,347 | 406, 514 | +34.0 |
| Stocks at 3 ports, end of month_..-barrels.- | 58, 915 | 73,019 | 80, 473 | 77,676 | 81,939 | 72,035 | 48,993 | -12.1 | +47.0 |  |  |  |
| Price, southern, in barrels, <br> New York....................dolls. per gal. | . 59 | . 55 | . 53 | . 51 | . 54 | . 60 | . 83 | +11.1 | -27.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 158,514 | 151,045 229,426 | 132,059 | 144, 882 | 115,397 | 41,160 | 39, 136 | -64.3 | +5.2 | 1,097, 111 | 1,406,414 | $+28.2$ |
| Stocks at 3 ports, end of month...- barrels.Price, common to good (B), | 198, 883 | 229, 426 | 222, 167 | 247,954 | 248,755 | 200, 262 | 160, 120 | -19.5 | +25.1 |  |  |  |
| New York .-.......-.......dolls, per bbl.. | 10.62 | 10.08 | 9.24 | 8.55 | 8.70 | 9.54 | 12.38 | +9.7 | $-22.9$ |  |  |  |
| Rosin (Wood):Production |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, end of month....-...........-. barrels.-- | 71,982 | 76, 327 | 82, 717 | 87, 179 | 85,553 | 85,413 | 33, 513 | $+{ }_{-}^{+2}$ | +154.9 | 326, 501 | 414,858 | $+2.0$ |
| Turpentine (wood): |  |  |  |  |  |  |  |  |  |  |  |  |
| Production. $\qquad$ barrels. <br> Stocks, end of month barrels | 6,347 8,256 | $\begin{array}{r} 6,562 \\ 10.232 \end{array}$ | 6,901 12,163 | 6,820 13,385 | 5,291 12,869 | 5,771 10,631 | 7,053 5,531 | +9.1 -17.4 | -18.2 -80.8 | 62, 654 | 79,78 | $+2 \overline{1.3}$ |
| Pine oil: ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  | -80.8 |  |  |  |
| Production...-...................-. -gallons.- | 242, 050 | 244, 445 | 237, 625 | 235, 695 | 192, 141 | 193,646 | 241, 563 | +3.4 | -17.8 | 2, 341, 995 | 2, 782, 356 | +15.6 |
| Stocks, end of month ------.---.-. gallons.- | 524, 246 | 555, 818 | 588, 778 | 561,363 | 588, 571 | 605, 771 | 305, 151 | +2.9 | +98.5 |  |  |  |
| Reit Roofing |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 27, 441 | 27,902 | 27, 512 | 25,680 | 25, 853 | 21, 743 | 19,266 | $-15.9$ | +12.9 | 276, 362 | 303, 311 | +9.8 |
| Stocks, end of month, dry felt........tons..- | 3,166 | 2,907 | 3,748 | 3,810 | 3,118 | 3,088 | 3,628 | -. 9 | -14.9 |  |  |  |
| Prepared roofing: <br> Shipments $\qquad$ thous. of roof squares.. | 2,992 | 3, 287 | 3,218 | 3,280 | 3,380 | 1,587 | 1,405. | -53.1 | +13.0 | 32, 040 | 33,993 | $+6.1$ |

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  |  |  | 1928 | 1927 | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DECREASE }(-) \end{aligned}$ |  | CUMULATIVE TOTAL FROM JANUARY 1 tHROUGH DECEMBER 31 |  | Per ct.in-crease( + )or de-crease$(-)$cumu-lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | $\underset{\substack{\text { Septer } \\ \text { ber }}}{\text { Ser }}$ | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{gathered} \text { Decem- } \\ \text { ber } \end{gathered}$ | January | January | Jan. 1928, from Dec., 1927 | $\begin{aligned} & \text { Jan., } \\ & \text { 1928, } \\ & \text { from, } \\ & \text { Jan., } \\ & \text { 1927 } \end{aligned}$ | 1926 | 1927 |  |
| CHEMICALS AND OILS-Continued Fats and Oils |  |  |  |  |  |  |  |  |  |  |  |  |
| Total vegetable oils and copra: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1,767 | 2,086 | 5,307 55,387 | 6,484 | 8,481 | 9,405 | 6, 967 | +10.9 | +36.4 | 43, 720 | 70,713 | $+61.7$ |
| Imports...-----..............thous. of lbs.- | 50, 092 | 55, 985 | 55,387 | 68, 589 | 60, 010 | 59, 870 | 51, 953 | $-2$ | +15.2 | 669,782 288 | 704,365 20519 | +5.2 |
| Copra, imports. $\qquad$ short tons.Copra or coconut oil: | 19,311 | 21,694 | 15,660 | 23,422 | 29, 582 | 26, 872 | 19,681 | -9.2 | $+36.5$ | 228, 799 | 225, 519 | -1.4 |
| Imports...-.-........-.........thous. of lbs-. | 21,409 | 25,936 | 22,702 | 30,095 | 29,339 | 32,751 | 31,588 | +11.6 | +3.7 | 245, 130 | 294, 369 | +20.1 |
| Consamption in oleomargarine $\qquad$ thous. of Ibs.. | 8,840 | 10,436 | 12, 286 | 12,373 | 13,549 | 13, 191 | 9,837 | -2.6 | +34.1 | 97,640 | 121, 594 | +24.5 |
| Oleomargarine: |  |  |  |  |  |  |  |  |  |  |  |  |
| Production....-.-...........- thous. of lbs..- Consumption. | 20,672 | 23,495 | 26,041 | 25,913 | 27,461 | 26,205 | 22, 748 | -4.6 | +15.2 | 243, 511 | 276,504 | $+13.5$ |
| Consumption-...-.-.-.-.-.--thous. of libs.-- | 19,387 | 23,981 | 26, 823 | 26, 256 | 26,717 | 27, 729 | 21, 859 | +3.8 | +26.9 | 242,710 | 274,577 | +13.1 -6.2 |
| Animal ghes, shipments..........thous. of lbs.. Cottonseed | 6,076 | 6,075 | 7,113 | 6,061 | 6,100 |  | 6,731 |  |  | 80,090 | 75, 140 | -6.2 |
| Cottonseed: Cotorseed |  |  |  |  |  |  |  |  |  |  |  |  |
| Reccipts at mills...-.............-short tons-- | 290, 422 | 1, 007, 261 | 1,282,625 | 848, 706 | 483, 281 | 339, 212 | 581, 856 | -29.8 | $-41.7$ | 5, 842, 105 | 5,595,930 | -4.2 |
| Stocks at mills, end of month.-short tons.- | 161,423 | -581, 090 | 1,876,630 | 1, 782, 681 | 605, 206 | 570, 408 | 849,721 | $-5.7$ | -32.9 | 5,945, 675 | 5, 899, 751 | -. 8 |
| Cottonseed oil, crude: | 217, 894 | 644, 954 | 1, 050, 949 | 1, 113, 974 | 992, 049 | 763, 353 | 1,035, 766 | -23.1 | -26.3 |  |  |  |
| Production---...-.-.-.-.-. -thous, of libs-- | 46, 212 | 178,018 | 272, 547 | 247, 523 | 192,057 | 181,022 | 250,368 | $-5.7$ | $-27.7$ | 1,764, 288 | 1,806,450 | +2.4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production-1.....-.-......thous. of libs.- | 32, 210 | 100, 849 | 194,676 | 205, 888 | 176,051 | 143, 378 | 205,929 | -18.6 | $-30.4$ | 1,476,947 | 1,592, 597 | $+7.8$ |
|  | 274, 711 | 225, 782 | 310,330 | 415,833 | 502, 901 | 538,257 | 395, 022 | +7.0 | +36.3 | 1, | 1, 502, |  |
|  | . 100 | . 107 | . 109 | . 106 | . 100 | . 101 | . 085 | +1.0 | +18.8 |  |  |  |
| Consumption in oleornargarine $\qquad$ .- thous. of lbs. |  | 3 |  |  |  |  |  |  |  |  |  | $+5.0$ |
|  |  |  |  | 2, 260 | 2,154 | 2,162 | 2,013 | +0.4 | +7.4 | 23,448 | 24,621 |  |
|  | 72, 659 | 258, 685 | 391,037 | 344, 591 | 268,757 | 259, 275 | 377,425 | $-3.5$ | -31.3 | 2, 719, 433 | 2,647, 543 | -2.6 |
| Exports.............-.-.-.....-.-.-short tons.- | 45, 116 | 109,591 | 186,997 58,834 | 205,008 63,790 | 190, 354 | 177, 118 | 147,144 | -7.0 | ${ }_{+}^{+20.4}$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts .-...................thous. of bushs.- | 496 | 1,102 | 2,008 | 3,241 | 2, 035 | 576 | 540 | -71.7 | $+6.7$ | 8,018 | 11, 726 | +172.1 |
|  | 589 | 1,583 | 5,246 | 4,671 | 3,997 | 3,312 | 2,372 | -17.1 | +39.6 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shipmonts from Minneapolis_thous. of lbs.- Price, New York------ dolls. per lb. | . 107 | . 104 | . 039 | . 099 | . 096 | . 098 | . 105 | +2.1 | -6.7 |  |  |  |
| Linseed cake and meal: |  |  |  | 34, 857 | 22,581 | 27,05 |  | +19.8 | +30.8 | 200,897 | 203, 257 | . 2 |
| Exports $\qquad$ thous. of lbs thous. of lbs. | 58,947 | 52,984 | 48,625 | 58, 522 | 53, 999 | 44,367 | 61, 103 | -17.8 | $-27.4$ | 589, 784 | 663, 299 | +12.5 |
| FOODSTUFFS |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |  |  |
|           <br> Visible supply, end of month:          <br> United States............thous. of bushs_- 67,273 84,630 94,607 96,468 90,506 82,368 59,731 -9.0 +37.9 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada-------------- thous. of bushs.- | 28, 264 | 22, 958 | 62, 492 | 121, 009 | 147, 506 | 152,560 | 116, 613 | $+3.4$ | +30.8 |  |  |  |
| Stocks, millers', end of quarter thous. of bushs |  | 115,728 |  |  | 115, 637 |  | - 116,413 | -1. 1 | - 7 |  |  |  |
| Receipts, principal markets.-.thous. of bushs.- | 81, 632 | 79, 740 | 73,244 | 44, 823 | 26, 522 | 23,542 | 24,595 | -11.2 | $-4.3$ | 390, 231 | 481,256 | $+23.3$ |
| Shipments, principal markets_thous. of bushs.- | 46, 583 | 50,374 | 49,252 | 35,156 | 19, 440 | 14, 284 | 13,757 | -26.5 | +3.8 | 232, 661 | 314, 495 | +35.2 |
| Exports: $\begin{aligned} & \text { United States- }\end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat only ....-....- thous. of bushs.. |  | 33.748 | 29, 236 | 20, 731 | 6,917 | 5,956 | 8.078 | -13.9 | -26.3 | 138, 042 | 168, 164 |  |
| Including wheat dour thous. of bushs.- | 28, 137 | 39, 509 | 36,045 | 26,696 | 11,986 | 11,560 | 12,619 | -3.6 | $-8.4$ | 191, 676 | 225,824 | +17.8 |
| Canada- |  |  |  |  |  |  |  |  |  |  |  |  |
| Wheat only -------thous. of bushs.-- | 12,197 | 14, 071 | 19,430 | 52, 505 | 44, 809 | 15, 201 | 12,571 | -66.1 | $+20.9$ | 250, 117 | 205, 063 | +2.0 |
| ices: Including wheat flour_thous. of bushs.- | 14,510 | 17,118 | 23,475 | 57,976 | 49, 114 | 18,647 | 16, 054 | -62.0 | +16.2 | 297, 181 | 296, 741 | 1 |
| No. 2, red winter, Chicago.dolls. per bush.. | 1.40 | 1.32 | 1.34 | 1.35 | 1.38 | 1.43 | 1.37 | +3.6 | +4.4 |  |  |  |
| No. 1, northern spring, cash Minneapolis........dolls. per bush.. | 1.427 | 1.323 | 1. 275 | 1. 264 | 12.75 | 12.03 | 1.413 | +1.4 | -8. 5 |  |  |  |
| Wheat Flour |  |  |  |  |  |  |  |  |  |  |  |  |
| Grindings of wheat: <br> United States (census) .-.- thous. of bushs.. <br> Canada. $\qquad$ thous. of bushs.. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 44,099 | 48, 131 | 49,792 | 44,882 | 4 42,604 | 42,028 | 39, 354 | -1.4 | +6.8 | 494, 286 | 501, 130 | $+1.4$ |
|  | 5,276 | 6,925 | 9,138 | 9, 656 | 8,115 |  | 6,819 |  |  | 85, 317 | 80,788 | $-5.3$ |
| Production: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| (Russell) -...-..--.---.-.- thous. of bbls-- | 10,458 | 11, 816 | 12,540 | 11,337 | 10,877 |  | 9,676 |  |  | 127, 236 | 123,812 | -2.7 |
| Canada.....................thous. of bbls.- | 1,158 | 1, 528 | 2,005 | 2,120 | 1,767 |  | 1,496 |  |  | 18,965 | 17,702 | -6.7 |
| Production, grain offal.........- theus. of liss-- | 761, 488 | 833, 108 | 866, 428 | 782,841 | ${ }^{4} 745,242$ | 736,907 55 | 678, 292 | $\underline{-1.1}$ | +9.0 | 8,680, 610 | 8, 666,451 | -. 2 |
| Capaeity operated, flour mills.......per cent.- Consumption (computed) |  |  | ${ }_{11}{ }^{63}$ |  |  |  | $\begin{array}{r}53 \\ \hline 867\end{array}$ | +3.8 | +3.8 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Stocks, all positions, end of month (computed) $\qquad$ thous. of bbls.- | 7,300 | 8,490 | 7,900 | 6,800 | 6,100 |  | 7,500 |  |  |  |  |  |
| Exports: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States...--.......-- - thous. of bbls.- | 1,052 | 1,280 | 1,513 | 1,326 | 1,126 | 1,245 | 1,009 | +10.6 | +23.4 | 11,930 | 12, 813 | $+7.4$ |
| Wholesale prices: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Winter straights, Kansas City ...............-dolls. per bbl.. | 6.77 | 6.64 | 6.54 | 6. 58 | 6.56 | 6. 70 | 6.55 | +2.1 | +2.3 |  |  |  |

TREND OF BUSINESS MOVEMENTS--Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1998, "Survey" | August | Septern- | 1927 | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | 1928 | 1227 | $\begin{gathered} \text { PER CENT in- } \\ \text { crease }(+) \text { or } \\ \text { Derrease }(-) \end{gathered}$ |  | cumulative total FROM JANUARY 1 through decemBER 31 |  | $\begin{aligned} & \text { Per ct. } \\ & \text { in- } \\ & \text { crease } \\ & \text { (+) } \\ & \text { or de- } \\ & \text { crease } \\ & \text { ( }- \text { ) } \\ & \text { cumu- } \\ & \text { lative } \\ & 192 \% \\ & \text { from } \\ & 1920 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Corn |  |  |  |  |  |  |  |  |  |  |  |  |
| Exports, including meal...... thous of bushs ... |  | 475 | 571 | 538 | 861 | 1,205 | 1,661 | 2,017 | $+37.7$ | -17.6 | 25,217 | 14,944 | -40.5 |
| Visible supply, end month....thous. of bushs.. | 23, 805 | 25,110 | 21,847 | 20,439 | 28,390 | 30,078 | 40,616 | +5.9 | -25. 9 |  |  |  |
| Receipts, principal markets..-thous. of bushs -- | 16, 758 | 22, 116 | 18,448 | 16, 971 | 37,088 | 36, 001 | 27,638 | -2.9 | +30.3 | 237,977 | 247,412 | $\bigcirc 40$ |
| Shipments, prin markets ....-thous of bushs..- | 11.762 | 12, 257 | 9,665 | 10, 256 | 16,064. | 19,551 | 10,638 | +21.7 | +83. 8 | 121,783 | 137,093 | $\dagger 12.6$ |
| Grindings (starch, glucose)....thous of bushs-- | 7,304 | 7, 561 | 8,613 | 8,064 | 6,301 | 8,330 | 6,095 | +32.2 | +36.7 | 76,095 | 53, 290 | $\div 9.3$ |
| Prices, contract grades, No. 2, <br> Chicago. $\qquad$ dolls. per bush.- | 1.09 | . 09 | . 88 | 87 | $87^{\text {! }}$ | 89 | . $\%$ | +2.3 | $+15.6$ |  |  |  |
| Oats |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, principal markets --thous. of busis -- | 21, 413 | 17, 223 | 13,914 | 11,961 | 10,733 | 10, 495 | 14,377 | -2.2 | $-27.0$ | 162, 1:0 | 118.85 | -8.3 |
| Exports, including meal......-thous. of bushs... | 22,501 1,795 | 26,430 1,038 | 25, 189 | 24,429 672 | 22,982 | 21,519 838 | 40, 614 | -6.4 | -54.1 +36.5 | 18,734 | 1?.65 | $-27.8$ |
| Prices, contract grades, dills. per bush. |  |  | 50 | 5 | 55 | 56 | 50 | 8 | +120 |  |  |  |
| Grindings, Canada......-.-.-.-thous. of bushs.. | 791 | 1, i07 | 1,027 | 1.110 | 1,202 |  | 791 |  | +12.0 | 10, $717^{\circ}$ | 10.290 |  |
| Production, oatmeal and rolled oats, Canada-.......................thous. cf Ibs.. | 9,785 | 13,357 | 11,650 | 13,585 | 14,734 |  | 8,890 |  |  | 140,590 | 121,30 | -13.7 |
| Barley |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, principal markets...thous of bushs.- | 11, 108 | 15,547 | 10, 908 | 7,654 | 4. 199 | fi, 401 | 2,063 | + 52.4 | $+140.4$ | 41,978 | 8, 5 | $\because 56.0$ |
| Visible supply, end mo.......thous. of bushs... | 3,532 | 4,900 | 4,398 | 4,338 | 2,707 | 2,359 | 4, 180 | -12.9 | -43.6 |  |  |  |
| Exports.----------------- thous. of bushs.- | 4,065 | 6,637 | 6,927 | , 490 | 3,425 | 1,701 | 1,006 | $-51.7$ | +69.1 | 13, 566 | 3 3 32 | -179.8 |
| Price, fair to good, malting, Chicago-...........................dolls. per bush.. | . 80 | 83 | . 82 | 84 | . 88 | . 93 | 74 | +5.7 | $+25.7$ |  |  |  |
| Rye |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts, principal markets..-thous. of bushs.- | 4, 293 | 10,512 | 7,496 | 4, 619 | 2,386 | 1,477 | 1,281 | -38. 1 | +15.3 | 20,605 | 4, 1.51 | +102. 6 |
| Visible supply, end mo.......thous. of bushs_- | 3,083 | 2,207 | 1,595 | 2,412 | 3,276 | 3, 656 | 12,591 | $+11.6$ | -71.0 |  |  |  |
| Exports, including flour.......thous of bushs.- | 1,325 | 7,743 .97 | 6,425 1.00 | 2,889 | 1,309 1.09 | ${ }_{1}^{519}$ | 804 | $-60.4$ | -35. 4 | 12,035 | 32,13 | 230.6 |
| Price, No. 2, Chicago...........dolls. per bush.- <br> Total Grains | . 97 | . 97 | 1.00 | 1.06 | 1.09 | 1.09 | 1.02 | 0 | +6.9 |  |  |  |
| Total grain exports, incl. flour.. thous. of bushs.- | 35,796 | 55, 498 | 50, 820 | 37,608 | 18,650 | 16, 279 | 17,060 | $-12.7$ | -4.0 | 261,223 | 822, 40 | $\div 25.7$ |
| Rice |  |  |  |  |  |  |  |  |  |  |  |  |
| Southern paddy, receipts at mills.........bbls.. | 782, 345 | 1, 167, 281 | 1,719, 740 | 1,266, 278 | 831,033 | 853, 581 | 817,939 | +2.7 | +4.4 | 7,568,035 | 9, 208, 835 | $+21.7$ |
| Shipments: <br> Total from mills. $\qquad$ pockets ( 100 lbs .) - | 423, 559 | 849,908 | 1, 200, 174 | 1,162, 603 | 1,006,759 | 1,118,120 | 1, 120, 252 | +11. 1 | -. 2 | 7,628,436 | 9,634, 168 | $\bigcirc$ |
| New Orleans.-........-pockets ( 100 lbs .)-- | 109,951 | 193, 155 | 239,453 | '232, 725 | 234, 740 | 158,323 | 249,175 | $-32.6$ | $-36.5$ | 1,924,998 | 2,101,510 | -9.2 |
| Stocks, end of month........pockets ( 100 lbs .) -- 1 | 1, 235,674 | 1, 581,097 | 2,247,038 | 2, 409, 940 | 2,290,857 | 2, 106,310 | 2,095, 911 | -8. 1 | +0.5 |  |  |  |
| Exports...--------.-.-.-- pockets (100 lbs.).- | 109,092 | 134,032 | 203, 350 | 160, 871 | 267, 294 | 469, 435 | 368,895 | +76.9 +36 | $\underline{+27.3}$ | 1, 174,923 | 3, 197, 5337 | +172.2 -55. |
|  | 19,503 | 27, 217 | 21,888 | 22,808 | 54, 223 | 52,744 | 56, 818 | $-3.6$ | -7.2 | 1,168, 974 | 322.071 | $-55.3$ |
| Other Crops |  |  |  |  |  |  |  |  |  |  |  |  |
| Apples: |  |  |  |  |  |  |  |  |  |  |  |  |
| Cold-storage holdings, end of month $\qquad$ thous. of bbls.- |  | 1,038 |  | 7,831 |  |  |  |  |  |  |  |  |
| Car-lot shipment....-.-.-.-.-.-.--carloads.-- | 3,352 | 11,039 | 31,612 | 16,607 | 5,881 | 6,305 | 7,827 | -9.8 | -32.2 | 124,561 | 98, 505 | $-20.9$ |
| Potatoes, car-lot shipments .-. .-...--carloads-. ${ }^{\text {Onions }}$ (ar-lot shipments | 17,418 | 23, 674 | 37, 410 | 20, 318 | 13,206 | 19,665 | 17, 408 | +48.9 | $+13.0$ | 226,740 | 244,151 | ${ }^{+}+8.6$ |
| Onions, (ar-lot shipments.-........-.carloads-- | 2, 313 | 4,473 | ${ }_{5}^{5,754}$ | 2, 924 | 2,234 | ${ }_{9}^{3,114}$ | 2,797 | ${ }_{-25.3}^{+39.4}$ | +11.3 | 32, 221 | -32, 368 | $\underline{+}+5$ |
| Citrus fr uit, car-lot shipments........carloads.- | 4,492 51,652 | 64, 640 | 5, 69 693 | \% 5 7,487 161 | 12,183 51,806 | 9,057 63,009 | 78,088 | +21.6 | -19.3 | 796, 457 | 6966 cos | -12.6 |
| Cattle and Beef |  |  |  |  |  |  |  |  |  |  |  |  |
| Cattle movements, primary markets: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2,065 | 1,988 | 2,635 | 2,346 | 1,691 | 1,771 | 1,832 : | +4.7 | -3. 3 | 23, 872 | 22, | -4. 6 |
| Shipments, total.....--...-.-. - thousands -- | 802 | 906 | 1,259 | 1,156 | 729 | 660 | 657 | -9.5 | $+{ }^{+}$ | 9, 405 | 9. 172 | -2.5 |
| Shipments, stocker and feeder--thousands-- | 269 | 407 | 675 | 615 | 319 | 234 | 205 | $-6.6$ | +14.1 | 3,710 | 3.613 | -2.6 |
|  | 1,231 | 1,085 | 1,291 | 1, 240 | 980 | 1,080 | 1,136 | +10.2 | -4.9 | 14,349 | 13, 459 | 6. 2 |
| Peer Production, inspected.........thous. of lbs.. | 465,597 | 453,993 | 475, 455 | 459,364 | 403, 660 | 387, 750 | ${ }^{1} 443,918$ | -3.9 | -12.7 | 5,756,513 | 5, 27, 22\% |  |
| Apparent consumption.-.-...- thous. of lis- | 470, 490 | 455, 239 | 474, 078 | 443,800 | ${ }^{4} 394,808$ | 394, 936 | ${ }^{4} 448,614$ | -1. | $-12.0$ | 5,735, 880 | 5,324, 233 | $-\mathrm{-} .2$ |
| Exports-.................. thous. of lbs -- | 1,899 | 1,609 | 1, 165 | 1,085 | 1,097 | 97.1 | 1,975: | $-11.2$ | $-50.7$ | 24, 777 | 19,358 | -21.9 |
| Cold-storage holdings, end of month............thous. of lbs... | 33,446 | 35,878 | 43, 916 | 65, 345 | ¢ 76,947 | 70,660 | 95, 254 | -8.2 | -25. 8 |  |  |  |
| Prices: |  |  |  |  |  |  |  |  |  |  |  |  |
| Cattle, corn-ied, Chicago_dolls. per $100 \mathrm{lbs} .-$ | 12.58 | 13.31 | 14.33 | 15.94 | 15. 50 | 15.80 | 10.30 | $+1.9$ | +53.4 |  |  |  |
|  | . 203 | 199 | . 190 | 190 | . 196 | . 220 | . 145 | +12.2 | +51.7 |  |  |  |
| Western dressed native steers, <br> New York.....................dolls, per lb.- | . 200 | . 213 | . 225 | . 234 | . 238 | . 230 | . 178 | -3.4 | +29.2 |  |  |  |
| Hogs and Pork |  |  |  |  |  |  |  |  |  |  |  |  |
| Hog movements, primary markets: |  |  |  |  |  |  |  |  |  |  |  |  |
| Receipts....-.-...............- thousands.- | 3,041 | 2,565 | 3,039 | 3,666 | 4,209 | 5,306 | 4,252 | +23.1 | +24.8 | 30,72 | 41, 119 | T. 4 |
| Shipments, total..................thousands.. | 1,192 | 1,051 | 1,137 | $1,284$ | 1,485 | $1,849$ | 1,527 | $+24.5$ | +21.1 | 15, 172 | $15,04$ |  |
| Shipments, stocker and feeder..thousands.. <br> Local slaurhter <br> thousands | 1,38 1,846 | - 4.512 | 1,78 | ${ }_{2} 1138$ | 2, 745 | 77 3,443 | 99 2694 | -18.9 +25.4 | -22.2 +27.8 | 24, ${ }^{917} 9$ | 23, 92 | -5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production, inspected.......- thous. of lbs.- | 580,606 | 458, 919 | 497, 128 | 596, 812 | 793,789 | 935, 467 | 783,758 | +17.8 | $+19.4$ | 7,272, 334 | $7.30,76$ | $-6.3$ |
| Apparent consumption.......thous. of libs.- | 595, 110 | 576,349 | 615, 065 | 603, 579 | 4 594, 140 | 676, 373 | 564, 328 | +13.8 | +19.9 | (6, 153, 883 | 6, 705,415 | -9.0 |
|  | 72,958 | 89, | 72, 251 | 67, 764 | 87,955 | 98,794 | 85, 134 | +12.3 | +16. 0 | 1,119,757 | 464, 34 | $-12.1$ |
| end of month...............- thous. of lbs. | 933,436 | 726, 941 | 539, 240 | 465,976 | + 578, 280 | 738,938 | 658,647 | $+27.8$ | +12.2 |  |  |  |
| Fresh and cured in storage, end of month.................thous. of los.. | $766,418$ | 608, 767 | 467,119 | 419,822 | -523,425 | 655, 158 | 589,071 | $+25.2$ | $+11.2$ |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  |  |  | 1988 | 1927 | per Centincrease ( + ) or decrease ( - ) |  | cumulative total from jandary through decemBER 31 |  | Per ct.in-crease( + )or de-crease( -9cumu-lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | Septem- ber | October | Novem- ber | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | Jamuary | January | Jan., 1928, from Dec., 1927 | Jan., 1928, Jan., 1927 | 1926 | 1927 |  |
| TRANSPORTATION <br> River and Canal Cargo Traffe |  |  |  |  |  |  |  |  |  |  |  |  |
| Panama Canal: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cargo traffic......thous. of long tons In American vessels... thous. of long tons.- | 2,430 1,390 | 2,398 1,257 | 2,718 1,396 | 2,489 1,113 | 2,574 1,099 | 2,372 1,019 | $\stackrel{2,242}{1,216}$ | -7.8 -7.3 | +5.8 -16.2 | 27,588 14,854 | 29,104 | +5.5 +3.3 |
| In British vessels....-.thous. of long tons.- | 1,514 | 1,594 | ${ }^{1} 714$ | 1,743 | 1,763 | ${ }^{1} 698$ | ${ }^{1} 278$ | -8.5 | -46.0 | 6,631 | 15,183 6,983 | +5.3 +5.3 |
| Sault Ste. Marie canals ...-.thous. of short tons.. | 11, 721 | 10,791 | 11,231 | 6,898 | 1,169 | None. | None. | -100.0 | 0 | 87,676 | 83, 355 | -4.9 |
| New York State canals..- thous. of short tons.- | 390 | 357 | 381 | 327 | None. | None. | None. |  |  | 2,370 | 2,582 | +8.9 |
| Cape Cod Canal.......-....-.-short tons-- | 58,685 | 67, 873 | 89,030 | 101, 208 | 98,429 | 73,097 | 50, 378 | -25.7 | +45.1 | 781,322 25,409 | 824,172 | +5.5 +16.5 |
| Suez Canal.....-........thous. of metric to...-short Wens. | 1, $\begin{array}{r}2,477 \\ \hline 1\end{array}$ | 2,389 $1,090,647$ | r $\begin{array}{r}\text { 2, } \\ 1,102 \\ \hline 1027\end{array}$ | 2,546 853,845 | 2,504 53,883 | None. | 2, 305 None. | -100.0 | ${ }_{0}$ | 25,409 $5,214,514$ | 29,598 $6,570,459$ | +16.5 +26.0 |
| St. Lawrence Canal..................-s.-short tons-- | $1,128,517$ | 11, 178,199 | 1, 198, 952 | 908, 199 | 53, 793 | None. | None. | $-100.0$ | 0 | 6, 123, 701 | 7,909,952 | +29.2 |
| Mississippi River, Govt. barges...-.-short tons.-- | 122, 300 | 89,396 | 104, 923 | 4 114, 541 | ${ }^{1} 114,063$ | 103,000 | 89,610 |  |  | 1,044,649 | 1,336,632 | +28.0 |
| Ohio River, Pittsburgh, Pa., to Wheeling W. Va short tous | 1,007,373 | 988, 412 | 894, 038 | 823, 010 | 685, 546 | 517,488 | 621, 496 | -24.5 | -16.7 | 9, 321,761 | 9,622, 134 | +3.2 |
|  | 1, 333, 279 | 421,985 | 444, 358 | 338, 975 | 176, 540 | 81, 885 | 89, 242 | $-53.8$ | -8.6 | 2, 509, 202 | 2,955,695 | +17.8 |
| Monongabela River...-...-.......--- -- short tons.. | 2, 132, 449 | 2,181, 251 | 2,132, 076 | 2, 020, 004 | 1,965,934 | 2, 327, 246 | 1,935, 879 | +18.4 | +20.2 | 24, 469, 315 | 24, 492, 96 ¢ | -. 1 |
| Ocean Traffie |  |  |  |  |  |  |  |  |  |  |  |  |
| Clearances, vessels in foreign trade: |  |  |  |  |  |  |  |  |  |  |  |  |
| Total.-.-----------.-.- thous. of net tons.- | ¢ 7, 550 | '7,232 | 6,974 | \& 6,957 | 5,296 | 5,163 | 5,153 | -2.5 | +.2 | 79, 043 | 75,440 | -4.6 |
| American...................thous. of net tons <br> Foreign $\qquad$ thous. of net tons.- | 42,916 4 4,634 | 2, 712 4,520 | 2,939 4,035 | $4,3,261$ 3,697 | 2,057 3,239 | 1,865 3,298 | 1,818 3,335 | -9.3 +1.8 | +2.6 -1.1 | 28,532 50,510 | 29,794 45,647 | +9.4 -9.6 |
| Shipbuilding |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 21, 145 | 23, 303 | 3,364 | 22, 554 | 30, 742 | 2,888 | 1,208 | $-90.6$ | +139.1 | 162,882 | 277,302 | +70.2 |
| Building or under contract, end of month: 210 216 241 104 204 |  |  |  |  |  |  |  |  |  |  |  |  |
| World construction (quarterly): |  |  |  |  |  |  | 196 |  |  |  |  |  |
| Ships launched..-----------... number-- |  | 190 |  |  | 224 4836 |  | 196 578 | +17.9 +56.3 | +14.0 +44.6 | $\begin{array}{r}558 \\ 1,634 \\ \hline\end{array}$ | 728 2,238 | +30.5 +37.0 |
|  |  | ${ }_{663} 63$ |  |  | 4836 693 |  | 578 671 | +56.3 +4.5 | +44.6 +3.4 | 1,634 | 2, 2372 | +37.0 +34.3 |
| Tonnage....................-.thous. of tons.-- |  | 3,074 |  |  | 3,119 |  | 2,841 | +1.5 | +9.8 | 7,765 | 11, 604 | +49.4 |
| Freight Cars |  |  |  |  |  |  |  |  |  |  |  |  |
| Surplus (daily ar. last week of month):          <br> $\begin{array}{c}\text { Total.........................cars_ }\end{array}$ 214,985 135,059 168,829 352,168 464,005 403,792 259,548 -12.0 +55.6 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 123,901 | 74, 126 | 82, 411 | 158, 304 | 224, 247 | 182,001 | 148,742 | -18.9 | +22.4 |  |  |  |
| Chortage (daily av last week of month): | 53, 204 | 34,805 | 61, 455 | 148, 860 | 183, 638 | 169,463 | 62, 588 | -7.7 | +170.8 |  |  |  |
| Total.................................cars..- | 151 | 371 | 302 | None. | 25 | Shortage (daily av. last week of month): |  |  |  |  |  |  |
| Bor..........-..............................ears.. | None, | None. | None. | None. | None. |  | 2 |  | +50.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grain and grain products...............-cars.- | 219,898 | -238,699 | -273, 675 | 182,059 | -210,482 | 187, 197 | 1178,958 | -14.7 | +5.6 | 2, 364,361 | 2,384,080 | +2.7 +.9 |
|  | 112,323 | 123, 354 | 193, 753 | 134, 598 | 144,519 | 127, 658 | ${ }^{4} 129,321$ | -11.7 | -1.3 | 1,596,184 | 1,547,158 | -3.1 |
|  | 735,389 | 760, 522 | 1,004, 056 | 713, 254 | 869, 877 | 752, 752 | 1939,677 | -13.5 | -19.9 | 10, 615, 1.78 | 9, 787, 968 | -7.7 |
|  | 275, 251 | 270, 322 | 336, 527 | 244, 210 | 259, 598 | 233, 368 | ${ }^{4} 257,374$ | -10.1 | -9.3 | 3, 654,399 | 3, 420, 182 | -6.4 |
|  | 248, 462 | 225, 581 | 243, 550 | 76, 267 | 40, 682 | 31,737 | - 37, 845 | -22.0 | -16.1 | 2, 179, 141 | 1,881, 617 | -3.7 |
|  | 1, 042, 893 | 1,039, 460 | 1,348, 614 | 1, 015, 551 | 1, 177, 774 | 927, 299 | ${ }^{4} 965,485$ | -21.3 | -4.0 | 13, 310,782 | 13,308,737 | $-.1$ |
|  | 1, 615,143 | 1, 702, 084 | 2, 187, 746 | 1, 456,681 | 1,460, 673 | 1, 187, 712 | $41,247,970$ | +18.7 | -4.8 | 19, 379, 774 | 19,356, 819 | $-1$ |
| Railroad Operations |  |  |  |  |  |  |  |  |  |  |  |  |
| Operating revenue: |  |  |  |  |  |  |  |  |  |  |  |  |
| Passenger------------------- -- thous. of dolls.. | 91, 691 | 86, 293 | 75, 201 | 70, 885 | 81, 990 |  | 85,975 |  |  | 1,043, 911 | 4,976,336 | $-6.5$ |
| Total operating --.-.-.-.-.- thous. of dolls... | 557, 436 | 565, 091 | 580, 498 | 503, 820 | 467,598 |  | 487,004 |  |  | 6, 463,433 | 6, 204, 903 | -4.0 |
| Operating expenses......-.-.---- thous. of dolls.- | 393, 294 | 386, 388 | 399, 504 | 376, 876 | 377,800 |  | 387,489 |  |  | 4, 727, 278 | 4, 625,444 | -2.2 |
| Net operating income..--.-.-- thous. of dolls.- | 118,226 | 132, 770 | 133, 776 | 86,424 | 55, 334 |  | 61, 579 |  |  | 1, 232, 373 | 1, 084, 140 | -12.0 |
| Freight carried .-..-.............-mills. ton-miles..- | 41, 973 | 42,954 | 45, 552 | 37, 228 | 34, 580 |  | 39,223 |  |  | 488, 704 | 474, 654 | -2.9 |
| Railway Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Locomotives (Am. Ry. Assn.): Owned, end of month- |  |  |  |  |  |  |  |  |  |  |  |  |
| Quantity .-.....-.....-.-.-.-number.- | 61, 540 | 61, 455 | 61,305 | 61,088 | -60,784 | 60,679 | 62,387 | -0.2 | -2.7 |  |  |  |
| Tractive power $\qquad$ mills. of lbs.- <br> In bad order end of month- | 2, 603 | 2,605 | 2,606 | 2,602 | 42,595 | 2,596 | 2,611 | +0.1 | -0.6 |  |  |  |
| Quantity .......................... | 8,502 | 8,345 | 8,778 | 8,961 | 8,257 | 8,733 | 9,256 | +5.8 | $-5.7$ |  |  |  |
| Per cent of total in use ........per cent.- | 13.9 | 13.6 | 14.4 | 14.8 | 13.6 | 14.5 | 14.9 | +6.6 | $-2.7$ |  |  |  |
| Installed...-------------.-...- | 104 | 177 | 195 | 149 | ${ }^{135}$ | 154 | 145 | +14.1 | +6. 2 | 2,399 | 1,955 | -18. 5 |
| Retired -...-.....-------------- | 329 | 262 | 345 | 366 | 378 | 259 | 210 | ${ }_{-08}^{+31.5}$ | +23.3 +93 | 3,574 | 3,572 | $-4.1$ |
| New orders --......-...........-number-- | 20 | 6 | 8 | 17 | 149 | 2 | 26 | -98. 7 | -92.3 | 1,195 | 656 | -45.1 |
|  | 81 | 127 | 112 | 52 | 72 | 47 | 57 | $-34.7$ | -17.5 | 1,755 | 1,074 | -38.8 |
|  | 71 | 86 | 81 | 31 | 41 | 22 | 16 | -46.3 | +37.5 +1875 | 1,352 | 726 | -45.3 |
| Electric, domestic..........number.- Unfilled orders (railroads), end of mo.- | 6 | 7 | 12 | 7 | 13 | 23 | 8 | +76.9 | +187.5 | 177 | 148 | $-16.4$ |
| Unfilled orders (railroads), end of mo.From manufacturers.-.----- . - number_ | 171 | 102 | 53 | 51 | 80 | 151 | 262 | +88.7 | -42.4 |  |  |  |
| In railroad shops.....-.------ - - - | 36 | 32 | 27 | 18 | 13 | 22 | 56 | +69.2 | -60.7 |  |  |  |
| Unfilled orders, manufacturers (census)Total number | 363 | 271 | 182 | 145 | 232 | 222 | 412 |  |  |  |  |  |
| Steam (domestic) --............-number- | 244 | 167 | 97 | 74 | 178 | 161 | 334 | -9.3 | - 51.1 |  |  |  |
| Electric (domestic)...-...--.--number-- | 68 | 49 | 45 | 42 | 39 | 38 | 23 | -2.6 | +65.2 |  |  |  |
|  | 11 | 8 | 19 | 5 | 25 | 13 | 41 | -48.0 | -68.3 | 271 | 228 | -15.9 |
| 2 Quarter ending in month indicated. |  |  |  | ${ }^{8}$ Quarter ending December 31, 1926. |  |  |  |  |  |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{The cumulatives shown are through December 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|}{1927} \& 1928 \& 1927 \& \multicolumn{2}{|l|}{\[
\begin{aligned}
\& \text { PER CENTIN- } \\
\& \text { CREASE }(+) \text { OR } \\
\& \text { DECREASE }(-)
\end{aligned}
\]} \& \multicolumn{2}{|l|}{CUMULATIVE TOTAL from january 1 through decemBER 31} \& \multirow[t]{2}{*}{Per ct.
in-
crease
( + )
or de-
crease
( \(-(-)\)
cumu.
lative
1927
from
1926} \\
\hline \& August \& Septem-
ber \& October \& Novem. \& \[
\begin{aligned}
\& \text { Decem- } \\
\& \text { ber }
\end{aligned}
\] \& January \& January \& Jan. 1928 , from Dec., 1927 \& \[
\begin{aligned}
\& \text { Jan., } \\
\& \text { lase, } \\
\& \text { from. } \\
\& \text { Jan., } \\
\& 1927
\end{aligned}
\] \& 1326 \& 1927 \& \\
\hline \multicolumn{13}{|l|}{IBUTION MOVEMENT-Contd.} \\
\hline Retail Sales-Continued \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{Chain stores-Continued. Music-} \\
\hline Sales....................thous. of dolls.- \& 890 \& 1,136 \& 1,159 \& 1,161 \& 1,595 \& 873 \& 852 \& \(-45.3\) \& \(+2.5\) \& 13,927 \& 11,893 \& -14.6 \\
\hline Stores operated.................number-- \& 62 \& 62 \& 61 \& 61 \& 61 \& 61 \& 61 \& \& 0 \& \& \& \\
\hline \multicolumn{13}{|l|}{Candy-} \\
\hline Stores operated------------number-- \& \({ }^{2} 27\) \& \({ }^{280}\) \& 267 \& , 257 \& 269 \& 261 \& 243 \& \(-3.0\) \& \(+7.4\) \& \& \& \\
\hline \multicolumn{13}{|l|}{taurant chains:} \\
\hline Total sales (3 chains) ....-.thous. of dolls.-- \& 4, 863 \& 4, 844 \& 4,893 \& 4, 699 \& 5, 082 \& \& 5,029 \& \& \& 59,566 \& 58,112 \& -2.4 \\
\hline Stores operated....-.......number.- \& 364 \& 366 \& 366 \& 304 \& 370 \& \& 361 \& \& \& \& \& \\
\hline A verage per store---.-...-- dollars.- \& 13,360 \& 13, 235 \& 13,369 \& 12, 804 \& 12,735 \& \& 13,931 \& \& \& \& \& - \\
\hline \begin{tabular}{l}
Childs Co., sales thous. of dolls \\
J. R. Thompson Co., sales thous. of dolls-
\end{tabular} \& 2,463
1,183 \& 2,437
1,161 \& 2,378
1,224 \& 2,275 \& 2,490 \& 2, 3 , 235 \& 2,537
1,225 \& -5.8
-2.1 \& -7.5
+8 \& 29,920
14,383 \& 284, 840 \& -3.7
-.2 \\
\hline Waldorf System (Inc.), sales. thous. of dolls.- \& 1,217 \& 1,246 \& 1,291 \& 1,239 \& 1,330 \& \& 1,267 \& \& \& 15,263 \& 14,900 \& -2.0 \\
\hline \multicolumn{13}{|l|}{Other chain stores:} \\
\hline Isaac silver \& Bros......... thous. of dolls. Stores operated .-.-.-.-................. \& 384
21 \& 1430
420 \& 509
4
20 \& \({ }_{4}^{513}\) \& 1,065 \& 312
19 \& 281
422 \& -70.7 \& +11.0
-13.6 \& 4,762 \& ¢, 610 \& +17.8 \\
\hline Hartman Corporation.-.-- thous. of dolls-- \& \({ }^{4} 1,706\) \& -1,919 \& +1,478 \& 1,312 \& 1,505 \& \& 842 \& \& \& 18,777 \& 17,661 \& -5.9 \\
\hline Stores operated..--..........number- \& 17 \& 18 \& \({ }^{4} 18\) \& 19 \& 19 \& \& \({ }^{4} 16\) \& \& \& \& \& \\
\hline J. C. Penny Co.-...........thous. of dolls-- \& 11,007 \& 13,735 \& 17, 105 \& 17,054 \& 21,796 \& 7, 722 \& \({ }^{4} 6,331\) \& -64. 6 \& +22.0 \& 115,681 \& 151,060 \& \(+30.6\) \\
\hline  \& 854 \& 883 \& 8889 \& 890 \& 891
0.475 \& -913 \& \(\begin{array}{r}4800 \\ 5 \\ 5 \\ \hline\end{array}\) \& +2.5 \& +14.1 \& \& \& \\
\hline United Cigar Stores Co.....thous. of dolls. Stores operated. \(\qquad\) number \& \begin{tabular}{l}
6,447 \\
3,143 \\
\hline 1
\end{tabular} \& 6,
3,173
3,139 \& \begin{tabular}{l}
6,822 \\
3,143 \\
\hline
\end{tabular} \& 6,534
3,148 \& 9,475 \& \begin{tabular}{l}
5,562 \\
3,151 \\
\hline 1
\end{tabular} \& 5,723
3,109 \& -41.3 \& -2.8
+1.4 \& 80, 245 \& 80,179 \& 1 \\
\hline A. Schulte (Inc.) ...........-thous. of dolls-- \& 2,225 \& 2,164 \& 2, 231 \& 2,076 \& 3,233 \& 1,826 \& 2,204 \& -43.5 \& \(-17.2\) \& 28,74 \& 20,040 \& +1.6 \\
\hline Stores operated...............number- \& 297 \& 297 \& 297 \& 298 \& 299 \& 300 \& 294 \& +. 3 \& \(+2.0\) \& \& \& \\
\hline G. C. Murphy Cod.-.-.-- thous. of dolls.- \& \({ }_{107} 7\) \& 771 \& 875 \& 865 \& 2,064 \& 598 \& 051 \& -71.0 \& +8.5 \& 8,553 \& 10.234 \& \(+19\). \\
\hline \multicolumn{13}{|l|}{\multirow[t]{2}{*}{Installment sales in New Engiand department stores:}} \\
\hline \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline Advertising \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \multicolumn{13}{|l|}{Magazine advertising for the following} \\
\hline month.-..................... thous. of lines.- \& 2, 128 \& 2,542 \& 2, 599 \& 2,289 \& 1,811 \& 2,176 \& 2,210 \& +20.2 \& -1.5 \& 54,031 \& \% 3, 057 \& \(-1.3\) \\
\hline Newspaper advertising--.......thous. of lines.- \& 82,865 \& 100,737 \& 115,472 \& 103, 671 \& 106, 430 \& 93, 545 \& \({ }^{4} 97,610\) \& -10.2 \& -2. 1 \& 1,271,864 \& 1,21i, 204 \& \(-4.1\) \\
\hline \multicolumn{13}{|l|}{National advertising in newspapers:} \\
\hline Automobiles -.-.-.-.-.......thous of lines.- \& 5,161 \& 5,323 \& 5, 144 \& 4, 344 \& 3,679 \& \& 5,352 \& \& \& 65, 020 \& (12, 393 \& -4.9 \\
\hline \multirow{3}{*}{\begin{tabular}{l}
Cigars, cigarettes, and \\
tobacco-..............................
\end{tabular}} \& 1,572 \& 1,597 \& 1,103 \& 1,570 \& 940 \& \& 1,028 \& \& \& 17,448 \& 18,418 \& +5.6 \\
\hline \& \& \& \& \& \& \& \& \& \& \& \& \\
\hline \& 2, 776 \& 3, 198 \& 3, 507 \& 3, 8912 \& 2. 104 \& \& 1,25i \& \& \& \(2.5,421\)
10,218 \& 33,044
10.218

1, \& +30.0
0 <br>
\hline Food, groceries, beverages..thous of lines-- \& 3,325 \& 3,203 \& 3,766 \& 3,679 \& 1,801 \& \& 2, 239 \& \& \& 41, 218 \& 42,3:4 \& +2.8 <br>
\hline Hotels and resorts.-.-......thous. of lines.- \& 344 \& 230 \& 246 \& 228 \& 502 \& \& 315 \& \& \& 5, 144 \& é, 346 \& $+3.9$ <br>
\hline Household furniture........thous. of lines.- \& 262 \& 819 \& 840 \& 341 \& 237 \& \& 14. \& \& \& 6,911 \& 6, 367 \& -5.0 <br>
\hline Men's clothing ..............thous. of lines.- \& 99 \& 438 \& 439 \& 340 \& 206 \& \& 26 \& \& \& 3,594 \& 3, 531 \& -1.8 <br>
\hline Musical instruments.-..-.- thous. of lines.- \& 59 \& 131 \& 178 \& $20 \overline{0}$ \& 270 \& \& 184 \& \& \& 2,364 \& 1,250 \& -26.0 <br>
\hline Radio and electrical .-.....thous. of lines.- \& 548 \& 1,840 \& 3,019 \& 2,658 \& 2,0\%2 \& \& 1,370 \& \& \& 15,541 \& 15,551 \& +-12.9 <br>
\hline Railroads and steamships_..-thons, of lines.- \& 1,701 \& 1,293 \& 1,252 \& 1,674 \& 1,510 \& \& 1,275 \& \& \& 21, 349 \& 20,658 \& -3.2 <br>
\hline Toilet articles and medical thous of lines-- \& 30 \& 190 \& 174 \& 151 \& 120 \& \& 1.1 \& \& \& 1,936 \& 1,650 \& -13.2 <br>
\hline preparations-.-........-.- thous. of lines.- \& 3,087 \& 3,895 \& 5, Si0 \& 5,566 \& 3, 216 \& \& 5, 312 \& \& \& 60, 743 \& 57,562 \& -5. 2 <br>
\hline Women's wear...-.-.-.-.-.- thous of lines.- \& 42 \& 129 \& 351 \& 168 \& 37 \& \& 31 \& \& \& 1,768 \& 1,667 \& -5. 7 <br>
\hline Miscellaneous.--------....-thous. of lines.- \& 2,497 \& 3,315 \& 3,461 \& 2,974 \& 2,169 \& \& 3,395 \& \& \& 41, ¢80 \& 39, 646 \& -5.3 <br>
\hline Postal Rusiness \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline \multicolumn{13}{|l|}{Postal receipts, 50 selected} <br>
\hline cities -.-.-.-.-.-.-.....thous. of dolls.. \& 28,478 \& 30,152 \& 32,450 \& 32, 799 \& 40,823 \& 30, 579 \& 30,394 \& -25.1 \& +. 6 \& 367, 258 \& 3-8, 039 \& +2.4 <br>

\hline | Postal receipts, 50 industrial |
| :--- |
| cities. $\qquad$ thous. of dolls.. | \& 3,197 \& 3,291 \& 3,395 \& 3,331 \& 4,448 \& 3,438 \& 3,317 \& -22.7 \& \& 39, 290 \& 40,312 \& +2.6 <br>

\hline \multicolumn{13}{|l|}{Money orders:} <br>
\hline \multicolumn{13}{|l|}{} <br>
\hline  \& 10,120
82,538 \& 10,167
84,383 \& 11,659
76,574 \& 11,954
97,853 \& 13,516
102,259 \& 10,468
78,220 \& 10,566
80,473 \& -22.6
-23.5 \& -1.0
-2.8 \& 132,099
$1,047,647$ \& 133,433
$1,087,883$ \& +1.0
-.9 <br>
\hline \multicolumn{13}{|l|}{} <br>
\hline Quantity...............-......number.- \& 3,162 \& 2,994 \& 3,363 \& 3,381 \& 3,759 \& 3,416 \& 3,303 \& -9.1 \& +3.4 \& 38, 101 \& 39,508 \& $+3.7$ <br>
\hline Value..................-. thous. of doils.- \& 33, 234 \& 31,667 \& 35, 147 \& 34,860 \& 37,452 \& 34, 117 \& 34, 001 \& -8.9 \& +.3 \& 296, 116 \& 408, 719 \& $+3.2$ <br>
\hline \multicolumn{13}{|l|}{BANKING AND FINANCE} <br>
\hline Life Insurance \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline (Association of Life Insurance Presidents) \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline \multicolumn{13}{|l|}{Policios, new (45 companies):} <br>
\hline Ordinary .............- number of policies.. \& 211,482 \& 186,090 \& 212,924 \& 203, 629 \& 256, 546 \& 183, 511 \& 187, 460 \& -28.5 \& -2.1 \& 2, 637, 142 \& 2, 642, 742 \& $+2$ <br>
\hline Industrial.........-...... number of policies.- \& 781,361 \& 745, 664 \& 902, 140 \& 940, 847 \& 783, 339 \& 901, 786 \& 679, 290 \& $+15.1$ \& +32.8 \& 9, 386, 964 \& 9, 881,401 \& +5.3 <br>
\hline Group-.-.-------- \& \& \& \& \& \& \& \& -74.5 \& -34.9 \& 2, 351 \& 2,359 \& +. 8 <br>
\hline Total...-number of policies and contracts.- \& 992, 981 \& 931, 869 \& 1, 205, 212 \& 1, 144, 684 \& 1, 040, 576 \& $1,085,422$ \& 866, 942 \& +4.3 \& +25.2 \& 12, 026,457 \& 12, 529, 512 \& +4.2 <br>

\hline | Policies and certificates issued: |
| :--- |
| Total policies and certificates.....number.. | \& 1, 023, 331 \& 945, 250 \& \& \& \& \& \& -4.5 \& +21.0 \& 12,776,386 \& 13,628,135 \& <br>

\hline Group insurance certificates...-certificates..- \& 30,488 \& 13,496 \& 23, 797 \& 27,928 \& 124, 123 \& 1, 26, 408 \& 51,967 \& -78.7 \& -49.2 \& 12, 752, 280 \& 1
500,992 \& +6.1
-33.4 <br>
\hline \multicolumn{13}{|l|}{} <br>
\hline Ordinary ...................thous. of dolls.. \& 625, 510 \& 526,564 \& 615,753 \& 582, 000 \& 725, 847 \& 575, 127 \& 576,642 \& $-20.8$ \& -. 3 \& 7, 804, 415 \& 7, 804,406 \& 0 <br>
\hline Industrial --.-...-....-..... thous of dolls.. \& 211, 157 \& 200, 622 \& 265, 974 \& 252,738 \& 211, 076 \& 236, 303 \& 185, 292 \& +12.0 \& $+27.5$ \& 2,566, 059 \& 2, 667, 333 \& +3.9 <br>
\hline Group.-...................- thous. of dolls.- \& 43, 977 \& 31, 475 \& 48,625 \& 76, 960 \& - 165,025 \& 46,841 \& 94,445 \& $-71.6$ \& -50.4 \& 1,050,605 \& 824, 372 \& -21.5 <br>
\hline Total insurance............thous. of dolls.- \& 880, 644 \& 758,661 \& 930, 352 \& 911, 698 \& 1,101,948 \& 858, 271 \& 856, 379 \& -22.1 \& +. 2 \& 11, 421, 079 \& 11, 296, 111 \& $-1.1$ <br>
\hline
\end{tabular}

TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 192s, "Survey" | 1927 |  |  |  |  | 1928 | 1927 | PER CENT IN-CREASE $(+)$ OR decrease ( - ) |  | cumulative total from january 1 througit decemBER 31 |  | Per ct.increase( + deorcrease( -$)$cumulative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | $\begin{aligned} & \text { Septem- } \\ & \text { ber } \end{aligned}$ | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | January | Jan., 1928, from Dec., 1927 | Jan., 1928, from Jan., 1927 | 1926 | 1927 |  |
| BANKING AND FINANCE-Continued Life Insurance-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ordinary ...................-thous. of dolls.- | 137, 510 | 131,763 | 140, 041 | 145,581 | 168,114 |  | 135,395 |  |  | 1,570, 579 | 1,740,316 | +10.8 |
| Industrial...................-.thous. of dolls-- | 49, 220 | 45, 741 | 49, 272 | 48, 273 | 89, 629 |  | 45, 920 |  |  | 537, 302 | 602, 264 | +12.1 +108 |
|  | 5,327 192,057 | 181,821 | 5,792 195,105 | 4,862 198,716 | 6,448 264,488 |  | 7,065 88,380 |  |  | 58.712 | 65,045 407,625 | +10.8 +11.1 |
| Admitted life insurance assets (41 companies): | 192,057 | 181,821 |  |  |  |  |  |  |  |  |  |  |
| Grand total.-.......-.....--mills. of dolls.- Mortgage loans- | $\cdot 11,172$ | 11, 268 | 11,381 | 11,484 |  |  | 10, 529 |  |  |  |  |  |
| Mortagel Toans- | 4,898 | 4,941 | 4,982 | 5, 019 |  |  | 4, 587 |  |  |  |  |  |
|  | 1,622 | 1,620 | 1,621 | 1,620 |  |  | 1,592 |  |  |  |  |  |
| All other. $\qquad$ milis. of dolls.. Bonds and stocks (book value)- | 3,276 | 3,321 | 3, 361 | 3,309 |  |  | 2,995 |  |  |  |  |  |
| Total.....-.-.-.-.-.--mills. of dolls.- | 4,192 | 4, 216 | 4,262 | 4, 323 |  |  | 3,987 |  |  |  |  |  |
| Government......-......-milis. of dolls.- | 923 | 919 | 928 | 940 |  |  | 919 |  |  |  |  |  |
| Rairroad ---.-.-.-.-.--mills. of dolls.- | 2, 242 | 2,259 | 2, 268 | 2, 287 |  |  | 2, 173 |  |  |  |  |  |
| Public-utility .-.........-.mills. of dolls.Policy loans and premium | 876 | 887 | 911 | 942 |  |  | 764 |  |  |  |  |  |
| notes $\qquad$ mills. of dolls.- <br> (Life Insurance Sales Research Bureau) | 1,327 | 1,338 | 1,347 | 1,358 |  |  | 1,240 |  |  |  |  |  |
| Sales of ordinary life insurance (81 companies): |  |  |  |  |  |  |  |  |  |  |  |  |
| United States total .-....-.thous. of dolls.- | ${ }^{4} 681,654$ | 606, 760 | 659,375 | 662, 688 | 833, 944 | 609, 228 | 601,985 | $-26.9$ | +1.2 | 8, 408, 659 | 8, 531,545 | $+1.5$ |
| Eastern manuf. dist...-thous. of dolls.. | - $\begin{array}{r}261,413 \\ 154,708\end{array}$ | 237, 184 | 257,543 148,380 | 254,111 150,447 | 316,931 188,770 | 261,893 130,338 | 257, 734 | -17.4 -31.0 | ${ }^{+1.6}$ | $3,358,503$ $1,829,684$ | $3,438,062$ $1,898,798$ | +2.4 +3.8 |
| Western agric.district- thous of dolls.- | ${ }^{+103,638}$ | 93, 224 | 103, 663 | 106, 310 | 131, 530 | 90, 662 | 86, 167 | -31.1 | +5.2 | 1, 322,084 | $1,286,886$ | $-2.7$ |
| Southern district.......thous. of dolls.- | 88, 549 | 76, 998 | 82,706 | 84, 189 | 113, 184 | 68,847 | 66, 112 | -39.2 | +4.1 | 1,057, 591 | 1, 049,908 | $-.7$ |
| Far western district....thous. of dolls.- | - 75, 346 | 60,913 | 67,083 | 67,631 | 83, 529 | 57, 483 | 58,060 | +23.5 | -1.0 | 840, 897 | 857, 891 | +2.0 |
| Canada total, 15 companies thous. of dolls.- | 38,360 | 35, 302 | 48, 104 | 44, 935 | 48,899 | 47, 569 | 36,986 | $-2.7$ | +28.6 | 471, 649 | 502, 438 | +6.5 |
| Check payments: Baaking |  |  |  |  |  |  |  |  |  |  |  |  |
| New York City.-.--.-.... mills. of dolls..- | 31,653 | 33,369 | 34,091 | 33, 282 | 38,938 | 37, 884 | 31, 258 | -2.7 | +21.2 | 339,056 | 391, 557 | +15.5 |
| Outside New York City ....mills. of dolls.- | 22,054 | 23,387 | 25,117 | 23, 809 | 26,509 | 25,007 | 23,457 | $-5.7$ | +6.6 | 269,115 | 282,346 | +4.9 |
| Canada .....................-mills. of dolls.- | 1, 474 | 1,583 | 1,849 | 2,159 | 2,311 | 1,871 | 1,454 | -19.0 | +-28.7 | 16,970 | 19,703 | +16.1 |
| Bills discounted.-...........mills. of dolls. | 401 | 430 | 379 | 477 | 609 | 423 | 365 | -30.5 | +15.9 |  |  |  |
| Notes in circulation.-.--.-.-.mills. of dolls.- | 1,676 | 1,706 | 1,717 | 1,717 | 1,813 | 1,577 | 1,688 | $-13.0$ | -6.6 |  |  |  |
| Total investments ............mills. of dolls.. | 658 | 737 | 862 | 903 | 990 | 812 | 607 | -18.0 | +33.8 |  |  |  |
| Total reserve--.............. mills, of dolls.. | 3, 146 | 3,126 | 3, 067 | 2,940 | 2,862 | 2,971 | 3,133 | +3.8 | -5.2 |  |  |  |
| Total deposits ...............mills. of dolls.. | 2,341 | 2,390 | 2,404 | 2,413 | 2,473 | 2,452 | 2,245 | -. 8 | +9.2 |  |  |  |
| Reserve ratio | 78.3 | 76.3 | 74.4 | 71.2 | 66.8 | 73.7 | 79.6 | +10.3 | $-16.1$ |  |  |  |
| Total loans and discounts...mills. of dolls.- | 14,697 | 14,942 | 15,029 | 15,214 | 15,433 | 15,265 | 14,200 | deral reserve members banks: |  |  |  |  |
| Total investments...........mills. of dolls.- | 5, 927 | 6,042 | 6,065 | 6,329 | 6,386 | 6,575 | 5, 540 | +3.0 | +15.3 |  |  |  |
| Net demand deposits..........mills. of dolls..- | 13, 349 | 13,230 | 13,464 | 13,954 | 13,786 | 13,888 | 12,879 | $+7$ | +7.8 |  |  |  |
| Brokers' loans, end of month: To New York Stock |  |  |  |  |  |  |  |  |  |  |  |  |
| Exchange members...-.--mills. of dolls.- | 3,674 | 3,915 | 3,946 | 4, 092 | 4,433 | 4,420 | 3,139 | . 3 | $+40.8$ |  |  |  |
| By New York F. R. member <br> banks...........................-mills. of dolls.- | 3,184 | 3,306 | 3, 372 | 3,511 | 3,718 | 3,816 | 2,732 | +2.6 | +39.7 |  |  |  |
| Interest rates: |  |  |  |  |  |  |  |  |  |  |  |  |
| New Y ork call loans--....-......- per cent.- | 3. 65 | 3. 81 | 4. 03 | 3. 75 | 4. 44 | 4. 35 | 4. 28 | -2.0 | +1. 6 |  |  |  |
| Commercial paper 4-6 mos............per cent <br> N. Y. Fed. Res. Bank.................per cent. | $\begin{array}{r}43.90 \\ 4.50 \\ \hline\end{array}$ | $\begin{array}{r}\text { 4.87 } \\ \\ 3.50 \\ \hline\end{array}$ | $\begin{array}{r}\text { + } \\ \\ 3.50 \\ \hline\end{array}$ | $\begin{array}{r}\text { 3. } 92 \\ 3.50 \\ \hline\end{array}$ | 3.97 <br> 3.50 | 3.88 ${ }^{\text {3 }} 50$ | 4. 13 4.00 | $-2.3$ | -6.1 |  |  |  |
|  | +5.17 | +5.17 | 45.17 | -5.17 | 5.15 | 5. 15 | 5.21 | 0 | -1.2 |  |  |  |
| Intermediate credit banks........-per cent.- | 4.50 | 4.50 | 4.50 | 4.50 | 4. 50 | 4.50 | 4.50 | 0 | - |  |  |  |
| Savings Deposits |  |  |  |  |  |  |  |  |  |  |  |  |
| New York State savings banks, end of month. mills. of dolls. | 4,033 | 4,089 | 4,083 | 4,096 | 4,164 | 4,189 | 3,889 | +. 6 | +7.7 |  |  |  |
| Public Finances |  |  |  |  |  |  |  |  |  |  |  |  |
| Government debt, gross.-.....-mills. of dolls.- | 18,380 | 18,478 | ${ }^{4} 18,369$ | 18, 174 | 18,036 | 18,050 | 19,170 | +. 1 | -5. 8 |  |  |  |
| Customs receipts...-.....-......thous. of dolls.- | 52,982 | 54,410 | 56,617 | 47,660 | 43,113 | 41,975 | 44,695 | $-2.6$ | -6.1 | 605, 627 | 591,946 | -2. 3 |
| Total ordinary receipts.-......-thous. of dolls.- | 202, 182 | 590, 192 | 221, 205 | 149, 683 | 652, 708 | 168,840 | 169,583 | -74. 1 | -. 4 | 4, 084, 591 | 4,087,815 | $+1$ |
| ordinary receipts thous. of dolls_ | 259,181 | 287,442 | 413,220 | 406, 830 | 354, 178 | 349, 142 | 304, 254 | -1.4 | +14.8 | 3,614, 142 | 3,604, 775 | -. 3 |
| Money in circulation: <br> Total . ............................... | 4,750 | 4,850 |  | 4, 4.952 | 5,000 |  | 4,713 |  |  |  |  |  |
|  | 40.54 | 41.35 | 41.25 | 4 42.13 | 42.50 |  | 40.51 |  |  |  |  |  |
| Business Fallures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing ----- ${ }^{\text {a }}$ - |  |  |  |  |  |  |  |  |  |  | 520,30s | +27.1 |
| establishments .---.-- thous. of dolls.- | 14,921 | 15,349 | 17, 134 | 12,786 | 29, 024 | 14,871 | 19,996 | -48.8 | -25. 6 | 158,031 | 211, 506 | +33.8 |
| Trade establishments - thous. of dolls-- | 14,702 | 12,052 | 14,657 | 16, 949 | 16,733 | 26,446 | 24, 330 | +58.0 | +7.8 | 201, 344 | 228, 194 | +13.3 |
| Agents and brokers.-. thous. of dolls-- | 9,573 | 5,385 | 4,445 | 6,412 | 5,305 | 6,318 | 6,764 | +19.1 | -6.6 | 49,858 | 90, 405 | +81.3 |
| Banks (quarterly) ......--- thous. of dolls.- |  | 2 20,857 |  |  | ${ }^{2} 31,362$ |  | 182, 221 | +50.4 | $-61.9$ | 212, 775 | 143,449 | -32.4 |
| Liabilities (Canada) $\qquad$ thous. of dolls.Firms (United States): | 1,687 | 1,490 | 2,157 | 2,531 | 2,914 | 5,382 | 2,954 | +84. 7 | +82.2 | 28, 423 | 26,091 | -8.2 |
| Total commercial........--....- - number-. | 1,708 | 1,573 | 1,787 | 1,864 | 2,162 | 2,643 | 2,465 | +22.2 | +7.2 | 21,773 | 23,146 | +6.3 |
| Manufacturing <br> establishments $\qquad$ number- | 438 | 389 | 488 | 478 | 597 | 553 | 501 |  |  |  |  | +5.3 |
| Trade establishments..........-number-- | 1,174 | 1,083 | 1,170 | 1,276 | 1,430 | 1,946 | 1,842 | +36.1 | + +5.6 | 15,266 | 16,082 | +5.3 +5.3 |
| Agents and brokers.--..-.-. - | 96 | 101 | 129 | 110 | 135 | 144 | , 122 | $+6.7$ | +18.0 | 1,112 | 1,382 | +24.3 |
| Banks (quarterly) |  | 255 |  |  | 288 |  | ${ }^{1} 230$ | +60.0 | -61.7 | 608 | 398 | -34.5 |
|  | 147 | 143 | 173 | 162 | 184 | 360 | 221 | +95.7 | +62.9 | 2,106 | 2,016 | -4.3 |
| ${ }^{2}$ Quarter ending in month indicated. ${ }^{3}$ Quarter ending December 31, 1926. ${ }^{\text {a }}$ Revised. |  |  |  |  |  |  |  |  |  |  |  |  |

TREND OF BUSINESS MOVEMENTS-Continued


TREND OF BUSINESS MOVEMENTS-Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | August | 1927 |  |  |  | 1928 | 1927 | per centincrease $(+$ ) or decrease ( - ) |  | cumulative total From january 1 through decemBER 31 |  | Per ct.in-crease$(+)$or de-crease$(-)$$c u m u-$lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Septem- } \\ & \text { ber } \end{aligned}$ | October | $\begin{gathered} \text { Novem- } \\ \text { ber } \end{gathered}$ | $\begin{gathered} \text { Decem. } \\ \text { ber } \end{gathered}$ | January | January | Jan., 1928, from Dee., 1927 | Jan., 1928, from Jan., 1927 | 1926 | 1997 |  |
| BANKING AND FINANCE-Continued Stocks and Bonds-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Second-grade rails..p. ct. of par, $4 \%$ bond. | 85.43 | 86.11 | 87.24 | 87.87 | 88.57 | 88.75 | 83.52 | $+.2$ | +6.3 |  |  |  |
| Public utility .......p. ct. of par, $4 \%$ bond.- | 78.23 | 78.29 | 79.00 | 79. 14 | 79. 55 | 79.66 | 76.66 | $+.1$ | +3.9 |  |  |  |
| Industrial.-.-......p. et. of par, $4 \%$ bond.- | 79.55 | 79. 81 | 79.93 | 79.86 | 80.82 | 81.28 | 79.51 | +. 6 | +2.2 |  |  |  |
| Comb. price index_p. et. of par, $4 \%$ bond 83.98 84.35 85.05 85.43 85.98 86.15 82.52 +.2 +4.4 |  |  |  |  |  |  |  |  |  |  |  |  |
| Bond prices, ist of following month: <br> 5 Liberty bonds.................- p. ct. of par.- <br> 16 foreign government and | 104.14 | 103.68 | 103.92 | 106. 53 | 106.02 | 105.94 | 103.31 | -. 1 | $+2.5$ |  |  |  |
| city--...-................p. et. of par.- | 105.67 | 105.64 | 104.65 | 105. 46 | 105. 60 | 105.90 | 105.23 | $+3$ | +. 6 |  |  |  |
| Comb. price index, 66 bonds - p. ct. of par-- | 101.34 | 101.51 | 101.59 | 102.43 | 102.46 | 102.60 | 100.38 | $+.1$ | +2.2 |  |  |  |
| Bond yields: |  |  |  |  |  |  |  |  |  |  |  |  |
| Industrials (15) ........................per per cent.. | 4.81 | 4.80 | 4. 79 | 4.79 | 4.79 | 4.76 | 4.87 | -0.6 | $-2.3$ |  |  |  |
| Utilities (15) -.-.........---..-.-- per cent-- | 4.78 | 4.75 | 4.75 | 4.76 | 4. 72 | 4.68 | 4.81 | -0.8 | -2.7 |  |  |  |
| Municipal (15) ------------per cent.- | 4.00 4.02 | 3.96 3.90 | 3.93 3.95 | 3. ${ }^{93}$ | 3.90 3 | 3.89 | 4.04 | -0.3 | -3.7 |  |  |  |
| Manicipal bond yield (20) _........per cent. <br> Long-term real-estate bonds issued: |  |  |  |  |  |  |  |  |  |  |  |  |
| Long-term real-estate bonds issued: <br> Grand total $\qquad$ thous. of dolls.- | 32, 247 | 42,763 | 59,092 | 27, 131 | + 52,322 | 61, 167 | 67,960 | +16.9 | $-10.0$ | 644,311 | 570,742 | -11.4 |
| Purpose of issue- Finance construction...thous. of dolls._ | 19,435 | 23,463 | 35, 819 | 12, 460 | - 24, 270 | 32,759 | 36,767 | +35.0 | -10.9 | 353,762 | 270, 198 | -23.6 |
| Real-estate mortgage... thous. of dolls..- | 4,482 | 5,140 | 10, 523 | 5,241 | 11, 207 | 12,900 | 17,480 | +15.1 | -26.2 | 127, 714 | 137,215 | +7.4 |
| Acquisitions and improvements . . . .... thous. of dolls.Kind of structure- | 2, 080 | 3,310 | 525 | 1,850 | 5,115 | 6, 533 | 6,663 | +27.7 | -2.0 | 82,330 | 63, 843 | -22.5 |
| Office and other |  |  |  |  |  |  |  |  |  |  |  |  |
| commercial.-.........-thous. of dolls.- | 7,700 | 19,575 | 21,980 | 9, 155 | 1 16,055 | 29,000 | 23, 295 | +80.6 | +24.5 | 261,676 | 186, 503 | -28.7 |
| Hotels .-.......-...-- thous. of dolls.- | 7,170 | 5,140 3,473 | 3,845 11,519 | 2,660 2,226 | 3,790 7,025 | 650 4,309 | 4,050 | -82.8 -38.7 | $-84.0$ | 103,643 | 48, 266 | -53.4 |
| Corporation |  |  |  |  |  |  |  |  |  |  |  |  |
| (Quarterly) |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U. S. Steel Corp. common stock: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Foreign------------.-.-.-.---- |  | ${ }^{21} 1,653$. |  |  | ${ }^{2} 1,538$ |  | ${ }^{3} 1,582$ | $-6.9$ | -2.7 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 25,287 |  |  | 25,247 |  | 35,084 | -. 8 | +3.2 |  |  |  |
| Gold GOLD AND SILVER |  |  |  |  |  |  |  |  |  |  |  |  |
| Gold: <br> Domestic receipts at mint ......fine ounces. | 91, 245 | 103, 240 | 97, 103 | 91, 840 | 75,575 | 73, 624 | 80, 777 | -2.6 | -8.8 | 1,024,680 |  |  |
| Rand output......-....-.thous. of ounces... | 863 | 842 | 856 | 848 | 851 | 843 | 840 | -. 9 | +.5 | 1, 9,961 | 10, 130 | +1.7 |
| Imports .-..................-thous. of dolls.- | 7,877 | 12,979 | 2,056 | 2,082 | 10,431 | 38, 320 | 59,355 | +267. 4 | -35.4 | 213, 50G | 207, 535 | -2.8 |
| Exports.-------.-.-....-.-- thous. of dolls.- | 1,524 | 24, 444 | 10,698 | 55, 266 | 77,849 | 52, 086 | 14, 890 | $-33.1$ | +249.8 | 115,708 | 201,455 | +i4.1 |
| Monetary stock..............mills. of dolls.-. | 4,588 | 4, 571 | 4,541 | 4,451 | 4, 476 | 4,374 | 4, 564 | 0 | -4.2 |  |  |  |
| Silver:Production- |  |  |  |  |  |  |  |  |  |  |  |  |
| Production- <br> United States $\qquad$ thous. of fine oz |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada-........-.-.-. - thous. of fine oz-- | 2,388 | 2,023 | 1,696 | ${ }^{4} 1,739$ | +1,723 | 1,514 | 1,459 | -12.1 | +3.8 | 21, 255 | 20, 761 | -2.3 |
| Mexico-.-.-.-........thous. of fine oz.. | 9,372 | 7,909 | 8,273 | 8,300 | 8,300 |  | 8, 559 |  |  | 98, 291 | 99, 944 | +1.7 |
| Stocks, end of monththous of fine $0 z$ |  |  |  |  |  |  |  |  |  |  |  |  |
| United States.-.......thous. of fine oz.. Canada $\qquad$ thous. of tine oz.- | ${ }_{624} 608$ | 293 | 178 494 | ${ }_{5617}^{136}$ | 353 608 | $\begin{array}{r}574 \\ 1,141 \\ \hline 1\end{array}$ | $\begin{array}{r}700 \\ 1,300 \\ \hline\end{array}$ | +62.6 +87.7 | -18.0 -12.2 |  |  |  |
| Canada-................thous. of thous. of dolls.- | 4,856 | 4,992 | 5,069 | 5,102 | 3,770 |  | 5,151 | +67.2 | +22.4 |  |  |  |
| Exports-....-.-..............-.thous. of dolls.- | 5,590 | 6, 627 | 5,945 | 5,634 | 7,186 | 6, 692 | 7, 388 | -6.9 | -9.4 | 92, 257 | 75,624 | -18.0 |
| Price at New York----- dolls. per fine $\mathrm{oz}_{--}$ | . 547 | . 554 | . 560 | . 575 | . 580 | . 571 | . 558 | $-1.5$ | +2.3 |  |  |  |
| FOREIGN EXCHANGE RATES |  |  |  |  |  |  |  |  |  |  |  |  |
| Europe: |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| France.-...-...............-dolls, per franc-- | . 039 | . 039 | . 039 | . 039 | . 039 | . 039 | . 040 | 0 | -2.5 |  |  |  |
| Italy | . 054 | . 054 | . 055 | . 055 | . 054 | . 053 | . 043 | $-1.9$ | +25. 6 |  |  |  |
| Belgium.-.-......-.......dolls. per frane-. | . 139 | . 139 | . 139 | . 140 | . 140 | . 139 | . 130 | -. 7 | $+7$ |  |  |  |
| Netherlands....-.........- dolls. per per guilder-- | . 401 | . 401 | . 402 | . 404 | .404 .270 | . 403 | . 400 | $-.28$ | +1.0 +1.1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Japan...-.-.-................dols. per yen.- | . 473 | - 468 | - 466 | - 460 | - 462 | . 469 | . 488 | +1.5 | -5.3 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Argentina..............dolls. per gold peso.. | . 968 | . 971 | . 972 | . 971 | . 972 | . 971 | . 939 | $-.1$ | +3.4 |  |  |  |
| Brazil....-...............dills. per milreis.- | . 118 | . 119 | . 119 | . 119 | . 120 | . 120 | . 117 | 0 | +2.6 |  |  |  |
| Chile..----.-.-.....dols. per paper peso.. | . 120 | . 121 | . 122 | . 122 | . 122 | . 122 | . 120 | 0 | $+1.7$ |  |  |  |
| ${ }^{2}$ Quarter ending in month indicated. $\quad$ Tuarter ending December 31, 1925. Revise |  |  |  |  |  |  |  |  |  |  |  |  |

TREND OF BUSINESS MOVEMENTS—Continued

| The cumulatives shown are through December except where otherwise noted. Earlier data for items shown here may be found on pages 24 to 138 of the February, 1928, "Survey" | 1927 |  |  |  |  | 1928 | 1927 | $\begin{aligned} & \text { PER CENT IN- } \\ & \text { CREASE }(+) \text { OR } \\ & \text { DEREEASE }(-) \end{aligned}$ |  | cumulative total FROM JANUARY 1 terovgh decemBER 31 |  | Per cl.in.crease(+)or de-crease$(-)$cumu-lative1927from1926 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | August | Septem- | October | $\begin{aligned} & \text { Novem- } \\ & \text { ber } \end{aligned}$ | $\begin{aligned} & \text { Decem- } \\ & \text { ber } \end{aligned}$ | January | January | Jan., 1928, from Dec., 1927 | $\begin{aligned} & \text { Jan., } \\ & \text { 1928, } \\ & \text { from } \\ & \text { Jan., } \\ & 1927 \end{aligned}$ | 1926 | 1927 |  |
| $\begin{aligned} & \text { U. S. FOREIGN TRADE } \\ & \text { Imports } \\ & \text { Grand total................................ of dolls.. } \end{aligned}$ | 368, 820 | 342, 154 | ( 355,744 | 344, 267 | 331, 236 | 337, 612 | ${ }^{4} 356,841$ | $+1.9$ | -5. 4 | 4, 430, 888 | 4, 184, 694 | -5.6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Europe-- | -110 169 | 1113,446 | 1 | -115910 |  |  |  |  |  |  |  |  |
| France-....................thous. of dolls.- | 14,729 | 15,923 | 118,297 | ${ }_{4} 15,460$ | 13, 224 |  | 12,572 |  |  | 152, 021 | 167, 808 | +10.4 |
| Germany.......-......-- thous. of dolls.- | 17, 837 | 20, 162 | - 20,846 | 18, 401 | 15,511 |  | +15,903 |  |  | 198, 493 | 200, 554 | +1.0 |
| Italy .-.---.---...-....- thous. of dolls.-- | 8,578 | 8,585 | ${ }_{+} 11,369$ | 10,697 | 8,727 |  | 9,011 |  |  | 100, 526 | 108, 925 | +8.4 |
| United Kingdom....... thous. of dolls.. | ${ }^{4} 33,038$ | 29,721 | ${ }^{+33,119}$ | ${ }^{4} 33,841$ | 29,063 |  | ${ }^{4} 21,428$ |  |  | 383, 197 | 357,929 | $-6.6$ |
| North America- <br> Total $\qquad$ thous. of dolls.- | 82, 865 | 77,784 | 4 84,752 | ¢ 81,578 | 76, 485 |  | ${ }_{4}^{4} 71,983$ |  |  | 1,011,571 | 985, 458 | -2.6 |
| Canada--.-.-------..-thous. of dolls.-. | 39, 973 | 41, 902 | ${ }^{4} 44,670$ | ${ }^{4} 45,113$ | 40, 553 |  | ${ }^{4} 37,563$ |  |  | 475, 880 | 475, 077 | -. 2 |
| South America- Total.............................. | 46, 401 | 38,293 | - 43, 268 | +44,945 | 47, 529 |  | ${ }^{4} 45,007$ |  |  | 567, 979 | 518,275 |  |
| Argentina.............- -thous of dolls.. | 9,694 | 10,017 | 8,536 | 18,296 | 6, 413 |  | 47,542 |  |  | 89,059 | 97, 240 | +9.2 |
| Asia and Oceania- <br> Total thous. of dolls | ${ }^{4} 123,707$ | 105, 979 | ${ }^{4} 98,994$ | +95, 704 | 93, 565 |  | 4 128, 911 |  |  | 1,469,051 | 1,311, 424 | -10.7 |
| Japan-....................thous. of dolls.-. | 47, 482 | 35,369 | 33, 973 | 25, 639 | 34, 229 |  | ${ }^{4} 37,188$ |  |  | 400, 696 | 402, 105 | +. 4 |
| Africa, total-..-.-.-.-.-.-. thous. of dolls..- | ${ }^{4} 5,677$ | 6,651 | 5,071 | 6,129 | 10, 275 |  | 10, 790 |  |  | 96, 421 | 93, 255 | $-3.3$ |
| By classes of commodities: <br> Crude materials..............thous. of dolls.. <br> Foodstufts, crude, and | 144, 232 | 130,660 | 4 119, 220 | +118,394 | 122, 507 | 133, 226 | +153,113 | +8.7 | -13.0 | 1,792, 862 | 1,601,649 | -10.7 |
| food animals .-.-.-.-.- thous. of dolls.- | 42,656 | ${ }_{33,190}$ | ${ }^{4} 44,194$ | ${ }^{\text {4 }} 49,145$ | 51, 504 | 48,302 | - 44,081 | -6.2 | +9.6 | 539,757 | 504, 571 | -6. 5 |
| Manufactured foodstufts . . thous. of dolls. . <br> Semimanufactures. thous. of dolls.- | 35,471 68,691 | 33,016 63,094 | 441,347 467,807 | $\begin{aligned} & 436,123 \\ & 460,091 \end{aligned}$ | 28,227 59,037 | 28,723 61,059 | $$ | +1.8 +3.4 $+\quad$ | +6.6 +7.4 | 417,513 | 450,595 749,597 | +7.9 -6.8 |
| Finished manufactures ......thous. of dolls.. | 79,770 | 82, 194 | + 83, 173 | ${ }^{4} 80,512$ | 69,960 | 66,303 | ${ }^{1} 66,726$ | $-5.2$ | 6 | 876,471 | 878, 280 | + +2 |
| Exports |  |  |  |  |  |  |  |  |  |  |  |  |
| Grand total, including reexports. $\qquad$ thous. of dolls.. | ${ }^{1} 374,751$ | '425, 267 | 4 488,643 | ${ }^{4} 461,018$ | 407, 617 | 411, 000 | '419, 402 | +. 8 | -2.0 | 4, 808, 660 | 4, 865, 400 | +1.2 |
| By grand division: <br> Europe- |  |  |  |  |  |  |  |  |  |  |  |  |
| Total-- .-...----.------- thous. of dolls.- | 168,282 14 | 4211,728 | 4 4 294,462 2950 | + ${ }^{241,169}$ | 207, 088 |  | 4 ${ }^{4} 211,038$ |  |  | 2, 310, 144 | 2, 313,747 | + +2 |
| France-.....................thous. of dolls... | 14,403 30,239 | $\begin{aligned} & +21,084 \\ & 451,855 \end{aligned}$ | 29,050 62637 | $\begin{aligned} & 48,542 \\ & 458,657 \end{aligned}$ | 23,127 <br> 43,848 |  | $+20,302$ $+40,257$ |  |  | 264,004 364,162 | $\begin{aligned} & 228,757 \\ & 481,678 \end{aligned}$ | -13.4 +32.3 |
| Italy | 9,332 | 8, 169 | 14,494 | 4 14,926 | 15,907 |  | 13, 238 |  |  | 157,402 | 131,651 | -16.4 |
| United Kingdom....-.- - thous. of dolls.- | 57, 670 | ${ }^{4} 72,463$ | 4 89,958 | ${ }^{4} 79,197$ | 72,498 |  | -89,819 |  |  | 972,606 | 840, 058 | -13.6 |
| North America- <br> Total $\qquad$ thous. of dolls.- | [109, 058 | +118, 505 | 4114, 543 | - 106,391 | 90,748 |  | +88,054 |  |  | 1,176,482 |  |  |
|  | -75, 241 | 485, 725 | 480,681 | - 69, 991 | 56,708 |  | ${ }^{4} 50,718$ |  |  | 738,568 | 836, 514 | +13.3 |
| South America- <br> Total. $\qquad$ thous. of dolls.- | 38,391 | ${ }^{4} 33,884$ | 432,719 | ${ }^{4} 39,725$ | 37, 396 |  | 144,584 |  |  | 443,507 | 438, 182 | -1.2 |
|  | 15, 678 | 12, 976 | 13,640 | 415,381 | 15,025 |  | 15,355 |  |  | 143, 575 | 163,486 | +13.9 |
| Asia and Oceania- <br> Total $\qquad$ thous. of dolls | 50, 492 | -52,903 | ${ }^{4} 77,031$ | +64,726 | 61,923 |  | ${ }^{4} 66,046$ |  |  | 777, 258 | 753, 365 |  |
| Japan......................thous. of dolls.. | 12, 199 | 17,923 | 33, 711 | - 27,814 | 23, 212 |  | 22, 700 |  |  | 260, 754 | 257, 582 | -1.2 |
| Africa, total................-thous. of dolls.. | 8,527 | 8,247 | 49,888 | ${ }^{49,007}$ | 10,462 |  | -9,680 |  |  | 101, 279 | 107, 087 | +5.7 |
| Total dom estic exports only ....-thous. of dolls..- | 367, 575 | '416,472 | 4 480, 428 | 4 452,868 | 398,344 | 401,545 | - 411, 649 | +. 8 | -2. | 4,711, 721 | 4,758,893 | +1.0 |
| By classes of commodities: <br> Crude materials $\qquad$ thous. of dolls. | 55, 135 | [102, 145 | 4 160, 282 | 145, 889 | 117, 574 | 112,062 | - 122, 510 | -4.7 | -8.5 | 1, 261, 323 | 1, 192,784 | $-5.4$ |
| Foodstufts, crude, and |  |  |  |  |  |  |  |  |  |  |  |  |
| food animals -.-........-thons, of dolls.. | 46,770 | 69,429 | 62, 425 | 46,723 | 23,303 | 18,077 | 24,406 | -22.4 | -25.9 | 335, 062 | 421, 107 | +25.7 |
| Manufactured foodstuff . . thous. of dolls.-- | 34, 160 | 38, 562 | 45, 643 | ${ }_{4}^{4} 42,398$ | 42,057 | 43, 296 | ${ }_{4}^{4} 41,016$ | +2.9 | +5.6 | 503, 005 | ${ }_{6}^{463,304}$ | -7.9 |
| Semimanufactures-a.-.-.- thous. of dolls.-. | 59,786 171,724 | 4 54,791 <br> 151,545 | 45,001 <br> 4 <br> 157,077 | 4 4 1661,722 |  |  |  | +7.1 +5.4 |  | 1,956,784 | 699, $1,981,868$ |  |
| Agricultural exports (quantities): |  |  |  |  |  |  |  |  |  |  |  |  |
| All commodities-.----..---rel. to 1910-14-- | 94 | 142 | 185 | 161 | 119 | 113 | 150 | $-5.0$ | -24.7 |  |  |  |
| All commodities except cotton.............................. to 1910-14... | 155 | 211 | 218 | 187 | 133 | 127 | 140 | -4.5 | -9.3 |  |  |  |
| Candidian foreign trade |  |  |  |  |  |  |  |  |  |  |  |  |
| Total trade: |  |  |  |  |  |  |  |  |  |  |  |  |
| Imports-.-...............- thous, of dolls.- | 99,348 | 91,803 99 | 93,936 105.821 | 94, 312 | 83, 263 | ${ }^{79.605}$ | 78, 806 | -4.5 | +.9 | 1,008, 342 | 1, 087, 178 | +7.8 |
| Exports. .--.-.-.-........... thous. of dolls.- | 95, 055 | 99,335 | 105, 821 | 155, 621 | 132, 189 | 84, 428 | 85, 266 | -36.1 | $-1.0$ | 1,293,940 | 1, 238, 782 | $-3.5$ |

- Revised.


# PUBLICATIONS OF THE DEPARTMENT OF COMMERCE 


#### Abstract

Recent publications of the Department of Commerce having the most direct interest to readers of the Survey of Current Business are listed below. A complete list may be obtained by addressing the Division of Publications, Department of Commerce, at Washington. Copies of the publications may be purchased from the Superintendent of Documents, Government Printing


 Office, Washington, at the prices stated. If no price is mentioned, the publication is distributed free.
## OFFICE OF THE SECRETARY

City Planning Primer, by Advisory Committee on Zoning appointed by Secretary Hoover. iv +18 pages. States the advantages derived by every community from intelligent city planning and gives suggestions as to the things to be considered in such planning. Price, 5d.

Radio Service Bulletin, January, 1928.-34 pages. Issued monthly by the Radio Division of the Department of Commerce. Contains lists of radio stations and references to current radio literature. Single copies, 5¢; annual subscription, $25 \%$.

Services Available to Chemical Industry Through United States Department of Commerce.-ii +33 pages, 4 illustrations. The service rendered by the various bureaus of the Commerce Department to the chemical industry are outlined.

## bureau of the census

(For information concerning plan of publication and distribution of census publications, address the Director of the Census)
Census of Agriculture, 1925: Part II, The Southern States.This publication presents statistics concerning farms and farm property, livestock, crops, etc., for the United States as a whole, distributed by States, and detailed county statistics for the Southern States. 1,328 pages, cloth bound, price $\$ 1.75$.

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE

(The publications of this bureau may also be purchased from the bureau or its district offices)
Monthly Summary of Foreign Commerce of United States, December, 1927.-Parts I and II. Part I contains statistics of exports of domestic merchandise, and imports by articles for December, 1926 and 1927, and for 12 months ended December, 1926 and 1927. Part II contains summaries of export and import trade; monthly average import and export prices; statistics of trade with Alaska, Hawaii, and Porto Rico. Single copies, Part I, 10\&; Part II, 5\&. Annual subscription, \$1.25.

Trade Association Activities, by Irving S. Paull, J. W. Millard, and James S. Taylor. Domestic Commerce Series No. 20; viii +381 pages. Study of the methods of organization of trade associations, showing scope and value of the activities of each association, and the relations of such associations with Government departments and offices. An appendix contains excerpts from reports of Attorneys General relating to prosecutions under the Sherman antitrust law. A bibliography is included. Price, 75\&.

Standard Specifications for Structural Steel for Locomo-tives.-Industrial Standards No. 210; serial designation A 10-24; 18 pages, 4 illustrations. Portuguese-English edition prepared in cooperation with the Bureau of Standards. Price, 5¢.

Irish Free State as Market for Electrical Machinery and Supplies, by Julian F. Harrington, American vice consul, Dublin. Trade Information Bulletin No. $531 ; \mathrm{i}+24$ pages. Shows the amount of electricity generated and consumed for power, lighting, transportation, and communications in Irish Free State; and marketing methods employed for electrical appliances. Information is given regarding patent and trademark registration and advertising mediums. Price, $10 \%$.

Marketing of Crude Rubber, with Trade Statistics, by E. G. Holt. Trade Promotion Series No. 55; xvi +257 pages, 12 illustrations. Survey of rubber resources of producing countries of the world, marketing methods and exports, restriction on production in British areas of the Far East, markets for crude product in Europe and United States, rubber trade associations, and statistics regarding rubber consumption. Price, $45 d$.

Trading Under Laws of Porto Rico, by Joaquin Servera. Trade Promotion Series No. 58; iv +44 pages. Presents an outline and brief discussion of commercial and taxation laws of Porto Rico. Price, $10 \phi$.

## BUREAU OF STANDARDS

Simplified Practice Recommendations:
No. 17. Forged Tools. vi +24 pages, 9 illustrations. Price, 5 e.
No. 48. Shovels, Spades, and Scoops. ii +16 pages, 1 illustration. Price, 5d. No. 60. Packing of Carriage, Mechine, and Lag Bolts. vi+18 pages, 1 illus-
No. 63. Metal Spools for Annealing, Handling, and Shipping Wire. vi +12 pages, 1 illustration. Price, 5 e .

Light Metals and Alloys, Aluminum, Magnesium.-Circular No. 346 ; iv +403 pages, 73 illustrations, 6 pages of plates. This circular supersedes No. 76 on the same subject and deals with the physical and mechanical properties of aluminum and magnesium and of their alloys. Price, $\$ 1.10$.
Physical Properties of Principal Commercial Limestones Used for Building Construction in United States, by D. W. Kessler and W. H. Sligh. Technologic Paper No. 349. (From Technologic Papers, vol. 21, pp. 497-590, 25 illustrations.) Tests made by the Bureau of Standards to determine the strength and elasticity of limestones used for building purposes. Price 30ф.

Technical News Bulletin, January, 1928.-12 pages, monthly. Contains items describing laboratory activities of Bureau and a list of pamphlets issued during preceding month. Annual subscription, 254.

United States Government Master Specification for Lamps Electric, Incandescent, Large, Tungsten, Filament. Circula No. 13; 12 pages. Price, 5¢.

1928 Supplement to Circular No. 13. 4 pages. Price, $5 \phi$.

## BUREAU OF FISHERIES

Fishery Industries of United States, 1926, by Oscar E. Sette. Document No. 1025. (Appendix V to the report of the U. S. Commissioner of Fisheries for 1927, pp. 337-483.) Price, 25\&.

Trade in Fresh and Frozen Fishery Products and Related Marketing Considerations in Greater St. Louis, Mo., by R. H. Fieldler. Document No. 1026. (Appendix VI to the report of the U. S. Commissioner of Fisheries for 1927, pp. 485-514, 2 illustrations.) Price, $10 \phi$.

Progress in Biological Inquiries, 1926, Including Proceedings of Divisional Conference, January 4 to 7,1927 , by Elmer Higgins. Document No. 1029. (Appendix VII to the report of the U. S. Commissioner of Fisheries for 1927, pp. 517-681, 18 illustrations.) Statement of the results of investigations conducted by the Fisheries Bureau, with a report on the proceedings of the first conference of the investigators of the division of inquiry. Price, 25¢.

## BUREAU OF MINES

Descriptive List of Motion Picture Films of U. S. Bureau of Mines, by M. F. Leopold and R. A. Wood. ii +20 pages. Contains an annotated list of motion-picture films produced by the Bureau of Mines and loaned for educational purposes.

Mineral Resources of United States, 1926. The reports on mineral resources are issued in the form of separate bulletins, of which the following have been released since the February announcement and may be obtained at the price indicated:

Anthracite in 1920. (Pt. II, pp. 1-39.) Price, 10t.
Gold, Silver, Copper, Lead, and Zinc in California and Oregon in 1926. (Pt. I, pp. 297-353.) Price, 10 .
Rare Metals: Cobalt, Molybdenum, Nickel, Tantalum, Titanium, Tungsten,
Radium, Uranium, and Vanadium in 1926. (Pt. I, pp. 249-274.) Tungsten, $\underset{\text { Radium, Uranium, and Vanadium in 1926. }}{\text { Rand }}$ (Pt.I, pp. 24.
Secondary Metals in 1926. (Pt. I, pp. 275-295.) Price, $5 申$.

## BUREAU OF NAVIGATION

American Documented Seagoing Merchant Vessels of 500 Gross Tons and Over, January, 1928. ii + 64 pages. Published monthly. Single copies, $10 \phi$; annual subscription, $75 \phi$.

## LIGHTHOUSE SERVICE

Light List, Atlantic and Gulf Coasts of the United States, 1928 (corrected to December 15, 1927). 520 pages. This list describes all aids to navigation maintained by the United States on the Atlantic and Gulf coasts, in Porto Rico, Virgin Islands, and Cuba. Price, 50ф.

## PATENT OFFICE

Index of Patents Issued from United States Patent Office, 1927. 1019 pages. Contains alphabetical lists of patentees and inventions and of disclaimers. Price, $\$ 1$.

Index of Trade-Marks Issued from United States Patent Office, 1927. 735 pages. Contains alphabetical lists of registrants, applicants for registration, and titles of trade-marks, labels, and prints. Price, 50\&.

## man ravenega mio Grade Alssociation Alctivities <br> A NEW PUBLICATION OF THE

## DEPARTMENT OF COMMERCE

## A COMPREHENSIVE SURVEY OF THE ACTIVITIES AND ACCOMPLISHMENTS OF MORE THAN 400 TRADE ASSOCIATIONS

> This cross section of cooperation in American commerce and industry reveals the details of organization and financing and the major activities and achievements of the principal organizations in each industry: Major, activities are illustrated with details from actual practice

## A Practical Handbook for Trade Secretaries

## TABLE OF CONTENTS

Foreword by Herbert Hoover
Chapter 1. Introduction
Chapter 2. How Trade Associations are Organized and Financed

| W\% \% FUNCTIONAL ACTIVITIES | ndustrial organtization |
| :---: | :---: |
| Chap. | Chap. |
|  | 14. Construction Industries |
| 4. Legal Aspects of Statistical Activities | 15. Railways and Pubulic Uttilit |
| 5. Cost Accounting | 16. Automobiles, Airplanes, and H |
| 6. Industrial and | 17. Mining and Oil Industrie |
| 7. Simplifed Prattice | 18.) Metals and Machinery |
| 8. Tndustrial Standerdization | 19. Miscellanequs MAnufacturing Industries |
| 9, Pubtic Relations-Cooperative Advertising | 20. Texties and clothing |
| 10. Trade Relations-Arbitration | 21. Farm Products |
| 11. Credit and Insurance Departmen | 22. Wholesale and Retail Tra |
| Employet:Employee Relations | 23. Banking and Insuranc |
| 13. Traffic and Transportation Service | 24. Techni |
| I Government Relations |  |
| Bound in buckram, 380 paz | may be obtained for 75 cents from |
| uperintendent of Document | Printing Office, Washington |

Or any of the following branch offices of the Department of Commerce:

> ATLANTA: 538 Post Office Building
> BALTMORE: 22 Light Streat
> BOPTON: 1801 Custamhouse
> CHATTANOOGA= 1301 Mariel Sireet
> CHICAGO: Roomi 845, 33 S. Clark Street
> CINCINNATI: Chamber of Commerce CLEVELAND: Chamber of Commerce
> DES MOINES: 121 Federal Bailding
> DETROIT: G07 Free Press Building
> GALVESTGN: 309 Pest Office Building

> HOUSTON: Chamber of Commerce Building
> JACKSONVLLE: Greenleaf Crosby Building
> KANSAS CITY: Atbletic Club Butilding
> LOS ANGELES: 1163 S. Broadway
> LOUISVILLE: Board of Trade Building
> MEMPHIS: Chamber of Commerce Building
> MINNEAPOLIS: 243 Federal Butlding MOBILE: Meaher Building
> NEWARK: Chamber of Commerce NEW ORLEANS: 322 Post Office Building

NEW YORK: 734 Customhiouse
NORFOLK: 406 East Plume Stree
PHILADELPHIA: Rioom 812, 20.S. Fificenth Streot
PORTLAND, OREG.: 215 New Po3t Ofice Building

ST. LOUS: 1201 Liberty Centrat Trast Co. Building
SAN FRANCISCO: 310 Custamhouse
SEATTLE: 820 Strinner Building
WLMMINGTON, DEL. Du Pont Building



[^0]:    Subseription price of the Survey of Current Business is $\$ 1.50$ a year; single copies (monthly), 10 cents; semiannual issues, 25 cents. th Foreign subscriptions, $\$ 2.25$; single copies (monthly issues), including postage, 14 cents; semiannual issues, 36 cents. Subscription price of Commerce Reports is $\$ 4$ a year; with the Survey, 85.50 a year. Make remittances only to Superintendent of Documents, Washington, D. C., by postal money order, express ordet, or New York draft. Currency at sender's risk. Postage stamps or foreign : money not accepted

[^1]:    * Fluctuations between maximum and minimum due largely to seasonal conditions.

[^2]:    ${ }^{1}$ Compiled by the U. S. Department of Commerce, Bureau of the Census, from reports of 129 identical firms, including reports collected through the Steel Founders' Society. These firms have a monthly capacity of 145,600 tons, at present representing over 80 per cent of the capacity of the industry for commercial castings (as distinguished rom castings used in further manufacture in the same plant, of which 67,300 tons is usually devoted to railway spectalties and represents the complete capacity of that branch, While 78,300 tons is generally devoted to miscelianeous castings. New orders for 1920 were 6 per cent larger than the production or diect steel castings manaractured for sale and interplant transfer by steel works and roling mills and represented per pert pret steel car wheels. Owing to reports from additional firms, these fagures represent revisions of those shown in the Record Book of Business Statistics, Metals and Nachinery 8 ection. Figures for January, 1928, are shown in the table "Trend of Business Movements" in this issue.

[^3]:    ${ }^{2}$ Compiled by U. S. Department of Commerce, Bureau of Mines, from practically all cement plants
    ${ }_{2}$ Compiled by the A merican Electric Railuay Association and representing the average cash fare charged by electric railways based on rates in effect in 272 cities of over 25,000 population, according to the 1920 census, excluding 16 cities in which zone fares are in pperation, precluding the computation of a definite average. ${ }^{3}$ Compiled by the Oil and Gas Journal, representing the average tank-wagon price of gasoline in 50 cities at the end of each month, exclusive of tax
    1927 averaged 3.1 cents per gallon. Details by cities are shown in the publication. 60 to 70 per cent of the industry. Jamuary shipments were 45,010 tons.

