## FEDERAL RESERVE BULLETIN

ISSUED BY THE
FEDERAL RESERVE BOARD
AT WASHINGTON

JANUARY, 1920


WASHINGTON
GOVERNMENT PRINTING OFFICE

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No complete sets of the Bulletin for 1915, 1916, or 1917 are available.

## FEDERAL RESERVE BULLETIN

VoL. 6
JANUARY, 1920.

## REVIEW OF THE MONTH.

Treasury operations during the month of December have continued to
Public finance. follow the same general course which had been reported during the autumn months. On the basis of the daily Treasury statements, the total receipts for December, exclusive of transactions in the public debt, aggregated $\$ 1,092,691,597.63$, of which amount $\$ 905,307,590.08$ represents receipts on account of income and profits taxes, while expenditures on the same basis aggregated $\$ 492,410$,665.02, leaving a net current surplus for the month of $\$ 600,280,932.61$. The total amount of income and profits taxes deposited with the Federal Reserve Bank of New York and its Buffalo branch for the period from December 1 to December 31 was $\$ 270,133,737.42$. Sales of certificates of indebtedness under the offering of December 15 aggregated $\$ 728,130,000$, of which amount $\$ 281,882,500$ were in the New York district. The total amount of Treasury certificates maturing December 15 was $\$ 662$,752,000 , of which amount $\$ 294,189,500$ were outstanding in the New York district. The net disbursements by the Treasury for interest on the public debt, on the basis of the daily Treasury statements, for the month of December were $\$ 140,566,811.57$. Receipts in New York and at other points only partially offset the disbursements of the Treasury, and the result was a corresponding increase in funds momentarily available at the banks in those districts. Subsequent income-tax receipts and payments of loans by the banks out of the proceeds of redeemed certificates of indebtedness combined to reduce the earning investments of the Federal Reserve system, which fell to $\$ 2,891,836,000$ on December 19. At the New York Federal Reserve Bank the level of earning assets on December 19 was the lowest since October 23.

The relations between public finance operations and the condition of the banks have thus been especially noteworthy during December, producing as they have a somewhat complex situation in the earning investments of the system. On 14 business days during the month of December the total investments of the Federal Reserve Bank of New York were more than $\$ 1,000,000,000$. Since the middle of November Government deposits have been withdrawn with fair regularity. These deposits, created chiefly by the sale of certificates of indebtedness during August and September, resulted, when the Government called for the funds, in a momentary rise not only in rates on the stock exchange money market, but in the loans and discounts of the Federal Reserve Banks. This amounts to saying that the deposits resulting from the sale of certificates consist for the most part only of entries on the books of the banks showing credits to the account of the United States. It is not until the Government demands deposits that the bank has to find the funds with which to pay. Recourse, if necessary, is then had to the Federal Reserve Bank where the purchased certificates or other collateral were put up as security for loans, and these are normally liquidated when the withdrawn deposits return to the banks as Government checks.

The reserve percentages for the different banks of the Federal Reserve
Reserve per- system have continued during the month to show more or less fluctuation as between the several banks, but comparatively little fluctuation for the system as a whole. In the following table are given for November and December the reserve percentages obtaining for all Federal Reserve Banks combined. From this it will be seen that the combined reserve percentage of the system has decreased during the month of December about 1.6 per cent.


November 14............................................ 47.1
November 21............................................ . 46.9
November 28......................... . . . . . . . . . . . . . . . . . . . . 45.5
December 5................................................ 46. 4
December 12............................................ 46.0
December 19............................................. 46.8
December 26.......................................... 44.8
During the same period the total of loans in the system and at the different banks has substantially been unchanged, there being only a minor reduction. This maintenance of the outstanding loans of the banks has been due to the fact that while some banks in the commercial centers have reduced their commitments very materially, partly as a result of high rates for call money, banks elsewhere have almost correspondingly increased their loans. The following table shows the movement of loans, discounts, and investments during the month of November and December:

Loans, discounts, and investments of reporting member banks in leading cities.
[Amounts in millions of dollars.]

|  | New York City. |  | All Federal Reserve Bank cities. |  | Leading cities in all Federal Reserve districts. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of banks. | Amount. | Number of banks. | Amount. | Number of banks. | A mount. |
| Oct. 31 | 71 | 5,789 | 268 | 10,420 | 784 | 15,611 |
| Nov. ${ }^{7}$ | 71 |  |  | 10,361 | 783 | 15,570 |
| 14 21 | 71 | 5,570 $\mathbf{5 , 4 8 7}$ | 274 275 | 10,334 10 1033 | 790 | 15,582 |
| 21 28 | 71 | 5,487 $\mathbf{5 , 4 6 7}$ | 275 276 | - 10,233 | 794 | 15,463 15 |
| Dec. 5 | 71 | 5,374 | 276 | 10,155 | 796 | 15,439 |
| Dec. 12 | 71 | 5,394 | 276 | 10,177 | 796 | 15,459 |
| 19 | 71 | 5,473 | 276 | 10,309 | 796 | 15,614 |
| 26 | 71 | 5,460 | 276 | 10,323 | 797 | 15,621 |

As a result of the continued maintenance of the volume of bank credit outstanding, interest rates have continued very high and have shown a marked rising tendency. The commercial rate of interest is now 6 per cent or higher, while call rates during the month ran as high as 18 per cent and were only temporarily reduced to moderate levels. These rates represent conservative tendencies in the loan policies of banks, but as the reports of the Board from the various Federal Reserve districts show, the higher trend in interest rates in the
cities has not as yet been fully paralleled by rates in the southern and western parts of the country.
Conditions not only at Federal Reserve Banks, but throughout the member banks of the system, as thus indicated, led the Board on December 11 to authorize an advance in discount rates, while by a readjustment of rates the differential in favor of paper secured by Government obligations other than Treasury certificates of indebtedness was eliminated. The following table shows the new discount rates just referred to, and indicates a general level for 90 -day commercial rediscounts amounting to $4 \frac{3}{4}$ to 5 per cent. At the corresponding date last year the rates were generally $\frac{1}{2}$ to $\frac{3}{4}$ per cent lower for Government secured paper, commercial discounts being about as at present. Upon the present basis the rate is substantially the same throughout the system, varying in the case of most of the banks not more than about one-fourth of 1 per cent, irrespective of whether the paper is commercial in character or is secured by Government obligations.

| Foderal Reserve Bank. | Discounted bills maturing within 90 days (including member banks' 15-day collateral notes) secured by - |  | Trade acceptances maturing 90 days. ${ }^{3}$ | Agricultural and live-stock paper maturing to 180 days. |
| :---: | :---: | :---: | :---: | :---: |
|  | Treasury certificates of indebtedness. | Otherwise secured and unsecured. ${ }^{1}$ |  |  |
| Boston. | ${ }^{3} 4 \frac{1}{2}$ |  |  |  |
| New York.... | $4{ }^{4}$ | 4 ${ }^{3}$ | 4 | 5 |
| Philadelphia..... Cleve'and...... | $4{ }_{4}^{4}$ | 4 | $\frac{4}{4}$ | 5 |
| Richmond...... | $4{ }^{\frac{1}{2}}$ | 4 | 4 | 5 |
| At'anta.......... | $4 \frac{1}{2}$ | $4{ }^{4}$ | 4 | 5 |
| Chicago......... | $4 \frac{4}{4}$ | ${ }_{4}^{4 \frac{3}{3}}$ | 4 | 5 |
| Minneapolis.......... | $4 \frac{1}{3}$ | 64 | $4{ }^{3}$ | 5 |
| Kansas City.... | $4 \frac{1}{2}$ | 5 | 5 | 5 |
| San Francisco.. | $\stackrel{4}{4}$ |  |  |  |

[^0] higher.
Yate also applies to bankers' acceptances discounted by the
${ }^{3}$ Kate of $4 \frac{1}{2}$ per cent on paper secured by $4 \pm$ per cent certificates.
4 Rate of 43 per cent on momber banks' collateral notes secured by $4 \frac{1}{6}$ per cent certificates.
${ }^{6}$ Rate of 5 per cent for maturities 61 to 90 days
Note.-Acceptances purchased in open market, minimum rate 4 per

It is thus seen that, with the exception of Minneapolis, all the banks have adopted a uniform rate for all commercial paper maturing within 90 days, the rate in the Minneapolis district being 5 per cent for paper maturing within 61 to 90 days, as against $4 \frac{3}{4}$ per cent for shorter maturities. The differential established during November between rates on paper secured by $4 \frac{1}{4}$ per cent Treasury certificates and paper secured by $4 \frac{1}{2}$ per cent certificates has also been eliminated by most of the banks through the adoption of a uniform $4 \frac{1}{2}$ per cent rate for paper secured by all classes of Treasury certificates. These changes have brought about a great simplification in the Federal Reserve System's rate structure.
The effect of this adrance in discount rates was decidedly less than was the influence of that which had been authorized on November 4, due to the fact that the influence of the second increase of December 11 was directly in line with the policy which had already been initiated on November 4. In New York the announcement of the new rates was followed by a day or two of high call interest charges and of active liquidation, while a similar effect, although in less pronounced degree, was observable at other points throughout the country.
In this connection reference may be made to a letter transmitted by the Board to Federal Reserve Banks under date of December 19 in which a new method of figuring deposits upon which reserve is to be computed was laid down. In accordance with an opinion of counsel the Board now rules that beginning with February 12, 1920, the reserve to be carried by Federal Reserve Banks against deposits will be computed against immediately available deposits only. Items on the liability side whose availability is deferred and uncollected items on the resource side of the bank statement of condition will be disregarded in determining the deposit liability upon which reserve is computed. This action will tend to apply a more severe standard of computation,
especially in the case of those banks which have been carrying a relatively large "float."
Early in 1918 the Federal Reserve Board was informed of a disposition
Increased rates
on bank balances. on the part of large banks throughout the country to indulge in sharp competition for bank balances and to offer inducements in the way of increased rates of interest. At that time the Board was consulted by representative bankers and an adjustment was arrived at. Upon the understanding then reached, the Clearing House banks of New York agreed to fix a rate of $2 \frac{1}{4}$ per cent on bank balances payable on demand, with the proviso that the interest rate would be automatically advanced or reduced onequarter of 1 per cent with each advance or decline of one-half of 1 per cent in the 90 -day rate at the Federal Reserve Bank of New York. This rate is now $4 \frac{3}{4}$ per cent, and should it be advanced at any time to 5 per cent the rate of interest paid by New York banks for out-of-town bank balances would advance automatically to $2 \frac{1}{2}$ per cent, and a $5 \frac{1}{2}$ per cent rate at the New York reserve bank would advance the interest rate on bank balances automatically to 23 per cent.

The Board wishes to be free to approve such discount rates as conditions may make necessary or desirable, but it is anxious at the same time to avoid a disturbance of the whole banking situation such as would most likely result from an advance in the interest rate allowed on out-of-town balances by the New York Clearing House banks, or banks in other large centers.

The Board has decided, therefore, to invite representatives of the clearing houses from all parts of the country to meet together in Washington on Tuesday, January 6, 1920, for the purpose of discussing this matter in the hope that some way will be found of abrogating the existing entangling alliance between Federal Reserve Bank discount rates and interest rates on deposits without endangering existing banking relationships.

The month of December has been a period of unusual uncertainty and dis-
Foreign ex- organization in the foreign exchange and for- change market. A remarkeign credits. pean quotations occurred between the beginning and the 14th of the month, directly ascribable to the excess of our exports to, over imports from, the countries which were primarily affected. Generally abnormal conditions now exist in the exchange market. Current items are not being settled continuously as before the war, while many exporters are "carrying" their foreign customers upon open account. In the following table are furnished figures designed to set forth some of the more interesting movements occurring during the month at selected dates. In each case the low quotation for the day mentioned has been cited.

|  | Nov. 29. | Dec. 6. | Dec. 13. | Dec. 20. |
| :---: | :---: | :---: | :---: | :---: |
| England........................ | 3.908 | 3.845 | $3.65 \frac{1}{2}$ | 3.711 |
| France.......................... | 9.84 | 10.75 | 11.87 | 11.35 |
| Italy. | 12.28 | 12.77 | 13.60 | 13.22 |
| Spain. | 19.60 | 10.65 | 19.50 | 18.70 |
| Argentina...................... | 43.125 | 43.25 | 43.15 | 43.125 |
| Eongkong. . . . . . . . . . . . . . . . | 100.00 | 101.75 | 100.50 | 99.00 |
| China (Shanghai)............. | 150.00 | 150.00 | 159.00 | 164.00 |
| Japan.......................... | 50.311 | 50.50 | 50.50 | 50.50 |

Canadian exchange has also been quoted as low as 11 per cent off, although during the latter part of the month there was recovery.

These conditions in the exchange market have been the subject of close scrutiny and continuous discussion on the part of both domestic and foreign authorities. Public statements made by various British economists and publicists have been based upon what was considered to be the necessity of obtaining from the United States definite action designed to alleviate what they thought to be a wholly abnormal and distressing condition. In several countries, notably in the Central Empires, the exceedingly low value of the currency has been such as to make importation from the United States very difficult. The abnormal exchange situation is in part due to the extreme depreciation of many foreign currencies as compared with gold in their home markets, and is not entirely assignable to the derangement of imports and exports between the United States and other countries.

According to the reports made public by the Bureau of Foreign and Domes-
Foreign trade tic Commerce, November foroutlook. eign trade figures (issued on Dec. 23), show a continuously increasing balance of trade in favor of the United States. This balance for the whole of the year 1919, it is now estimated, will run well up toward $\$ 4,000,000,000$. The November figures not only show no sign of slackening in the movement of goods but even indicate an increase, though it should be noted that there has also been a marked increase of importations. The net excess of exports over imports for the month is, however, $\$ 311,710,086$, a figure in excess of the balance for the preceding month. While, however, figures for the volume of United States exports are thus very large, it is to be recalled that they have attained this great size largely as a result of the high prices of commodities and that they do not represent a corresponding increase in the number of units of goods exported. Indeed, in some branches of business there has been a distinct falling off in the actual volume of goods shipped.

The following condensed table shows the export trade situation as indicated by the figures made public on December 23-an 11month showing.


The problem thus presented by our export trade situation is one of the utmost importance in connection with international trade and with the continuance of active business conditions in the United States.

For several months past it has been the belief of foreign trade authorities that the growingly unfavorable rates of exchange would form an impenetrable obstacle and that as a result of the lack of systematic foreign credits a considerable falling off in our shipments would take place. In considering this prediction and its apparent nonfulfilment, there is, however, to be borne in mind the fact that the growing volume of exports to which reference is made is in terms of money and not in volume of goods, foreign countries now being obliged to pay far higher values for raw materials than they did even a few months ago. On the other hand, it should be remembered that as yet time has not been afforded for establishing the results of the present credit situation in foreign trade. Whatever the amount of credit extended through the efforts of banks and commercial houses to European buyers may be, it is different in its character and effect as well as in its volume from the credit extended through the use of Government funds up to a period shortly after the conclusion of the armistice at the end of 1918. Some American export houses have been financing their foreign customers to a considerable extent either by carrying them on open account or by leaving credit balances due themselves on deposit with foreign banks. Such houses are of course obliged to resort to their own banks for larger accommodation than they would otherwise need, so that the indirect extension of credit from banking sources in support of foreign trade may be very considerable, although it does not result in an immediate and complete cancellation of indebtedness such as occurred when the Treasury advanced the proceeds of public loans for the use of buyers representing European nations.

In view of the continuance of very high exports to European countries, Foreign trade the action of Congress and the President in definitely placing the so-called "Edge Act" upon the statute books becomes a matter of moment. Action upon the conference committee's report regarding this measure having been taken by the Senate on December 15, the President on December 24 signed the measure, thus enacting it into law. The provisions of the bill have been fully set forth in general terms in past issues of the Bulletin and do not need detailed review at this time. It is, however, important to note that the measure in the form in which it has been enacted calls for action by the Federal Reserve Board in order to carry its terms fully into effect. The Board has jurisdiction of the procedure relating to the organization of corporations under the act and is also required to regulate the conditions under which the corporationsmay operate in numerous important respects, including the terms and conditions upon which bills and drafts may be accepted and those upon which debentures, bonds, and promissory notes may be issued, while the Board is given general authority to determine what powers the concerns may exercise as incidental to the powers conferred by the act or as usually exercised by similar corporations. Whenever an Edge Act corporation receives deposits in the United States it is required to carry reserves in such amount as the Board may prescribe, but in no event less than 10 per cent of those deposits. To the Board also is assigned the duty of passing upon applications made by any such corporation to purchase and hold stock in other corporations organized under the terms of the Edge Act, under the terms of any State law, or under the laws of any foreign country. Other functions in connection with the eligibility of directors on the boards of the new corporations are intrusted to the Federal Reserve Board, to which the various corporations are
required to report and by whose examiners they are to be examined. These numerous details in connection with the organization and operation of the proposed corporations will require the issue of regulations or instructions designed fully to cover the points specified in the law. Such regulations are already under advisement and the Board expects to make them public without delay to the end that there may be no further postponement of action under the terms of the law by those who desire to take advantiage of its provisions. The question how far the proposed organization will be able to furnish effective aid under existing conditions to European countries is one upon which no definite opinion can be expressed, but which will depend not only upon the number and scope of the new concerns, but also upon the extent to which investors all over the United States respond to the offer of debentures to be issued by them.

The fact already referred to that low quotations of foreign currencies are

## Currency

 changes. in no small degree merely a reflection of the fact that these currencies are depreciated at home is clearly realized by foreign banking authorities. This is shown by the action of the British Exchequer, announced on December 18, in fixing the volume of British secured circulating currency notes at a figure identical with the maximum which has existed during the past year. This circulation has increased during 1919 about $£ 38,000,000$. It will be remembered that the so-called "Cunliffe Committee," which reported in 1918 and whose report was then published in the Federal Reserve Bulletin, pointed to a limitation of the volume of Government issues of all kinds as a cardinal principle in the restoration of sound financial conditions in England. The action now taken would seem to be an acceptance of this view then expressed. If adhered to, the policy would mean a distinct limit to further currency inflation in Great Britain, as any further demands for circulation would have to be met from bank reserves as they were when England was on a gold basis. In this connection it isinteresting to note an increase in the volume of Bank of France notes of $1,433,671,000$ francs, while the increase of Federal Reserve notes during the past year amounts to nearly $\$ 372,000,000$. In all such cases the real question to be determined is whether the increase of notes issued represents a corresponding growth of business transactions which carry with them their own power of "liquidation," or whether they are in effect a conversion of Government bonds or other obligations into terms of money. The action taken by Great Britain parallels the policy adopted by Congress after the close of the Civil War in fixing the volume of greenbacks at a specified maximum which could not be exceeded. Contraction of currency or of credit in general may be effected through change in the backing or protection which supports the issues or in lieu of such far-reaching action, a first step may be taken through the policy of maximum limitation which the British Government is now reported to have adopted. In the United States the question to be considered in connection with the currency would naturally be how far the growth in its volume corresponds to a growth in the volume of current production and business. Indices of the physical volume of trade, which have been collected by the Board during the past year, point to a shrinkage in production. As has often been stated in the Bulletin, these indices are as yet incomplete. The conclusion to be drawn from them as they stand is, however, supported by the comparison of ton-mile freight movements on American railroads. Such a comparison tends to show an even heavier falling off, although here it should be remembered that during the war the high movement of war freight to export points produced an artificial level of comparison. The indications at all events are clearly to the effect that there has been some decrease rather than an increase in the country's general output.
While the question of private action in the financing of European needs
Aid for Europe. has thus been practically referred to the bankers and investors of the
country, the question of governmental intervention is still under discussion in the press. The Secretary of the Treasury in his annual report to Congress, transmitted at the opening of the session, calls attention to the situation and expresses the opinion that-
"inequalities of exchange reflect not only the trade and financial balance between two countries, but, particularly after a great war such as that we have been through, the inequalities of domestic finance. The United States has met a greater proportion of the cost of the war from taxes and bond issues than any other country. Largely as a consequence of this policy, the buying power of the dollar at home has been better sustained than has the buying power at home of the currency of any European belligerent. For the United States to determine by governmental action to depress the dollar as measured in terms of foreign exchange and to improve the position of other currencies as measured in terms of dollars would be to shift to the American people the tax and loan burdens of foreign countries. This shifted burden would be measured by the taxes to be imposed and the further loans to be absorbed by our people as a consequence and by increased domestic prices. United States Government action at this time to prevent in respect to foreign exchange the ordinary operation of the law of supply and demand, which automatically sets in action corrective causes, and to prevent the dollar from going to a premium when its natural tendency is to do so, would artificially stimulate our exports, and through the competition of export demand with domestic demand, maintain or increase domestic prices."

Although thus expressing in unmistakable language the general view of our financial relations to Europe which has been the consistent policy of the Treasury ever since the conclusion of the armistice and which is generally accepted as the sound one, the Secretary of the Treasury is disposed for humanitarian reasons to modify his attitude in so far as relates to the relief of immediate suffering. In a letter to Congress dated

December 18, Mr. Glass said that "in order to meet the urgent necessity of keeping the destitute populations of Europe alive ${ }_{2}$ through this winter, there must be taken at once measures for their relief. The resources and efficiency of the private charities of this country are not adequate to the necessities which can not in the nature of the case be financed through ordinary private channels." Congress had already been advised that it was the desire of the department to fund the maturing interest obligations of allied Governments to which we had made loans during the war, in so far as such Governments might deem action of the kind necessary and in so far as it might be deemed wise by Treasury authorities to make this concession to them. The Treasury is considering with representatives of the Governments of the Allies the funding of the demand obligations which the United States holds into long-time obligations, and at the same time the funding during the reconstruction period, or, say, for a period of two or three years, of the interest on the obligations of foreign Governments acquired by the United States under the Liberty loan acts. The relief thus furnished by the action of the department should in an important degree alleviate the necessities of the European financial situation by relieving European Governments of the necessity of providing a volume of exchange which may be roughly estimated as $\$ 500,000,000$ per annum in order to meet their current indebtedness to the United States.

One of the important phenomena of the Silver situation. past month has been the rapid advance in the price of silver, both in the London and New York markets. This advance has carried the value of the metal as high as $\$ 1.3575$ in the United States. In the following table the course of silver prices during the past few years is briefly sketched, with more detailed figures covering the years 1918 and 1919.


Average monthly New York prices of fine bar silver per ounce.

| Year and month. | Average <br> New York price of fine bar silver per ounce. | Year and month. | Average New York price of silver per ounce. |
| :---: | :---: | :---: | :---: |
| 1918. |  | 1919. |  |
| January.... | \$0.93927 | January... | \$1.01558 |
| February. | . 8929514 | February. | 1.01500 |
| April. | . 98394 | April. | 1.01500 |
| May.. | 1.00003 | May... | 1.08020 |
| June. | 1.00010 | June. | 1.11402 |
| July... | 1.00000 | July.. | 1.07332 |
| August.... | 1.00692 1.01492 | August..... | 1.12386 |
| October. | 1.01500 | October. | 1. 20692 |
| Novembe | 1.01500 | November | 1.30446 |
| December | 1.01587 | December | 1.33072 |
| Average for year. | . 98446 | Average for year.. | 1.12085 |

The situation has been such as to tend to stimulate the movement of our exports to oriental countries in precisely the same way that the unfavorable conditions of exchange in relation to Europe have tended to hamper the sale of our goods in those countries in which the dollar was at a premium. The brief table already furnished at an earlier point in this issue shows how the dollar in trade with oriental nations has tended to fall below par, just as exchanges upon the European belligerents have shown the dollar at a quotation very far above par. At the same time there has been heavy exportation of silver from the United States to oriental countries, the aggregate shipments of the metal between January 1 and

December 10, 1919, showing a net excess of exports of about $\$ 145,000,000$. In view of the conditions thus indicated by the movement of silver bullion out of the country to the Orient, announcement was made on December 6 that under arrangements made between the Treasury and the Federal Reserve Board standard silver dollars that are free in the Treasury will until further notice be delivered against other forms of money to the Division of Foreign Exchange of the Federal Reserve Board, which will through the Federal Reserve Bank of New York, cooperating with the branches of American banks in the Orient, employ such dollars in regulating our exchanges with silver standard countries. It was noted that the arrangement referred to can not of course affect the redemption of outstanding silver certificates in standard silver dollars.

Further changes in the price level have occurred during the month of Changes in the December. The index number price level. $\quad$ of the Bureau of Labor for the month of November showed an upward movement of 7 points, while Sauerbeck's index number for Great Britain shows a parallel movement of 8 points as compared with 1913 as a base, or 7 points compared with its original base. These changes continue to be of large importance, as has been noted by the Bulletin in the past, in their bearing upon both economic and social conditions through their influence on wages and other forms of income. They are also exercising an influence upon investment conditions. As prices advance and money loses in its purchasing power, the market tendency is to increase the rate of interest to be required for the use of capital. There has been some indication of changes in this regard as evidenced in the lowered value of investment securities. Careful analysis of the situation, however, shows that the change in the cost of capital which has occurred during the past few months has been far less than that which has taken place in the value of goods. A survey of the situation recently made for the Federal Reserve Board would indicate the following results:


These net yields after taxes were obtained by deducting 12 per cent from the bond and note yields, except municipals (which are not subject to Federal tax), and 6 per cent from the yield of preferred stocks.

It is worthy of note that upon the basis of these estimates the gross price of capital obtained through the issue of industrial bonds has gone up 0.92 per cent; and of this, the war taxes account for 0.79 per cent, while the rise in the price of capital, meaning net to the investor, accounts for only 0.13 per cent. So great has been the effect of the enlarged earning power of the industrial companies upon the credit of the companies that industrial notes and preferred stocks apparently yielded at the time of this estimate actually less in the net than they did in 1913.

During the month ending December 10 the
Gold and silver movements. net outward movement of gold was $\$ 54,688,000$, as compared with a net outward movement of $\$ 44,950,000$ for the month ending November 10. Net imports of gold since August 1, 1914, were $\$ 792,073,000$, as may be seen from the following exhibit:


1 Excess of exports over imports.
Gold imports for the monthly period, amounting to $\$ 4,554,198$, were received principally from Canada, New Zealand, Belgium, and

Mexico. Of the gold exports, amounting to \$57,797,769, \$21,050,000 were consigned to Argentina, $\$ 19,035,474$ to Japan, $\$ 4,494,415$ to Hongkong, \$3,953,780 to British India, \$1,986,453 to China, and $\$ 1,200,000$ to Spain, the remainder going principally to Mexico, Straits Settlements, Panama, Canada, and Dutch East Indies. Since the removal of the gold embargo on June 7 total gold exports have amounted to approximately $\$ 331,673,000$. Of this total about $\$ 92,635,000$ were shipped to Japan, $\$ 54,050,000$ to Argentina, $\$ 34,686,000$ to China, $\$ 36,094,000$ to Hongkong, $\$ 31,954$,000 to British India, and $\$ 29,200,000$ to Spain, and the remrinder largely to Uruguay, Venezuela, Dutch East Indies, Mexico, and Canada. The net outward movement of gold since the removal of the embargo was approximately $\$ 308,946,000$.

During the same monthly period the net outward movement of silver was $\$ 29,168,000$, as compared with a net outward movement of $\$ 1,688,000$ for the month ending November 10. Net exports of silver since August 1, 1914, were $\$ 424,603,000$, as may be seen from the following exhibit:
[In thousands of dollars, i. $0 ., 000$ omitted.]


Almost three-fourths of the silver imports for the most recent monthly period, amounting to $\$ 7,649,000$, were received from Mexico; Salvador, Canada, Chile, and Peru furnishing most of the remainder. Of the silver exports, amounting to $\$ 36,817,000$ (as against $\$ 9,577,000$ the month before), $\$ 27,271,000$ were consigned to China, $\$ 3,554,000$ to Hongkong, $\$ 3,221,563$ to Canada, and the remainder principally to the Netherlands and Mexico.

During the "four weeks between November 21 and December 19 member The banking banks in the leading cities report net liquidation of 8 millions of United States bonds and of 33.6 millions of Victory notes, as against an increase of 23.3 millions Treasury certificates, following the latest issue of tax certificates on December 15. War paper holdings, exclusive of amounts rediscounted, show a decline of 37.6 millions, due largely to redemption by the Government at or before maturity of Treasury certificates. The net decrease for the 4 weeks in the aggregate holdings of United States war securities and war paper, 56 millions, is, however, more than fully offset by increases of 49.6 millions in the total of loans secured by stocks and bonds and of 157.6 millions in other loans and investments. On the other hand, these banks reduced their bills payable with the Federal Reserve Banks by 208.4 millions, so that, on the whole, their net loans and investments show but little change for the period under review. Payment of income and excess-profits taxes due on December 15 resulted in a considerable reduction of their net demand deposits, the amount carried by reporting banks on December 19 being 148 millions less than four weeks before. For the same period the banks report an increase of 416.2 millions in their Government deposits.

Data for the Federal Reserve Banks, available for the 5 -week period ending December 26, indicate a gradual reduction in the holdings of war paper to $1,414.9$ millions on December 19 (a decrease of 258.9 millions since November 21) and a gain of 95.4 millions for the following week. Other discounts show a continuous growth, the December 26 total being 233.8 millions in excess of the corresponding November 21 figure. Fifteen-day paper, which constituted about 83 per cent of the total discounts held by the Federal Reserve Banks on October 31, the Friday preceding the adoption of the new rate schedule, which did away with the differential between 15 -day and 90 -day war paper in nearly all districts, constituted 68 per cent of the total discounts held on the last Friday in 1919. Acceptances on hand in-
creased from 480 to 585.2 millions, a new high record, while total earning assets likewise reached a record total of $3,080.5$ millions, an increase since November 21 of 163.6 millions. Net deposits reached the low level of $1,610.9$ millions on December 19, following the heavy tax payments due on December 15, and on the following Friday stood at $1,704.5$ millions, a decrease of 142.3 millions since November 21. Loss of 40.9 millions in gold reserves and 51.4 millions in total cash reserves were caused apparently to a large extent by export withdrawals of gold and silver. Federal Reserve note circulation shows an increase for the five weeks of 240.4 millions, or at an average weekly rate of about 48 millions, the increase being especially marked during the last two weeks of the year. As a result the reserve ratio of the banks shows a decline from 46.9 to 44.8 per cent.

Under date of December 27, 1915, the Resignation of Federal Reserve Board pubdirectors. lished the following resolution:
Whereas, it is the opinion of the Federal Reserve Board that persons holding political or public office in the service of the United States, or of any State, Territory, county, district, political subdivision, or municipality thereof, or acting as members of political party committees, can not consistently with the spirit and underlying principles of the Federal Reserve Act, serve as directors or officers of Federal Reserve Banks.
Resolved, That the Federal Reserve Board hereby expresses to the member banks its opinion that no such persons should henceforward be elected or act as directors or officers of Federal Reserve Banks; and prescribes as a condition of eligibility that candidates for election shall comply with the terms of this resolution.
Resolved further, That copies of this resolution be sent to every member bank and Federal Reserve Bank and to all directors of Federal Reserve Banks.

In accordance with the spirit and purpose of this resolution, two resignations from Federal Reserve Banks have occurred. Col. William B. Thompson has resigned as class B director of the Federal Reserve Bank of New York to become chairman of the Republican National Ways and Means Committee, and Mr. William C. Procter has resigned from the board of the Cincinnati branch of the Federal Reserve Bank of Cleveland.

## Federal Reserve Banking in 1919.

During the calendar year 1919 activities of the Federal Reserve Banks continued in undiminished scope and volume. Cessation of actual hostilities did not end the war work of the banks, and loan operations for the Government in close harmony with the Treasury, involving the flotation of the last popular war loan and the placing of the several issues of loan and tax certificates, continued to be one of the leading if not the leading function of the Federal Reserve Banks. This task involved collection, concentration, and disbursement on Government account of 15,669 million dollars, of which $4,491.5$ millions represents the total of the Victory loan allotted; 6,754.4 millions the combined amounts of eight series of certificates issued during the year in anticipation of the Victory loan and of four series of the so-called loan certificates; and 4,423 millions the total of eleven series of certificates issued in anticipation of income and excess profits taxes due in 1919 and 1920.

The success of these issues was due in part to the accommodation accorded to member banks through the discount at preferential rates of so-called war paper-i. e., member banks' own notes and customers' paper secured by United States war bonds and certificates. Reported holdings of war paper, which totaled slightly over 1,400 millions at the close of 1918 and reached a maximum of $1,863.5$ on May 16, about the time of the consummation of the Victory loan, when war paper constituted 91.4 per cent of the total discounts held by the Federal Reserve Banks, gradually declined to $1,383.9$ millions, or 84.1 per cent of the total discounts held by these banks on September 19. Between that date and the middle of November these totals followed an upward course. Since then, as the result of rate revision, the amount of war paper has gone down to $1,510.4$ millions, or 68.8 per cent of the total discounts held on December 26. Of this total, 732.4 millions, or 48.5 per cent, were secured by Liberty bonds, 337.7 millions, or 22.3 per cent, by Victory notes, and 440.3 millions, or
29.2 per cent, by Treasury certificates. Other discounts, which aggregated 302.5 millions at the close of 1918, continued at a comparatively low level during the greater part of the year. It was only at about the close of September that the discounts of ordinary commercial paper began to show material increases. On December 26 holdings of this class of paper aggregated 684.5 millions, and constituted 31.2 per cent of the Federal Reserve Banks' total holdings of discounted bills, as against less than 18 per cent the year before. Acceptances on hand, which totaled 303.7 millions on December 27, 1918, moved within moderate limits during the first part of the present year. About the end of June the total for the first time in the year was in excess of 300 millions. During the last two months of the year, however, the accumulation of acceptances in the portfolios of the Federal Reserve Banks proceeded at a rapid pace, the total held on the last Friday of the present year, 585.2 millions, being over 21 per cent of the total bills held by the Federal Reserve Banks, compared with 15 per cent the year before.

During the year the banks' holdings of United States bonds show a reduction from 28.9 to 26.8 millions, the present holdings comprising largely circulation bonds and 3 per cent conversion bonds and, only to a very small extent, Liberty bonds. An increase since January 3 of 148.4 millions in Treasury certificate holdings represents largely additional investments of the banks in one-year 2 per cent certificates to secure Federal Reserve bank-note circulation. Total earning assets increased during the year from $2,318.2$ to $3,080.5$ millions, or nearly 33 per cent.

During the earlier part of the year, while the gold embargo was still in force, and between August and November, the banks' gold reserves were increased through net imports of gold and through the acquisition of German gold and its transfer to London. These gains were practically offset, however, by the amount of gold withdrawn for foreign shipments, largely to Spain, Argentina, and the Far East,
with the result that gold reserves at the close of the present year, $2,078.4$ millions, are 11.9 millions less than a year ago. Total cash reserves show a similar decline from 2,146.2 to $2,135.5$ millions.

As against moderate changes in the banks' reserve holdings, their net deposits, because of the increase in membership and in consequence of the general credit expansion, show an increase during the year from $1,552.9$ to 1,704.5 millions. Federal Reserve note circulation on the last Friday in 1918 totaled $2,685.2$ millions. During the early part of the present year there was considerable contraction of the note circulation, followed by moderate expansion up to the close of September, when the notes in circulation totaled $2,655.3$ millions. Since then the volume of circulating notes has increased by over 400 millions, or at an average weekly rate of over 30 millions. In addition there has been an increase during the year of 143.9 millions of Federal Reserve bank notes in circulation, issued largely to take the place of silver dollars melted and silver certificates withdrawn from circulation under the Pittman Act.

The reserve position of the banks until the close of September shows but little change, the
ratio of cash reserves to aggregate deposit and note liabilities during the entire period, except on July 11, continuing above 50 per cent. Substantial growth of deposit liabilities during October and November and the large note issues during the last two months, coupled with a simultaneous loss of about 70 millions in reserves, account for the considerable decline in the reserve ratio during the latter part of the year. On the last Friday of 1919 the reserve ratio stood at 44.8 per cent, compared with 50.6 per cent on the corresponding date in 1918.
Some indication of the growth of the system is afforded by the comparative figures of paidin capital, which show an increase during the year from 80.7 to about 87.3 millions, or 6.6 millions, corresponding to an increase in the aggregate capital and surplus of member banks of 221.9 millions, as the result of accession of new members and increasein the capitalization of existing member banks. The largest relative gains in paid-in capital are shown for the San Francisco, Chicago, and Kansas City banks, while the largest increases in the number of banks admitted to membership during the year are reported for the San Francisco, Chicago, and Cleveland districts.

## BUSINESS AND FINANCIAL CONDITIONS DURING DECEMBER, 1919.

Great activity in retail trade, strong demand for goods and consequently large volume of buying orders at manufacturing plants, high and rising prices throughout the country, and full employment of labor at unprecedented wages, except in those cases where employment has been rendered unsteady or insecure as the result of strikes or labor disturbances, are the principal factors reported by Federal Reserve agents from their several districts. General anxiety concerning the continued advance in prices is exhibited, while unfavorable foreignexchange rates are regarded as likely to bring about a reduction in exports which may necessitate some readjustment of domestic industry. Labor disturbances during the month of December have on the whole been less severe than in November, both the steel and coal strikes reaching a practical conclusion followed by resumption of work.

In practically all districts primary emphosis is placed on the general distribution of purchasing power and the freedom with which recipients of wages and salaries are expending their means in the purchase of goods. District No. 1 reports that "the year closes with New England industries stimulated by post-war conditions to a degree of peace-time activity unparalleled in the economic history of this section." In district No. 2 high prices and active trade exist, and both manufacturers and distributors of dry goods, textiles, hardware, footwear, and similar merchandise " are sold up ahead as far as they will take orders." Credits have been shortened and production is far short of demand, but cautious manufacturers are disinclined to commit themselves far in advance. Banking expansion has been somewhat stayed. In district No. 3 it is stated that "the enormous demand for commodities of all kinds has been far from satisfied. Unsatisfied demand is reflected in higher prices." District No. 4 takes the view that "with no thought of price, with little provision for the future, our people almost without exception are de-
manding goods, especially luxuries * * *. The signing of the armistice was apparently the signal for an outburst of the buying fever which has not yet reached its height." In District No. 5 high prices for crops have furnished a stimulant to trade from which no considerable reaction is yet apparent. Demand at manufacturing establishments is unabated. District No. 6 speaks of "remarkable commercial activity and expansion" and asserts that "the volume of holiday trade generally during the month appears to be greater than has ever been experienced." The Federal Reserve agent at Atlanta, however, remarks that in some cases business is about stable in the volume of goods, although "in money there has been quite an increase in the business done." From district No. 7 it is reported that "business is good," the demand for bank accommodation has continued heavy and business has rapidly "picked up the slack caused by the coal shortage and fuel conservation restrictions." In district No. 8 collections are good and business is large, labor difficulties are less than heretofore, but "high prices are exerting a restraining influence on buying," although even where the volume of merchandise is smaller, the value of the transactions is larger than last year. In district No. 9 "manufacturing enterprises are very active," demand is strong, there is a shortage of skilled labor in industrial centers, "but retail reports from outlying districts show some slowing up in merchandise sales and a tendency on the part of buyers to hesitate because of high prices." In district No. 10 there is "an extraordinary volume of trade running through the fall months and reaching its highest peak about Thanksgiving. Merchants' stocks are low and the holiday season has been attended by great buying activity and considerable extravagance." In district No. 11 "every line of trade and finance now reflects the year's peak position in trade balances and for the first time in many months the district finds itself not only with
ample funds for its own use but with a healthy surplus which it can lend." In district No. 12, except for seasonal unemployment, "labor is fully employed," no strikes of consequence are in progress, domestic commerce continues active, and real estate sales are very large.

From sundry of the districts it is noted that the growth of business is far more noticeable in terms of dollars than in units of production, while, as just indicated, there are some in which very high prices are already beginning to produce a curtailment of buying power. This appears to be more largely true in the country and outlying districts than in the cities. The banking situation is spoken of as reflecting the high prices of goods in the form of larger demand for accommodation. Increase in the cost of living is referred to as an unquestionable menace and in some districts it is reported that retailers themselves recognize this fact. The "work and save" program is reported by some to be considered hackneyed or obsolete. High wages are resulting chiefly in a reduction of labor time. According to one report "much of our skilled labor works only sufficient days during the month to keep going. The effect of excessive wages has been that of destroying regular standards of living and the recognized basis of prices."

In districts whose products are predominantly agricultural the usual midwinter intermission of activity has set in. In the graingrowing regions early snowfall and severe cold weather has done harm, particularly to the livestock prospects. On the Pacific coast unfarorable climatic conditions during the early planting season retarded the sowing of wheat so that in Washington the acreage of winter wheat will be only 60 to 70 per cent and that of Oregon 90 to 93 per cent of normal. However, in the dry-farming sections of Utah and southern Idaho there has been much larger sowing of fall grain than in 1918. In district No. 10 acreage of winter wheat is considerably less than last year. In the cotton States the crop has been relatively small and the yield per acre low, but prices have been at a record level. Wheat sowings in Tennessee are about 60 per cent of last year's and in other Southern

States early rains have prevented plowing for wheat from obtaining its full scope. In district No. 4 and especially in Ohio, winter wheat seeding is reported very late, while the very late seeding naturally went into the winter with practically no growth and a doubtful ultimate result. Fodder is reported to have been severely damaged. District No. 5 reports that the season now drawing to a close has been a fair one for the harvesting of crops. Cotton has been more closely picked than last year, and the demand for tools, horses, mules, and fertilizers indicates extensive preparation for next year's crops. Some cotton is still being held, but the crop generally appears to have been rapidly picked, ginned, and sold.

Receipts of cattle at 15 primary markets during November were $2,046,664$ head, corresponding to an index number of 203, as compared with $2,317,487$ head during October and $2,053,359$ head during November, 1918, the respective index numbers being 230 and 204. The receipts of sheep are slightly in excess of those during November, 1918, being $1,743,189$, as compared with $1,677,537$ last year, and 2,405,511 during October, 1919, the respective index numbers being 128, 123, and 176. Receipts of hogs, however, are considerably less than at the same time last year, showing a decline from 3,431,782 head, corresponding to an index number of 156 during November, 1918, to $2,715,955$ head, corresponding to an index number of 124 during November of this year, as compared with $2,160,079$, corresponding to an index number of 98 during October. From Kansas City it is reported that November receipts of cattle and sheep at the six markets of that district were 15 and 36 per cent, respectively, below the October record, while receipts of hogs were 13 per cent larger than in October. Reports at the middle of December indicated more liberal supplies of cattle and sheep, but largely reduced supplies of hogs as compared with the marketings for the same period last year. Hogs marketed in November showed an increased weight as compared with November, 1918, while December has brought still further reduction in the prices of hogs. It is reported from Chicago that although the
average price of live hogs in November was only $\$ 14.20$, as compared with $\$ 17.70$ a year previous, the average price for December is considerably lower. Cattle prices have also declined since the October report. The sale of the War Department's entire surplus of frozen beef is not expected to affect the market very materially.

Grain shipments are reported unusually slow, partly owing to coal shortage and consequent reduction of warehouse accommodations. For the period from December 1 to December 18 it was reported from the Minneapolis district that a severe shortage of cars has existed and that there has been the utmost difficulty in securing cars for the shipment of stock and farm products. Country elevators are full of grain and all movements of loaded cars are slow. On the Pacific coast farmers are holding spring seed wheat in anticipation of having to reseed. Winter feeding of live stock on the Pacific coast has begun much earlier than was expected, but in spite of this there was a heavy demand for cattle for feeding and the stockyards report the quality offered superior to that of a year ago.

A large amount of paper is said to be offered by cattle loan companies in consequence of the heavy movement of cattle from the drought sections of Montana, Wyoming, and Kansas toward the Southwest for grazing grounds.

Coal production has felt the effect of the strike and has accordingly been low in the bituminous field. The production during November was $20,303,000$ tons, corresponding to an index number of 55 , as compared with $54,579,000$ tons, corresponding to an index number of 147 during October and 43,895,000 tons, corresponding to an index number of 118 during November, 1918. The production of anthracite coal, however, has been well maintained, shipments during November being $5,971,671$ tons, as compared with $6,560,150$ tons during October and $5,276,659$ tons during November, 1918, the respective index numbers being 106, 117, and 94 . In the central Pennsylvania fields the bituminous strike seriously curtailed output. Mines served by the Pennsylvania Railroad produced at 46 per cent of capacity, those served by the New York Cen-
tral at 8 per cent, and those served by the Buffalo, Rochester \& Pittsburgh at 21 per cent of capacity. The Federal Reserve agent at Philadelphia predicts that the total production of bituminous coal for 1919 may be $150,000,000$ tons less than in 1918. Anthracite coal production has been fairly satisfactory, although not quite up to the level of last year. In the fourth Federal Reserve district resumption of work by the miners has relieved what might have been a serious situation, but the supply of cars still seems inadequate to move coal freely to the points where it is needed. The production of coke in the fourth district has also been curtailed by reason of the miners' strike. One phase of the coal strike which has received much attention has been its possible effect upon other industries. On this subject the Federal Reserve agent at Philadelphia remarks that "the effect on the industries of this district has not been very marked, although some mills and factories have been compelled to close down." In Cleveland it is stated that the restriction on fuel supplies necessitated a sharp cut in the production of steel, although a critical stage had only barely been reached when the coal strike was terminated.

Petroleum conditions, as reported from the Kansas City district, indicate the completion of 963 wells, a decline of 76 wells as compared with the October record. The total daily new production from the November completions was 69,131 barrels. Great activity in the effort to speed up production has occurred. An advance of 25 cents a barrel on crude oil has given a new impetus.

The iron and steel industry has been obliged to face sever operating problems and trade and market conditions have accordingly been subordinated for the time being. Toward the end of the coal strike fuel curtailments had been ordered which would have necessitated a very material reduction in steel output. In fact, during the early days of December many blast furnaces were obliged to bank and a number of steel works were also closed. Loss of output has accordingly been suffered by the industry during December, the situation being cumulative as a result of the coal strike and
the steel disturbance. It is estimated that the loss of production during the past three months as compared with the rate of activity prevailing October 1, has been from 2,000,000 to $2,500,000$ tons in iron and steel. In the Atlanta district, however, although the industry was handicapped by the coal strike, there has been a very heavy demand for pig iron, and steel mills, while suffering from the coal strike, have been actively employed. They now have enough unfilled orders on hand to keep them operating at full capacity for many months to come. In Philadelphia pig iron is in strongest demand since the signing of the armistice, and steel products of all kinds are in heavy demand. Production during November was $2,392,350$ tons as compared with $1,863,558$ tons during October, the respective index numbers being 103 and 80. The unfilled orders of the United States Steel Corporation at the close of November were the highest for any month during the present year, being $7,128,330$ tons, corresponding to an index number of 135, as compared with $6,472,668$ tons at the close of October, corresponding to an index number of 123 . The high costs of production now prevailing are proving a serious problem to steel producers, and one large manufacturer in the Philadelphia district has closed his order books until definite costs can be ascertained. Raw materials are advancing, while fuel and transportation charges show possibilities of following in the same direction. Meanwhile, the demand for steel is strong in all lines, various railroads placing tonnages for 1920 delivery. Such orders placed or under negotiations in district No. 4 run from 800,000 to $1,000,000$ tons.
In the copper market producers are reported to confine their sales largely to consumers. Heavy snows in Colorado during the latter part of November resulted in cessation of operations of the smaller operators who work their properties only in the summer. The marked increase in the price of silver has caused many small operations to start, and increased production is anticipated in the course of a few months. Advancing prices of lead and a feeling of certainty that zinc ore prices will also advance is likewise expected
to result in increased activity in the Joplin lead and zinc districts, although operations have been curtailed due to the coal shortage and weather conditions.

In general, manufacturing activity is very great. Shoe manufacturers in the Philadelphia district are now operating with sufficient orders ahead to last until spring, but it is noted that high prices have to some extent tended to check purchasing. In St. Louis the manufacturing of boots and shoes is steady and larger orders are in hand for future delivery than ever before. Leather is reported to continue to decline in value, being particularly marked in lower grades. Tanners are reported to be cautious in the replenishment of stocks of hides which have likewise shown a decrease in price. In shoe manufacturing and leather, New England tanners are inclined to be cautious. Materials for women's fine shoes are still rising in price. No early reduction in the cost of footwear is foreseen, but the public is beginning to show a more conservative attitude as to purchasing. Clothing manufacturers report very large orders, future demand exceeding normal, while November business was about on a par with the corresponding month a year ago. Manufacturers of woolens in district No. 3 have not kept up with demand and values are extremely high. At the New England wool sales during the past month the demand for fine grades continued and far western wools are being purchased in advance of harvesting. Manufacturers are sold out for months ahead at high prices, chiefly for an output of fine fabrics, but there are hopeful indications for an increasing demand for wools of a lower grade. In silk goods demand is unprecedented and prices are the highest ever received. Raw materials can be obtained in fair volume and with reasonable ease, but only at very high prices.

In New England manufacturers of fine cotton fabrics have not yet developed a policy with respect to taking on business, but many have sold practically their entire anticipated output for the first quarter of 1920, and others have engaged their product as far as August and September. The demand for goods continues high and strong. In cottons the high price of
the raw material has had a bad effect while unsatisfactory shipping conditions have added to the difficulties of producers. There has been an active call for all kinds of cotton goods both for domestic and export trade, while prices have been steadily on the increase. There are practically no stocks on hand at the mills. Manufacturers are concerned over the future and merchants are urged not to carry more goods than are absolutely necessary. The attitude of the consumer toward higher prices on spring goods is considered likely to be an important factor. The wholesale and jobbing trade is considerably confused, some dealers reporting very large increases running as high as 200 per cent, as compared with last year, while others report decreases up to 33 per cent. It would seem that some retailers in anticipation of higher prices have been buying ahead.

The housing situation is reaching a critical stage which may result in largely stimulating building operations. In the Middle West, particularly in industrial centers, the shortage is said to be acute. Rents have advanced very greatly in view of the standstill of building operations and the increase of city populations which have called for much more extensive accommodation. In Chicago thus far building permits have been granted amounting to about $\$ 90,000,000$, but it is estimated that from 4 to 10 years will be required to overcome the deficiency in housing accommodation. In Detroit rentals have increased about 85 per cent since the beginning of the war and the shortage of houses is the more serious than a year ago. In South Bend, Ind., the shortage is exceptionally acute and the same is true at many important industrial points throughout the Middle West and in the Northwest. The same situation exists in many other parts of the country; in fact, so widely as to be all but universal, although in varying degrees. As a result of it an increase in building has already set in and in St. Louis the permits granted during the past month have been much larger than those of the preceding month or the corresponding month last year. The same is true of the fourth Federal Reserve district, while on the Pacific coast building construction is very active. In New

York building contracts fell off $\$ 2,585,000$ in November as compared with the preceding month. This was a decrease of about 5 per cent. Contract awards, however, normally show much larger decline at this season. The total volume of building in New York is very much above normal in cost and somewhat above normal in floor space. Residential building continues on a large scale. The continued rise in the prices of building materials has not yet reduced the extent of building operations below normal.

The Atlanta district reports that conditions during the past month have been favorable to the production of naval stores and that receipts have accordingly been well maintained. Prices have been stable and the prospects are that they will go no lower this season. Domestic demand is very large and labor conditions are not unsatisfactory.

The development of real estate speculation commented upon in many Federal Reserve districts in November appears to have reached another stage in some quarters at least. The Federal Reserve agent at Chicago notes that an encouraging feature of the situation is the fact that the rise in the price of land has received a decided check, while in some cities prices have declined 25 per cent as compared with a few months ago. On the Pacific coast, however, there is still a tendency to purchase farm lands at high prices for the purpose of reselling.

An active lumber market is reported for all parts of the country in spite of the steadily increasing prices. Production in many sections is stated to be well below normal, and mills are well supplied with orders. It is stated from the Atlanta district that "the year will close with the greatest demand for lumber and the highest prices ever known, and the outlook is said to be for still higher prices early next year."

As already noted, a serious view is taken of the advance in prices. The index number of the Bureau of Labor Statistics shows an advance from 223 during October to 230 during November, which is the highest level yet reached. The increase is found in the index
numbers for each of the principal groups, raw materials showing an increase from 220 during October to 226 during November, producers' goods from 211 to 216, and consumers' goods from 228 to 236. The increase in the index number for the group of raw materials is due largely to the increase in the prices of farm products, the index number for which group increased from 254 in October to 275 in November, while the index number for the forest products group likewise increased from 224 in October to 239 in November. That for the animal products group remains constant at 212 and that for the group of mineral products shows a decrease from 184 to 183 . In Great Britain, Sauerbeck's index number shows an advance from 224.3 to 231 .

The month of December shows some abatement of labor unrest and disturbances which had greatly reduced production during the preceding month. The termination of the coal strike and the cessation of activity in the steel strike, as well as the increase in the number of men employed in those industries, has greatly reduced the figures representing unemployment. From many districts it is reported that the chief difficulty does not lie in systematic strikes but in indisposition to increase production or to keep steadily at work. The reduced output as a result of very short hours or suspension of work a given number of days each week has proved to be a national problem. The disposition of labor to pursue such a policy is ascribed by many to high wages and the desire to employ the increased purchasing power thus obtained in the purchase of leisure rather than goods.
During the month of December there has been some reduction in the expansion of bank credit, and from district No. 2 it is reported that "the progressive expansion of October has been stayed, at least for the present." A falling off in the amount of new securitios offered for sale is reported, while during the month the loans of the New York banks have continued to decline. From October 31 to December 21 the loans, discounts, and investments of the 112 reporting banks in the district fell off about $\$ 403,000,000$, this decline being
chiefly in New York City, but banks elsewhere increased their loans by about $\$ 264,000,000$ during the same period, making a net decrease of only $\$ 139,000,000$ for all the reporting banks in the country, about 794 in number. During the month discount rates at the Federal Reserve Banks were once more advanced, this advance being effective December 11. Commercial paper rates have continued to harden somewhat, and in New York are now on a 6 per cent basis as compared with about a $5 \frac{1}{2}$ per cent basis at the middle of November. Call money has been as high as 18 per cent during the month, but the prevailing rate has been around 8 to 10 per cent, although at one time as low as 5 per cent. Less activity, not only in the New York stock market but also on stock exchanges the country over, has been a feature of the month's operations. Practically throughout the country there has been some tendency to a hardening in money rates of all kinds. The investment yield of securities has increased materially and during the month of December there has been a considerable liquidation in bonds. The result has been to reduce bonds generally and in a marked way. The lowest price level since 1896 has been reached. Third Liberty bonds and Victory $4 \frac{3}{4}$ per cent notes have sold on a basis higher than 5 per cent. Dubious issues of stocks have made their appearance in great numbers throughout the country. The movement is stronger in the larger cities but is very widely prevalent. A vast growth of new enterprises, some doubtful, some sound, appears to be taking place throughout the country, and the total volume of securities issues has been far in excess of any within recent months. Wage earners are buying for cash or are transferring their Liberty bonds to promoters, who in many cases offer extraordinarily high rates of return. During the month foreign exchange has gone to record low levels, sterling at one time touching $\$ 3.65$. Francs and lire have paraljeled this decline in sterling, and practically all exchanges have been unsettled. During the latter part of the month there was an upward movement, which restored many of the currencies to somewhat better figures.

## SPECIAL REPORTS.

## REPORTED BY DISTRICT NO. 1.

With no important curtailment of production on account of the coal strike, for the reason that reserve supplies had not been seriously invaded before the settlement of the difficulty, and through the installation of fuel-oil systems in many large plants, the year closes with New England industries stimulated by post-war conditions to a degree of peace-time activity unparalleled in the economic history of this section; wages advanced to rates hitherto undreamed of and commodity prices at corresponding levels; and labor at the moment quiescent. While there has been no doubt considerable saving from earnings as evidenced by large aggregate deposits in savings institutions and investments in Government obligations, nevertheless no one may observe without a feeling of apprehension the manner in which the enhanced purchasing power of the wage earners is being dissipated by irrational personal expenditures, especially when it is beginning to be coupled with requests for credit at retail stores by many who have never before known the meaning of a charge account. The readjustment of rediscount rates by the Federal Reserve Banks was undertaken with a view to modifying the situation of which these conditions are a reflex, but this will not furnish the complete remedy. Indeed, not until some powerful influence is brought to bear upon the machinery of production to establish a more normal relationship between the quantity of necessities and of luxuries, respectively, offered for consumption will it be possible to accumulate the wealth necessary to pay the cost of the war as represented by the enormous debts of the nations and to bring about a return to normally healthy social conditions. It is unlikely, however, that any reduction in the cost of living will be forced upon the consumer by the voluntary benevolence of the makers of goods; it is certain that it will not come about through legislation any more than it was vouchsafed the people of Rome in 301 A. D. by the Edict of Diocletian; and if it comes otherwise than by a collapse of the existing economic structure such as would bring, not reduced prices only, but reduced earnings and widespread distress, it can come only through individual sacrifices, foresight, and initiative manifested by restricted expenditure and conservation of savings beyond anything yet apparent.

## REPORTED BY DISTRICT NO. 2.

Stock market.-The liquidation of stocks which followed the extraordinary money conditions early in November has been continued with a fair degree of consistency throughout the past 30 days. This liquidation proceeded without sharp breaks in the market and with lessened public participation, as is customary in a declining market. The former extravagant demands upon credit appear to have subsided considerably.
Daily sales fell off materially. In the third week of November the average was $1,145,000$ shares a day; in the fourth week 980,000 ; in the first week of December 936,000; in the second week 938,800 , and in the third week fell to 867,200 shares a day. A partial recovery of prices which took place early in December was most pronounced in the highly speculative issues, wnile shares which are commonly regarded as investment stocks remained comparatively dull.

The market has been fairly responsive to news developments. Forinstance, the termination of the bituminous miners' strike and the announcement of the Attorney General that he would not appeal the Southern Pacific oil land case caused a rise in particular stocks and lent a momentary strength to the rest of the list. The announcement of the fractional increases in rates by this bank on December 11 was followed by a day of high call money rates and active liquidation.

Bond market and new financing.-The liquidation which developed in stocks was far more pronounced in the bond market. It manifested itself tentatively in the third week of November and became heavy during the next two weeks; although three-quarters of the transactions were in United States bonds, the prices of which fell, the declines in the prices of corporation bonds were heavier. From the middle of November to the middle of December United States bonds fell off about three-quarters of a point; industrial bonds one and one-half points; public utilities two and one quarter points, and railroad bonds about three points. Bonds other than Government issues which were most heavily sold were those of railroad and street railway companies whose records of earnings are poor, and of other corporations whose bonds are regarded as high grade but because of their prices have the smallest yields. In spite of some exceptions the bond market as a whole fell to the lowest
price level reached since 1896. The effect of the decline on Liberty bonds was to place the third $4 \frac{1}{2}$ per cent and the Victory $4 \frac{3}{z}$ per cent issues on a better than 5 per cent basis.

The high price of money in November caused a marked reduction in the aggregate of new issues by domestic corporations. The total for that month was $\$ 253,000,000$, as compared with $\$ 390,000,000$ in October and $\$ 90,-$ 000,000 in November a year ago. This falling off seems to register the passing for the time being at least of the high tide of offerings to bond houses by corporations which are anxious to enlarge their capital. Nevertheless, it is reported to us that the applications are still so numerous that the best bond houses are able to consider only a small proportion of them and in the aggregate they are much beyond the power of the market to absorb.

Dubious issues.-The creation of a great body of new capitalists through the sale of Liberty loans and because of the generally higher level of wages, has encouraged the sinister activity of promoters and salesmen who are trying to float stocks of the most dubious character. Based upon answers to inquiries made from 50 banks outside of New York City, and upon other evidence within the metropolitan district, it appears that this movement is general in the larger cities of the district, particularly New York, Buffalo, Rochester, Syracuse, Utica, and Binghampton, but with varying intensity. It appears that some of the promoters are men whose business records do not stand scrutiny either from the standpoint of success or personal integrity, and some of them have in times past been found guilty of crime.

A possible indication of the extent to which new capital is sought appears in the total of new incorporations. Doubtless only a fraction of the total is intended for immediate issue, depending primarily upon the capacity of the public to buy, and a number of them are, of course, of the highest character. Nevertheless, the total is noteworthy. In November new incorporations in the Eastern States amounted to $\$ 1,341,000,000$ and in October $\$ 2,363,000,-$ 000 , as compared with $\$ 131,000,000$ in November a year ago. The monthly average for 1919 up to this time is $\$ 1,054,000,000$, which is nearly seven times the monthly average shown by the five years prior to the war. Most of the new incorporations are of oil, shipping, and chemical companies and concerns engaged in the manufacture of articles the current prices of which are high and the margins of profit on the present basis exceptionally good. In many cases
the chances of return for the investor are limited to the maintenance of the present price level.
The operations of dealers in poor or worthless stocks are particularly serious at a time of great expansion such as the present, not only because of the waste of capital involved, but because fraudulent issues are lost sight of in the general outpouring. Reports from the banks in certain parts of the district indicate that a large amount of Liberty bonds have been secured in exchange by promoters, who promise an 8 per cent rate or better in place of the interest carried by the bonds. Many sales for cash are reported also, particularly to wage earners. An estimate of the amount of dubious issues on sale, secured from a source specializing in such matters, puts the total at "hundreds of millions."

As usual, the victims of such transactions are those who are in the worst position from knowledge or experience to measure the worth of securities. Methods of sale include not only newspaper advertisements and offers through the mails, but solicitation by a highly organized corps of canvassers. In a number of cases the name of the Federal Reserve Bank is reported to have been used for the purpose of convincing prospective purchasers of the value of the stock offered. Usually the argument has been that the bank whose stock the canvasser is selling will become a member of the Federal Reserve system, or that the paper to be handled by the newly organized "finance corporation" will be discounted by the Federal Reserve Bank. Such statements should be sifted with the greatest care, but usually the man approaohed by the canvasser is in no position to know the limitations set by law, both on Federal Reserve membership and discounts.

Certain cases of apparently fraudulent intent have already been brought to the attention of the Federal or local prosecutors, but in the past most prosecutions have succeeded only when the fraud has been completed and the investor has lost his money. It is therefore essential that individuals buy only after seeking advice from trusted bankers or others who are equipped with sound information and good sense on financial matters. In a number of progressive communities the newspapers not only refuse to take dubious financial advertising, but have undertaken to warn their readers against unscrupulous vendors of stocks. Officers of banks can carry this public service further by giving advice to all inquirers, whether they are customers or not. Many bankers are already doing work of that sort.

## REPORTED BY DISTRICT NO. 3.

Coal.-The strike of the bituminous miners has seriously curtailed the output of that kind of coal in the central Pennsylvania fields. Figures of the United States Geological Survey for the end of November indicate that mines served by the Pennsylvania Railroad were producing at 46 per cent of capacity; mines served by the New York Central, at 8 per cent of capacity; and those served by the Buffalo, Rochester \& Pittsburgh, at 21 per cent of capacity. The settlement of the strike very possibly may not be followed by immediate resumption of fulltime operations, but it is hoped that by the first of the year production may be up to normal; meanwhile we are faced with a distinct shortage of bituminous coal. Thus far the effect on the industries of this district has not been very marked, though some mills and factories have been compelled to close down. The total production for the country up to November was $100,000,000$ tons below the corresponding period in 1918. November is estimated to have added $30,000,000$ tons to this shortage and December may add as much as $20,000,000$ more. It appears not at all improbable, therefore, that production for the year 1919 would be $150,000,000$ tons below 1918. During the months preceding the strike car shortage was evidently an important element in curtailing operations, and it is to be hoped that this difficulty will be eliminated in so far as is possible. A severe winter may cause serious consequences.

Anthracite-coal production has been fully satisfactory, though not quite up to the level of last year. The following table shows the shipments over the nine principal anthracitecoal carriers:

|  | 1919. | 1918 |
| :---: | :---: | :---: |
| January. | ${ }_{5,034,241}^{\text {Tons }}$ |  |
|  |  |  |
| ${ }_{\text {April..... }}$ | 5, 24,245 | ${ }_{\text {b }}^{6,388,733}$ |
| Juano...: | 6,612, 519 |  |
| August. | 6,141,144 | \%,180, |
| Soptember |  |  |
| Nocember. | 5,972,671 |  |
|  |  | 5,736, 200 |

Sizes for domestic use are in adequate supply, though in some few cases it has been necessary for consumers to take pea in place of nut, and egg in place of the stove size. Steam sizes are
moving very comfortably, due somewhat to its use in place of bituminous coal, but there is nothing urgent about the situation. Prices have not changed during the past month. Labor conditions in the anthracite field show no apparent unsettlement.

## REPORTED BY DISTRICT NO. 5.

The recent restrictions in the use of coal had a slightly demoralizing effect on business, and had it been continued beyond the brief period of its enforcement would have seriously handicapped all lines of business. The location in this district of some of the largest and finest coal properties, the settlement of the miners' strike, and the prompt removal of these restrictions relieved the uneasiness over the situation. Normal conditions are being promptly restored and the incident relegated to the past, with the hope that a final settlement with the miners will be reached without further trouble. This event has been the only disturbing feature of the past month, and although the irregularities as to labor and supplies of materials and delays in freight movements are matters of more or less comment, all reports indicate unusual activity. The prices realized for tobacco, cotton, and other crops have furnished a stimulant to trade, from which no considerable reaction is yet apparent. A conservative correspondent, while confirming these conditions, evidently considers a reaction inevitable and overdue, and remarks, "We are all aboard the 'Blue Sky Special,' indulging in the evanescent pleasures and diversions usually incident to an excursion to the fool's paradise of inflation. No one knows or seems to care where or when we will stop."

## REPORTED BY DISTRIOT NO. 6.

Coal.-While the coal miners' strike reduced the coal output to an alarming extent throughout the country, the situation in the Alabama coal fields has not, so far as the output is concerned, injured this territory, except for the fact that this section has been called upon to serve other parts of the country and to supply railroads with fuel to meet their requirements. This situation has been practically adjusted since the acceptance by the coal miners of the President's proposal, and conditions will no doubt be normal within a short time. The output for November in the Birmingham district was $1,080,810$ tons, as compared with $1,459,385$ for October.

Iron, steel, and miscellaneous industrials.The iron and steel industry in this section was greatly handicapped by the coal miners' strike, and reduced production resulted. There is a very heavy demand for pig iron, and prices have advanced. Consumers are realizing the shortage and are eager to contract for a large supply. There are less than 100,000 tons of foundry iron in Alabama yards, and most of that belongs to consumers. The total output of pig iron in November was 196,209 tons, as compared to 208,793 tons in October.

Steel mills, while suffering from the coal strike, have been actively employed and have enough unfilled orders on hand to keep them operating to full capacity for many months. The miscellaneous industrial iron manufacturing plants are in full operation, with orders in large volume booked for future delivery.

## REPORTED BY DISTRICT NO. 7.

Housing problem.-The housing situation is looming up as a serious problem in practically all of the industrial centers of the Middle West. In Detroit as well as in Chicago, where the growth of population in the last few years has been abnormal, the situation is acute. Interference with construction in Chicago through strikes retarded the building of homes suffciently to add to an already acute shortage of homes. Conditions in Chicago a year ago were such as to bring into use for winter housing places built for summer use only.

Apartments inChicago, which for many years had been idle and almost ready for condemnation, are again pressed into service, and several families in many instances are "doubling up." In the congested sections, such as the foreign districts and in parts of the West Side and in the belt circling Chicago's Loop or down-town district, the situation makes not only for the undermined health of the occupants but contributes to serious and growing dissatisfaction. The so-called middle class of salaried people, with incomes ranging from $\$ 2,000$ to $\$ 5,000$ a year, also have found the scarcity of dwelling space a serious factor in their living costs, with home seekers bidding up rentals against each other to extreme figures. Rentals have advanced from 20 to 75 per cent and even 100 per cent.

Obviously it is impossible to present exact figures to show the acute condition. Estimates from sources which ordinarily are regarded as reliable, place the shortage in Chicago alone at between 40,000 and 50,000 homes. The increase in population in Chicago during
the last two years is conservatively estimated at between 75,000 and 100,000 persons per year, which means that between 150,000 and 200,000 additional persons required housing in a period when building construction was either at a standstill or was greatly curtailed by wartime restrictions, expectations of lower prices for material and labor, and by strike interference.

Such large building construction as is now under way in Chicago involves, as a rule, the elimination of housing facilities for from 25 to 30 families, sometimes more. The new buildings supplanting those destroyed are mostly of the apartment hotel type. These, of course, will provide housing facilities for a larger number of families, but at a higher rental for less space. The kind of homes which appear to be chiefly in demand are the four, five, and six room apartments. The one and two room kitchennette apartments are more frequently constructed because of the income they return to the owner, renting from $\$ 65$ to $\$ 100$ and up per month. Thus far this year there have been granted permits for about $\$ 90,000,000$ of work, and it is said that this takes care of the normal increase and about 5,000 to 10,000 units of the shortage in homes. At the present rate authorities estimate from 4 to 10 years will be required to overcome the housing deficiency.
The shortage in homes in Detroit is estimated at 33,000 , which is nearly 10,000 greater than a year ago, and notwithstanding the active campaign, next year will probable see an increased deficit. So far in 1919 there have been approximately 11,500 new apartments, while the requirements were for 20,000 . The annual increase in population in Detroit is now estimated at 100,000 , while the increase in the accommodations as the result of 1919 building will care for approximately 14,600 families. There has been and is in prospect considerable building of groups of cottages by contractors and manufacturers at $\$ 1,000$ to $\$ 1,800$. Rentals in Detroit have increased on the whole about 85 per cent.

In South Bend, Ind., the shortage in homes is acute, owing to the great industrial growth. Old factories are expanding and new ones coming to town. There were about 500 homes built last year and plans contemplate 1,500 to be built in 1920. Fort Wayne, Ind., reports a shortage of 1,000 homes, with rentals 20 to 25 per cent higher. East Chicago, Ind., building is hampered by high material and labor costs, with rentals from 20 to 25 per cent higher. Hammond, Ind., has a shortage of homes and reports a further increase in rentals of 15 per
cent, bringing the advance between 35 and 40 per cent from prewar figures.

Rentals.-Indianapolis has experienced an increase in rentals of from 35 to 50 per cent, with a prospect of further dwelling shortage. La Fayette, Ind., has an acute housing situation, with rentals 20 per cent higher and no available houses or apartments. The same condition prevails at Muncie, Ind., with rentals for business rooms 100 per cent higher and common residences 75 per cent higher than in prewar times, while furnished rooms are 50 per cent higher.
The building situation at Terre Haute, Ind., is about 75 per cent of normal, with rentals about 10 per cent above prewar times. Mishawaka, Ind., has experienced a shortage of homes for several years, but a building program is being worked out by manufacturers to finance the employees so that they may own their own homes. It is estimated that 500 additional homes could be used. Rentals are 25 to 40 per cent higher than in normal times.

In lower Michigan Saginaw reports 10 per cent increase in rentals compared with a year ago, and 30 to 40 per cent higher than in war times, with 100 houses under construction. Muskegon estimates 1,000 new homes built within a year but rentals have advanced 14 per cent. Battle Creek rentals have increased from 50 to 60 per cent since 1917 owing to the rapid industrial growth and a demand for homes far in excess of supply, with plans now under way for the building of 1,000 new homes in 1920 .

Des Moines and other Iowa cities are also experiencing a shortage in homes, but correspondents attribute this shortage in the smaller cities chiefly to wealthy farmers moving into town and the abandonment of the poorer for the better buildings. There is a boom in several of these towns in the building of houses costing from $\$ 3,000$ to $\$ 7,000$. Rentals have advanced from 20 to 50 per cent in Iowa cities.

Decline in land speculation.-One encouraging feature in the advices from Iowa and Illinois is the assurance on the part of bankers that the rise in the price of land has undoubtedly received a decided check, and in some instances, according to those well posted, prices have declined 25 per cent compared with a few months ago. The consensus of opinion is that there will be little land change hands until after the settlements of March, when it will be known how many defaults have occurred in contracts already made.

## REPORTED BY DISTRICT NO. 8.

Wholesale and jobbing.--The wholesale trade situation is considerably mixed. Some dealers report large increases in the value of their sales as compared with November last year, in some cases over 200 per cent;- others engaged in the same line of business report decreases up to 33 per cent. Orders on hand for future delivery in most lines are reported to be larger than usual. The unfavorable weather conditions in in parts of the district, which have increased the stocks held by retailers, have naturally decreased the demand from wholesalers. Business generally, however, is good and was not seriously affected by the coal strike.

Some wholesale dry goods houses report very large increases in the value of their sales as compared with last year, which is due in great measure to the desire on the part of buyers to avoid advancing prices. One dealer in commenting on this situation says: "Our spring lines have been sold up and withdrawn from sale. We are offering certain lines of fall merchandise, such as blankets, underwear, hosiery, kint goods, and napped goods for delivery in the spring months and they are being taken freely. This shows the inclination of the merchant to buy his merchandise ahead of time, with a view to heading off any advance, rather than buying these goods when he actually needs them." Another concern states that the prices that have been made for fall are higher than those for spring.

Wholesale drug houses generally report increases in value of their sales as compared with 1918. One concern, however, reports a 10 per cent decrease, due to the shortage of a certain product which forms a large part of its business. No basic changes in raw materials or in patented compounds are reported. Orders on hand for future delivery are beyond normal in some cases.

Dealers in electrical supplies say their business is slightly less active than it has been. One concern says the coal strike cut down its sales 25 per cent.

Cotton factors complain of the exchange situation which is unfavorable to exports. The high price of cotton is a favorable factor affecting them.

Wholesale grocery companies for the most part report increases over October. During the coal strike, however, buying was somewhat checked in mining towns. Orders on
hand for future delivery are still below normal, one company reporting that it has none.

## REPORTED BY DISTRICT NO. 9.

The spring season will bring some problems in connection with the live stock situation. It will be necessary to ship back into the west end of the district a considerable amount of stock to replace that removed before snow fall on account of the severe shortage of feed. The amount of snow so far received is very promising for a good year in the districts that weredry during the season recently closed. The 1919 crop of wheat is, however, of very poor quality. Most of it arriving at terminal markets is light in weight, shriveled, and shrunken, and of very low germination. Without the most active efforts there will undoubtedly be a serious shortage of seed for spring planting. The prospect is so unfavorable that an organization has already been formed to gather data in regard to available seed supplies, and to conduct such work during the winter as will locate and provide for the distribution of the seed that is available. The prospect is for a reduction in next year's wheat acreage, while in the western half of the district the acreage of winter wheat and winter rye is already reduced.

With these exceptions, the outlook is not unfavorable.

## REPORTED BY DISTRIOT NO. 10.

Agriculture.-The condition of growing winter wheat in the States of this district is reported generally good, although a considerable acreage of wheat that was planted late made slow progress, December conditions in the States ranging from 75 to 91 per cent. The snow in the central Great Plains area is generally considered as beneficial to growing wheat, although a large part of the farm work usually done at this season was suspended because of the severe cold weather.

The agricultural outlook for the coming year is reported good from most sections. The area of winter wheat sown this fall is considerably less than that planted to winter wheat in the fall of 1918 , indicating that with the war period at an end farmers are desirous of returning to their former system of diversified crops. The estimated acreage of winter wheat now in the ground is: Colorado, 978,000 acres; Kansas, $9,196,000$ acres; Nebraska, 3,093,000 acres; Oklahoma, 2,881,000 acres. These figures indicate a decrease from the previous year's
acreage of 23.4 per cent for Colorado, 20.7 per cent for Kansas, 29.4 per cent for Nebraska, and 7 per cent for Oklahoma. Slight decreases of the wheat acreage also are reported from the 19 counties of Missouri that are in this district, and also in Wyoming and the portion of New Mexico in this district.

Indications point to an increased acreage of cotton in Oklahoma for the coming year, while in many sections more attention will be devoted to corn and potatoes, the acreage of both of these staples having been reduced in the last year in order to speed up wheat production.

Growers of sugar beets in the Colorado-Wyoming-Nebraska-Kansas regions have not as yet indicated their acreage for 1920. From reports received the growers are apparently in no hurry to make new contracts based on the 1918-1919 prices, on account of the additional cost of production.

The car shortage and cold weather have been unfavorable for the movement of many of the products of the farms to the markets and a larger per cent of these products are said to be still in the growers' hands than usual at this season.

Grain and milling.-Arrivals of wheat at the principal markets of this district in November were greatly in excess of those of October and about two and one-half times the receipts in November of last year. The extraordinary increase in November was largely the result of improved transportation service resulting from the pressure brought to bear on the Railroad Administration. It had the effect of greatly relieving the congested situation at local elevators and opened up a freer movement of wheat from the farms into the market channels. At this time last year, it is remembered, all grain movements were under shipping permits, which accounts for the small receipts in November of last year.

On account of scarcity of choice milling grades from the spring wheat sections, heavy requisitions were made on the markets of this district for stocks of hard and red wheat, the tendency being to stiffen prices. The high price at which wheat sold in Kansas City in November was $\$ 2.80$ for No. 2 hard and $\$ 2.48$ for No. 2 red. Relinquishments to millers of about $60,000,000$ bushels of wheat held by the United States Grain Corporation at 7 cents a bushel over the guaranteed level at which the grain was purchased had little influence on cash wheat prices.

Flour-milling operations in the month of November were: At Kansas City 78 to 89 per
cent of capacity; at Omaha 92 to 100 per cent capacity; at interior milling points 82 to 91 per cent capacity. In early December some of the mills, particularly at interior points, were either shut down or were working on short time on account of the coal shortage, with the result that the per cent of activity was somewhat reduced.

On account of the fluctuations of prices of wheat, the flour prices have also shown slight changes, but generally flour is 75 cents to $\$ 1$ higher than early November prices. Short patents sold December 6 at $\$ 12.75$ to $\$ 13.65$, standards at $\$ 12.45$ to $\$ 13.45$, and straights at $\$ 11.85$ to $\$ 12.50$.

Receipts of corn, although slightly above those in October, were about 30 per cent less than the receipts in November, 1918. Car shortage helped in the holding back of new corn. Prices were materially improved as compared with those of September and October. The high and low prices of corn at Kansas City in November were $\$ 1.61$ and $\$ 1.40$ for No. 2 mixed as against $\$ 1.50$ and $\$ 1.39$ in October.

Receipts of oats were about 10 per cent below the November, 1918, receipts and prices showed some improvement over October prices. No. 2 white oats sold from 70 to $77 \frac{1}{2}$ cents.

## REPORTED BY DISTRIOT NO. 11.

The closing months of the year 1919 have found this district in a peculiarly checkered situation, with some sections setting new high records in the volume and profits of their products, while others are suffering from the disastrous effects of crop failures.

The most striking and surprising feature of this anomalous situation, as disclosed by the developments of the past 30 days, are the reports that are coming in from the western part of the district, particularly from western Texas, where a year of copious and well distributed rainfall has resulted in an amazing record of productivity and development during the year just closed.

In one western county alone a $\$ 9,000,000$ cotton crop, a $\$ 1,000,000$ wheat crop, and more feedstuff than its farmers have been able to gather have yielded an average crop income of more than $\$ 500$ per capita, transformed many tenant farmers into farm owners, and demonstrated generally what this section is capable of doing under favorable weather and market conditions.

While the figures cited from this county can not be taken as a picture of conditions in
the district as a whole, nor even as representative of the situation in all parts of western Texas, the fact remains that that part of the district which for many years has been suffering the hardships of droughts and crop failures has this year taken on the novel role of leadership in productivity, resulting in a wave of prosperity that has carried itself to and beyond the boundaries of the eleventh district.
Late estimates show that Texas as a whole has received from its 1919 cotton crop the largest money return it has ever realized, despite the practical certainty that the number of bales already ginned is the smallest in recent years. It is the opinion of reliable authorities that this situation, combined with other influences affecting agriculture in this district, will tend to produce a much larger cotton acreage here in 1920 than was sown in 1919.

Agriculture.-The winter grain acreage has been greatly reduced this year by the excessive fall rains throughout the grain belt. Estimates place the reduction, as compared with last year's acreage, at from 35 to 50 per cent. The condition of the growing grain is generally unfavorable, due to lack of proper preparation of the soil and also damage in some sections by insects. From present indications the season's yield will not exceed 35 per cent of normal.

Notwithstanding the loss sustained by cotton farmers from the effects of the excessive rainfall on both the yield and grade of the staple, the higher prices realized this year on their marketable cotton, as well as on other farm products, have placed the farmer in a much easier financial condition than they were a year ago. The Texas cotton crop for 1919 , of which approximately 85 per cent has been gathered, has been estimated by the Department of Agriculture at $2,700,000$ bales, although some of the leading authorities in the State of Texas contend that this estimate is too high.

Although it is too early to form a reliable estimate of next year's cotton acreage in this district, many reports are being received to the effect that the small acreage available this fall for winter grain has caused farmers in many communities to announce their determination to plant a larger acreage in cotton next year.

## REPORTED BY DISTRICT NO. 12.

Of the 10 leading wool-producing States, 5 are located in the twelfth Federal Reserve district, which produced approximately 30 per cent of the 1919 wool clip. Production by States has been as follows:


The following table indicates the great decrease in hop production in this district during the last few years:

| State. | 1919 | Normal prior to 1919. |
| :---: | :---: | :---: |
| California. | $\begin{gathered} \text { Bales. }{ }^{1} \\ 70,000 \end{gathered}$ | Bales. $115,000$ |
| Oregon. | 35,000 | 135,000 |
| Washington. | 20,000 | 45,000 |
| Total. | 125,000 | 295,000 |

1185 pounds net per bale.
Fully 97 per cent of the 1919 crop has been sold at prices ranging from 30 to 35 cents per pound, with the latter price now being freely offered to growers for unsold stock. Growers are now contracting for their 1920, 1921, and 1922 crops at a price of 36 cents per pound, which compares with a prewar price of 15 to 20 cents per pound. Heary reductions in acreage throughout the world, because of the demand for foodstuffs during the war, are largely responsible for this important increase in price.

## International Price Index.

Especially since the close of the war a keen interest has been shown in the course of foreign prices, not only for purposes of comparison with our own price level but also as a method of studying business conditions abroad. In view of this fact, the Federal Reserve Board has undertaken the study of this subject and expects to publish each month the general index numbers of leading foreign countries and in addition index numbers of certain groups of commodities which it considers valuable for special study.

It was decided to make use of the index numbers published in the various foreign countries for the purpose of studying the general wholesale price levels of those countries only after considerable effort had been made to discover a better method of price comparison
with the material available in this country. It is recognized that these indexes are for the most part made up of too few commodities to represent the general wholesale price levels of their respective countries with any degree of exactitude. On the other hand, foreign price material obtainable in this country is too scanty to make possible the construction of larger indexes which would be more representative than those now published. If the limitations of these indexes are understood, they may be used with considerable confidence in a study of wholesale price oscillations.

Following is a description and analysis of the indexes which will be published currently along with the actual monthly figures for the past three years computed with 1913 as a base. ${ }^{1}$

## DESCRIPTION AND ANALYSIS OF EXISTING INDEXES.

The wholesale price index of the United States Bureau of Labor Statistics commands greater confidence as a measure of the general wholesale price level in this country than any of the other indexes published here. It consists of market quotations for over 300 commodities of industrial importance, weighted according to the quantity of these articles which enters into the trade or exchange of this country, allowance not being made for the frequency of turnover. A critical analysis of this list shows that all of the leading industries of the country are represented by one or more quotations, that in most cases commodities are quoted as raw materials, and in one or more stages of manufacture, but that such representation is somewhat uneven. The types of quotations used are rather heterogeneous. This is in some cases due to differences in industrial organization, some goods being sold exclusively on a cash basis, others on contract, the meaning of the contract price differing from industry to industry. This diversity would seem to be desirable if in each case the type of quotation used represents the basis of sale of the largest quantity of the commodity being traded in. To determine this requires very specific trade information. Quotations are obtained from trade magazines and private firms. In most cases these sources appear to be reliable, but as in the case of the typa of price used, doubtless considerable improvement could be made in this direction by further study of specific industries.

[^1]The method of weighting used is satisfactory for a study of the general price level, although theoretically it would appear that frequency of turnover should be considered. To take this into account involves a detailed knowledge of sales methods in different industries.

The reliability of the index of the Bureau of Labor Statistics has been tested by the study made by the price section of the War Industries Board of prices during the war. ${ }^{1}$ The latter study involved the construction of an index number for 1913 to 1919, consisting of 1,366 commodities representing the leading industries of the country, weighted according to the quantity produced here plus that imported. In the preparation of this index, great emphasis was placed upon the study of marketing methods in connection with the choice of commodities quoted and the types of prices used. The results of this study show an average difference during the six-year period between this index and that of the Bureau of Labor Statistics of 1.5 points with prices in the 1914 fiscal year considered as 100. Judging from this fact and taking into consideration that this was a war period, it would seem unnecessary to attempt to improve upon the index of the Bureau of Labor Statistics for the purpose of studying the general wholesale price level in this country

Three indexes are currently published to show the general level of wholesale prices in England, that of the Board of Trade (official), that of the Economist, and that of the Statist. The last one mentioned is usually accorded the greatest confidence in England and abroad. Its construction has served as a pattern for several other European indexes. Both the Economist and the Statist index were originally constructed for the purpose of throwing light upon the relation between the gold supply and prices. The Statist index consists of approximately 60 quotations and is not weighted except in a crude way by allowing two quotations to certain very important commodities such as wheat, iron, coal, and cotton, to mention a few. Analysis of the list of commodities included shows certain important omissions such as rubber, paper, gasoline, tobacco, and others of perhaps less importance. Quotations are largely for commodities in their raw state, although there are such exceptions as wheat, flour, meats, leather, and refined petroleum. It is impossible to discover from published sources the type of

[^2]quotations used except in a very general way Official returns are used in such cases as wheat, barley, and oats, and imported articles are quoted in bond; otherwise private firms, the Economist, and other publications are used but no statement is made as to the type of price.

The Economist index at present consists of 44 quotations unweighted except roughly by the number of quotations allowed to the different commodities. Although the omissions are not so striking as in the case of the Statist (corn and hides being perhaps the most important), the reduction in the number of quotations practically guarantees a less accurate measurement of the price movement of the separate commodities. Most of the commodities quoted are raw materials, although the following semimanufactured and manufactured articles are included: Flour, meats, cotton yarn, possibly cotton cloth, steel rails, iron bars, leather, and petroleum. Nothing is published regarding the type of price quotations used other than that they represent market quotations in London and Manchester.

The Board of Trade index is computed from the prices of 47 commodities weighted in accordance with estimated consumption, consumption being " taken to mean any process by which the commodity is substantially changed in character. In other words, consumption in manufacture is recognized as well as consumption by an individual." All commodities except certain ones in the food group are raw materials. Instead of using market quotations of one sort or another, import and export values are used for the most part as the basis for the index. These values are supplemented by official quotations for wheat, barley, and oats and by prices paid by public institutions for certain food-stuffs which may be termed semiwholesale prices.

From the above discussion it is apparent that none of the British indexes is as inclusive as that of the United States Bureau of Labor Statistics nor so scientifically weighted, assuming that the aim in all cases is the same, namely, to measure the general price level of the country considered. Although certain important industries are entirely unrepresented, the Statist index is superior to the other two in the number of quotations included. Manufactured articles are almost equally slightly represented in the Statist and Economist indexes and still more slightly in that of the Board of Trade Import and export values are probably not so representative of the prices paid by the country
as a whole as reliable market quotations. In this respect again the Statist and the Economist would seem to be preferable to the Board of Trade index. On the other hand, the Board of Trade index is weighted according to consumption whereas the other two are weighted in only a very general sort of way. The weighting used, however, is influenced apparently by a desire to measure the cost of living rather than the general wholesale price level since the weight of 330 points is given to food, all other commodities receiving the weight of 176. It may be concluded, therefore, that the Statist index is probably the most suitable one for measuring the British wholesale price level. It is inadequate, especially in respect to quotations of manufactured goods and weighting.
Only one wholesale price index is published at present in France, namely, that of the Statistique Generale of the French Ministry of Labor and Social Welfare, the index of Jules Domergue published in the Réforme Economique having been allowed to lapse at the beginning of the war. The former index consists of 45 commodities unweighted. It resembles the Statist and Economist indexes in number and type of commodities, very few manufactured goods being quoted. The quotations are obtained from the Bourse de Commerce of Paris, official and trade journals, and the Reforme Economique.
The leading Italian wholesale price index published at the present time is that of Prof. Riccardo Bachi, the official Italian indexes consisting of small numbers of foods at semiwholesale prices. The Bachi index consists of 40 commodities at wholesale and is constructed on a similar plan as the Economist index for England. As is the case with the British and French indexes, the commodities are quoted mostly as raw materials. The quotations are obtained for the most part from the official reports of the chambers of commerce of Genoa and Milan.
The Swedish Government has recently begun publishing a wholesale price index. So far, we have been unable to discover how this index is constructed, the commodities used, or the source of quotations. The index number is being published currently, however, by the Supreme Economic Council in the Monthly Bulletin of Statistics, and judging from the grouping of commodities it must be similar to the other best known European indexes.

The Bank of Japan publishes a wholesale price index for Tokyo currently. It consists of prices of 56 commodities, both raw materials
and manufactured goods, unweighted. Prices are obtained from reliable firms with whom the bank has connections.

Index numbers of wholesale prices (all commodities).
(1913-100.)


There is at present a very excellent Australian index number published by the Commonwealth Bureau of Census and Statistics, consisting of 92 commodities weighted on the basis of the country's aggregate consumption. So far as can be judged, the list is a very inclusive one, covering Australia's leading raw materials, important producers' goods, and a long list of goods used in private consumption. Melbourne trade journals are used for the most part as a source for quotations, but in a few
cases, where Australian markets are not developed, prices are quoted on the London market. The weighting is apparently based on aggregate consumption as contrasted with private consumption. In other words, the idea of measuring the cost of living has not influenced the weighting, but consumption has been estimated by adding imports to production and subtracting exports. This index number is published quarterly in the Labour Bulletin, computed on the basis of average prices in 1911 equal to 100 . Since 1915 an additional monthly index number has been computed on the basis of prices in July, 1914, equal to 100 . Unfortunately, the Labour Bulletin is not received in this country very promptly after publication.

The official Canadian index is very similar to that of the United States Bureau of Labor Statistics in number and choice of commodities. It is not a weighted index, however. The 272 quotations used in the construction of the index cover the leading commodities of the country in both the raw and manufactured condition. Trade journals, boards of trade, and commercial houses are used for the collection and verification of the price quotations.

It is apparent from the table on page 28 that credit expansion has been least in Australia. The United States and Canada appear to be in approximately the same position and somewhat better off than the European countries. It would seem that values in Japan have shifted in about the same ratio as in England, whereas in France, Italy, and Sweden money has depreciated even more radically.

It should be noted also that whereas prices in all of these countries declined for a few months after the close of the war, they have consistently advanced during the last five or six months in every case where we have recent figures.

As stated at the beginning of this article, the index numbers published abroad are fairly satisfactory for the purpose of studying general price movements. By the use of the group indexes for foods, clothing, etc., published in every case except that of the Bank of Japan, it is possible to follow the movement of prices in related groups of industries. We thus have in addition to the average price fluctuation in a given country the variations of groups of industries from the average.

Group index numbers- United States Bureau of Labor Statistics.
$[1913=100$.

| Date. | $\begin{aligned} & \text { Farm } \\ & \text { products. } \end{aligned}$ | Food, etc. | $\begin{gathered} \text { Cloths } \\ \text { and } \\ \text { clothings. } \end{gathered}$ | Fuel and lighting. | Metals and metal products. | $\begin{array}{\|c\|} \text { Lumber } \\ \text { and } \\ \text { building } \\ \text { materials. } \end{array}$ | Chemicals and drugs. | House furnish- ing goods. | Miscellaneous. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1913. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
|  | 103 | 102 | 98 | 96 | 88 | 98 | 101 | 99 | 98 |
| 1915. | 106 | 105 | ${ }^{99}$ | 114 | 94 | ${ }^{94}$ | 109 | ${ }^{99}$ | 99 |
| 1016.. | 119 | 124 | 123 | 114 | 142 | 100 | 157 | 115 | 117 |
| 1817. |  |  |  |  |  |  |  |  |  |
| January.. | 148 | 151 | 161 | 176 | 183 | 106 | 159 | 132 | 138 |
| February. | 151 | 160 | 162 | 185 | 190 | 108 | 160 | 132 | 141 |
| March.... | 183 | 161 | 164 | 188 | 199 | 110 | 165 | 139 | 143 |
| April.... | 181 | 188 | 169 | 184 | 208 | 114 | 170 | 139 139 | 149 |
| May.... | 197 | 192 | 173 179 | 194 | 217 | 117 | 178 180 | 139 | 150 |
| July... | 199 | 182 | 187 | 192 | 257 | 132 | 198 | 152 | 158 |
| August... | 205 | 181 | 193 | 165 | 249 | 133 | 209 | 152 | 156 |
| September | 204 | 180 | 193 | 160 | 226 | 134 | 223 | 152 | 155 |
| October... | 208 | 184 | 193 | 146 | 182 | 134 | 252 | 152 | 163 |
| November. | 212 | 185 | 198 | 155 | 174 | 134 | 240 | 155 | 166 |
| December.. | 205 | 186 | 202 | 158 | 174 | 135 | 238 | 155 | 170 |
| 1918. |  |  |  |  |  |  |  |  |  |
| January.. | 207 | 188 | ${ }_{211}^{211}$ | 157 | 174 | 136 | 232 | 161 | 178 |
| February | 208 | 187 | ${ }_{223}^{216}$ |  | 176 176 |  |  |  | 181 |
| April..... | 217 | 180 | 232 | 157 | 177 | 146 | 229 | 165 172 | 194 |
| May....... | 214 | 179 | 237 | 160 | 178 | 148 | 223 | 173 | 194 |
| June.... | 217 | 180 | 245 | 159 | 178 | 150 | 219 | 178 | 196 |
| July...... | 224 | 186 | 249 | 166 | 184 | 154 | 216 | 199 | 190 |
| August.... | 230 | 193 | 252 | 166 | 185 | 157 | 222 | 221 | 191 |
| September | 237 | 200 | 254 | 167 | 184 | 159 | 220 | 226 | 194 |
| October... | 224 | 202 | 256 | 167 | 187 | 158 | 218 | 226 | 196 |
| November. | 221 | 208 | 255 | 171 | 188 | 164 | 215 | 226 | 203 |
| December... | 222 | 212 | 250 | 171 | 184 | 164 | 195 | 227 | 204 |
| 1919. |  |  |  |  |  |  |  |  |  |
| January... | 222 | 209 | 234 | 170 | 172 | 161 | 191 | 218 | 212 |
| February. | 218 228 | ${ }_{205}^{197}$ | 223 216 | 169 168 | 168 162 | 163 <br> 165 | 185 | 218 | 208 |
| April... | 235 | 212 | 217 | 167 | 152 | 162 | 178 | 217 | 216 |
| May... | 240 | 216 | 227 | 167 | 152 | 164 | 179 | 217 | 213 |
| June... | 231 | 206 | 258 | 170 | 154 | 175 | 174 | 233 | 212 |
| July... | 246 | 218 | 282 | 171 | 158 | 186 | 171 | 245 | 221 |
| August.. | 243 | 228 | 303 | 175 | 161 | 209 | 172 | ${ }_{259}^{259}$ | 225 |
| September | ${ }_{220}^{228}$ | 212 | 306 313 | 181 | 160 | 229 | 173 | 264 | 227 |
| October... | 230 | 211 | 313 | 181 | 161 | 231 | 174 | 264 | 220 |
| November. | 240 | 219 | 325 | 179 | 164 | 236 | 176 | 299 | 220 |

Group index numbers-United Kingdom Statist.

| $l$ |
| :--- | :--- |

Group index numbers-United Kingdom Statist-Continued.

| Date. | Vegetable foods. | Animal foods. | Sugar, coffer, tea. | Foodstuffis. | Minerals. | Textlles. | Sundries. | Materials. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1918. |  |  |  |  |  |  |  |  |
| May.. | 241 | 203 | ${ }_{232}^{231}$ | 222 | 165 | 263 | 250 | 228 |
| July... | 249 | 201 | 232 | 224 | 175 | 261 | 250 250 | 228 |
| August... | 256 | 201 | 230 | 226 | 173 | 277 | 249 | 232 |
| September... | 250 | 220 | 232 | 233 | 172 | 275 | 246 | 230 |
| October.... | 254 | 230 | 234 | 240 | 173 | 266 | 246 | 228 |
| November..... | 256 | 230 | 236 | 241 | 166 | 256 | 243 | 222 |
| December. | 256 | 230 | 236 | 241 | 161 | 258 | 250 | 224 |
| 1919. |  |  |  |  |  |  |  |  |
| January.... | 249 | 226 | 221 | 234 | 159 | 246 | 246 | 218 |
| February... | 250 240 | ${ }_{205}^{226}$ | ${ }_{238}^{221}$ | 235 | $\begin{array}{r}156 \\ 154 \\ \hline\end{array}$ | 242 | 235 248 | ${ }_{213}^{212}$ |
| April....... | 243 | 206 | 228 | 224 | 154 | ${ }_{239} 235$ | 243 | ${ }_{213}$ |
| May...... | 244 | 208 | 236 | 226 | 177 | 253 | 258 | 230 |
| June... | 246 | 208 | 243 | 229 | 182 | 258 | 271 | ${ }^{239}$ |
| July...... | 244 | 208 | 275 | 231 | 202 | 256 | 284 | 250 |
| August.. | 254 | 208 | 320 | 242 | 208 | 272 | 283 | 254 |
| September.. | 258 | 208 | 327 | 244 | 206 | 286 | 279 | ${ }^{257}$ |
| October...... | ${ }_{268}^{280}$ | 226 | 322 332 | 253 | 222 180 | 305 296 | ${ }_{328}^{284}$ | 270 280 |
| November...... | 266 | 226 | 332 |  |  | 296 |  |  |

Group index numbers-France and Italy.

${ }^{1}$ Group index numbers January-September, 1918, not available in this country.

Group index numbers-Sweden, Official.
[1913=100.]

| Date. | $\begin{aligned} & \text { Vegetable } \\ & \text { food. } \end{aligned}$ | $\underset{\text { food. }}{\text { Animal }}$ | $\underset{\text { materials }}{\text { Raw }}$ for agriculture. | Coal. | Metals. | Building material. | Paper pulp. | $\begin{gathered} \text { Hides } \\ \text { and } \\ \text { leather. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1913-14. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| $1914{ }^{1}$ | 136 | 101 | 114 | 123 | 109 | 104 | ii6 | 118 |
| 1915. 1916. | 151 | 140 182 | 161 180 | 177 | 166 272 | 118 | ${ }_{233}^{116}$ | ${ }_{229}^{158}$ |
| 1917. | 181 | 205 | 198 | 551 | 405 | 215 | 267 | 206 |
| 1918........ | 221 | 419 | 304 | 856 | 398 | 275 | 300 | 195 |
| 1918. |  |  |  |  |  |  |  |  |
| October. | 276 | 487 | 318 | 826 | 382 | 293 | 309 | 208 |
| November. | $\stackrel{276}{276}$ | 486 | 318 | 780 | 385 | ${ }_{293}^{293}$ | 315 | ${ }^{208}$ |
| December.......... | 276 | 482 | 318 | 844 | 384 | 293 | 327 | 208 |
| 1919. |  |  |  |  |  |  |  |  |
| January.. | ${ }_{276}^{276}$ | 483 | ${ }_{356}^{356}$ | 810 | 373 | ${ }_{293}^{293}$ | 323 | 208 |
| March.... | 276 | 438 | 356 | 814 | 317 | 288 | 323 | 174 |
| April.......... | 276 | 423 | 367 | 769 | 287 | 288 | 323 | 172 |

${ }^{1}$ Average for the six months ending Dec. 31, 1914.
Group index numbers-Canadian Department of Labor. ${ }^{1}$

| Date. | $\begin{aligned} & \text { Grains } \\ & \text { and } \\ & \text { fodder. } \end{aligned}$ | Animals and meats. | Dairy products. | Fruits and vegetables. | Other foods. | Textiles. | Hides, leather, etc. | Metals. | Implements. | Building materials, etc. | Fuel and lighting. | Drugs and chemicals. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1913. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1914. | 114 | 107 | 100 | 99 | 104 | 102 | 105 | 96 | 101 | 100 | 94 | 106 |
| 1915. | 136 | 104 | 105 | 93 | 121 | 114 | 110 | 128 | 106 | 97 | 92 | 160 |
| 1916. | 142 | 121 | 119 | 130 | 136 | 148 | 143 | 167 | 128 | 100 | 113 | 222 |
| January... 1917. | 174 | 138 | 157 | 196 | 154 | 165 | 174 | 177 | 153 | 105 | 153 | 228 |
| February.. | 178 | 146 | 156 | 224 | 155 | 171 | 168 | 197 | 157 | 107 | 150 | 231 |
| March..... | 185 | 149 | 145 | 241 | 156 | 177 | 161 | 202 | 157 | 109 | 161 | 238 |
| April. | 201 | 157 | 140 | 246 | 168 | 182 | 161 | 210 | 157 | 113 | 143 | 241 |
| May.. | 222 | 171 | 143 | 269 | 195 | 189 | 173 | 222 | 159 | 115 | 151 | 243 |
| June... | 214 | 165 | 134 | 289 | 192 | 199 | 174 | 228 | 178 | 116 | 162 | 229 |
| July ... | 216 | 163 | 136 | 258 | 187 | 205 | 169 | 230 | 184 | 123 | 194 | 232 |
| August. | 216 | 160 | 147 | 214 | 192 | 210 | 171 | 233 | 189 | 124 | 184 | 231 |
| September | 207 | 163 | 149 | 250 | 189 | 212 | 170 | 233 | 188 | 124 | 190 | 239 |
| October... | 205 | 166 | 159 | 170 | 189 | 222 | 163 | 226 | 188 | 125 | 154 | 236 |
| November. | 222 | 169 | 160 | 220 | 192 | 233 | 163 | 220 | 187 | 128 | 158 | 243 |
| December. | 228 | 173 | 165 | 220 | 194 | 247 | 166 | 221 | 187 | 130 | 158 | 247 |
| 1918. |  |  |  |  |  |  |  |  |  |  |  |  |
| January..... | 232 | 181 | 168 | 216 | 195 | 250 | 160 | 217 | 189 | 131 | 159 | 255 |
| February.. | 242 | 184 | 171 | 221 | 202 | 250 | 156 | 223 | 203 | 132 | 160 | 260 |
| March..... | 258 | 191 | 159 | 214 | 203 | 255 | 156 | 226 | 210 | 143 | 161 | 256 |
| April...... | 251 | 198 | 157 | 215 | 204 | 257 | 154 | 222 | 209 | 148 | 162 | 243 |
| May....... | 236 | 221 | 155 | 203 | 210 | 264 | 173 | 237 | 206 | 148 | 163 | 242 |
| June... | 227 | 210 | 155 | 224 | 210 | 278 | 173 | 237 | 210 | 149 | 200 | 259 |
| July.... | 229 | 205 | 163 | 234 | 214 | 283 | 173 | 238 | 212 | 150 | 205 | 259 |
| August.... | 227 | 199 | 165 | 217 | 214 | 284 | 174 | 236 | 220 | 152 | 205 | 250 |
| September. | 214 | 199 | 170 | 206 | 220 | 287 | 177 | 235 | 224 | 153 | 206 | 244 |
| October... | 227 | 198 | 179 | 199 | 226 | 286 | 179 | 231 | 230 | 153 | 208 | 244 |
| November. | 216 | 186 | 186 | 213 | 227 | 291 | 179 | 230 | 231 | 154 | 210 | 244 |
| December. | 207 | 171 | 190 | 208 | 227 | 290 | 171 | 217 | 214 | 154 | 211 | 244 |
| $\begin{array}{r} 1919 . \\ \text { January } \end{array}$ | 198 | 191 | 191 | 206 | 223 | 293 | 171 | 204 | 229 | 154 | 209 | 240 |
| February. | 192 | 191 | 178 | 188 | 218 | 281 | 162 | 189 | 229 | 155 | 202 | 233 |
| March..... | 199 | 196 | 171 | 189 | 219 | 282 | 162 | 172 | 229 | 156 | 199 | 212 |
| April. | 217 | 209 | 184 | 198 | 213 | 284 | 166 | 162 | 223 | 153 | 206 | 210 |
| May... | 231 | 213 | 181 | 209 | 213 | 277 | 202 | 162 | 223 | 153 | 192 | 208 |
| June... | 238 | 213 | 179 | 221 | 215 | 274 | 211 | 161 | 226 | 158 | 194 | 197 |
| July... | 240 | 216 | 186 | 200 | 218 | 278 | 235 | 166 | 226 | 168 | 194 | 195 |
| Angust. | 243 | 215 | 189 | 210 | 224 | 277 | 260 | 171 | 228 | 170 | 199 | 196 |
| September | 232 | 201 | 193 | 195 | 227 | 282 | 256 | 171 | 231 | 183 | 200 | 197 |
| October... | 232 | 180 | 204 | 178 | 228 | 289 | 252 | 165 | 225 | 188 | 201 | 198 |
| November... | 240 | 175 | 221 | 240 | 230 | 298 | 252 | 171 | 232 | 194 | 201 | 181 |

${ }^{1}$ Unimportant groups omitted.

In England and the United States commodities in the textile and clothing group have risen more radically in price than other commodities, food products being in much closer agreement with the general price level. In France "materials" as a group have risen more than foods and in Italy cereals and meats have remained comparatively cheaper than other commodities. The same may be said of vegetable but not of animal food in Sweden. In Italy minerals and metals and textiles have risen more than other groups of commodities and in Sweden meats have risen only less radically than coal.

WHOLESALE PRICE STATISTICS IN OTHER FOREIGN COUNTRIES.

There are certain additional countries for which it would be highly desirable to have up-to-date index numbers, notably Germany, Spain, and Argentina. The situation in Russia is such that market quotations, if published, would be of little significance.

So far as we are aware, no general wholesale price index is being published currently in Germany. Prices have been published in the Vierteljahrshefte zur Statistik des Deutschen Reichs during the war on only a comparatively small number of commodities. Before the war, however, over 200 price quotations were published monthly, for approximately 40 commodities. These were not combined in an index but on the basis of these quotations an index could be constructed with little effort.

There is no wholesale price index published with regularity in Spain but judging from a preliminary survey of three leading financial journals (España economica y financiera, El financiero, Semaña financiera), it seems likely that prices of certain groups of commodities may be followed fairly satisfactorily.

So far as we know, there is no wholesale price index published in Argentina. We have not yet made a sufficiently careful study of the Argentinian material available in this country to know how feasible it will be to study prices there.

Before the war the Russian Ministry of Commerce and Industry published a wholesale price index annually, based on 66 commodities, practically unweighted. To judge of the representativeness of the list would require an intimate knowledge of Russian economical development such as we do not possess. By far the fargest number of commodities are quoted
in the unmanufactured state, but this is probably due to the comparatively undeveloped condition of Russian industry. We have no recent information regarding this index.

As regards the smaller countries of Europe, with the exception of Holland, wholesale price indexes are either not available at all or available on an annual basis only. In Belgium there is no wholesale price index published with regularity. The same situation exists in Spain and Norway. In Denmark the State Statistical Bureau publishes an annual index based on the import and export values of $38 \mathrm{com}-$ modities, weighted, so far as we can judge, on the basis of consumption. The Netherlands Statistical Office publishes monthly separate index numbers for 14 commodities, but no general index number has been compiled.

The Japanese Department of Agriculture and Commerce publishes an index number consisting of approximately 65 commodities, weighted roughly by allowing more than one quotation to important commodities. No statement is made as to the method of obtaining quotations. Both raw and manufactured articles are included in the list, although the predominance is given to raw materials.

## PLANS FOR ADDITIONAL INTERNATIONAL PRICE STUDIES.

When the Federal Reserve Board first authorized the study of foreign prices, it was with a view to constructing an international index of prices for the leading countries of Europe and the United States.

It was thought at that time that a group of commodities could be found which would serve as a pattern for a matched index for the leading industrial countries of the world, the idea being that the leading countries of Europe and America were similar enough for prices of one list of commodities to represent their different price levels with fair accuracy. Because of the extreme difficulty of obtaining price material for most of the foreign countries it was thought necessary to limit this list to what might be called basic commodities and a few leading manufactured materials. Accordingly a list was prepared of 65 of the most important commodities in American industrial life. An effort was then made to find quotations for similar commodities in the leading European countries. At the same time the American index was computed on this basis, and also a British index as closely matched as possible. As a result of this study it was concluded that the
method has serious theoretical drawbacks and that from a strictly practical point of view it is impossible of satisfactory execution with the price material available in this country. The most serious objection to such a method lies in the fact that no index can be constructed which will adequately measure the wholesale price level of a group of countries. Even countries which appear to be of practically the same general industrial development differ often very greatly in separate branches. For instance, corn is a commodity of enormous importance in the economic life of the United States, whereas it is of relatively small importance abroad. Countries whose industrial development is as similar as that of England, France, and Germany differ greatly as to the importance of basic commodities in their individual cases. Differences become much greater when countries of widely different development are included in the comparison.

Considered from a practical point of view, it was found impossible to match a considerable number of commodities in every country studied. Even in the case of England, for which we have a larger quantity of price material than for any other country, prices for several commodities could not be found.

A careful study of the results of the experiment with the matched index for the United States and England leads to the conclusion that it formed no better basis for comparison of prices in the two countries than the indexes of the Bureau of Labor Statistics and the Statist. The matched index for England was somewhat superior to the Statist in that it contained prices on a larger number of manufactured articles. It was impossible to obtain expert advice regarding the reliability of the price quotations used, however, or the market information necessary for the construction of a matched index. The matched index for the United States was obviously not so good as the index of the Bureau of Labor Statistics as a general wholesale price index since less inclusive*and therefore less representative.

It was decided therefore that if general wholesale price levels in several countries were to be compared, it would be necessary to con-
struct general price indexes for each of those countries. These indexes would obviously not consist of matched commodities, since every country differs from every other as regards the comparative importance of commodities in its industrial life, but would be constructed so as to represent the industrial characteristics of the respective countries. In other words, in countries of high industrial development it would be necessary to have prices of manufactured commodities included in the index; in countries of agricultural importance farm products would be emphasized, etc.
The survey of foreign price statistics showed that it would be impossible with the material available in this country to construct large general wholesale price indexes based upon the prices of manufactured goods as well as raw materials. At the same time it was apparent that with the use of a comparatively small number of quotations certain interesting and important economic problems could be studied currently in the case of a few of the leading countries at least. Experiments were therefore made with the classification of commodities into goods produced, imported, and exported for the United States and England which gave rather interesting results.

At the same time the opinions of certain leading economists in this field were obtained regarding the value of the matched index as compared with the representative commodity index as a basis for international price comparisons. The question of the advisability of the Federal Reserve Board's constructing a new type of index adapted to the study of business conditions, as well as the general price level, was also put to them. The classification of goods into those produced, imported, exported, and consumed was tentatively mentioned. There appears to be a difference of opinion regarding the value of the matched as compared with the representative commodity index, but considerable interest was shown in the idea of a new index and several valuable suggestions were received. The Board has these suggestions under consideration and will announce its plan for future international price studies as soon as it is completed.

GOLD POLICY AND FOREIGN COMMERCE OF THE SCANDINAVIAN COUNTRIES, 1914-1919.

## SCANDINAVIAN MONETARY UNION.

Sweden, Norway, and Denmark formed in 1873 what is known as the Scandinavian Monetary Union, by the terms of which the coins of each country were made legal tender in all the three countries. The standard coins, of the face value of 20 and 10 kroner, contain $T^{254}$ and $5^{\frac{1}{48}}$ of a kilogram of fine gold, respectively, and the Governments of the three countries were bound by the treaty to purchase gold from any person offering it at the fixed price of 2,480 kroner per kilogram, less a mintage charge of one-half per cent on the 10 -kroner piece and one-quarter per cent on the 20 -kroner piece. Expressed in American units, the 10 -kroner coin contains 62.2258 grains of pure gold and is worth $\$ 2.6799$, the mint value of a Scandinavian krona thus being 26.8 cents. Silver coins and subsidiary coins of the signatory powers are also legal tender throughout the Union territory up to amounts limited by the treaty, but bank notes are not legal tender outside of the country of issue.

Since the monetary policies adopted by Sweden were followed by the other two countries, the following discussion deals with Sweden in more detail than with Norway or Denmark.

## SUSPENSION OF GOLD PAYMENTS AND OF GOLD

 PURCHASES.At the outbreak of the Great War the authorities of the Bank of Sweden, alarmed by the public's demand for gold and fearing that the bank's reserves might become impaired by large withdrawals of gold, submitted to the legislature an amendment to the bank act which permits the King and the Parliament together, or when the Parliament is not in session, the King alone, to release the bank for a fixed period from the obligation to redeem its notes in gold on demand. Suspension of gold payments was sanctioned by royal order from May 11, 1915, to October 1 of the same year and was then extended to February 4, 1916. In the meantime the gold situation underwent a radical change and on January 3, 1916, the bank resumed gold payments.

During 1916 the gold holdings of the bank showed continuous and marked increases. From 142 millions in January they rose to 161 millions in February and to 184 millions in December. These additions to the gold re-
serves were the result largely of payment by belligerents for goods purchased in Sweden. A situation developed which has few, if any, precedents in the financial history of the world. A continuous stream of gold was pouring into the coffers of the Bank of Sweden, as it was under legal obligation to accept all this gold at its mint value. The bank had only two alternatives in dealing with the situation under the laws in force at the time-either to issue notes in return for all the gold and thereby increase the circulation of the country without reference to commercial needs, or to dispose of some of its earning assets and pay for the gold by notes thus obtained. The issue of notes in payment for gold would add nothing to the bank's earnings, since gold in vault under these circumstances would be a "dead" asset. Even less desirable appeared the sale of the bank's assets, as that policy would gradually transform it into a mere gold deposit vault with no earning power whatever. Swedish economists, confronted with this novel situation of a country with too much gold, reached the conclusion that, just as Swedish merchants would not accept the goods of any country except at the market price, neither should the bank accept gold on any other terms. Sweden needed goods, not gold, and if she could cause the outside world, especially England, to pay for purchases in Sweden by merchandise rather than gold, the country at large as well as the bank would be benefited. In view of these considerations, the bank sponsored another modification of its organic act, by which the King and the Parliament, or the King alone, when the Parliament is not in session, is authorized to suspend for a fixed period the bank's obligation to purchase gold in bars at the mint price; also to suspend the provisions of both the bank and mint acts according to which the bank as well as the mint were bound to pay gold coins for all gold bars tendered. ${ }^{1}$ This bill became law on February 8, 1916, and was to continue in operation to February 4, 1917, but has since been extended and is still in force. The order suspending gold purchases was issued on February 8,1916 , and the order suspending the free coinage of gold on April 28 of the same year.

At this point Sweden's gold policy came into conflict with the terms of the Scandinavian Monetary Union by which the three signatory powers had bound themselves to treat each other's gold coin as legal tender.
${ }^{1}$ For text of this bill see Federal Reserve Buleetin for May, 1018, p. 378 .

It was, therefore, necessary, before the suspension of gold purchases would become effective, to have Denmark and Norway adopt the same policy as that pursued by Sweden. At Sweden's request, after a conference of delegates of the three countries in Gothenburg on February 23 and 24, Denmark adopted this course on March 17, and Norway at about the same time.

To recapitulate: The Bank of Sweden up to the outbreak of the war was prepared to redeem all its notes in gold and to purchase whatever gold was offered at a fixed price. The practical result of the amendments to the bank and mint acts permitting the suspension of these functions in case of need is that Sweden in reality is prepared to redeem her notes in gold only so long as no great amount of notes is presented for redemption, and is ready to purchase gold at a fixed price only so long as no large amount of gold is tendered.

It may be noted that the bank was not prohibited from purchasing gold, but simply released from the obligation of purchasing it at a fixed price, and as a matter of fact purchases at a discount were made by the bank, although its operations in this line were not on so large a scale as those of the Bank of Spain (see Federal Reserve Bulletin for November, 1919, p. 1039). A measure of these gold purchases is afforded by the growth of the bank's gold holdings, which increased from 125 millions at the end of 1915 to 286 millions at the end of 1918. Possession of this gold, however, did not enable Sweden to secure from the belligerents the merchandise of which she stood in need, for gold had temporarily lost much of its purchasing power in the international market. If, indeed, Sweden's purpose in refusing to accept gold at par was primarily to induce England and other belligerents to pay for their purchases in goods, the policy was not a success, as goods could not be had at any price. As a matter of fact, imports of merchandise from England to Sweden declined from 214 million kronor in 1915, to 164 millions in 1916, and to 65 millions in 1917.

In its practical operation the suspension of the purchase of gold by the Scandinavian banks amounts to a temporary annullment of the essential feature of their Monetary Union, namely, the free circulation of all Scandinavian money throughout the Union territory. As a result, intra-Scandinavian trade balances must be settled by bills of exchange, and the currencies of the three countries, instead of being
interchangeable as was the case while the Monetary Union was in operation, have fluctuated in accordance with their respective trade balances. Thus, the Swedish krona has been at a premium in Norway and Denmark during most of the period under review owing to Sweden's more favorable trade balance with the European belligerent countries.

## foreign trade and foreign exchange.

In prewar years Sweden ordinarily imported more goods than she exported. Her exports consisted largely of timber, wood pulp, iron, and other raw materials, while her principal imports were food, textiles, and coal. The two principal countries with which Sweden traded were Germany and Great Britain. Import and export figures for Sweden are available to the end of the calendar year 1917. It will be seen from the table on page 39 that Sweden continuously exported more goods to Great Britain than she imported from that country. It will also be noted, however, that the excess of exports to Great Britain increased decidedly as the war progressed. During the year 1916 the exports were twice as large as the imports and during the year 1917 more than $3 \frac{1}{2}$ times as large. The table on page 42 and the chart on page 40 show fluctuations of exchange quotations in Stockholm. At the outbreak of the war the pound sterling was quoted in Stockholm slightly above par and rose somewhat during the following months, while gold payments were received from England for merchandise purchased in Sweden. This rise continued until March, 1915. From that time on, as the blockade of Germany became more effective and communication more hazardous, also as England's needs became more acute and as she restricted gold payments, the rates for sterling began to decline. By the end of 1915 the pound was quoted at more than 3 per cent discount and by the end of 1916 at more than 7 per cent discount. The decline continued until November 7, 1917, when it reached its lowest level, the discount during that month exceeding 28 per cent. From that time the rate advanced again with fluctuations, the more rapid advance taking place since the signing of the armistice in November, 1918. During December of the present year the British pound has been quoted at Stockholm above par.
Trade balances alone are not sufficient, however, to explain the changes in the value of
the British pound at Stockholm. Another factor is found in the toll collected by Sweden for the use of her ships. Sweden's earnings from foreign shipping, which were about 120 million kronor annually before the war, increased to 242 millions in 1915 and to 416 millions in 1916, while in 1917 they amounted to 229 millions. England alone incurred a bill for shipping amounting to 130 million kronor in 1916. As in the case of other neutrals, part of the claims on foreign countries was used by Sweden to repurchase a large amount of home securities owned abroad. During the period from July 1, 1914, to December 31, 1917, about 343 millions of Swedish securities were repatriated, about 76 millions of which came from England. While the income from the carrying trade operated to enhance Sweden's favorable trade balance, her purchases of securities held abroad were an offset againt her net exports of merchandise.

Sweden before the war was a heavy importer from Germany, having an unfavorable balance of trade amounting to about 100 million kronor a year. Beginning with 1915, however, this balance changed in Sweden's favor. At the same time Germany contributed to the earnings of the Swedish merchant marine, and, on the other hand, returned about 179 million kronor of Swedish securities. Mark quotations in Stockholm declined practically without a break from the beginning of the war until October, 1917, then rallied somewhat as the chances of a negotiated peace appeared brighter, only to decline again with the turning of the tide in favor of the Allies in June, 1918. From that time German exchange declined very rapidly, stood at about 41 per cent below par in November, 1918, when the armistice was signed, and continued to fall, reaching in November of this year the level of 85.4 per cent below par.

Throughout the war Sweden purchased more from the United States than she sold to this country, the amount of Sweden's unfavorable balance increasing very decidedly as the war progressed. At the same time, American exchange was below par at Stockholm for the reason that sterling exchange in New York was "pegged" at about 2 per cent below par. ${ }^{1}$ Examination of the table of foreign exchanges on page 42 and of the chart on page 40 shows that dollar exchange in Stockholm remained with remarkable constancy about 2 per cent above sterling until March, 1919,
${ }^{1}$ For discussion of the effect of pegging on dollar exchange see FedERAL RESEEVE BULLETIN for November, 1919, p. 1038 .
when Great Britain ceased to support her exchange in New York. As a result the dollar immediately rose above par and has remained so since that time. During November American exchange has been quoted in Stockholm at as much as 18 per cent premium, a condition which causes serious concern to Sweden's importers and to American exporters.

Norway's foreign commerce and exchange rates are shown in the tables on page 39 and page 43. In the case of Norway earnings from the foreign carrying trade are an even more important factor than in the case of Sweden. The following statement shows those earnings for the years 1911 to 1917:


From earnings averaging about 200 million kroner during the years 1911 to 1914 Norway's receipts from this source rose to 475 millions in 1915 , to 1,063 millions in 1916, and to 1,107 millions in 1917. It will be noted that during 1917 Norway's total imports were about 1,661 millions and her exports 791 millions, so that she had an unfavorable trade balance of about 900 millions. This balance, however, was more than offset by her earnings in the carrying trade. It will also be noted that the actual amounts carried did not increase materially and that the large returns were due to the enormous increase in rates. It is to be remembered, of course, that the extrahazardous nature of navigation in the submarineinfested waters necessitated large advances in freight rates. Nevertheless the increase in these rates is startling: Thus, for example, the rate per ton from the east coast of Great Britain to the eastern ports of Norway quoted at 4.6 kroner in January, 1914, advanced to 8.10 kroner in August and to 11.4 kroner by the end of the year. In 1915 the advance continued and at the end of that year the rate per ton was 18.7 kroner per ton. By the end of 1916 it was 45.5 kroner, while in 1917 the increase was nothing short of spectacular, as in June of that year it reached 260 kroner per ton. During the next three or four months,
which are the latest for which information is available, the rates declined somewhat and in September of that year were 205 kroner per ton.

Thus Norway, not being in a position to export as much merchandise as Sweden and being greatly in need of outside supplies, had an unfavorable merchandise balance even during the war years, but the earnings of her merchant marine considerably more than offset her excess of imports and her true international balance was decidedly favorable.
Denmark, being situated in greater proximity to belligerent Europe and having less immediate access to the northern sea where ocean communication was possible with much less danger from mines and submarines, was not able to do so great a business with Great Britain during the war as in previous years (see tables on pages 39 and 44). Her trade balance with Great Britain was favorable until 1916 but was against her in 1917. British exchange consequently never fell so low in Denmark as in Sweden, the lowest point being reached in November, 1917, when the pound was at about 19 per cent discount. It rallied soon thereafter, however, reached par early in 1919, and has been considerably above par since that time, - the latest quotations being approximately 10 per cent above par. Denmark's largest exports during the war were to Germany: from about 300 million kroner during 1914 her exports to that country increased to 487 millions in 1915 and to 691 millions in 1916. During 1917, doubtless as a result of allied pressure, the exports fell to 488 millions. At the same time Denmark's imports from Germany were considerably lower than before the war. Consequently German exchange in Copenhagen fell below par and continued to decline as her trade balance with Denmark became increasingly unfavorable. The German mark was quoted in Copenhagen at a 50 per cent discount in October, 1917, then rallied temporarily, only to decline again, and reached a level of about 83 per cent below par in November of this year.
Denmark, as the other Scandinavian countries, shows considerable earnings from her carrying trade, her income from this source, which was in the neighborhood of 100 millions a year during prewar times, being 219 millions in 1915, 351 millions in 1916 and 330 millions in 1917.

ASSETS AND LLABILITIES OF CENTRAL BANKS.
Tables are attached (pages 45 and 46) showing the assets and liabilities of the Bank
of Sweden (Sveriges Riksbank), the Bank of Norway (Norges Bank), and the National Bank at Copenhagen (Nationalbanken in Kjøbenhavn).
These banks have a monopoly of note issue in their respective countries, the Bank of Sweden being owned by the Government (or rather the houses of Parliament), while the Banks of Norway and of Denmark are privately owned but under Government supervision and sharing their profits with the Government.

It will be noted that the gold holdings of the Bank of Sweden increased from 109 million kronor at the end of 1914 to 286 millions at the end of 1918; the bank's holdings of bills payable in Sweden were much lower at the end of 1915 and 1916 than at the end of 1914, when they amounted to 175 millions, while at the end of 1918 they had increased to 280 millions. Holdings of bills payable abroad increased from 43 millions in 1914 to 91 millions in 1915, and 122 millions in 1916, but declined to 110 millions in 1917 and to 70 millions in 1918. Advances, other than in current account, largely on securities, show a rapid growth from 53 millions at the end of 1916 to 181 millions at the end of 1918 . On the liability side an expansion of note circulation from 304 millions in 1914 to 814 millions in 1918 is noted, while deposits increased from 108 millions in 1914 to 197 millions in 1917, but declined to 141 millions in 1918.

The Bank of Norway, for the period from December 31, 1914, to December 31, 1918, reports increases in gold reserves from 38 to 122 million kroner; in domestic discounts from 120 to 434 millions; in deposits from 21 to 128 millions; and in note circulation from 134 to 436 millions. The National Bank at Copenhagen shows a growth of its gold reserves from 79 million kroner on July 31, 1914, to 187 millions on July 31, 1919. During the same period its deposits in current account rose from 17 millions to 115 millions and its note circulation from 156 to 429 millions.

Sweden:
Handel, issued by the Department of Commerce, Sweden, for 19111919.

Kommercialla Meddelanden, issued by the Department of Commerce, for January, 1919.
Statistisk Arsbok, issued by the Swedish Government, for 1911-1918. De Svenska Statsmakterna och Krigstidens Folkhushollning, for 1917-18.
Reglemente for Forvaltningen of Sverigts Riksbank, issued by the Swedish Government in 1907.
Sveriges Riksbank, dess Tillkomst och Verksamhet, issued by the bank
Die Golpolitik der Bank von Schweden während der Kriges, by Albert Hahn, in Schmollers Jahrbush, 1917, second issue, p. 53.

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Sweden-Continued
Affarsverlden, Stockholm, for January-November, 1919.
Goteborgs Handels=och Sjofarts=Tidning (daily) Gothenburg, June-November, 1919.
Sveriges Riksbanks Arsbok, for 1911-1918.
Sveriges Skepsfart, Government report, 1918.
Gold after the war in relation to inflation and the foreign exchanges, by K. Wiksell, in the Economic Journal, December, 1918, p. 409. The depreciation of gold, by G. Cassel, in the Econlomic Journal September, 1917, p. 346.
The Scandinavian gold policy, by $K$. Wiksell, in the Economic Journal, September, 1916, p. 313.
The present situation of the foreign exchanges, by G. Cassel, in the Economic Journal, March, 1916, p. 62.
Denmark:
Danmarks Vareindiorsel-og Udforsel, issued by the Department of Statistics, 1911-1917.
Statistisk Aarbog, issued by the Government, 1911-1918.
Handelsberetning, issued by the Wholesale Dealers' Association, 1915-16.
Nationalbanken i Kjobenhavn Regnskab, 1911-1919.
Finanstidende, Copenhagen, March-November, 1919.
Lovtidende, July 13, 1908, Copenhagen.
Politiken (daily), Copenhagen, January-March, 1919.

## Vorway:

Handel, issued by the Government, 1911-1917.
Statistiske Meddelelser, issued by the Government, 1914-1915 and January-June, 1919.
Aarbok, issued by the Exchange at Bergen, Norway, 1916-1918. Les Lois de la Banque de Norvège, Christiania, 1909.
Statistisk Aarbok, issued by the Government, 1911-1918.
Aftenposten (daily), Christiania, August-November, 1919.
Norges Skibsfart, Government report for 1917.
See also Federal Reserve Bulletin, 1918, pp. 379-384.
Sweden's trade balance with principal countries for the years 1912-1917 (in 1,000 kronor).

| Countries. | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Germany: |  |  |  |  |  |  |
| Imports. | 273, 860 | 289,900 | 238,550 | 251, 500 | 420, 173 | 288,228 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| France: |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Imports. | 33,170 | 35, 280 | 28,880 | 23,796 | 23,562 | 15,706 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Exports | 32, 150 | 34, 400 | 41,208 | 33, 751 | 75, 395 | 50, 428 |
| Norway: |  |  |  |  |  |  |
| Tmports. | 23, 680 | 25,930 | 29,036 | 50,489 | 61,139 115,384 | 51,667 162,713 |
| Denmark: |  |  |  |  |  |  |
| Imports. | 49,640 | 53, 680 | 51,648 | 69,766 | 79,590 | 113,423 |
| Exports....... | 67,480 | 70,650 | 72, 850 | 80,395 | 93, 844 | 112,777 |
| Other countries: | 153, 130 | 158,350 | 116,910 | 211, 567 | 175, 744 | 128, 384 |
| Exports | 170, 970 | 175, 040 | 143, 562 | 278, 567 | 417, 580 | 391, 674 |
| Total impor | 782,890 | 846, 540 | 726,910 | 1,142,510 | 1, 138,560 | 758,610 |
| Total exports | 760, 470 | 817,340 | 772,350 | 1,316,360 | 1, 556, 380 | 349,551. |

Norway's trade balance with principal countries for the years 1912-1917 (in 1,000 kroner).

| Countries. | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Germany: |  |  |  |  |  |  |
| Imports. | 167,956 | 176,065 | 151,299 | 155, 218 | 176,471 | 156, 483 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Exports. | 94, 832 | 98,647 | 105, 707 | 187,672 | 274, 428 | 301, 893 |
| France: |  |  |  |  |  |  |
| Imports. | 15,075 | 11,719 | 10,587 | 13,853 | 23,349 | 30,997 |
| Exports. | 14,687 | 14,223 | 10,034 | 27,590 | 79,099 | 81, 584 |
| United States: Imports.... | 33,807 | 39,201 | 73,060 | 183,627 | 337, 998 | 551,397 |
| Exports. | 33, 432 | 30,222 | 44,864 | 33, 154 | 32, 387 | 22,438 |
| Sweden: |  |  |  |  |  |  |
| Imports. | 35,332 | 46,328 | 46,937 34,681 | 75,166 | 132,441 | 162,275 |
| Denmark: |  |  |  |  |  |  |
| Imports. | 26,996 | 28,347 | 29,400 | 33,351 | 69,140 | 104,476 |
| Exports....... | 8,440 | 9, 158 | 18,398 | 30,337 | 40,538 | 19,801 |
| Other countries: |  |  |  |  | 240,259 | 224,984 |
| Exports | 87, 819 | 146,713 | 120, 171 | 137, 827 | 201, 754 | 159,646 |
| Total impor | 525,735 | 552,321 | 567,277 | 867,988 | , 353, 685 | 1,661,308 |
| Total exports | 335,672 | 392, 631 | 410,022 | 676, 760 | 988, 333 | 791, 372 |

Denmark's trade balance with principal countries for the years 1912-1917 (in 1,000 kroner).

| Countries. | 1912 | 1013 | 1914 | 1915 | 1916 | 1917 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Germany: |  |  |  |  |  |  |
| Imports. | 314,248 | 328, 308 | 264, 653 | 200,380 | 265, 067 | 237,181 |
| Exports.... | 181, 646 | 178, 737 | 301, 424 | 486,701 | 690,900 | 488, 415 |
| Great Britain: |  |  |  |  |  |  |
| Exports. | 373,079 | 410,338 | 431,605 | 385, 114 | 351, 456 | 264,577 |
| France: |  |  |  |  |  |  |
| Imports. | 19,406 | 20,935 | 17,512 | 13,291 | 19,775 | 13,524 |
| Exports. | 3,302 | 3,342 | 6,415 | 5,511 | 1,767 | 1,806 |
| United States: Imports. | 69,354 | 86,979 | 84, 292 | 313,742 | 311,061 | 214,139 |
| Exports. | 9, 439 | 7,853 | 11, 661 | 12,694 | 9,397 | 4,052 |
| Sweden: |  |  |  |  |  |  |
| Imports. | 69,060 | 71, 104 | 83,097 | 92,805 | 117,130 | 137,150 |
| Exports. | 33, 352 | 34,083 | 37,960 | 67,772 | 63,280 | 113,245 |
| Norway: |  |  |  |  |  |  |
| Imports. | 9, 166 | 8,755 | 17,475 | 28,450 | 39,815 | 30,687 |
| Exports...... | 18,541 | 19,300 | 22, 843 | 32, 138 | 55,977 | 72,705 |
| Other countries: |  |  |  |  |  |  |
| Imports. | 362,082 | 380, 858 | 183, 062 | 255, 221 | 268,034 | 165,965 |
| Exports. | 223,441 | 242, 447 | 55, 538 | 139,333 | 136, 111 | 119,567 |
| Total impor | 979, 200 | , 031,500 | 795, 228 | 1,157, 324 | 1,357,400 | 1,082,460 |
| Total exports | 842, 800 | 896, 100 | 867, 446 | 1, 129, 263 | 1,308,888 | 1,064,457 |




Monthly high and low rates of exchange in Stockholm on principal foreign countries: 1914-1919.
[Par: $1 £=18.1505$ kronor; 100 francs= 72 kronor; 1 dollar= 3.7314 kronor; 100 Reichsmarken= 88.8888 kronor.]

| Month and year. | Exchange on- |  |  |  |  |  |  |  | Percentage of par (based on high rate). |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | London (par 18.16). |  | Paris (par 72). |  | New York (par 373). |  | Berlin (par 88.89). |  | London. | Paris. | New | Berlin. |
|  | High. | Low. | High. | Low. | High. | Low. | High. | Low. |  |  |  |  |
| 1914. | ${ }_{18}^{18.33}$ | 18.24 | 72.9074.50 |  |  |  |  |  |  |  |  |  |
| July..... |  |  |  | 72.50 73.00 |  |  | 89.10 89.25 | 89.00 89.15 | 100.93 101.32 | 101.25 103.47 |  | 100.24 100.41 |
| ${ }_{\text {Septembe }}$ | 18. 80 | 18.45 | 74.50 | 74.50 | $\ldots . .$. |  | 89.30 | 88.10 | 103.52 | 103.47 |  | 100.46 |
| October. | 18.95 | 18.80 | 75. 50 |  |  |  | 89.00 | 85.75 | 104.35 | 104.86 |  | 100.12 |
| November. | 19.1019.20 | 18.95 | $\begin{aligned} & 77.00 \\ & 77.50 \end{aligned}$ | $\begin{aligned} & \text { 75. } 50 \\ & 77.00 \end{aligned}$ |  |  | 88.5088 | 85.25 | 105.17 | 108.94 | ......... | 95.62 |
| December. |  | 19.15 |  |  |  |  |  |  | 105.72 | 107.64 |  | 99.56 |
| 1915. | 19.3519.45 | 19. 20 | 77.5078.00 | 77.30 | $\begin{aligned} & 400.00 \\ & 407.00 \end{aligned}$ | 398.00400.00 | 87.75 | 87.25 | 106. 55 | 107. 64 | 107.24 |  |
| January.. |  |  |  |  |  |  |  |  |  |  | 109.12 |  |
| March... |  | 19.10 | 78.00 | 75.50 | 408.00 | 398.0038600 | 84.7582.008.8 | 82.00 |  | 108.33 108.33 |  | 98.32 95.34 |
| April. | 19.50 | 18.50 | 75.25 |  | 397.00 |  |  | 79.00 | $\begin{aligned} & 107.37 \\ & 104.90 \end{aligned}$ | 104.51 | 109.38 | 92.25 |
| мау.. | 18.52 <br> 18.20 | 18.2518.10 | 73.00 71.00 | $\begin{aligned} & 71.00 \\ & 68.50 \end{aligned}$ | $\begin{aligned} & 386.00 \\ & 381.00 \end{aligned}$ | $\begin{aligned} & 381.00 \\ & 378.00 \end{aligned}$ | $\begin{aligned} & 80.00 \\ & 78.60 \end{aligned}$ | 78.20 | $\begin{aligned} & 101.98 \\ & 100.22 \end{aligned}$ | 101.3998.61 | $103.49$ |  |
| June.. |  |  |  |  |  |  |  | 77.10 |  |  | $\begin{aligned} & 100.14 \\ & 104.29 \end{aligned}$ | 90.00 88.42 |
| July... | 18.20 18.50 18. | 18.10 18.15 |  | $\begin{aligned} & 67.75 \\ & 65.75 \end{aligned}$ | $\begin{aligned} & 390.00 \\ & 390 \end{aligned}$ | 384.0038100 | 78.70 | 78.3078.55 | 100.77 | $\begin{aligned} & 97.92 \\ & 94.79 \end{aligned}$ |  | $\begin{aligned} & 90.52 \\ & 90.56 \\ & 88.54 \end{aligned}$ |
| August. | 18.3018.13 | 18.15 <br> 18.07 |  |  |  |  |  |  |  |  | 104.56105.90 |  |
| Septembe |  |  | 68.25 67.00 |  |  |  |  |  | 99.83 | 93.06 |  | $\begin{aligned} & 88.04 \\ & 89.72 \\ & 88.99 \\ & 86.91 \end{aligned}$ |
| October. | 18.06 | 17.50 |  | 63.00 | ${ }_{379}^{382.00}$ | 379.00 | 79.10 | 77.10 | 99.44 | 92.36 | 102.41 |  |
| December.......... | 17.60 | 16.83 16.45 | 64.50 | 59.70 | 372.00 | 350.00 | 72.00 | 68.25 | 96.91 | 89.58 | 99.73 | 81.00 |
| 1916. | 17.4517.37 | 17.00 | 62.8062.10 | 61.25 | 366.00364 | 358.0035200 |  |  |  |  |  | 77.96 |
| February |  |  |  |  |  |  | 69.30 66.65 | 64. 65 | ${ }_{95} 964$ | 87.22 86.25 | ${ }_{97.59}^{98.12}$ |  |
| March.. | 16.95 | 16.52 | 60.5058.00 | 58.1055.50 | $\begin{aligned} & 356.00 \\ & 348.00 \end{aligned}$ | $\begin{aligned} & 349.00 \\ & 334.00 \end{aligned}$ | 64.35 <br> 63.00 | $\begin{aligned} & 61.60 \\ & 60.80 \end{aligned}$ | $\begin{aligned} & 93.33 \\ & 90.69 \end{aligned}$ | ${ }_{80.56}$ | ${ }_{93.30}$ | 72.3970.87 |
| April. | 16. 47 |  |  |  |  |  |  |  |  |  |  |  |
| May.. | 15. 7516.85 | 15.35 | 51.1060.00 | 54.3556.00 | $\begin{aligned} & 348.00 \\ & 338.00 \end{aligned}$ |  | ${ }_{60}^{63.00}$ | 61.25 | 86.72 | 70.97 | 90.62 | 70.3171.16 |
| June. |  | 15.85 |  |  | $\begin{aligned} & 349.00 \\ & 358.00 \end{aligned}$ | $\begin{aligned} & 335.00 \\ & 352.00 \end{aligned}$ | 64.10 | 63.00 | ${ }_{93.33}^{92.78}$ | 83.82 | 93.57 <br> 95 <br> 98 |  |
| July.... | 16.95 <br> 16.80 | $\begin{aligned} & 16.35 \\ & 16.65 \end{aligned}$ | $\begin{aligned} & 60.35 \\ & 60.00 \end{aligned}$ | 58.25 |  |  | 64.10 63.10 |  | ${ }_{92} 93.51$ | 83.82 83.33 | 95.98 95.17 | 72.11 70.99 |
| August... | 17.05 | 16.65 | 61.25 | 59.75 | 361.00 | 353.00 | 62.75 | 62.00 | 93.88 | 85.07 | 96.78 | 70.59 |
| October | 16.85 | 16.72 | 60.75 | 60.50 | 357.00 | 353.00 | 62.10 | 61.75 | 92.78 | 84.38 | 95.71 | 69.86 |
| November. | 16. 87 | 16.75 | 60.85 | 60.50 | 357. 00 | 354.00 | 61.60 | 59.25 | 92.89 | 84.51 | 95.71 | 69.30 |
| December. | 16.77 | 16.12 | 60.50 | 58.25 | 354.00 | 343. 00 | 58.75 | 55.00 | 92.34 | 84.03 | 94.91 | 66.09 |
| January..... | 16. 25 | 16.07 |  | 58.05 | 344.00 | 340.00 | 57.50 | 56.75 | 89.48 | 81.60 | 92.23 | 64.68 |
| February | 16.18 | 16.11 | 58.50 | 58.00 | 341.00 | 340.00 | 57.25 | 56.00 | 89.09 | 81.25 | 91.42 | 64. 40 |
| March. | 16.50 | 15. 80 | 58.25 | 57.00 | 341.00 | 334.00 | 57.75 | 53.00 | 90.85 | 80.90 | 91.42 | 64.96 |
| April. | 16.35 | 15. 65 | 60.50 | 57.00 | 343.00 | 331.00 | 53.00 | 51.25 | 90.03 | 84.03 | 91.96 | 59.62 |
| May... | 15.98 | 15. 80 | 58.85 | 58.15 | ${ }^{336} .00$ | 334.00 | ${ }_{51.65}^{61}$ | 50. 50 | 87.99 | 81.74 | 90.08 | 58.11 |
| June. | 15.85 | 15. 61 | 58.25 | 57.30 | 334.00 | 329.00 |  | 44.50 | 88.79 | 80.90 | 89.54 | 56. 81 |
| July... | 15.58 | 14.30 14.00 | 57.30 53.00 | 52.50 51.25 | 329.00 305.00 | 302.00 297.00 | 47.00 43.25 | 43.00 41.65 | 80.74 <br> 9.85 | 79.58 | 88. 87 | 42.87 <br> 8. |
| August | 14.516 14.15 | 13.70 | $\stackrel{53.00}{51.75}$ | 49. 65 <br> 18 | ${ }^{399.00}$ | $\stackrel{288.00}{ }$ | ${ }_{41.65}$ | 40.25 40.200 | 77.97 | 71.88 | 80.16 | ${ }_{46.86}$ |
| October. | 13. 55 | 11.55 | 49.25 | 42.55 | 285.00 | 245.00 | 39.75 | 34.00 | 74.61 | 68.40 | 76.41 | 44.72 |
| November. | 13.00 | 11.00 | 47.50 | 40.25 | 275.00 | 234.00 | 45.00 | 33.00 | 71.58 | 65.97 | 73.73 | 50.62 |
| December. | 14. 50 | 13.25 | 53.50 | 47.00 | 308.00 | 280.00 | 59.50 | 50.00 | 79.84 | 74.31 | 82.57 | 66.94 |
| 1018. |  |  |  |  |  |  |  |  |  |  |  |  |
| January. | 14.50 14.85 | 13.95 14.20 | 53.25 <br> 55.00 | 51.50 52.50 | 307.00 312.00 | 297.00 300.00 | 62.00 62.50 | 55.00 55.00 | 79.84 81.77 | 73.96 76.39 | 82.31 83.65 | 69.75 70.31 |
| February | 14.85 15.00 | 13. 98 | 55.25 | 51.00 | 316.00 | 297.00 | 63.00 | 55.00 | 88.59 | 76.74 | 84.72 | 70.87 |
| April. | 14.20 | 13. 80 | 52.50 | 51.00 | 301.00 | 292.00 | 59.75 | 57.00 | 78.19 | 72.92 | 80.70 | 67.22 |
| May.. | 14.15 | 13.75 | 52.25 | 51.00 | 300.00 | 290.00 | 58.75 | 57.00 | 77.91 | 72.57 | 80.43 | 66.09 |
| June. | 14.00 | 13.42 | 51.75 | 49.50 | 296.00 | 288.00 | 57.75 | 49.25 | 77.09 | 71.88 | 79.36 | 64.97 |
| July.. | 13. 55 | 13. 29 | 50.00 | 49.00 | 287.00 | 280.00 | 51.00 | 47.00 | 74.61 | 69.44 | 76.94 | 55.37 |
| August. | 13.85 | 13. 20 | 58.75 | 48. 75 | 292.00 | ${ }^{278.00}$ | 47.50 50.00 | 45.00 | 76.26 88.59 | ${ }^{74} \mathbf{4} 65$ | 78.28 | ${ }_{56} 53.44$ |
| September | 15.00 16.85 | 14.03 15.10 | 58.00 64.50 | 53.70 58.00 | 320.00 355.00 | 296.00 318.00 | 50.00 59.50 | 45.00 47.50 | 82.59 92.78 | 88.58 | 85.79 95.17 | -66. 94 |
| Novembe | 17.10 | 16.65 | 66.00 | 64.25 | 362.00 | 350.00 | 52.50 | 44.75 | 94.16 | 91.67 | 97.05 | 59.06 |
| December. | 16.72 | 16.20 | 64.50 | 62.30 | 354.00 | 342.00 | 44.75 | 38.00 | 92.07 | 89.58 | 94.91 | 50.34 |
| 1919. |  |  |  |  |  |  |  |  |  |  |  |  |
| January.: | 17.00 16.98 | 16.28 16.87 | 65.50 65.50 | 62.75 65.10 | 358.00 358.00 | 354.00 | 42.50 | 45.50 | ${ }_{93.50}^{93.61}$ | 90.97 | ${ }_{95.98} 95.98$ | ${ }^{49.78}$ |
| March.. | 17.13 | 16.89 | 65.25 | 61.50 | 385.00 | 356.00 | 37.75 | 33.50 | 94.32 | 90.63 | 103. 22 | 42.47 |
| April. | 17.49 | 17.08 | 63.25 | 62.00 | 377.00 | 372.00 | 34.00 | 27.75 | 96.31 | 87.85 | 101.07 | 38.25 |
| May. | 18.40 | 17.49 | 63.00 | 59.00 | 396.00 | 376.00 | 36.25 | 27.50 | 101.32 | 87.50 | 106.17 | 40.78 |
| Jume. | 18.20 | 17.72 | 62.25 | 59.75 | 392.00 | 384.00 | 32.00 | 25.00 | 100.22 | 86.46 | 105.09 | 36.00 |
| July | 17.78 | 17.59 | 57.50 | 55.00 | 408.00 | 401.00 | 26.50 | 23.50 | 97.90 | 79.86 | 109.38 | 29.81 |
| August | 17.55 | 17.20 | 54.00 | 49.50 | 416.00 | 400.00 | 24.25 | 18.75 | 96. 64 | 75.00 | 111.53 | 27.28 |
| September | 17.27 | 16.85 | 53.00 50 | 44.50 47.25 | 415.00 421.00 |  |  |  |  | 73.61 69.44 | 111.26 112.87 | 22.50 19.69 |
| October.... | 17.47 19.90 | 17.13 17.53 | 50.00 48.00 | 47.25 46.00 | 441.00 441.00 | 407.00 421.00 | 17.50 13.00 | 13.00 10.00 | $\begin{array}{r}\text { 96. } \\ \text { 109 } \\ \hline 108\end{array}$ | 69.44 66.67 | 112.87 118.23 | 19.69 |

Monthly high and low rates of exchange in Christiania on principal foreign countries, 1914-1919.
[Par: $1 £=18.1595$ kroner; 100 francs= 72 kroner; 1 dollar= 3.7314 kroner; 100 Reichsmarken= 88.8888 kroner; 1 florin- 149.90 kroner.]


Monthly high and low rates of exchange in Copenhagen on principal foreign countries: 1914-1919.
[Par: $1 £=18.1595$ kroner, 100 franes $\Rightarrow 72$ kroner, 1 dollar $=3.7314$ kroner, 100 Reichsmarken $=88.8888$ kroner.]


Assets and liabilities of the Bank of Sweden on Dec. 31, 1914-1918 (in 1,000 kroner).
[Source: Riksbankens Arsbrook (the Bank of Sweden's year book).]

|  | 1914 | 1915 | 1916 | 1917 | 1918 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Assets. |  |  |  |  |  |
| Gold in coin and bullion | 108,537 | 124,572 | 183,520 | 244,457 | 285,566 |
| Subsidiary coin ......... | 1,888 | 2,134 | 2,339 | 1,600 | 365 |
| Checks and sight drafts, including foreign | 13,328 | 18,030 | 17, 170 | 25, 210 | 35,464 |
| Current account deposits held abroad... | 16,751 | 51,084 | 39,070 | 19,150 | 45,667 |
| Government securities . . . . . . . . . | 24,574 | 52, 156 | 62,910 | 59,856 | 54, 618 |
| Securities of domestic corporations | 3,002 | 5,334 | 5,692 | 5,539 | 5,046 |
| Bills payable in Sweden. | 174,938 | 113, 620 | 121, 623 | 186,345 | 280,306 |
| Bills payable abroad... | 43, 400 | 91,141 | 122,413 | 110,129 | 70,494 |
| Advances in current account. | 2,505 | 2,289 | 2, 498 | 1,396 | 1,202 |
| Other ad vances. | 42,694 | 24, 880 | 52,898 | 121,296 | 180,544 |
| Sundry assets. | 71,973 | 63,964 | 66,390 | 85, 030 | 92,310 |
| Total assets. | 503, 590 | 549, 204 | 676,523 | 860,008 | 1,051, 582 |
| LIABILITIES. |  |  |  |  |  |
| Capital. | 50, 000 | 50,000 | 50,000 | 50,000 | 50, 000 |
| Surplus. | 12,500 | 12,500 | 12,500 | 12,500 | 12,500 |
| Deposits. | 108, 144 | 129,069 | 173, 130 | 197,448 | 141,424 |
| Due to foreign banks. | 9,019 | 9,955 | 4,810 | 1,934 | ${ }^{313} 318$ |
| Notesincirculation. | 304, 058 | 327,886 | 417,517 | 572, 722 | 813, 534 |
| Bank orders....................... | 2,049 | 2, 608 | 3, 598 | 8,821 | 11,477 |
| Dividends due and payable to the Government | 8,800 | 8,760 | 8,120 |  |  |
| Sundry liabilities...... | 9,020 | 8,426 | 6,848 | 16,583 | 22,329 |
| Total liabilities. | 503,590 | 549,204 | 676,523 | 860,008 | 1,051,582 |

Assets and liabilities of the Bank of Norway on Dec. 31, 1914-1918 (in 1,000 kronor).
[Source: Regnskab for Norges Bank.]


2 Includes checking accounts.

Assets and liabilities of the National Bank at Copenhagen (Denmark) July 31, 1914-1919 (in 1,000 kroner).
[Source: Nationalbankens Regnskab.]


The French National Bank of Foreign Commerce. ${ }^{1}$
For about two decades the question of export banks has been under consideration in France. A solution is contained in the law of October 25, 1919. This law provides for the assignment to a "bank to facilitate the foreign trade of France" of a part of the supplementary tax paid to the Treasury by the Bank of France, in accordance with article 4 of the agreement of October 26, 1917, after deducting the amount to be devoted to agricultural credits by virtue of article 3 of the law of December 20, 1918. (For text of the law, see p. 48.)

The general plan of organization of the export bank is as follows: A stock company with a capital of $100,000,000$ francs is to be organized under the name of "French National Bank of Foreign Commerce." (Banque Nationale francaise du commerce extérieur.) The law provides for a subsidy to be granted by the Government to the bank.
Before entering upon an examination of the plan, it will be interesting to recall the phases through which the campaign for the establishment of export banks in France has passed, and to outline the present position of France in the matter of commercial export credit. M. Périer, commercial attaché of the London embassy, made a report in 1908 on the question of export credit which he thought was neglected by the French banks, and the report gave

[^3]rise to a great deal of controversy. Even prior to this discussion there had been publications on the subject and a committee of the foreign commerce counselors had taken up the subject on several occasions. The great credit houses and the banks having foreign relations were taken to task. They defended themselves by pointing to the services they were rendering to the export trade by discounting three months' paper and by credits which in some cases they were extending to their clients engaged in the export business. They declared with good reason that they could hardly undertake under all circumstances to handle paper which in the case of Italy matured within four or six months, in the case of Russia within six and even nine months, and in the case of South America in no less than four months. Since their deposits are nearly all payable on demand, they were not in a position to risk such an immobilization of their funds. Furthermore they were asked to take practically all the risk themselves. Their attention was called to the example of German banks, such as the Deutsche Bank and the Disconto-Gesellschaft, which went so far as to become silent partners in export industries. One fact was, however, overlooked, namely, that English merchants for a long time and German merchants since 1874 or 1875 had started to make regular commercial explorations of the countries where they wished to open markets. These pioneers broke the ground and were followed by their nationals who moved to those countries, and by settling
there established friendly centers of population. This made possible the building up of a valuable credit organization in foreign countries largely by utilizing information obtained among nationals of the mother country. Such methods were not practicable for France, which has no surplus population to send to foreign countries there to form a helpful nucleus for the development of commercial relations.

The problem is, therefore, a peculiarly difficult one for France. In writings published at that time it was remarked that only a special organization could undertake the risks and that the ablest and most experienced representatives of foreign commerce should be designated to take the lead in establishing such a bank, since they alone would possess the necessary knowledge of foreign markets and of the needs to be met.

A short time later, in 1910, the Bank of France decided to accept for discount commercial bills payable abroad, on condition that they be of French origin, or, if originating abroad, be made payable to merchants resident in France. The bank in this matter, however, maintained its old rules, by requiring for this class of paper three signatures and insisting on a maturity not exceeding three months.

It is clear that this fell far short of what was wanted by the advocates of export credit who saw in it an important, if not the prime, mover of foreign commerce. Advantage was therefore taken in 1911 of the Government's privilege of terminating the charter of the Bank of France to introduce into the agreement of renewal a clause designed to enhance the part of that bank in the matter of granting export credit. This clause granted authority to the bank to extend credits with maturities in excess of three months, a provision adrocated on the ground that, as was pointed out above, maturities of export credits would have to be as high as six months, nine months, and in certain cases even longer. The minister of finance at that time refused to have the fundamental statutes of the bank thus modified

It was at this juncture, while the renewal of the bank's charter was being discussed in the Senate, that a member of that body, M. Barbier, while recognizing that the bank could not directly participate in granting export credit, made the proposal suggested by the plan adopted in the organization of agricultural credit, that it would be proper to ask the Bank of France to give material and moral support to special institutions organized for the purpose of granting export credits. The
final solution arrived at is in line with this proposal, as proved by the law under discussion.

In the meantime, since direct assistance by the Bank of France on the desired basis was not to be permitted, and since it appeared impossible to modify the cautious methods of deposit banks, other means of attaining the end in view were considered. Nearly all the proposals provided that all banks without distinction were to grant export credits, while the Bank of France would help them to mobilize their holdings of long-term paper. None of these plans was ever adopted.

The solution, foreshadowed from the beginning when the participation of credit institutions was discussed, was finally along the following lines: Persons, the nature of whose business and connections made them directly interested in export credit, manufacturers for export, export merchants and brokers, to whom might be added ship brokers and navigation companies, should organize a bank of export, contribute its capital and intrust its management to one of their number, who by his experience in foreign commerce and his character was best qualified to undertake the task. This solution was adopted in principle, though the plan does not contemplate the establishment of an insti-. tution entirely independent and endowed exclusively with its own resources. The Government, with the proceeds of the circulation tax to be collected from the Bank of France, will, as in the case of agricultural credit, come to. the financial aid of the new institution.

An agreement has been entered into between. M. Klotz, minister of finance, and the founders of the "French National Bank of Foreign Commerce," organized as a stock company with a capital of $100,000,000$ francs, the founders being leading traders and bankers. This agreement contains the following provisions: The Government places at the disposal of the new institution two-thirds of the amounts paid to the Treasury by the Bank of France in accordance with article 4 of the agreement of October 26, 1917. ${ }^{1}$ These amounts shall be used: First, up to a maximum of 2 millions as an annual subsidy; secondly, for making advances during 20 years, the duration of the agreement, without interest up to a maximum of 25 million francs. The sums thus turned over by the Government are to be carried by the Bank of Foreign Commerce in a special account entitled "Special reserve account."

[^4]The subsidy will come to an end when the bank's capital will earn over 6 per cent, or when the advances made directly by the Government, together with the Government's participations in the profits turned back into this fund, in accordance with article 44 of the charter, will have reached the figure of the special reserve fund mentioned above. In any case, the period for which the annual payment of the 2 million franc subsidy will be obligatory for the Government will not be less than five years, beginning with January 1 of the year following the organization of the company. Among minor provisions the following are to be noted: The Government will have authority to draw for purposes of advances to the company in part on the fund made available to the Treasury for "assisting credit organizations," and the subsidy given by the Government shall be part of the annual profit and loss account of the Bank of Foreign Commerce.

The Government is to participate in the profits. From the earnings of the bank 5 per cent is to be deducted for the legal reserve and to make up a sum that would pay a cumulative 6 per cent dividend on the paid-in capital. The balance, except such sums as may be carried forward to the following year's account, is to be divided as follows as long as the régime of Government advances continues: Sixty per cent are to be placed at the disposal of the general assembly of stockholders, 5 per cent to the board of directors, 5 per cent to the staff, and 30 per cent to the Government. The Government, however, is to add its share of the profits to its advances to the bank until such time as these advances shall have reached $25,000,000$ francs. After this figure is reached the Government is to receive only 20 per cent of the profits and the board of directors and the staff 10 per cent each. The Government, as an interested party, will have supervisory control over the Bank of Commerce. Two Government examiners will audit the bank's inventory, its annual and current accounts, its cash in vault, its bill portfolio, and all its papers.

The bank is to have its central office in Paris. No branch or agency is to be permitted in France. The central office will collect information and keep the records of the solvency of foreign buyers. The bank must preserve
its character as a special export bank. The operations of the main office, according to the charter, are strictly limited to transactions arising from the export and import of merchandise, and the current accounts opened with the bank will bear interest only on credit balances arising from such transactions. Agencies of the bank abroad will havc authority to engage in ordinary banking business, except stock exchange and other speeulative operations.

## Law Authorizing Establishment of French National Bank of Foreign Commerce.

Article 1. The agreement entered into May 28, 1919, by and between the ministers of finance and of commerce, acting in the name of the Government, parties of the first part, and Messrs. J. Block, G. Griolet, and G. Fermé, acting in the name of the French National Bank of Foreign Commerce (in process of formation), parties of the second part, and the supplements to the said agreement dated July 21 and September 24, 1919, are approved.

Art. 2. The agreement and the supplements approved by the preceding article shall be recorded on payment of the regular fee of 3 francs and 75 centimes ( 3 fr .75 ); likewise the act of incorporation of the corporation.
Art. 3. The minister of finance is authorized to pay to the French National Bank of Foreign Commerce, after previous deduction of the amount allotted to the agricultural credit by article 3 of the law of December 20, 1918, two-thirds of the supplementary dues paid by the Bank of France under article 4 of the agreement of October 26 , 1917.

These payments shall be made:

1. As a subsidy which may attain a maximum amount of 2 million francs ( $2,000,000 \mathrm{fr}$.) per annum, this subsidy to be paid during a period of five years and to cease after that time if the stockholders of the French Bank of Foreign Commerce receive a net dividend in excess of six per cent $(6 \%)$, or if the amount of the special reserve fund mentioned below reaches the sum of 25 million francs ( $25,000,000 \mathrm{fr}$.).
2. The remainder, as an advance without interest, so long as the special reserve fund created by the payments of the Government shall not have reached the amount of 25 million francs ( $25,000,000 \mathrm{fr}$ ).

Art. 4. The following persons shall not be eligible to the administrative council of the French National Bank of Foreign Commerce or to any salaried positions within the administration of the society or its branches:

1. Members of Parliament.
2. Public officials or persons attached to a public office, who took part in the exercise of their official duties in the preparation of the agreement and the supplements approved by the present law and have not discontinued their functions for at least five months.
The present law has been discussed and adopted by the Senate and the Chamber of Deputies and will be enforced as the law of the land.
Done in Paris, the 23d of October, 1919.

## Foreign Exchange Rates.

In the tables and charts below are shown the movements of monthly high exchange rates in New York on (1) principal centers in allied countries, London, Paris and Milan; (2) principal centers in neutral countries, Amsterdam, Stockholm, Zurich, Madrid, and Buenos Aires; (3) principal center in countries having a silver standard, Bombay, Shanghai, and Hongkong. In the tables absolute rates and percentages of par are shown, while the curves are plotted on the basis of percentages of premium or discount at which the currencies of the different countries were quoted in the New York market. Similar information from the beginning of the war to the summer of 1918 was shown in the Federal Reserve Bulletin for September, 1918, pp. 837 et seq. The information here presented is for the calendar years 1918 and 1919. Explanations made in the previous study as to the basis of calculations apply also to the present tables and charts.

Sterling exchange remained fixed at about 2 per cent discount until April, 1919, when the British Government discontinued its "pegging" arrangement; French exchange was at about 9 per cent discount during the first seven months of 1918 and at about 5 per cent from August of that year to April, 1919; while lira exchange, after falling as low as 42 per cent discount in May, 1918, rose to about 19 per cent discount
in August, as the result of the activities of the National Institute for Foreign Exchanges, and remained at that level until April, 1919. When the exchanges were "unpegged" in March of this year, sterling, franc, and lira exchanges immediately fell below the previous level, and in December 1919 the high quotations were as follows: $\$ 3.9875$ for the pound, 10.08 cents for the franc, and 8.103 cents for the lira, the discounts amounting to 18.06, 47.77, and 58.02 per cent, respectively.

Exchange rates on neutral countries were all above par during 1918, Madrid exchange reaching a premium of over 54 per cent in April of that year. During the present year these exchange rates followed a downward course, and in October were all quoted below par. In December the Spanish peseta, the Argentine peso, and the Swiss franc were at a premium, while the Dutch florin and the Swedish krona were quoted at substantial discounts.
Spectacular advances in the price of silver, especially during the last six months, account for the rise in exchange rates on India and China. The price of the Indian rupee, however, being under direct control of the British Gorernment, has not risen as high as the price of the Hongkong dollar, which was quoted in December at about 125 per cent, or of the Shanghai tael, for which the high December quotation was about 160 per cent above the average 1913 bullion values of these coins.

Movement of exchange rates (highest rates for sight drafts during month) in New York on principal financial centers during period January, 1918, to December, 1919.

1. Rates on centers in principal allied countries.

|  | London ( $4.8665=100$ ) |  | Paris ( $19.3=100$ ). |  | Milan (19.3=100). |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1918. |  | Per cent. |  | Pracent. |  | Per cent. |
| January . | \$4.7535 | 97.68 | \$17. 53 | 90.83 | \$12.03 | 62.33 |
| February | 4.7535 | 97.68 | 17.51 | 90.73 | 11.76 | 60.93 |
| March. | 4.7535 | 97.68 | 17.47 | 90.52 | 11.98 | 62.07 |
| April. | 4.7550 | 97.71 | 17.49 | 90.62 | 11.38 | 58.96 |
| May. | 4.7550 | 97.71 | 17.53 | 90.83 | 11.15 | 57.77 |
| June. | 4.7550 | 97.71 | 17.50 | 90.67 | 11.29 | 58.50 |
| July ... | 4.7535 | 97.68 | 17.50 | 90.67 | 12.48 | 64.66 |
| August.. | 4.76 | 97.98 | 18.26 | 94.61 | 15.71 | 81.40 |
| September | 4.755 | 97.71 | 18.28 | 94.72 | 15.70 | 81.35 |
| October. | 4.755 | 97.71 | 18. 29 | 94.77 | 15.75 | 81.61 |
| November. | 4.7575 | 97.76 | 18.55 | 96. 11 | 15.75 | 81.61 |
| December. | 4.7585 | 97.78 | 18.34 | 95.02 | 15.748 | 81.60 |
| 1919. |  |  |  |  |  |  |
| January. | 4.7585 | 97.78 | 18.33 | 94.97 | 15.771 | 81.40 |
| February | 4.7585 | 97.78 | 18.328 | 94.96 | 15.718 | 81.44 |
| March | 4.7580 | 97.77 | 18.298 | 94.81 | 15.718 | 81.44 |
| April. | 4.6725 | 96.01 | 17.006 | 88.11 | 14.245 | 73.81 |
| May. | 4.6925 | 96.42 | 16.474 | 85.36 | 13.333 | 69.08 |
| June. | 4.6350 | 95.24 | 15.948 | 82.63 | 12.738 | 66.00 |
| July. | 4.57 | 93.91 | 15.396 | 79.77 | 12.706 | 65.83 |
| August. | 4.3550 | 89.49 | 13.698 | 70.97 | 11.60 | 60.10 |
| September. | 4.2625 | 87.59 | 12.787 | 66.25 | 10.559 | 54.71 |
| October. | 4.2325 | 86.97 | 11.933 | 61.83 | 10.256 | 53.14 |
| November. | 4. 1625 | 85.53 | 11.3058 | 58.58 | 9.94 | 51.50 |
| December. | 3.9875 | 81.94 | 10.08 | 52.23 | 8.103 | 41.98 |

Movement of exchange rates (highest rates for sight drafts during month) in New York on principal financial centers during period January, 1918, to December, 1919-Continued.
2. RATES ON CENTERS IN NEUTRAL COUNTRIES.

|  | $\begin{aligned} & \text { Amsterdam } \\ & (40.2=100) . \end{aligned}$ |  | Stockholm ( $26.8=100$ ). |  | Zurich (19.3=100). |  | Madrid (19.3= 100). |  | Buenos Aires ( $42.45=100$ ). |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 1918. |  | Per cent. |  | Per cent. |  | Per cent. |  | Per cent. |  | Per cent. |
| January. | \$44. 25 | 110.07 | \$34.25 | 127.80 | \$22.99 | 119.12 | \$24.40 | 126.42 | \$45.98 | 108.32 |
| February | 45.50 | 113.43 | ${ }^{33} 4.50$ | 125.00 | 2.42 | 116.17 | 25.25 | 130.83 | 44.04 | 103.75 |
|  | ${ }_{48}^{46.75}$ | 116.29 | 34.00 | 126.87 | ${ }_{3} 23.17$ | 120.05 | ${ }_{29}^{25.63}$ | ${ }^{132.80}$ | 44.44 | 104.69 |
| Mpris. | 480.50 | 125.62 | 34.75 | 129.66 | 26.11 | 135.28 | 28.40 | 147.15 | ${ }_{43.91}^{43.85}$ | 103.30 103.44 |
| June.. | 51.00 | 126.87 | 35.60 | 132.84 | 25.38 | 131.50 | 28.55 | 147.93 | 43.38 | 102.19 |
| July. | 52.00 | 129.35 | 35.80 | 133.58 | 25.38 | 131.50 | 27.55 | 142.75 | 44.83 | 105.61 |
| August | 52.75 | 131.22 | 36.25 | 135.26 | ${ }^{25.54}$ | 132.33 | ${ }^{26.50}$ | 137.31 | 44.60 | 104.97 |
| September | 49.50 | 123.13 | 33.75 | 125.93 | 23.04 | 119.38 | 23.37 | 121.09 | 45.00 | 106.01 |
| October. | 46.75 | 116.29 | 31.80 | 118.66 | 21.65 | 112.18 | 22.65 | 117.36 | 45.35 | 106.83 |
| November | 42.25 | 105.10 | 29.00 | 108.21 | 20.32 | 105. 28 | 20.70 | 107.25 | 45.50 | 107.18 |
| December | 42.75 | 106.34 | 29.45 | 109.88 | 20.92 | 108.39 | 20.20 | 104.66 | 45.35 | 106.83 |
| 1919. |  |  |  |  |  |  |  |  |  |  |
| January | 42.75 | 106.34 | 29.10 | 108.58 | ${ }^{20.746}$ | 107.49 | 20.14 | 104.35 | 45.15 | 106.38 |
| February | ${ }_{41}^{41.25}$ | 102.61 | 28.15 | 105.04 | 20.597 | 106.72 | 21.10 | 10933 | 44.95 | 105.89 |
| March | 41.125 | 102.30 | 28.15 | 105.04 | 20.70 | 107.25 | ${ }^{21.10}$ | 109.33 | 45.00 | ${ }_{104.01}$ |
| April | 41.25 | 102.61 | 27.125 | 101.21 | 20.3252 | 105. 31 | 20.375 | 105.57 | 44.375 | 104. 31 |
| Maye. | 40.25 | 100.12 | 26.70 | 99.63 | 20.3252 | 105.21 | 20.25 | 104.92 | 44.875 | 105.71 |
| June. | 39.25 | 97.64 | 26.25 | 97.95 | 19.305 | 100.03 | 20.06 | 103.94 | 44.07 | 103.82 |
| July.. | 38.75 | 96.39 | 25.50 | 95.15 | 19.08 | 98.86 | 19.72 | 102.18 | 43.25 | 101.88 |
| August | 37.5625 | 93.44 | 24.90 | 92.91 | 17.92 | 92.85 | 19.75 | 102.33 | 42.375 | 99.82 |
| Septembe | 38.125 | 94.84 | 24.60 | 91.79 | 18.28 | 94.72 | 19.25 | 99.74 | 43.25 | 101.88 |
| October. | 38.0625 | 94.68 | 24.60 | 91.79 | ${ }^{17.985}$ | 93.19 | 19.28 | 99.90 | 42.35 | 99.76 |
| November | 38.00 | 94.53 | 23.85 | 88.99 | 18.18 | 94.20 | 20.10 | 104.14 | 43.375 | 102.18 |
| December. | 38.25 | 95.15 | 22.30 | 83.21 | 20.08 | 104.04 | 18.90 | 103.11 | 43.25 | 101.88 |

3. RATES ON CENTERS IN SILVER COUNTRIES.

| 1918. | Bombay ( $32.44=100$ ). |  | Shanghai ( $65.40=100)^{\text {a }}$ |  | Hongkong (47.16=100). ${ }^{3}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Per cent. |  | Per cent. |  | Per cent. |
| January. | \$35.00 | 107.89 | \$114.00 | 174.07 | \$75.00 | 159.03 |
| February | ${ }^{35.75}$ | 110.20 | 1188.00 | 164.91 | 73.00 | 154.79 |
| March. | 36.00 | 110.97 | 111.00 | 169.49 | 77.00 | 163.27 |
| April. | ${ }^{1} 37.25$ | 114.83 | 10900 | 166.44 | 77.00 | 163.27 |
| May... | 39.50 | 121.76 | 109.50 | 167.20 | 76.50 | 162.21 |
| June... | 38.50 | 118.68 | 113.50 | 173.31 | 79.00 | 167.51 |
| July.. |  |  | 116.50 | 177.89 | 80.50 | 170.70 |
| August... | 235.73 | 110.14 | 125.00 | 190.87 | 88.00 | 186.60 |
| Oeptober... | ${ }^{2} 35.73$ | 110.14 | 135.00 134.00 | 200.14 | 99.00 | 190.84 |
| November. |  |  | 124.00 | 189.34 | 80.00 | ${ }_{168.64}^{186}$ |
| December. | 35.875 | 110.59 | 125.00 | 190.87 | 82.00 | 173.88 |
| 1919. |  |  |  |  |  |  |
| January. | 35.65 | 10990 | 126.00 | 192.40 | 81.00 | 171.76 |
| February | 35.65 | 10980 | 123.00 | 187.81 | 78.00 | 165.39 |
| March. | 35.875 | 110.59 | 114.00 | 174.07 | 75.25 | 159.56 |
| April. | 35.65 | 109.90 | 117.75 | 179.80 | 80.25 | 170.17 |
| May.. | 42.50 | 131.01 | 125.50 | 191.63 | 87.00 | 184.48 |
| June. | 42.50 | 131.01 | 127.50 | 194.69 | 84.00 | 178.12 |
| July. | ${ }^{43.00}$ | 132.55 | 125.00 | 199.87 | 83.00 | 176.00 |
| August... | 43.50 | 134.09 | 135.00 | 206.14 | 86.00 | 182.36 |
| September | 45.00 | 138.72 | 136. 50 | 208.43 | 88.50 | 187.66 |
| October. | 44.00 | 135.64 | 142.00 | 216.83 | 96.00 | 203. 56 |
| November.. | 44.75 46.25 | 137.95 | 173.00 | 264.16 | 106.00 | ${ }^{224.77}$ |
| December.. | 46.25 | 142.57 | 170.00 | 259.58 | 106.50 | 225.83 |

${ }_{2}^{1}$ Minimum rate for telegraphic transfers fixed Apr. 11 at 35.75; previously 33.5.
${ }^{2}$ Average 1913 values on the basis of the average price of silver in London for the calendar year 1913




## Retail Trade Index.

For several months past the Federal Reserve Board has been engaged in the development of an index number designed to show the activity of retail trade. In establishing this index it was sought to obtain from department stores of representative character throughout the country figures showing, either in actual amounts or in percentage form, changes in the volume of net sales, instituting monthly comparisons with the same month last year, as well as showing cumulative season percentages for the two years. In addition, request was made for data showing stocks at the close of the month as compared with such stocks at the close of the same month last year, and at the close of the previous month of the current year. In order to afford a comparison of stocks on hand at the close of each month during the present season with the sales during the same period, request was made for data showing the percentage of average stocks at the end of each month to the average
monthly sales. Finally, the percentage was requested of outstanding orders at the close of the month to total purchases during the calendar year 1918, which was taken as a base. While considerable progress has been made in several districts in obtaining the cooperation of retail establishments, it is not believed desirable to publish in any district such percentage figures until enough establishments have reported to furnish an index which is thoroughly representative of the general condition of trade. In the following statement is given a summary of the reports obtained in district No. 12, which will appear in the annual report of the Federal Reserve agent at San Francisco. These percentages have been computed from actual figures furnished by the several reporting concerns. Since the original request for such data in September of this year there has been an increase of about 30 per cent in the number of stores reporting in this district. Twenty-nine stores furnished such information for the month of November.

Condition of retail trade in Federal Reserve district No. 12.
[Decreases shown in italics.]

|  | Percentage of increase or decrease. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Comparison of net sales with those of corresponding period last year. |  |  |  |  |  |  |  | Stocks at end of month compared with- |  |  |  |  |  |  |  |
|  | Month. |  |  |  | July 1, 1919, to close of- |  |  |  | Same month last year. |  |  |  | Last month. |  |  |  |
|  | Aug. | Sept. | Oct. | Nov. | Aug. | Sept. | Oct. | Nov. | Aug. | Sept. | Oct. | Nov. | Aug. | Sept. | Oct. | Nov. |
| Los Angeles.. | 48.8 | 68.3 | 11.0 .6 | 88.7 | 58.3 | 52.9 | 69.9 | 77.2 | 6.3 | 0.6 | 13.9 | 19.5 | 5.5 | 4.2 | 5.6 | 0.7 |
| San Francisco. | 31.3 | 40.9 | 92.3 | 45.2 | 30.0 | 33.1 | 46.5 | 46.3 | \%. 5 | 10.6 | 15.5 | 26.5 | 15.6 | 13.2 | 9.7 | 2.2 |
| Oakland.... | 20.7 | 25.1 | 68.5 | 30.3 | 20.1 | 22.4 | 32.3 | 31.9 | ${ }^{7} 7.5$ |  | 1.4 | 4.9 | ${ }^{6.3}$ | 12.6 | 5.4 | $\stackrel{.}{1}$ |
| Sacramento. | 16.7 23.7 | 32.5 27.6 | 69.2 50.6 | 36.6 21.0 | 15.4 24.4 | 22.4 28.3 | 35.7 31.6 | 35.7 29.5 | 20.5 7.2 | 10.7 17.8 | ${ }^{4.6}$ | $\stackrel{15}{15}$ | 18.7 22.7 | 7 $\begin{array}{r}4.8 \\ 13.2\end{array}$ | 3.7 6.5 | 6.1 9 |
| Spartle... | 23.7 | 27.6 | 176.0 | 46.4 | 24.4 |  | 99.9 | 70.4 |  |  |  | 13.8 |  |  |  | 2.9 3.4 |
| Salt Lake City........Total for district. | 23.2 | 33.4 | 44.8 | 42.7 | 23.9 | 25.8 | 24.8 | 32.0 | ... |  | ... |  |  |  |  |  |
|  | 30.3 | 40.6 | 82.0 | 46.1 | 31.0 | 34.4 | 46.9 | 47.5 | . 9 | 7.0 | 11.9 | 17.5 | 12.6 | 6 10.3 | 6.5 | . 3 |
|  |  |  |  |  |  |  |  | Percentage of average stocks at end of each month from July 1, 1919, to date, to average monthly sales for same period. |  |  |  |  | Percentage of outstanding orders at end of month to total purchases during calendar year 1918. |  |  |  |
|  |  |  |  |  |  |  |  | Aug. | Sept. | Oct. | No |  | ug. | Sept. | Oct. | Nov. |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sacramento. |  |  |  |  |  |  |  | 468.2 | 400.7 | 355.9 |  |  |  |  |  |  |
| Seattle... |  |  |  |  |  |  |  | 411.6 | 459.0 | 422.3 |  |  | 29.2 | 28.3 | 25.1 | 22.1 |
| Spokane....... |  |  |  |  |  |  |  |  |  |  |  |  | 46.5 |  | 16.8 | 20.0 11.4 |
| Total for district. |  |  |  |  |  |  |  | 422.4 | 470.7 | 459.3 |  |  | 34.3 | 29.1 | 29.6 | 29.2 |

## Adjustment of Salaries in Federal Reserve Banks.

Early in the past summer the Division of Analysis and Research was directed by the Federal Reserve Board to undertake the development of a method of adjusting salaries in the Federal Reserve Banks to meet changes in the cost of living. The task naturally divides itself into three parts, as follows:
(1) The determination of price variations in the several classes of consumption goods in each locality.
(2) In order to arrive at the proper weighting for such price changes it is necessary to determine what percentage of the total expenditures of a typical family or individual goes for food, what for clothing, etc., in each salary group in each locality.
(3) In view of the great increase in prices during the last few years the problem is not simply one of adjusting salaries in the future to any changes in the cost of living that may then take place, but also one of determining as far as possible to what extent the advances that have already been made in the rates of compensation meet the enhanced cost of living at present.
Mature consideration of the problem and conferences with men who are daily in touch with the practical situation led to the adoption of the following plan of procedure:
(1) With regard to price variations. A recent study of the Bureau of Labor Statistics shows the changes in price levels of the various classes of consumption goods; that is, food, clothing, housing, etc., which have taken place during the past four or five years. Furthermore, it is the intention of the Bureau of Labor Statistics to repeat this study every six months in the future. It is believed that these figures, coupled with the regular monthly retail food price figures of the Bureau of Labor Statistics, will fully serve the purpose of this study in this respect.
(2) In order to give proper weighting to the price changes in each of these classes of goods the following questionnaire has been prepared. ${ }^{1}$ Each employee of the Federal Reserve Banks receiving a salary of $\$ 5,000$ per annum or less will be asked to give the information listed in this questionnaire.

Practically all such schedules previously used have been handled personally by trained enumerators and applied to selected family

[^5]groups which conformed to certain requirements. In the present case it is deemed best, in order to take every precaution against the divulgence of personal information, to ask the employee to fill in the schedule form privately and to place it unsigned in an envelope, which he or she will then seal and return to the governor of the bank or to some party designated by him, the name of the individual only appearing on a detached slip which is to be filed at the bank for checking purposes. Furthermore, the group to be covered in this study will lack homogeneity in that some of the individuals will be heads of families, some major supports of families, some partial supports of families, some living alone, and others only partially self-supporting. It is felt, however, that in order to secure weights that will be strictly relevant it is preferable to have proportionate expenditures for food, clothing, etc., of as many as possible of the people whose salaries are to be adjusted rather than of a homogeneous group representing one type. For this reason the necessarily brief questionnaire has been prepared in two slightly different forms, one to cover family and one to cover individual incomes and expenditures. One or the other of these forms is to be used as the case demands. Selections by the individual of the form which he or she is to fill in is to be made by such individual in accordance with instructions given on page 1 of the questionnaire.

In view of the fact that a large proportion of the employees of the Federal Reserve Banks are unmarried and live with parents (in some cases paying only a nominal amount for board and room, while others partially support the family), it is thought best to include in the schedule a question which will render it possible to select such cases for whatever treatment may be considered appropriate. In the belief that it will not be practicable to make differences in adjustments for variation in the size of families and, due to the absence of members of the family at various seasons of the year, that the replies to such a question would be of doubtful value, the usual question regarding the size of family has been omitted.
(3) With regard to changes in the rate of compensation during the last few years. Because of the large expansion of the banks during the period of the recent rise in prices it is believed that it will be impossible to get from the Federal Reserve Banks a complete record of compensation rates in effect prior to the recent rise in prices for each type of work now performed in the Federal Reserve Banks. It
seems, therefore, impossible to determine from the records of these banks alone the amount of adjustment in rates of compensation which has actually taken place since the recent rise in prices. In order to obtain this important information the following plan is being pursued: Each of the Federal Reserve Banks is being asked to furnish us with compensation rates now in effect for each type of work. These rates will be compared with those in effect during late 1915 or early 1916 in banking houses which were at that time fully organized.

QUESTIONNAIRE FOR USE IN OBTAINING INFORMATION REGARDING INCOME AND EXPENDITURES OF EMPLOYEES OF FEDERAL RESERVE BANKS. ${ }^{1}$
Before attempting to answer the questions on the following pages, read this page carefully.
If for the whole or a part of the Jear ending Dec. 31, 1919, vou were a marrled man and lived with your wife, or if you were a married woman and lived,zith your husband, or if you, whether married or unmarried, were the major support of the family group in which you lived, fill in section I (pages 2 and 3 ).
If during that period you were not included in the group described above, fill in Section II (pages 4 and 5)

NoTE.-II you feel that you could give the facts called for more accurately for the family group in which you lived than for yourself individually then fill in Section $I$, even if according to instructions above you should fill in Section II.

Or, if you were included in the group described in the first paragraph a bove for only a short period of time during the year ending Dec. 31, 1919 , and belleve therefore that your expenditures for that period are not and fill in. Section II. In this case you should, of course, estimate your individual expenditures for the full year on the basis of that part of the year during which you lived singly.

Under no circumstances fill in both Sections I and II.
The main purpose of the questions which follow is not to find out how much it costs you to live, but rather to determine what part of your expenditures goes toward clothing, what part toward food, what part toward rent, etc.

## [Perforated line.]

(Fill in this sllp, detach it, and file with bank.
Name.
Department.
Bank.
Branch
(After questionnaire is filled in, place it in envelope, seal, and return it to Governor of your bank.)

## 2

Section 1.
This section is to be filled in by those who, by reason of the fact that for the whole or a part of the year ending Dec. 31, 1919, they were married and lived with husband or wife, or were the major supports or the famiy groups in which they lived, or, for other reasons, are to give the income and expenditure facts for the family groups rather than for themselves individually.
Before filing in the answers to any of the following questions, read
Section I entire.

## EXPENDITURES.

1. Total rent paid during the year ending Dec. 31, 1919 (The amount entered here should be the totalrent paid for the apartment or house in which the family lived during the period mentioned, even if a part of such house or apart ment was occupied by lodgers. In case you were married paid during the period married. This item should not paidude amount covering board and room while on vacation.)
2. Rental value of home, If owned................................. (The meaning of ending Dec. 31, 1919, you owned your home, for bow much do you think you could have rented it for that period, as judged by rentals of similar houses In the neighborhood?)
${ }^{1}$ Copies of the questionnaire now in the hands of the banks are to be amended to accord with the copy here presented
3. Amount paid for heat, light, electric power, during the yeat ending Dec. 31, 1919........................................................... and covered by the rent is not to be included here. The
4. Amount paid for food during the year ending Dec. 31, 1919 (i) you have no record or 31, 1919, we would surgest that you estimate the amount spent per week for food during a typical week of that period and multiply that by 52 . The amount here should cover all food expenditures eren though a part of this lood is consumed by boarders. Amounts spent for lunches by members of the family should also be included, but not such expenditures of boarders and lodgers. In case you wore married for only a part of the bime, estimatethe amound for the yar at the rate of expenditures during the period married.)
ar ending Doc. 31 (The amount entered here should cover the clothin expenditures of the family group, but not those of boarders and lodgers. In case you were married for only part of the time, estimate such expenses for a full year.
5. Amount spent for furniture and house furnishings during yea
6. Miscellaneous Dec. 31, 1919
(a) Health (including doctors' fees, medicine, hos
pital bille, dentists' fees, nurses' fees, eye
(b) Recreation-
(1) Board and room while on vacation
(2) Movie tickets, theater tickets, pool, bil
liard and bowling charges, club dues,
(c) Education (including newspapers, magazines
school tuition, school supplies, music les
sons, ete.).
(d) Other misceilanoous items not mentioned

Total miscellaneous expenditures.
Total expenditures.
7. If your expenditures for the pear ending Doc 31 1010 oxceeded if your expenditures for the year ending Dec. 31, 1919, exceeded
your income for that period, how was this deficit met?
8. Did jou keep for all or a part of the year ending Dec. 31, 1919, a rec-
9. Did you keep duing the year ending Dec. 31, 1919, charge accounts With butcher?
Wing the year ending Dec. 21, 1919, charge accounts
Grocer?..... Clothier? ...... Were these paid by check? .......

## 3

## INCOME

1. Total salary received during the year ending Dec. 31, 1919 .... \$....
2. Bonus received during the year ending Dec. 31, 1919
(The amount entered after 1 and 2 should be, respectively, the amount of salary and bonus actually received for the year ending Dec. 31, 1919, regardless of whether or not you were employed during that time by the Federal here may have been received from other concerns than the Federal Reserve Pank with which you are now connected. In case you were married for only a part of the time, give your yearly salary at the rate received during the period married, and yearly bonus at rate accruing during period married.)
3. Total salary received by wife (or husband) during the year ending Dec. 31, 1919
4. Bonus received by wife (or husband) during the year ending Dec. ${ }^{31}$ (The amountsentered in 3 and 4 as the salary and bonus, respectively, of your wife (or husband) should be such salary and bonus received during that period, whether coming from the Federal Reserve Bank or from other time, give the yearly salary and bonus of your wife (or husband) for the year at the rate received during the period married, and yearly bonus at the rate accruing during the period married.
5. Total earnings of all other members of family group during the
year ending Dec. 31, 1919.
(The family group should include everybody living "earnings" here means pay received for work done. No amounts received by such members of the family group from investments, ete., should be entered. Only the earnings of the members of the family group as distinguished from the boarders and lodgers should be entered. The income of the boarders and lodgers should not be entered anywhere on these sheets.)
6. Totalincome from lodgers during the year ending Dec. 31, 1919 ......
7. Total income from table boarders during the year ending

Dec. 31, 1919..
(Lodgers and boarders within the meaning of these ques tions are those who rent rooms or board with the family on a purely commercial basis; that is to say, those who receive no aid from the faminy in the sense of reduced vidual or individuals both boarding and lodging with vidual or individuals both boarding and lodging with you and paying a flat sum covering ooth items, enter the after 7, then deduct this sum from the amount paid for board and lodging and enter the remainder after question 6.)

Total earnings .. $\$ \ldots$.

## 4

## SECTION II

This section is to be filled in by those who give their expenditures as ndividuals rather than family expenditures.
Before filling in the answers to any of the following questions read section II entire.

## EXPENDITURES.

If for the major portion of the year ending Dec. 31, 1919, you lived with your immediate family or nearest relatives, answer questions $2,4,5,6$,
7, and for the major portion of the year ending Dec. 31, 1919, you did not ive with your immediate family or nearest relatives, answer questions $1,2-B, 3,4,5,6,7$, and 8 .

1. Total rent paid during the year ending Dac. 31, 1919 (This question is to be answered only by those who fo not inve with their immediate family or nearest relatives In case you lived and boarded in the same place, paying a
single sum to cover the $t w o i t e m s$, determine the amonnt for which table board could be had at this place by one who rooms elsewhere, then deduct this amount from the amount paid for room and board, and consider the re mainder as the amount paid for rent. If for a portion of the year you were living with your immediate family or nearest relatives, the answer to this question should nevertheless cover a full year's rent at the rate paid during the part of the year in which you did not live with your immediately family or nearest relatives.)
2. (a) lunches, etc
(b) Amount paid weekly to family (This question, both (a) and (b), is to be answered only Dec. 31, 1919 , lived with theirimmediatefamily or neares relatives.)
2-B. Amount paid for food during the year ending Dec. 31, 1919 (This question is to be answered only by those who fo the major portion of the year ending Dec. 31 , 1919, did not live with their immediate family or nearest relatives In case you lived and boarded in the same place, paying a single sum to cover the two items, the answer to this question should be determined in this manner: Add to the amount for which table board could be had at this place by one who rooms elsewhere the amount spent year you didilive with your immediate family or nearest relatives, the answer to this question should nevertheless cover a full year, such a figure to be determined by first estimating the amount spent weekly for food during that part of the year in which you were not living with your mmediate family or nearest relatives and multiplying that figure by 52.)
3. Amount paid for heat and light during the year ending Dec. 31,

1919 . Whis question is to be answered only by those who for the major portion of the year ending Dec. 31,1919 did not live with their immediate family or nearest relatives immediate family or nearest relatives, the answer to this question should nevertheless cover a full year at the rate paid during that part of the year in which you did not ive with your immediate family or nearest relatives The cost of heat and light, which is included in rent, is not to be entered here.)
4. Amount paid for clothing during the year ending Dec. 31, 1919 3. Miscellaneous expenditures.
a) Health (ncluaing doctor's rees, medicine
nurses' fees, hospital bills, dentists' fees,
eyeglasses, etc.......................................
b) Recreation-
(1) Board and room while on vacation

Movie tickets, theater tickets, railroad
fares, pool, billiard and bowling
5. Miscellaneous expenditures-Continued.
(c) Education (including newspapers, magazines books, school tuition, school supplies, music
(d) Other miscellaneous items not mentioned above

6. If your expenditures during the year ending Dec. 31, 1919, exceeded your income for that period, how was such a deficit met
7. Did you keep for all or a part of the year ending Dec. 31,1919, a

If so for what part?
8. Did you, for any part of the year ending Dec. 31 , 1919 , live with your immediate family or nearest relatives? 5
income.

1. What is your sex
(Write the word.)
2. Total salary received during the year ending Dec. 31, 1919 . ... \$.
3. Bonus recerved during the year ending ............
$\qquad$
(The amounts entered after 2 or 3 should be, respectivelv, the amount of salary and bonus actually received for the year ending Dec. 31, 1919, regardless of Whether you Bank thus all or a part of the amount pederal keserve have been received from other concerns than the Federal Reserve Bank with which you are now connected.)
$\qquad$

## The Edge Act.

Senate bill 2472, known as the "Edge bill," providing for the incorporation of institutions to engage in international or foreign banking or other financial operations, was approved by the President on December 24. The act follows:
[Public-No, 106-66TH Congress.]
[S. 2472.]

An Act To amend the Act approved December 23, 1913, known as the Federal Reserve Act

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Act approved December 23, 1913, known as the Federal Reserve Act, as amended, be further amended by adding a new section as follows:
"BANKING CORPORATIONS AUTHORIZED TO DO FOREIGN BANKING BUSINESS.
"Sec. 25 (a). Corporations to be organized for the purpose of engaging in international or foreign banking or other international or foreign financial operations, or in banking or other financial operations in a dependency or insular possession of the United States, either directly or through the agency, ownership, or control of local institutions in foreign countries, or in such dependencies or insular possessions as provided by this section, and to act when required by the Secretary of the Treasury as fiscal agents of the United States, may be formed by any number of natural persons, not less in any case than five.
"Such persons shall"enter into articles of association which shall specify in general terms the objects for which the association is formed and may contain any other provisions not inconsistent with law which the association may see fit to adopt for the regulation of its business and the conduct of its affairs.
"Such articles of association shall be signed by all of the persons intending to participate in the organization of the corporation and, therealter, shall be forwarded to the Federal Reserve Board and shall be filed and preserved in its office. The persons signing the said articles of association shall, under their hands, make an organization certificate which shall specifically state:
"First. The name assumed by such corporation, which shall be subject to the approval of the Federal Reserve Board.
"Second. The place or places where its operations are to be carried on.
"Third. The place in the United States where its home office is to be located.
"Fourth. The amount of its capital stock and the number of shares into which the same shall be divided.
"Fifth. The names and places of business or residence of the persons executing the certificate and the number of shares to which each has subscribed.
"Sixth. The fact that the certificate is made to enable the persons subscribing the same, and all other persons, firms, companies, and corporations, who or which may thereafter subscribe to or purchase shares of the capital stock of such corporation, to avail themselves of the advantages of this section.
"The persons signing the organization certificate shall duly acknowledge the execution thereof before a judge of some court of record or notary public, who shall certify thereto under the seal of such court or notary, and thereafter the certificate shall be forwarded to the Federal Reserve Board to be filed and preserved in its office. Upon duly making and filing articles of association and an organization certificate, and after the Federal Reserve Board has approved the same and issued a permit to begin business, the association shall become and be a body corporate, and as such and in the name designated therein shall have power to adopt and use a corporate seal, which may be changed at the pleasure of its board of directors; to have succession for a period of twenty years unless sooner dissolved by the act of the shareholders owning twothirds of the stock or by an Act of Congress or unless its franchises become forfeited by some violation of law; to make contracts; to sue and be sued, complain, and defend in any court of law or equity; to elect or appoint directors, all of whom shall be citizens of the United States; and, by its board of directors, to appoint such officers and employees as may be deemed proper, define their authority and duties, require bonds of them, and fix the penalty thereof, dismiss such officers or employees, or any thereof, at pleasure and appoint others to fill their places; to prescribe, by its board of directors, by-laws not inconsistent with law or with the regulations of the Federal Reserve Board regulating the manner in which its stock shall be transferred, its directors elected or appointed, its officers and employees appointed, its property transferred, and the privileges granted to it by law exercised and enjoyed.
"Each corporation so organized shall have power, under such rules and regulations as the Federal Reserve Board may prescribe:
"(a) To purchase, sell, discount, and negotiate, with or without its indorsement or guaranty, notes, drafts, checks, bills of exchange, acceptances, including bankers' acceptances, cable transfers, and other evidences of indebtedness; to purchase and sell, with or without its indorsement or guaranty, securities, including the obligations of the United States or of any State thereof but not including shares of stock in any corporation except as herein provided; to accept bills or drafts drawn upon it subject to such limitations and restrictions as the Federal Reserve Board may impose; to issue letters of credit; to purchase and sell coin, bullion, and exchange; to borrow and to
lend money; to issue debentures, bonds, and promissory notes under such general conditions as to security and such limitations as the Federal Reserve Board may prescribe, but in no event having liabilities outstanding thereon at any one time exceeding ten times its capital stock and surplus; to receive deposits outside of the United States and to receive only such deposits within the United States as may be incidental to or for the purpose of carrying out transactions in foreign countries or dependencies or insular possessions of the United States; and generally to excerise such powers as are incidental to the powers conferred by this Act or as may be usual, in the determination of the Federal Reserve Board, in connection with the transaction of the business of banking or other financial operations in the countries, colonies, dependencies, or possessions in which it shall transact business and not inconsistent with the powers specifically granted herein. Nothing contained in this section shall be construed to prohibit the Federal Reserve Board, under its power to prescribe rules and regulations, from limiting the aggregate amount of liabilities of any or all classes incurred by the corporation and outstanding at any one time. Whenever a corporation organized under this section receives deposits in the United States authorized by this section it shall carry reserves in such amounts as the Federal Reserve Board may prescribe, but in no event less than 10 per centum of its deposits.
"(b) To establish and maintain for the transaction of its business branches or agencies in foreign countries, their dependencies or colonies, and in the dependencies or insular possessions of the United States, at such places as may be approved by the Federal Reserve Board and under such rules and regulations as it may prescribe, including countries or dependencies not specified in the original organization certificate.
(c) With the consent of the Federal Reserve Board to purchase and hold stock or other certificates of ownership in any other corporation organized under the provisions of this section, or under the laws of any foreign country or a colony or dependency thereof, or under the laws of any State, dependency, or insular possession of the United States but not engaged in the general business of buying or selling goods, wares, merchandise or commodities in the United States, and not transacting any business in the United States except such as in the judgment of the Federal Reserve Board may be incidental to its international or foreign business: Provided, however, That, except with the approval of the Federal Reserve Board, no corporation organized hereunder shall invest in any one corporation an amount in excess of 10 per centum of its own capital and surplus, except in a corporation engaged in the business of banking, when 15 per centum of its capital and surplus may be so invested: Provided further, That no corporation organized hereunder shall purchase, own, or hold stock or certificates of ownership in any other corporation organized hereunder or under the laws of any State which is in substantial competition therewith, or which holds stock or certificates of ownership in corporations which are in substantial competition with the purchasing corporation.
"Nothing contained herein shall prevent corporations organized hereunder from purchasing and holding stock in any corporation where such purchase shall be necessary to prevent a loss upon a debt previously contracted in good faith; and stock so purchased or acquired in corporations organized under this section shall within six months from such purchase be sold or disposed of at public or private sale unless the time to so dispose of same is extended by the Federal Reserve Board.
"No corporation organized under this section shall carry on any part of its business in the United States except such as, in the judgment of the Federal Reserve Board, shall be incidental to its international or foreign business:

And provided further, That except such as is incidental and preliminary to its organization no such corporation shall exercise any of the powers conferred by this section until it has been duly authorized by the Federal Reserve Board to commence business as a corporation organized under the provisions of this section.
"No corporation organized under this section shall engage in commerce or trade in commodities except as specifically provided in this section, nor shall it either directly or indirectly control or fix or attempt to control or fix the price of any such commodities. The charter of any corporation violating this provision shall be subject to forfeiture in the manner hereinafter provided in this section. It shall be unlawful for any director, officer, agent, or employee of any such corporation to use or to conspire to use the credit, the funds, or the power of the corporation to fix or control the price of any such commodities, and any such person violating this provision shall be liable to a fine of not less than $\$ 1,000$ and not exceeding $\$ 5,000$ or imprisonment not less than one year and not exceeding five years, or both, in the discretion of the court.
"No corporation shall be organized under the provisions of this section with a capital stock of less than $\$ 2,000,000$, one-quarter of which must be paid in before the corporation may be authorized to begin business, and the remainder of the capital stock of such corporation shall be paid in installments of at least 10 per centum on the whole amount to which the corporation shall be limited as frequently as one installment at the end of each succeeding two months from the time of the commencement of its business operations until the whole of the capital stock shall be paid in. The capital stock of any such corporation may be increased at any time, with the approval of the Federal Reserve Board, by a vote of two-thirds of its shareholders or by unanimous consent in writing of the shareholders without a meeting and without a formal vote, but any such increase of capital shall be fully paid in within ninety days after such approval; and may be reduced in like manner, provided that in no event shall it be less than $\$ 2,000,000$. No corporation, except as herein provided, shall during the time it shall continue its operations withdraw or permit to be withdrawn, either in the form of dividends or otherwise, any portion of its capital. Any national banking association may invest in the stock of any corporation organized under the provisions of this section, but the aggregate amount of stock held in all corporations engaged in business of the kind described in this section and in section 25 of the Federal Reserve Act as amended shall not exceed 10 per centum of the subscribing bank's capital and surplus.
"A majority of the shares of the capital stock of any such corporation shall at all times be held and owned by citizens of the United States, by corporations the controlling interest in which is owned by citizens of the United States, chartered under the laws of the United States or of a State of the United States, or by firms or companies, the controlling interest in which is owned by citizens of the United States. The provisions of section 8 of the act approved October 15, 1914, entitled 'An act to supplement existing laws against unlawful restraints and monopolies, and for other purposes,' as amended by the acts of May 15, 1916, and September 7, 1916, shall be construed to apply to the directors, other officers, agents, or employees of corporations organized under the provisions of this section: Provided, however, That nothing herein contained shall (1) prohibit any director or other officer, agent, or employee of any member bank, who has procured the approval of the Federal Reserve Board from serving at the same time as a director or other officer, agent or employee of any corporation organized under the provisions of this section in whose capital stock such member bank shall
have invested; or (2) prohibit any director or other officer, agent, or employee of any corporation organized under the provisions of this section, who has procured the approval of the Federal Reserve Board, from serving at the same time as a director or other officer, agent or employee of any other corporation in whose capital stock such first-mentioned corporation shall have invested under the provisions of this section.
"No member of the Federal Reserve Board shall be an officer or director of any corporation organized under the provisions of this section, or of any corporation engaged in similar business organized under the laws of any State, nor hold stock in any such corporation, and before entering upon his duties as a member of the Federal Reserve Board he shall certify under oath to the Secretary of the Treasury that he has complied with this requirement.
"Shareholders in any corporation organized under the provisions of this section shall be liable for the amount of their unpaid stock subscriptions. No such corporation shall become a member of any Federal reserve bank.
"Should any corporation organized hereunder violate or fail to comply with any of the provisions of this section, all of its rights, privileges, and franchises derived herefrom may thereby be forfeited. Before any such corporation shall be declared dissolved, or its rights, privileges, and franchises forfeited, any noncompliance with, or violation of such laws shall, however, be determined and adjudged by a court of the United States of competent jurisdiction, in a suit brought for that purpose in the district or territory in which the home office of such corporation is located, which suit shall be brought by the United States at the instance of the Federal Reserve Board or the Attorney General. Upon adjudication of such noncompliance or violation, each director and officer who participated in, or assented to, the illegal act or acts, shall be liable in his personal or individual capacity for all damages which the said corporation shall have sustained in consequence thereof. No dissolution shall take away or impair any remedy against the corporation, its stockholders, or officers for any liability or penalty previously incurred.
"Any such corporation may go into voluntary liquidation and be closed by a vote of its shareholders owning two-thirds of its stock.
"Whenever the Federal Reserve Board shall become satisfied of the insolvency of any such corporation, it may appoint a receiver who shall take possession of all of the property and assets of the corporation and exercise the same rights, privileges, powers, and authority with respect thereto as are now exercised by receivers of national banks appointed by the Comptroller of the Currency of the United States: Provided, however, That the assets of the corporation subject to the laws of other countries or jurisdictions shall be dealt with in accordance with the terms of such laws.
"Every corporation organized under the provisions of this section shall hold a meeting of its stockholders annually upon a date fixed in its by-laws, such meeting to be held at its home office in the United States. Every such corporation shall keep at its home office books containing the names of all stockholders thereof, and the names and addresses of the members of its board of directors, together with copies of all reports made by it to the Federal Reserve Board. Every such corporation shall make reports to the Federal Reserve Board at such times and in such form as it may require; and shall be subject to examination once a year and at such other times as may be deemed necessary by the Federal Reserve Board by examiners appointed by the Federal Reserve Board, the cost of such examinations, including the compensation of the examiners, to be fixed by the Federal Reserve Board and to be paid by the corporation examined.
"'The directors of any corporation organized under the provisions of this section may, semiannually, declare a dividend of so much of the net profits of the corporation as they shall judge expedient; but each corporation shall, before the declaration of a dividend, carry one-tenth of its net profits of the preceding half year to its surplus fund until the same shall amount to 20 per centum of its capital stock.
"Any corporation organized under the provisions of this section shall be subject to tax by the State within which its home office is located in the same manner and to the same extent as other corporations organized under the laws of that State which are transacting a similar character of business. The shares of stock in such corporation shall also be subject to tax as the personal property of the owners or holders thereof in the same manner and to the same extent as the shares of stock in similar State corporations.
"Any corporation organized under the provisions of this section may at any time within the two years next previous to the date of the expiration of its corporate existence, by a vote of the shareholders owning two-thirds of its stock, apply to the Federal Reserve Board for its approval to extend the period of its corporate existence for a term of not more than twenty years, and upon certified approval of the Federal Reserve Board such corporation shall have its corporate existence for such extended period unless sooner dissolved by the act of the shareholders owning two-thirds of its stock, or by an Act of Congress or unless its franchise becomes forfeited by some violation of law.
"Any bank or banking institution, principally engaged in foreign business, incorporated by special law of any State or of the United States or organized under the general laws of any State or of the United States and having an unimpaired capital sufficient to entitle it to become a corporation under the provisions of this section may, by the vote of the shareholders owning not less than two-thirds of the capital stock of such bank or banking association, with the approval of the Federal Reserve Board, be converted into a Federal corporation of the kind authorized by this section with any name approved by the Federal Reserve Board: Provided, however, That said conversion shall not be in contravention of the State law. In such case the articles of association and organization certificate may be executed by a majority of the directors of the bank or banking institution, and the certificate shall declare that the owners of at least two-thirds of the capital stock have authorized the directors to make such certificate and to change or convert the bank or banking institution into a Federal corporation. A majority of the directors, after executing the articles of association and the organization certificate, shall have power to execute all other papers and to do whatever may be required to make its organization periect and complete as a Federal corporation. The shares of any such corporation may continue to be for the same amount each as they were before the conversion, and the directors may continue to be directors of the corporation until others are elected or appointed in accordance with the provisions of this section. When the Federal Reserve Board has given to such corporation a certificate that the provisions of this section have been complied with, such corporation and all its stockholders, officers, and employees, shall have the same powers and privileges, and shall be subject to the same duties, liabilities, and regulations, in all respects, as shall have been prescribed by this section for corporations originally organized hereunder.
"Every officer, director, clerk, employee, or agent of any corporation organized under this section who embezzles, abstracts, or willfully misapplies any of the moneys, funds, credits, securities, evidences of indebtedness or assets of any character of such corporation; or who, without author-
ity from the directors, issues or puts forth any certificate of deposit, draws any order or bill of exchange, makes any acceptance, assigns any note, bond, debenture, draft, bill of exchange, mortgage, judgment, or decree; or who makes any false entry in any book, report, or statement of such corporation with intent, in either case, to injure or defraud such corporation or any other company, body politic or corporate, or any individual person, or to deceive any officer of such corporation, the Federal Reserve Board, or any agent or examiner appointed to examine the affairs of any such corporation; and every receiver of any such corporation and every clerk or employee of such receiver who shall embezzle, abstract, or willfully misapply or wrongfully convert to his own use any moneys, funds, credits, or assets of any character which may come into his possession or under his control in the execution of his trust or the performance of the duties of his employment; and every such receiver or clerk or employee of such receiver who shall, with intent to injure or defraud any person, body politic, or corporate, or to deceive or mislead the Federal Reserve Board, or any agent or examiner appointed to examine the affairs of such receiver, shall make any false entry in any book, report, or record of any matter connected with the duties of such receiver; and every person who with like intent aids or abets any officer, director, clerk, employee, or agent of any corporation organized under this section, or receiver or clerk or employee of such receiver as aforesaid in any violation of this section, shall upon conviction thereof be imprisoned for not less than two years nor more than ten years, and may also be fined not more than $\$ 5,000$, in the discretion of the court.
"Whoever being connected in any capacity with any corporation organized under this section represents in any way that the United States is liable for the payment of any bond or other obligation, or the interest thereon, issued or incurred by any corporation organized hereunder, or that the United States incurs any liability in respect of any act or omission of the corporation, shall be punished by a fine of not more than $\$ 10,000$ and by imprisonment for not more than five years."

Approved, December 24, 1919.

## Change in District Boundaries.

By act of its legislature, the State of Mississippi has created a new county under the title of "Humphreys," by assigning thereto territory formerly included partially in each of Sharkey, Yazoo, Washington, Sunflower, and Holmes Counties. Inasmuch as the newlycreated county embraced territory lying within both the Sixth and the Eighth Federal Reserve Districts, the Federal Reserve Board on December 12 reviewed the territorial boundaries of the two Federal Reserve districts and ordered that all of the territory lying within Humphreys County be assigned to the Eighth Federal Reserve District. The Board further defined the northern boundary of the Sixth Federal Reserve District in the State of Mississippi as the northern boundary lines of the counties of Issaquena, Sharkey, Yazoo, Madison, Leake, Neshoba, and Kemper, after the creation of the new county of Humphreys.

## Gold Certificates Legal Tender.

Below is reprinted the act making gold certificates legal tender:

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[Public-No.103-66Th Congress.]
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[S. 3458.]

An Act To make gold certificates of the United States payable to bearer on demand legal tender.
Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That gold certificates of the United States payable to bearer on demand shall be and are hereby made legal tender in payment of all debts and dues, public and private.
Sec. 2. That all Acts or parts of Acts which are inconsistent with this Act are hereby repealed.
Approved, December 24, 1919

## Election of Directors.

The following directors of Federal Reserve Banks have been elected for the three-year term beginning January 1, 1920.
District No. 1.-Boston:
Class A.-F. S. Chamberlain, New Britain, Conn.
Class B.-E. R. Morse, Proctor, Vt.
Class C.-Jesse H. Metcalf, Providence, R. I.
District No. 2.-New York:
Class A.-James S. Alexander, New York, N. Y.
Class B.-Charles A. Stone, New York, N. Y.
Class C.-Pierre Jay, New York, N. Y.
District No. 3.-Philadelphia:
Class A.-M. J. Murphy, Clarks Green, Pa.
Class B.-Alba B. Johnson, Philadelphia, Pa.
Class C.-H. B. Thompson, Wilmington, Del.
District No. 4.-Cleveland:
Class A.-Chess Lamberton, Franklin, Pa.
Class B.-R. P. Wright, Erie, Pa.
Class C.-L. B. Williams, Cleveland, Ohio.
District No. 5.-Richmond:
Class A.-J. F. Bruton, Wilson, N. C.
Class B.-J. F. Oyster, Washington, D. C.
Class C.-James A. Moncure, Richmond, Va.
District No. 6.-Atlanta:
Class A.-Oscar Newton, Jackson, Miss.
Class B.-W. H. Hartford, Nashville, Tenn. Class C.-W. H. Kettig, Birmingham, Ala.
District No. 7.-Chicago:
Class A.-Charles H. McNider, Mason City, Iowa.
Class B.-John W. Blodgett, Grand Rapids, Mich.
Class C.-E. T. Meredith, Des Moines, Iowa.
District No. 8-St. Louis:
Class A.-Sam A. Ziegler, Albion, Ill.
Class B.-W. B. Plunkett, Little Rock, Ark.
Class C.-C. P. J. Mooney, Memphis, Tenn.
District No. 9-Minneapolis:
Class A.-Theodore Wold, Minneapolis, Minn.
Class B.-F. R. Bigelow, St. Faul, Minn.
Class C.-C. H. Benedict, Lake Linden, Mich.
District No. 10.-Kansas City:
Class A.-W. J. Bailey, Atchison, Kans.
Class B.-M. L. McClure, Kansas City, Mo.
Class C.-F. W. Fleming, Kansas City, Mo.
District No. 11-Dallas:
Class A.-B. A. McKinney, Durant, Okla.
Class B.-Marion Sansom, Fort Worth, Tex.
Class C.-H. O. Wooten, Abilene, Tex.
District No. 12.-San Francisco:
Class A.-C. K. McIntosh, San Francisco, Calif.
Class B.-E. H. Cox, San Francisco, Calif.
Class C.-Edward Elliott, Berkeley, Calif.

## Directors of Los Angeles Branch.

The following are the directors of the Los Angeles branch of the Federal Reserve Bank of San Francisco which was organized and opened for business January 2, 1920: Mr. I. B. Newton, Mr. H. M. Robinson, Mr. J. F. Sartori, Mr. A. J. Waters, Mr. Ira Clerk.

The first two gentlemen have been appointed by the Federal Reserve Board, while the last three are the appointees of the Federal Reserve Bank of San Francisco.

Mr. I. B. Newton, prominent merchant of southern California, was for many years connected with Harper \& Reynolds Co., wholesale and retail hardware dealers of Los Angeles. He recently retired from active business. During the war he served on the Los Angeles subcommittee of the Twelfth District Committee on Capital Issues.

Mr. Henry M. Robinson is a well-known citizen of southern California. War activities brought him to Washington, where he served on the Shipping Board, at the end of the war going to Paris as one of the Economics Committee of Five assisting the American Peace Delegation. He was appointed by the President as a member of the Second Industrial Conference and, more recently, as a member, representing the public, of the commission to investigate wages and working conditions in the coal industry, provided for in the strike settlement agreement.

Mr. J. F. Sartori is president of the Security Trust \& Savings Bank and president of the Security National Bank, both of Los Angeles.

Mr. A. J. Waters is president of the Citizens National Bank of Los Angeles and president of the Los Angeles Clearing House Association.

Mr. Tra Clerk is assistant deputy governor of the Federal Reserve Bank of San Francisco, and has been appointed acting manager of the Los Angeles branch.

## Acceptances to 100 Per Cent.

Since the issuance of the December Bulletin the following banks have been authorized by the Federal Reserve Board to accept drafts and bills of exchange up to 100 per cent of their capital and surplus:

First National Bank, New Bedford, Mass.
First National Bank, Hoboken, N. J.
Marine Bank, Norfolk, Va.
Atlanta National Bank, Atlanta, Ga.
First National Bank, Clarksville, Tenn.

## Directors of Branch Banks.

Directors of branches of Federal Reserve Banks to serve for the year 1920 have been named as follows:

BALTIMORE BRANCH.
(Federal Reserve Bank of Richmond.)
Manager.-M. M. Prentis.
Directors.-M. M. Prentis, Charles C. Homer, William Ingle, Waldo Newcomer, H. B. Wilcox.

BIRMINGHAM BRANCH.
(Federal Reserve Bank of Atlanta.)
Manager-A. E. Walker.
Directors.-W. H. Kettig, Oscar Wells, T. O. Smith,
W. W. Crawford, John H. Frye.

BUFFALO BRANCH.
(Federal Reserve Bank of New York.)
Manager.-Ray M. Gidney.
Directors.-F. L. Bartlett, R. M. Gidney, Clifford Hubbell, E. C. McDougal, H. T. Ramsdell.

CINCINNATI BRANCH.
(Federal Reserve Bank of Cleveland.)
Manager.-L. W. Manning.
Directors.-Judson Harmon, Charles A. Hinsch, W. S. Rowe, L. W. Manning.

## DENVER BRANCH.

(Federal Reserve Bank of Kansas City.)
Manager.-C. A. Burkhardt.
Directors.-C. C. Parks, A. C. Foster, C. A. Burkhardt, John Evans, Alva Adams.

DETROIT BRANCH.
(Federal Reserve Bank of Chicago.)
Manager.--R. B. Locke.
Directors.-John Ballantyne, Emory W. Clark, Julius H.
Haas, Chas. H. Hodges, R. B. Locke.
EL PASO BRANCH.
(Federal Reserve Bank of Dallas.)
Manager.-R. R. Gilbert.
Directors.-U. S. Stewart, A. F. Kerr, R. R. Gilbert, W. W. Turney, A. P. Coles.

HOUSTON BRANCH.
(Federal Reserve Bank of Dallas.)
Manager.-Sam R. Lawder.
Directors.-Frank Andrews, J. C. Chidsey, J. J. Davis, Sam R. Lawder, G. M. Bryan.

JACKSONVILLE BRANCE.
(Federal Reserve Bank of Atlanta.)
Manager.-Geo. R. De Saussure.
Directors.-John C. Cooper, E. W. Lane, Bion H. Barnett, Giles L. Wilson, Fulton Saussy.

LITTLE ROCK BRANCH.
(Federal Reserve Bank of St. Louis.)
Manager.-A. F. Bajley.
Directors.-J. E. England, A. F. Bailey, Moorhead Wright, G. W. Rogers, C. A. Pratt.

LOS ANGELES BRANCH.
(Federal Reserve Bank of San Francisco.)
Manaqer.-Ira Clerk.
Directors.-Ira Clerk, A. J. Waters, I. B. Newton, H. M. Robinson, J. F. Sartori.

LOUISVILLE BRANCH.
(Federal Reserve Bank of St. Louis.)
Manager.-W. P. Kincheloe.
Directors.-Geo. W. Norton, W. C. Montgomery, W. P. Kincheloe, F. M. Sackett, E. L. Swearingen.

MEMPHIS BRANCH.
(Federal Reserve Bank of St. Louis.)
Manager.-John J. Heflin.
Directors.-R. Brinkley Snowden, John D. McDowell, John J. Heflin, T. K. Riddick, S. E. Ragland.

NASHVILLE BRANCH.
(Federal Reserve Bank of Atlanta.)
Manager.-Bradley Curry.
Directors.-W. H. Hartford, P. M. Davis, J. E. Caldwell, E. A. Lindsey, T. A. Embry.

NEW ORLEANS BRANCE.
(Federal Reserve Bank of Atlanta.)
Manager.-Marcus Walker.
Directors.-John E. Bouden, jr., P. H. Saunders, H. B. Lightcap, A. P. Bush, F. W. Foote, R. S. Hecht, Marcus Walker.

OMAHA BRANCH.
(Federal Reserve Bank of Kansas City.)
Manager.-O. T. Eastman.
Directors.-Luther Drake, Geo. E. Abbott, O.T. Eastman, P. L. Hall, R. O. Marnell.

## PITTSBURGH BRANCH.

(Federal Reserve Bank of Cleveland.)
Manager:-Geo. De Camp.
Directors.-Chas. W. Brown, James D. Callery, Harrison
Nesbit, R. B. Mellon, George De Camp.
PORTLAND BRANCH.
(Federal Reserve Bank of San Francisco.)
Manager.-C. L. Lamping.
Directors.-E. Cookingham, J. C. Ainsworth, C. L. Lamping, Nathan Strauss, Joseph N. Teal.

SALT LAKE CITY BRANCH.
(Federal Reserve Bank of San Francisco.)
Manager.-Chas. H. Stewart.
Directors.-L. H. Farnsworth, Chas. H. Stewart, Chapin A. Day, G. G. Wright, Lafayette Hanchett.

SEATTLE BRANCH.
(Federal Reserve Bank of San Francisco.)
Manager.-C. J. Shepherd.
Directors.-M. F. Backus, M. A. Arnold, C. J. Shepherd, C. H. Clarke, Chas. E. Peabody.

## SPOKANE BRANCH.

(Federal Reserve Bank of San Francisco.)
Manager.-Chas. A. McLean.
Dirctors.-D. W. Twohy, R. L. Rutter, Chas. A. MeLean, Peter McGregor, G. I. Toevs.

## State Banks and Trust Companies.

The following list shows the State banks and trust companies which have been admitted to membership in the Federal Reserve system during the month of December.

One thousand one hundred and eighty-one State institutions are now members of the system, having a total capital of $\$ 421,653,766$, total surplus of $\$ 447,553,600$, and total resources of $\$ 9,608,710,574$.

|  | Capital. | Surplus. | Tota!. |
| :---: | :---: | :---: | :---: |
| District No. 2. |  |  |  |
| Bank of Nutley, Nutley, N. J........... | \$100,000 | \$35,000 | \$1, 538, 980 |
| Citizens Bank of Cape Vincent, Cape | 50,000 | 8,000 | 170,606 |
| State Banh of Endicott, Endicott, N . Y . | 50,000 | 10,000 | 60,000 |
| Ridgefield Park Trust Co., Ridgefield Park, N. J. | 100,000 | 25,000 | 1,579,494 |
| District No.4. |  |  |  |
| Wheeling Bank \& Trust Co., Wheeling, W. Va. | 160, 000 | 520,000 | 5, 487, 985 |
| Farmers Bank \& Trust Co., Georgetown, Ky . | 105,000 | 60,000 | 1,006,468 |
| City Deposit Bank, Pittsburgh, Pa..... | 200,000 | 800,000 | 11, 130,344 |
| Potter Title \& Trust Co., Pittsburgh, Pa. | 500,000 | 75,000 | 4,620,382 |
| District No. 6. |  |  |  |
| Bank of Cave Springs, Cave Springs, Ga. | 25,000 | 25,000 | 313,576 |
| District No. ${ }_{\text {i }}$ |  |  |  |
| Farmers State Bank, Bellevue, Mich. | 25,000 | 5,000 | 154,196 |
| The First State Bank, Carsonville, Mich. | 25,000 | 5,000 | 481,228 |
| Lake Odessa State Savings Bank, Lake Odesse, Mich | 25,000 | 12,500 | 392,830 |
| Lapham State Savings Bank, Northville, Mich. | 50,000 | 15,000 | 721,595 |
| Farmers State Bank, Vicksburg, Mich.. | 25,000 | 5,000 | 484,557 |
| District No. 8. |  |  |  |
| The Bank of Versailles, Versailles, Mo.. | 75,000 | 7,000 | 577,984 |
| Bank of Waynesville, Waynesville, Mo. | 25,000 | 5,000 | 562,378 |
| District No. E. |  |  |  |
| Commercial Bank, Monominee, Mich... | 100,000 | 20,000 | 717,494 |
| Southern Montana Bank, Ennis, Mont. | 25,000 | 20,000 | 398, 854 |
| American Bank \& Trust Co., Missoula, Mont | 100,000 | 11,500 | 1,887,218 |
| Reed Point State Bank, Reed Point, Mont. | 25,000 | 5,000 | 188, 368 |
| District No. 19. |  |  |  |
| The State Savings \& Mercantile Bank, Wichita Kans. | 200,000 | 20,000 | 1,786,824 |
| Kilgore State Bank, Kilgore, Nebr | 25,000 | 5,100 | 299,747 |
| Stockgrowers State Bank, Pawhuska, Okla. | 60,000 | 6,000 | 301,305 |
| First State Bank, Locust Grove, Okla.. | 25,000 | 8,500 | 230,098 |
| District No. 11. |  |  |  |
| Central Savings Bank \& Trust Co., Monroe, La. | 250,000 | 62,500 | 2,119,517 |
| District No, 12. |  |  |  |
| Alameda Savings Bank, Alameda, Calif. | 236,300 | 125,000 | 4,228,830 |
| Surprise Valley Bank, Cedarville, Calif. | 25,000 | 25,000 | 346, 183 |
| Standard Bank of Orange County, Fullerton, Calif. | 50,000 |  | 67,042 |
| Guaranty Trust \& Savings Bank, Los Angeles, Calif | 1,500,000 | 1,000,000 | 28, 216,487 |
| Los Angeles Trust \& Savings Bank, |  | 1,000,000 | 20, 216,483 |
| Los Angeles, Calif. .................... | 1,500,000 | 1, 725,000 | 36,001,546 |
| Security Trust \& Savings Bank, Los Angeles, Calif. | 1,800,000 | 1, 100,000 | 62,634,439 |
| California Bank of San Mateo County, | 1,800,000 | 1,100,000 | 62,634,430 |
| San Brano, Calif......................... | 25,000 |  | 27,500 |


| District No, 12-Continued. |  |  |
| :---: | ---: | ---: | ---: |
|  |  |  |

First Guaranty State Bank \& Trust Co. Ennis, Tex. (Consolidated With the Ennis National Bank, Ennis, Tex.)
First State Bank, Dallas, Tex. (Consolidated with Security National Bank of Dallas, Tex.)
Rio Grande Valley Bank \& Trust Co., El Paso, Tex. (Consolidated with the National Bank of El Paso, Tex.)
Farmers State Bank, Rice, Tex. (Consolidated with First State Bank of Rice, Tex.)

CONVERSION.
Denver Stock Yards Bank, Denver, Colo., into Stock Yards National Bank.

CHANGE OF NAME.
The Citizens Bank \& Trust Co. Tampa, Fla., has changed its name to
"Citizens-American Bank \& Trust Co."

## New National Bank Charters.

The Comptroller of the Currency reports the following increases and reductions in the number and capital of national banks during the period from November 29, 1919, to December 26, 1919, inclusive:


## Branch at Ohlahoma City.

The Federal Reserve Board on December 17 authorized and directed the Federal Reserve Bank of Kansas City to establish a branch office at Oklahoma City in order to expedite shipments of currency to and from member banks in the State of Oklahoma and to provide better facilities for intrastate clearing of checks.
The Board has recommended to the Federal Reserve Bank of Kansas City that the by-laws assign as territory for the Oklahoma City branch that portion of the State of Oklahoma which is not included in the eleventh Federal Reserve district. An outline of the powers and functions to be exercised by the branch as recommended by the Board is as follows: The branch bank will receive deposits from member banks but will carry no deposit accounts. All amounts received on deposit will be transmitted daily, by telegraph or otherwise, to the Federal Reserve Bank of Kansas City for credit to the accounts of the depositing banks, and each member bank in the territory assigned to the branch, wherever located, may, at its option, make remittances of currency and checks direct to the Federal Reserve Bank of Kansas City. The branch will carry no Government deposits, but will redeem Treasury certificates, pay Government checks, and will close out balances daily with the head office. The branch will carry no earning assets; applications for loans or discounts from member banks and offers for sale of mail transfers, bankers' acceptances, and bills of exchange eligible for purchase by Federal Reserve Banks will be transmitted to the Federal Reserve Bank of Kansas City for final action. Immediate credit, however, may be given in cases where it becomes necessary for member banks to rediscount in order to meet clearing-house debit balances, unexpected deficiencies in reserves, and any other case where quick arrangements are necessary, all actual rediscounting operations, however, to be made at the head office, interest being charged from the date the notes were received by the branch. In cases where notes are secured by United States obligations, the branch may, by authority of the Federal Reserve Bank of Kansas City, hold the collateral and forward the notes to the parent bank with trust receipts showing the amount and nature of collateral held. Banks in the branch bank territory may deal directly with the parent bank. The principal functions to be exercised by the branch will be the clearing and collection of checks and the handling of shipments of currency to and from member banks in its territory. This plan
is the same as the one which governs the operations of the branch banks at Cincinnati, Pittsburg, Buffalo, and other cities.

## Foreign Branches.

A list of branches of national banks and international and foreign banks, doing business under agreement with the Federal Reserve Board, which have opened for business during December, is given below:

National City Bank of New York: Brussels, Belgium.
Mercantile Bank of the Americas, New York City: Affiliated Instıtution: Banco Mercantil Americane de Caracas, Venezuela-

Maracaibo, Venezuela.

## Commercial Failures Reported.

While commercial failures in the United States do not now disclose the marked numercial reduction from 1918 that featured the returns of earlier months this year, yet the 400 defaults reported to R. G. Dun \& Co. during three weeks of December compare favorably with the 498 insolvencies of the same period last year. The statement for November, the latest month for which complete figures are available, shows 551 business reverses, involving $\$ 9,177,321$ of liabilities, the number being the largest of any month back to last March, and the indebtedness heavier than in October, September, August, and July of the current year. Yet not in any previous November since monthly statistics were first compiled in 1894 have failures been so few in number as in the present instance, the next best exhibit for the month being the 570 defaults of November, 1918, and last month's liabilities are the smallest for November in a decade and a half.

Failures during November.

| Districts. | Number. |  | Liabilities. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1919 | 1918 | 1919 | 1918 |
| First. | 61 | 50 | \$535,609 | \$795,956 |
| Second | 99 |  | 1,548,918 | 1,674, 987 |
| Fourth. | 58 | 55 | 4,071,586 | 770, 106 |
| Fifth.. | 26 | 25 | 132,640 | 364,083 |
| Sixth. | 34 | 22 | 301,065 | 2,742,183 |
| Seventh | 74 | 101 | 434,048 | 4, 837,148 |
| Eighth. | 28 | 40 | 235,393 | 494, 104 |
| Ninth.. | 6 | 15 | 108, 176 | 81, 276 |
| Tenth. | $\stackrel{22}{ }$ | 17 | 204,082 | 198,531 |
| Eleventh | 28 | 32 | 253,516 | 293,019 |
| Twelfth | 86 | 76 | 762,677 | 576, 190 |
| Total | 551 | 570 | 9,177,321 | 13,815,166 |

## Fiduciary Powers Granted to National Banks.

Applications for permission to act under section 11-k of the Federal Reserve Act have been approved by the Federal Reserve Board in addition to those heretofore published, as follows:

## District No. 1

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: Bath National Bank, Bath, Me.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, and receiver:
National City Bank, Lynn, Mass.
Trustee, executor, administrator, and registrar of stocks and bonds:

Naugatuck National Bank, Naugatuck, Conn.
Trustee, executor, administrator, and guardian of estates: National Bank of Commerce, New London, Conn.

District No. 2.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: Cuba National Bank, Cuba, N. Y. Citizens National Bank, Hornell, N. Y. First National Bank, Ithaca, N.'Y.
Merchants National Bank, Middletown, N. Y. Chenango National Bank, Norwich, N. Y. Wilher National Bank, Oneonta, N'. Y.

## District No. 3.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: First National Bank, Emporium, Pa. Moshannon National Bank, Philipsburg, Pa.
Guardian of estates, assignee, receiver, and committee of eatates of lunatics: First National Bank, Trenton,N. J.

## District No. 4.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: Third National Bank, Pittsburgh, Pa.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, receiver, and committee of estates of lunatics: American National Bank, Newport, Ky.

## District No. 5.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: Rockbridge National Bank, Lexington, Va.
Guardian of estates, assignee, receiver, and committee of estates of lunatics: Merchants National Bank, Richmond, Va.

District No. 6.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: American National Bank, Nashville, Tenn.

## District No. 7.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:

First National Bank, Danville, Ill.
Merchants National Bank, Burlington, Iowa.
First National Bank, Fairfield, Iowa.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, and receiver: Citizens National Bank, Brazil, Ind.
Guardian of estates, assignee, receiver, and committee of estates of lunatics:

Farmers National Bank, Sheridan, Ind.
First National Bank, Winamac, Ind.

## District No. 8.

Trustee, executor, administrator, guardian of estates, assignee, and receiver:

Edwardsville National Bank, Edwardsville, III.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:

First National Bank, Newport, Ark.
First National Bank, Nashville, Ill.
New Albany National Bank, New Albany, Ind.
Lawrenceburg, National Bank, Lawrenceburg, Ky. First National Bank, Ridgeway, Mo.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, and committee of estates of lunatics:

First National Bank, Farmersburg, Ind.
Registrar of stocks and bonds:
Louisville National Banking Co., Louisville, Ky. District No. 9.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, asisignee, receiver, and committee of estates of lunatics:

Midland National Bank, Minneapolis, Minn.
First National Bank, Wells, Minn.
First National Bank, Miles City, Mont.
First National Bank, Brookings, S. Dak.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, and receiver: First National Bank, Lewistown, Mont.
Registrar of stocks and bonds:
Northwestern National Bank, Minneapolis, Minn. District No. 10.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:

First National Bank, Walsenburg, Colo.
Fidelity National Bank \& Trust Co., Kansas City, Mo. Midwest National Bank \& Trust Co., Kansas City, Mo.
Trustee and registrar of stocks and bonds:
Exchange National Bank, Tulsa, Okla.
Trustee, executor, administrator, guardian of estates, assignee, and receiver:

City National Bank, Lawton, Okla.
District No. 11.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:

Lockwood National Bank, San Antonio, Tex.
District No. 12.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:

National Bank \& Trust Co., Pasadena, Calif.
First National Bank, Payette, Idaho.
First National Bank, Weiser, Idaho.
First National Bank, Clarkston, Wash.

## RULINGS OF THE FEDERAL RESERVE BOARD.

Below are published rulings made by the Federal Reserve Board which are believed to be of interest to Federal Reserve Banks and member banks.
Renewal of drafts drawn by the purchaser of goods and secured at the time of original acceptance by warehouse receipts or bills of lading.
As defined in an opinion published on page 380 of the May, 1917, Bulletin, a draft drawn by the purchaser of goods is not eligible for acceptance merely because it is secured at the time of acceptance by a bill of lading covering the goods bought. It must be established that the proceeds of the draft are applied to the payment of those goods. No national bank may properly accept the renewal of a draft drawn by the purchaser of goods and secured at the time of original acceptance by a bill of lading or warehouse receipt unless the renewal acceptance complies with the terms of the law and the rulings and regulations of the Board applicable to the original acceptance.

> [See opinion of General Counsel on p. - of the Law Department.]

Authority of State member bank to advertise that it is under Government protection or supervision.
The Federal Reserve Board has received numerous inquiries as to the right of a State bank which is a member of the Federal Reserve system to advertise that it is under "Government protection" or under Government supervision.

The terms of section 9 of the Federal Reserve Act expressly provide that "as a condition of membership such banks shall likewise be subject to examinations made by direction of the Federal Reserve Board or of the Federal Reserve Bank by examiners selected or approved by the Federal Reserve Board;" that such banks are "required to make reports of condition and of the payment of dividends to the Federal Reserve Bank of which they become a member" and that such banks shall not only comply with the reserve and capital requirements of the Federal Reserve Act but shall also conform to those provisions of law which are imposed on national banks relating to making loans on or purchasing their own stock, etc. State member banks and their officers, agents, or employees are also subject to the provisions of, and to the penalties prescribed by, section 5209 of the Revised Statutes of the United States.

In the opinion of the Federal Reserve Board, therefore, a State bank which becomes a member of the Federal Reserve system voluntarily subjects itself to the restrictions and limitations of various Federal laws and to Federal supervision and may properly advertise that it is subject to Government or Federal supervision, but, in so far as the phrase "Government protection" implies more than supervision, the Board believes that that phrase is inapt and not justified by the terms of the law.

Acceptance of drafts secured by warehouse receipts covering automobiles or automobile tires.
The Federal Reserve Board has been asked whether a draft secured by a warehouse receipt covering automobiles or automobile tires is eligible for acceptance by a member bank under the terms of section 13 of the Federal Reserve Act. That section provides in part that any member bank may accept drafts drawn upon it which are secured at the time of acceptance by warehouse receipts conveying or securing title covering readily marketable staples.

On page 652 of the July, 1919, Federal Reserve Bulletin, the Federal Reserve Board has defined a readily marketable staple as follows:
A readily marketable staple may be defined as an article of commerce, agriculture, or indi stry of such uses as to make it the subject of constant dealings in ready markets with such frequent quotations of prices as to make (a) the price easily and definitely ascertainable and (b) the staple itself easy to realize upon by sale at any time.

The Board has heretofore ruled that an automobile is not a readily marketable staple within the meaning of this definition and that a draft secured by a warehouse receipt covering an automobile is on that account not eligible for acceptance by a member bank. The Board is also of the opinion that automobile tires can not properly be considered readily marketable staples and that a warehouse receipt covering automobile tires, like a warehouse receipt covering an automobile, can not form the basis of an acceptance under the terms of section 13 of the Federal Reserve Act.
This ruling, however, should not be construed to deny the right of a member bank to accept a draft to which is attached at the time of acceptance a bill of lading covering an automobile or automobile tires in the process of shipment, provided that the draft otherwise complies with the terms of the law and the regulations of the Federal Reserve Board.

## LAW DEPARTMENT.

The following opinion of General Counsel has been authorized for publication by the Board since the last edition of the Bulletin:

Renewal of drafts drawn by the purchaser of goods and secured at the time of original acceptance by warehouse receipts or bills of lading.
As defined in an opinion published on page 380 of the May, 1917, Bulletin, a draft drawn by the purchaser of goods is not eligible for acceptance merely because it is secured at the time of acceptance by a bill of lading covering the goods bought. It must be established that the proceeds of the draft are applied to the payment of those goods. No national bank may properly accept the renewal of a draft drawn by the purchaser of goods and secured at the time of original acceptance by a bill of lading or warehouse receipt unless the renewal acceptance complies with the terms of the law and the rulings and regulations of the Board applicable to the original acceptance.

An opinion has been asked on the question whether a national bank may accept drafts drawn under the following circumstances: A certain tobacco manufacturer is buying tobacco for the purpose of manufacturing for export. It is contended that the whole process from time of purchase of the tobacco to the time of sale of the finished product requires from 9 to 12 months and that in consequence a large volume of money is needed to carry the drawer both on account of the volume of the business and on account of the present high prices of tobacco. Ninety-day drafts are drawn by the manufacturer upon his bank with the understanding that there shall be two renewals of 90 days each, making the whole credit cover a period of 9 months. It is understood that bills of lading or warehouse receipts for the tobacco are placed with the accepting bank at the time the first acceptance is made, but that they are surrendered by the bank to the manufacturer immediately thereafter upon the issue of trust receipts.

Under the terms of section 13 of the Federal Reserve Act any member bank may accept drafts or bills of exchange drawn upon it having not more than six months sight to run "which grow out of transactions involving the importation or exportation of goods; or which grow out of transactions involving the domestic shipment of goods, provided shipping documents conveying or securing title are attached at the time of acceptance; or which are secured at the time of acceptance by a warehouse receipt or other such document conveying or securing, title covering readily marketable staples."

It appears from the facts presented that the drawer of the drafts is manufacturing tobacco for the purpose of export, but there is no indication that that drawer has an existing contract providing for the export of the tobacco covered by the documents attached to the draft presented to the bank for acceptance. The mere fact that the drawer is manufacturing goods which he intends ultimately to export does not alone bring it within the scope of a transaction involving the exportation of goods. The Board has frequently ruled that the person for whom the draft is accepted must have a definite bona fide contract for the shipment of the goods within a specified and reasonable time.

It remains to be considered, therefore, solely whether the drafts in question are eligible for acceptance either because they grow out of transactions involving the domestic shipment of goods or because they are secured at the time of acceptance by a warehouse receipt or other such document conveying or securing title covering readily marketable staples.

The facts presented indicate that either bills of lading or warehouse receipts are in the hands of the bank at the time that the original draft is presented for acceptance. For the sake of convenience those drafts secured by bills of lading will be discussed separately from the ones secured by warehouse receipts.
Inasmuch as it appears that the purpose of the transaction is to finance the manufacturer pending the manufacture and ultimate sale of tobacco as a finished product, there is great doubt whether even the original draft drawn by him, secured by a bill of lading covering tobacco shipped to him would be eligible for acceptance. Assuming that the bill of lading covers goods shipped by a seller to the manufacturer the transaction falls within the scope of an opinion published on page 380 of the May, 1917, Bulletin, wheroin it was held that a draft drawn by the purchaser of goods is not eligible for acceptance merely because it is secured by a bill of lading covering the goods bought. The Board has heretofore held that in any such case the draft would be eligible for acceptance only if it could be established that the proceeds of the draft are to be applied by the drawer that is, the buyer-to the payment of the goods covered by the bill of lading.
But even if any of the original drafts secured by bills of lading come within these facts and
are eligible for acceptance under the ruling just referred to, nevertheless the Board does not believe that the renewal drafts can be considered eligible for two reasons: First, because the law requires that a bill of lading be attached at the time of acceptance-having been surrendered after the acceptance of the original drafts the bill of lading would not be available as the basis of a renewal draft; and, second, because the spirit of the law does not contemplate that acceptances based upon the domestic shipment of goods shall be used as a cloak to finance the carrying of those goods throughout the process of manufacture into finished products.

There is no objection to a national bank's agreeing in advance to accept drafts aggregating certain amounts for a period of more than six months as defined on page 269 of the September, 1915, Bulletin, but each individual draft drawn under a credit of that character must comply with the provisions of the law relating to the acceptance of the original draft. If it could be shown that the second or socalled renewal drafts comply with those provisions they would be eligible, but not otherwise. Under the facts presented there is no indication that the renewal drafts would comply with these restrictions and for the reasons outlined above there is some doubt as to whether the original drafts, even though accom-
panied by bills of lading at the time of acceptance, would be eligible for acceptance.
With reference to those drafts secured at the time of acceptance by warehouse reçeipts, the same general principles are applicable. The Board has ruled on various occasions that no draft is eligible for acceptance merely and solely because secured by a warehouse receipt at the time it is presented for acceptance. It must be shown that the purpose of the draft is to carry the goods covered by the warehouse receipt pending a reasonably immediate shipment, a reasonably immediate sale, or a reasonably immediate distribution into the process of manufacture. In so far as the original drafts which are secured by warehouse receipts comply with this principle they should be considered eligible, but there would be no reason to consider the renewal of those drafts eligible for acceptance if only because of the fact that by hypothesis the warehouse receipts are released immediately after the acceptance of the original drafts. They could not, therefore, be available as security for the so-called renewal drafts. In fact the whole plan appears to be one which was devised for the purpose of carrying the goods while in the process of manufacture after they have been removed from warehouse, a purpose clearly not contemplated by the law as the basis of a renewal draft.

## WHOLESALE PRICES.

In continuation of figures shown in the December Rulletin there are presented below monthly index numbers of wholesale prices for the period January, 1919, to November, 1919, compared with like figures for November of previous years; also for July, 1914, the month immediately preceding the outbreak of the great war. The general index number is that of the United States Bureau of Labor Statistics. In addition there are presented separate numbers for certain particular classes of commodities in accordance with plans announced in previousissues of the Bulletin.

Quotations for three commodities, namely worsted yarns ( $2-32 \mathrm{~s}$, crossbred), sheetings (brown, 4-4 Pepperell), and women's dress goods (cotton warp, cashmere) have been omitted. On the other hand, quotations for apples (Baldwin, fresh, Chicago), flour (buckwheat, New York), and tickings (Amoskeag, 32 -inch), which had been dropped temporarily, have been secured for the months of October and November, and the commodities were again included in the calculation of the index numbers for the latter month. One substitution has been made, namely, of quartered-oak bedroom bureaus in place of plain oak. Index numbers for November are provisional, due to the fact that certain data were not received in time to render them available for use in the calculations.

A considerable increase in wholesale prices is noted for the month of November. The general index number of the Bureau of Labor Statistics stands at the record figure of 230 , an increase of 7 points over the figure for the month of October and of 4 points over the previous record of 226, the figure for the month of August. Increase is noted in the index number for each of the three principal groups of commodities and is relatively greatest for the group of consumers' goods, namely, 3.6 per cent, from 228 to 236 . Among the commodities included in the group, decrease in price occurred in the case of various meats, in particular lard, hams, lamb, and poultry, lemons, oranges and prunes, corn meal (Philadelphia quotation), milk (Chicago quotation), and cottonseed oil. These decreases, however, by no means offset increases in the prices of various foodstuffs, in particular butter, milk (New

York quotation), cheese and eggs, wheat flour, corn meal (Chicago quotation), rice, potatoes, onions, molasses, oleomargarine, coffee, fresh beef (Chicago quotation), bacon and mess pork, various textiles, such as cotton flannel, drillings, print cloths, sheetings, shirtings, tickings, cotton underwear and women's dress goods, several classes of shoes and tableware and glassware.
The index number for the group of producers' goods has increased 2.4 per cent, from 211 to 216, which latter figure is a new high level. Decrease in price occurred only in the case of several commodities, among which linseed oil and copper wire may be mentioned, while increase in price occurred for an extended list of commodities, in particular silver, steel billets and plates, bar iron and wire nails, brick, putty, turpentine and rosin, cotton and worsted yarns, cottonseed meal, bran, olive oil, and various chemicals.
The index number for the group of raw materials has likewise reached a new high level. The figure for the month of November stands at 226 , an increase of 2.9 per cent over the October figure of 220. Diversity, however, is exhibited by the changes in the index numbers for the several subgroups included under the head of raw materials. There has been a conspicuous increase in the index number for the farm-products subgroup, from 254 to the record figure of 275 , or 8.4 per cent. Timothy hay alone shows a decrease among the commodities included in this subgroup, while increases in price are noted for wheat, corn, oats, and barley, cotton, alfalfa, flax and tobacco. The index number for the forest-products subgroup likewise shows an increase, from 234 to 239 , or 2.3 per cent, due to increase in the price of white and yellow pine. The index number for the mineral-products sub-group shows a decrease of 0.5 per cent, from 184 to 183. Increase in price occurred in the case of bituminous screenings, petroleum, pig iron and lead, while decreases were noted for various classes of bituminous coal and copper. The index number for the animal-products subgroup remains unchanged at 212. Increases in the prices of choice to prime steers, goatskins, silk and wool were offset by decreases in the prices of good to choice steers, packer hides, hogs, poultry, and lambs.

Index numbers of wholesale prices in the United States for principal classes of commodities.
[A verage price for 1913-100.]

| Year and month. | Raw materials. |  |  |  |  | Producers' goods. | $\begin{gathered} \text { Consumers' } \\ \text { goods. } \end{gathered}$ | All commodities (Burean of Labor Statisticsindex number). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Farm products. | Animal products. | Forest products. | Mineral products. | Total raw materisls. |  |  |  |
| July, 1914.. | 102 | 106 | 97 | 91 | 99 | 93 | 103 | 100 |
| November, 1914. | 98 | 103 | 96 | 89 | 97 | 92 | 103 | 98 |
| November, 1915. | 104 | 101 | 92 | 100 | 100 | 109 | 105 | 103 |
| November, 1916. | 166 | 127 | 98 | 157 | 139 | 156 | 143 | 144 |
| November, 1917. | 239 | 187 | 129 | 160 | 183 | 181 | 182 | 183 |
| November, 1918. | 234 | 210 | 150 | 185 | 199 | 203 | 219 | 206 |
| 1919. |  |  |  |  |  |  |  |  |
| January. | 234 | 208 | 147 | 179 | 196 | 196 | 216 | 203 |
| February.. | 224 | 210 | 148 | 175 | 194 | 192 | 205 | 197 |
| March.... | 237 | 217 | 149 | 173 | 199 | 190 | 210 | 201 |
| April..... | 246 | 224 | 145 | 170 | 202 | 186 | 214 | 203 |
| May...... | 255 | 225 | 146 | 170 | 205 | 189 | 219 | 207 |
| June.... | 250 | 217 | 156 | 173 | 203 | 196 | 217 | 207 |
| July. | 261 | 233 | 166 | 177 | 214 | 202 | 230 | 219 |
| August. | 251 | 235 | 193 | 180 | 218 | 212 | 241 | 226 |
| September. | 240 | 215 | 227 | 184 | 216 | 212 | 226 | 221 |
| October... | 254 | 212 | 234 | 184 | 220 | 211 | 228 | 223 |
| November. | 275 | 212 | 239 | 183 | 226 | 216 | 236 | 230 |

In order to give a more concrete illustration of actual price movements there are also presented in the following table monthly actual and relative figures for certain commodities of a basic character, covering the period January, 1919, to November, 1919, compared with like
figures for November of previous years; also for July, 1914, the month immediately preceding the outbreak of the great war. The actual average monthly prices shown in the table have been abstracted from the records of the United States Bureau of Labor Statistics.

Average monthly wholesale prices of commodities.
[Average price for $1913=100$.

| Year and month. | $\begin{aligned} & \text { Corn, No. } 3, \\ & \text { Chicago. } \end{aligned}$ |  | Cotton, middling, New Orleans. |  | Wheat, No. 1, northern spring, Minneapolis. |  | Wheat, No. 2, red winter, Chicago. |  | Cattle, steers, good to choice, Chicago. |  | Hides, packers', heavy native steers, Chicago. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A verage price per bushel. | Relative price. | Average price per pound. | Relative price. | Average price per bushel. | Relative price. | A verage price per bushel. | Relative price. | A verage price per 100 pounds. | Relative price. | A verage price per pound. | Relative price. |
| July, 1914. | \$0.7044 | 114 | \$0.1331 | 105 | \$0.8971 | 103 | \$0.8210 | 83 | \$9.2188 | 108 | \$0.1938 | 105 |
| November, 1914 | . 6806 | 111 | . 0742 | 58 | 1.1594 | 133 | 1.1486 | 116 | 9.4063 | 111 | . 2175 | 118 |
| November, 1915. | . 6495 | 106 | . 1155 | 91 | 1.0182 | 117 | 1.1250 | 114 | 8.8450 | 104 | . 2625 | 143 |
| November, 1916 | . 9663 | 157 | . 1960 | 154 | 1.9300 | 221 | 1.8116 | 184 | 10.3500 | 122 | . 3150 | 171 |
| November, 1917 | 2.0238 | 329 | . 2804 | 221 | 2.1700 | 248 | 2.1700 | 220 | 14.3875 | 169 | . 3525 | 192 |
| November, 1918 | 1.2675 | 206 | . 3607 | 237 | 2.2206 | 254 | 2.2375 | 227 | 18.1563 | 213 | . 2900 | 158 |
| January, 1919. | 1.3750 | 223 | . 2850 | 224 | 2.2225 | 254 | 2.3788 | 241 | 18.4125 | 216 | . 2800 | 152 |
| February, 1919 | 1.2763 | 207 | . 2694 | 212 | 2.2350 | 256 | 2.3450 | 238 | 18. 4688 | 217 | . 2800 | 152 |
| March, 1919. | 1. 4588 | 237 | . 2681 | 211 | 2.3275 | 266 | 2.3575 | 239 | 18. 5750 | 218 | . 2763 | 150 |
| April, 1919. | 1. 5955 | 259 | . 2670 | 210 | 2.5890 | 296 | 2.6300 | 267 | 18.3250 | 215 | . 2950 | 160 |
| May, 1919 | 1. 7613 | 286 | . 2947 | 232 | 2. 5925 | 297 | 2.7800 | 282 | 17.7438 | 209 | . 3513 | 191 |
| Jume, 1919 | 1.7553 | 285 | . 3185 | 251 | 2.4575 | 281 | 2.3613 | 239 | 15.4600 | 182 | . 4075 | 222 |
| July, 1919. | 1. 9075 | 310 | . 3377 | 266 | 2.6800 | 307 | 2.2580 | 229 | 16.8688 | 198 | . 4860 | 264 |
| A ugust 1919. | 1. 9213 | 312 | . 3125 | 246 | 2.5250 | 289 | 2.2394 | 227 | 17.6375 | 207 | . 5200 | 283 |
| September, 1919 | 1. 5410 | 250 | . 3078 | 242 | 2.5350 | 290 | 2. 2385 | 227 | 16.8050 | 198 | . 4638 | 252 |
| October, 1919. | 1.3888 | 226 | . 3538 | 279 | 2.6250 | 301 | 2.2394 | 227 | 17. 5938 | 207 | +4820 | 262 |
| November, 1919. | 1.4875 | 242 | . 3963 | 312 | 2.8250 | 323 | 2.2881 | 232 | 17.5000 | 206 | . 4688 | 255 |

Average monthly wholesale prices of commodities-Continued.
[Average price for 1913=100.]

| Year and month. | $\begin{aligned} & \text { Hogs, light, } \\ & \text { Chicago. } \end{aligned}$ |  | Wool, Ohio, $\frac{1}{1-4}$ grades, scoured. |  | Hemlock, New York. |  | Yellow pine, flooring, New York. |  | Coal, anthracite, stove, New York, tidewater. |  | Coal, bituminous, run of mine, Cincinnati. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average price per 100 pounds. | Relative price. | Average price per pound. | Relative price. | Average price per M feet. | Relaprice. | Average price per M feet. | Relative price. | Average price per long ton. | Relaprice. | Average price per short ton. | Relative price. |
| July, 1914 | \$8.7563 | 104 | \$0.4444 | 94 | \$24. 5000 | 101 | \$42.0000 | 94 | \$4. 9726 | 98 | \$2.2000 | 100 |
| November, 1914 | 7.4813 | 88 | . 4722 | 100 | 24. 2500 | 100 | 42.0000 | 94 | 5. 1912 | 103 | 2.2000 | 100 |
| November, 1915. | 6.6450 | 79 | . 61857 | 130 | ${ }_{23}^{21.2500}$ | 88 | 38.0000 | 85 | 5.1766 | 113 | 2.2000 3 | 100. |
| November, 1916. | 9.4063 17.3500 | 111 | .6857 1.3571 | 146 | 23.7500 30.5000 | $\begin{array}{r}98 \\ 126 \\ \hline\end{array}$ | 40.0000 57.0000 | $\begin{array}{r}90 \\ 128 \\ \hline\end{array}$ | 3.6946 6.1469 | 113 | 3.7500 3.7500 | 170 170 |
| November, 1918 | 17.7063 | 209 | 1.4365 | 305 |  |  | 63.0000 | 141 | 7.8071 | 154 | 4. 1000 | 186 |
| January, 1919. | 17.4125 | 206 | 1.1200 | 255 | 36.0000 | 149 | 63.0000 | 141 | 7.9500 | 157 | 4. 1000 | 186 |
| February, 1919 | 17.4688 <br> 18.855 | 207 | 1. 0909 | 232 | 38.0000 | 149 | ${ }^{64.0000}$ | 144 | 7.9500 | 157 | 4.0000 | 182 |
| March, 1919 | 18.8550 | ${ }_{241}^{223}$ | 1.2000 | 255 | 36.0000 | 149 | ${ }^{64.0000}$ | 144 | 7.9044 | 156 | 4.0000 | 182 |
| April, 1919. | 20.3813 | 241 | 1.0909 | 232 | 36.0000 | 149 | ${ }_{65}^{64.0000}$ | 144 | 7.9045 | 156 | 4. 0000 | 182 |
| Maye 1919 | 20.7000 20.7800 | 246 | 1.1818 | 251 | 36.0000 | 149 | ${ }_{68.0000}$ | 152 | 7.9857 8.1174 | 158 160 | 4.0000 4.0000 | 182 182 |
| July, 1919. | ${ }^{22.3875}$ | 265 | 1. 2364 | 263 | 41.0000 | 169 | 73.0000 | 164 | 8.1881 | 162 | 4.0000 | 182 |
| August, 1919 | 21.6125 | 256 | 1.2364 | 263 |  |  | 78.0000 | 175 | 8.3145 | 164 | 4.0000 | 182 |
| Soptember, 1919 | 18,2100 | 215 | 1.2182 | 259 | 43.0000 | 177 | 95.0000 | 213 | 8.4020 | 166 | 4. 5000 | 205 |
| October, 1919 | 14.7250 | 174 | 1.2834 | 268 | 44.0000 | 182 | 100.0000 | 224 | 8.4135 | 166 | 4.5000 | ${ }_{186}^{205}$ |
| November, 1919 |  |  | 1.2545 | 266 | 44.0000 | 182 | 100.0000 | 224 | 8.4273 | 167 | 4. 1000 | 186 |
| Year and month. | Coal, Pocahontas, Norfolk. |  | Coke, Connellsville. |  | Copper, ingot, electrolytic. New York. |  | Lead, pig, desilverized, New York. |  | Petroleum, crude, Pennsylvania, at wells. |  | Pig iron, basic. |  |
|  | Average price per long ton. | Relative price. | Average price per short ton. | Relative price. | A verage price per pound. | Relative price. | Average price per pound. | Relative price. | Average price per barrel. | Relative price. | Average price per long ton. | Relative price. |
| July, 1914. | \$3.0000 | 100 | \$1.8750 | 77 | \$0. 1340 | 85 | \$0.0390 | 89 | \$1.7500 | 71 | \$13.0000 | 88 |
| November, 1914 | 3.0000 | 100 | 1.5500 | 64 | . 1125 | 72 | . 0350 | 80 | 1.4500 | 59 | 12.4800 | 85 |
| November, 1915 | 2.8500 | 95 | 2.3750 | 97 | . 1788 | 114 | . 0490 | 111 | 1.8000 | 73 | 15.7500 | 107 |
| November, 1916 | 6.0000 | 200 | 5.7500 | 236 | . 2863 | 182 | . 0700 | 159 | 2. 6000 | 106 | 25.1000 | 171 |
| November, 1917 | 4.4120 | 147 | 6.0000 | 246 | . 2350 | 149 | . 0613 | 139 | 3.5000 | 143 | 33.0000 | 224 |
| November, 191 | 4. 6320 | 154 | 6.0000 | 246 | . 2600 | 165 | . 0805 | 183 | 4.0000 | 163 | 33.0000 | 224 |
| January, 1919. | 4,6320 | 154 | 5.7813 | 237 | . 2038 | 130 | . 0558 | 127 | 4.0000 | 163 | 30.0000 | 204 |
| February, 1919 | 4,6320 | 154 | 5. 2188 | ${ }^{214}$ | . 1731 | 110 | . 0508 | 115 | 4.0000 | 163 | 30.0000 | 204 |
| March, 1919 | 4. 9000 | 163 | 4.4688 | 183 | . 1509 | 96 | . 0524 | 119 | 4.0000 | 163 | 28.9375 | 197 |
| April, 1919. | 4.9000 | 163 | 3. 9000 | 160 | . 1530 | 97 | . 0507 | 115 | 4.0000 | 163 | 25.7500 | 175 |
| May, 1919 | 4.9000 | 163 | 3. 8437 | 158 | . 1600 | 102 | . 0508 | 115 | 4.0000 | 163 | 25.7500 | 175 |
| June, 1919 | 5. 1400 | 171 | 4.0000 | 164 | . 1756 | 112 | . 0530 | 120 | 4.0000 | 163 | 25.7500 | 175 |
| July, 1919 | 5.1400 | 171 | 4.0950 | 168 | . 2150 | 137 | . 0561 | 128 | 4.0000 | 163 | 25.7500 | 175 |
| August, 1919 |  |  | 4. 2188 | 173 | . 2281 | 145 | . 0579 | 132 | 4. 0000 | 163 | 25.7500 | 175 |
| September, | 5. 1400 | 171 | 4.5920 4.8250 | 188 | . 22220 | 131 | .0609 | 138 | 4.2500 4.2500 | 173 173 | 25.7500 25. 7500 | 175 175 |
| November, 191 | 4.6320 | 154 | 5.9375 | 243 | . 2038 | 130 | . 0676 | 154 | 4.4375 | 181 | 28.3125 | 193 |
| Year and month. | Cotton yarns, northerr cones, 10/1. |  | Leather, sole, hemlock No. i. |  | Steel billets, Bessemer, Pittsburgh. |  | Steel plates, tank, Pittsburgh. |  | Steel rails, open hearth, Pittsburgh. |  | $\begin{aligned} & \text { Worsted yarns, } \\ & 2-32 \text {, } \mathrm{s} \text { cross } \\ & \text { bred. } \end{aligned}$ |  |
|  | Average price per pound. | Relative price. | Average price per pound. | Relative price. | Average price per pound. | Relative price. | Average price per pound. | Relative price. | Average price per pound. | $\begin{aligned} & \text { Rela- } \\ & \text { tivi } \\ & \text { price. } \end{aligned}$ | Average price per pound. | Relative price. |
| July, 1914.. | $\begin{array}{r}80.2150 \\ .1550 \\ \hline\end{array}$ | 9770 | \$0.3050 | 108 | $\$ 19.0000$19.2500 | $\begin{array}{r}74 \\ 75 \\ \hline\end{array}$ | \$8.0113 | 7674 | $\$ 30.0000$ <br> 30.0000 <br>  | 100100 | $\$ 0.6500$.6300 | 84 |
| November, 1914. |  |  | . 3200 |  |  |  | . 01110 |  |  |  |  |  |
| November, 1915 | . 2050 | 93 |  | 113 | 19.2500 26.5000 | 103 |  | 101 | [ $\begin{aligned} & 30.0000 \\ & 30.0000\end{aligned}$ | 100 | $\begin{array}{r}.6300 \\ .8500 \\ \\ \hline\end{array}$ | 119154 |
| November, 1916 | -. 4700 | 150212 | $\begin{array}{r} .4900 \\ .4800 \end{array}$ | 174 | 52.0000 | 202 | . 0375 | 253 | 35.0000 | 117 | 1. 2000 |  |
| November, 1917 |  |  |  | 170 | ${ }^{47.5000}$ |  | .0325 | 220 | 40.000057.0000 | $\begin{aligned} & 133 \\ & 190 \end{aligned}$ | 1.90002.1500 | 245277 |
| November, 1918 | . 5000 | 268226228 | . 49000 | 174 |  | 184 |  |  |  |  |  |  |
| January, 1919 |  |  |  | 174 | 43.5000 | 169 | . 03000 | 203 | 57.0000 | 190 | 1.7500 | 277 |
| February, 1919 | . 4164 | 188 | . 4900 | 174 | 43.500042.2500 |  |  | 203 | 57.000054.5000 | 190182157 | 1.70001.5000 | 219193 |
| March, 1919 |  |  |  | 174 |  | 149 | . 02929 | 197 |  |  |  |  |
| April, 1919. | $\begin{array}{r}.4300 \\ .4826 \\ .5608 \\ \hline\end{array}$ | 194218218 | $\begin{array}{r} .4900 \\ .4990 \end{array}$ | 174 | 38.500038.5000 |  |  | 179 | 47.0000 | 157 | 1. 5000 | 193 |
| May, 1919. |  |  |  | 174 |  | 149149 | . 02265 | 179179 | 47.0000 | 157157 | 1.5000 | 193206 |
| June, 1919. | - 56012 | 253 | . 5100 | 181 | 38.5000 |  |  |  | 47.000047000 |  | 1. 1.60000 |  |
| July, 1919 |  |  |  | 188 | 38.5000 <br> 38.5000 <br> 88 | $\begin{aligned} & 149 \\ & 149 \end{aligned}$ | . 0265 | 1.79 179 |  | 157 157 157 |  | 206209205 |
| August, $1919 \ldots$ | .6130 .5903 .611 | 277 | .5300 .5700 | 202 |  |  |  | 179 171 | 47.0000 47.0000 | 157 <br> 157 | 1.6242 1.7500 |  |
| October, $1919 \ldots$ | . 66111 | 276300 | .5500.5700.5700 | 202 | $\begin{aligned} & 38.5000 \\ & 38.5000 \\ & 41.3750 \end{aligned}$ | 149149160 | $\begin{array}{r} .0253 \\ .0291 \\ .0265 \end{array}$ | 171176179 | 47.000047.0000 | 157 | 1.7500 | 225 |
| November, 191 |  |  |  | 202 |  |  |  |  |  | 157 |  |  |

Average monthly wholesale prices of commodities-Continued.
[Average price for $1913=100$.]

| Year and month. | Beef, carcass, good native steers, Chicago. |  | Coffee, Rio No. 7. |  | Flour, wheat standard patents, 1914-1917, 1919; standard war, 1918, Minneapolis |  | Hams, smoked, Chicago. |  | Illuminating oil, $150^{\circ}$ fire test, New York. |  | Sugar, granulated, New York. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average price per pound. | Relative price. | Average price per pound. | Relative price. | Average price per barrel. | Relative price. | Average price per pound. | Relative price. | Average price per gallon. | Relative price. | Average price per pound. | Relative price. |
| July, 1914.. | \$0. 1350 | 104 | \$0.0882 | 79 | \$4. 5938 | 100 | \$0. 1769 | 106 | \$0. 1200 | 97 | \$0.0420 | 98 |
| November, 1914 | . 1438 | 111 | . 0638 | 57 | 5. 5813 | 128 | . 1685 | 100 | - 1200 | 97 | . 0493 | 115 |
| November, 1915 | . 1375 | 106 | . 0750 | 67 | 5.5000 | 120 | . 1625 | 98 | . 1200 | 97 | . 0568 | 133 |
| November, 1916. | . 1375 | 106 | . 0950 | 85 | 9. 8250 | 214 | . 2031 | 122 | . 1200 | 97 | . 0735 | 172 |
| November, 1917 | . 1900 | 147 | . 0794 | 71 | 10.2250 | ${ }_{223}^{223}$ | . 2900 | ${ }_{213}^{174}$ | . 1350 | 105 | . 0818 | ${ }_{207}^{192}$ |
| November, 1919 | - 2450 | 189 <br> 189 <br> 189 | . 11547 | -96 | 10.2100 | 224 | . 34941 | 210 | . 1750 | 142 | . 08882 | 207 207 |
| February, 1919 | . 2450 | 189 | . 1544 | 139 | 10.5500 | 230 | . 3338 | 201 | . 1750 | 142 | . 0882 | 207 |
| March, 1919 | . 2450 | 189 | . 1602 | 144 | 11. 2125 | 245 | . 3381 | 203 | . 1810 | 147 | . 0882 | 207 |
| April, 1919. | . 2450 | 189 | . 1695 | 152 | 12.2150 | 266 | . 3595 | 216 | . 1850 | 150 | . 0882 | 207 |
| May, 1919 | . 2430 | 188 | . 1931 | 173 | 12.4188 | 271 | . 3769 | 227 | . 1850 | 150 | . 0882 | 207 |
| June, 1919. | . 2025 | 156 | . 2114 | 190 | 12.0125 | 262 | . 3006 | 229 | . 2000 | 162 | . 0882 | 207 |
| July, 1919 | . 2075 | 160 | . 2303 | 207 | 12.1550 | 265 | . 3335 | 230 | . 2050 | 166 | . 0882 | 207 |
| August, 1919. | . 2350 | 181 | . 2150 | 193 | 12.0063 | 262 | . 3838 | 231 | . 2180 | 177 | . 0882 | 207 |
| September, 1919 | . 2275 | 176 | . 1663 | 149 | 11.6200 | ${ }_{262} 25$ | . 3480 | 209 | . 2200 | 178 | . 0882 | 207 |
| October, $1919 . .$. | . 22390 | 178 | . 16850 | 148 152 | 12.0313 12.9500 | ${ }_{283}^{262}$ | . 29890 | 174 172 | . 22200 | 178 178 | . 08882 | ${ }_{207}^{207}$ |
| Noremer, |  |  |  |  |  |  |  |  |  |  |  |  |

## DISCOUNT AND INTEREST RATES

In the following tables are presented actual discount and interest rates In the follown and their branches are located during the periods ending November 15 and December 15, 1919. Quotations are given for prime commercial paper both customers' and purchased in the open market, interbank loans, bankers acceptances, and paper secured by prime stock exchange or other curren collateral. Separate rates are quoted for paper of longer or shorter maturities in the first-named and last-named classes. In addition, quotations are given for commodity paper secured by warehouse receipts and for cattle oans, as reported from centers in which such paper is current.
Quotations are also given of rates charged on ordinary loans to customers secured by Liberty bonds and certificates of indebtedness, as well as quotations in New York for demand paper secured by prime bankers' acceptances. Quotations for new types of paper will be added from time to
time as deemed of interest.

A pronounced upward movement in interest rates is noted in the majority of centers during the period under review, although in districts Nos. 6 and 11 rates show little or no such change. The increase is most pronounced in the case of commercial paper purchased in the open market, and is noted in the changes in high, low and customary acceptances. While remarke in the case of customers' commercial paper it is found largely only in the changes in customary rates, and in the case of interbank loans, col lateral loans, commodity paper, and paper secured by Liberty bonds and certificates of indebtedness largely in the change in the low rates. Comparison with rates prevailing for the period ending December 15, 1918, reveals a continuance of the decrease in rates remarked in the December Buluerin for commercial paper purchased in the open market and for low rates for customers' commercial paper, as well as increase in rates for bankers' accept-
ancesand for paper secured by Liberty bonds and certificates of indebtedness.

Discount and interest rates prevailing in various centers.
DURING 30-DAY PERIOD ENDING NOV. 15, 1919.

dURING 30-DAY PERIOD ENDING DEC. 15, 1919.

| District. | City. | Prime commercial paper. |  |  |  | Interbank loans. | Bankers' acceptances, 60 to 90 days. |  | Collateral loans-stock exchange or other current. |  |  | Cattle loans. | Secured bywarehouseTeceipts,etc. | Secured by Liberty bonds and certificates of indebtedness. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Customers'. |  | Open market. |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{gathered} 30 \text { to } 90 \\ \text { days. } \end{gathered}$ | 4 to 6 months. | $\begin{gathered} 30 \text { to } 90 \\ \text { days. } \end{gathered}$ | 4 to 6 months. |  | Indorsed. | Unindorsed. | Demand. | 3 months. | $\begin{gathered} 3 \text { to } 6 \\ \text { months. } \end{gathered}$ |  |  |  |
| No. | Boston. New Y Oik i |  |  |  |  |  |  |  |  |  | H. $\begin{array}{lll}L_{6} & & C \\ 6 & \\ 6\end{array}$ <br> $\begin{array}{lll}6 & 5 & 6 \\ 6 & 5 \frac{1}{2} & 6 \\ 6 & 6 & 6\end{array}$ $\begin{array}{lll}6 & 5 & \\ 6 & 5 \frac{1}{2} \\ 6 & 6\end{array}$ $\begin{array}{lll}6 & 6 & 6 \\ 6 & 5 \frac{1}{2} & 6 \\ 7 & 5 & 6 \\ 8 & & 6\end{array}$ $\begin{array}{lll}8 & 6 & 6 \\ 8 & 7 & 7 \\ 7 & 5 \frac{1}{2} & 6 \\ 6 & 6 & 6\end{array}$ $\begin{array}{lll}6 & 6 & 6 \\ 6 z & 53 & 6 \\ 6 & 5 \frac{1}{3} & 6 \\ 6 & 6 & 6\end{array}$ $\begin{array}{lll}7 \frac{1}{2} & 6 & 7 \\ 8 & 7 & 7 \\ 8 & 5 & 6 \\ 6 & 53 & 6 \\ 8 & 6 & 6 \\ 8 & 6 & \end{array}$ $\begin{array}{lll}8 & 6 & 6 \\ 6 & 6 & 6 \\ 8 & 6 & 8 \\ 8 & 6 & 7 \\ 6 & 6 & 6 \\ 6 & 6 & 6 \\ 8 & 6 & 7 \\ 8 & 6 & 8 \\ 8 & 6 & 7\end{array}$ | H. L. C. | H. L. C. |  |
| No. 3. | Buffalo |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No. 4. | Cleveland. |  |  |  |  |  |  |  |  |  |  | 6 |  |  |
|  | Pittsburgh Cincinnati. |  |  |  |  |  |  |  |  |  |  | 6 ${ }_{6}^{6}$ |  |  |
| No. 5. | Richmond |  |  |  |  |  |  |  |  |  |  | 6 686 |  |  |
|  | Baltimore. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No. 6 | Atirmingham... |  |  |  | (1) |  |  | $8{ }_{8}^{8} 6$ |  |  |  |  |  |  |
|  | Jacksonville... New Orleans.. |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | ${ }^{6}$ 51... |  |  |  |  |  |  |  |  |  |
| No. 7. | Chicago. |  |  |  |  |  |  |  |  |  |  | $\dddot{5}$ | 6 51 |  |
| No.8. | Detroit. St |  | $\begin{array}{llll}6 & 6 & 6 \\ 6 & 5 & 6 \\ 6 & 5\end{array}$ |  |  |  |  |  |  |  |  | ............. | .............. |  |
|  | Louisville. |  | ${ }^{6} 6536$ | $65{ }^{4}$ |  |  |  |  |  |  |  |  | 6 51  <br> 6 5 6 |  |
|  | Memphis...... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No.9... | Minneapols... |  | ${ }^{736} 6$ | ${ }^{6} 5{ }^{5} / 6$ |  |  |  | 6 $5 \frac{1}{2}$ $5 \frac{3}{4}$ |  |  |  |  |  |  |  |
| No. 10... | Kansas City |  | ${ }^{7} 5156$ | ${ }^{52} 5{ }^{51} 515$ |  |  |  |  |  |  |  |  |  |  |  |
|  | Omaha.. |  | 6 8 8 8 |  |  |  |  |  |  |  |  | $\begin{array}{rrr} 7 & 6 & 6 \\ 8 & 6 \\ 8 & 6 & 6 \\ 10 & 6 & 8 \\ 8 & 8 & 8 \end{array}$ | ............ |  |  |
| No. 11... | Dallas.......... |  | ${ }_{8}{ }^{1} 6$ |  |  |  |  |  |  |  |  |  | 868 |  |  |
|  | El Paso........ |  | $8{ }^{8} 68$ | 666 | ${ }^{6} 666$ |  |  |  |  |  |  |  |  | - $\begin{array}{lll}8 & 6 & 8 \\ 8 & 5 & 8\end{array}$ |  |
| 2 12 | Houston...... |  | ${ }^{7}{ }^{7} 686$ | ${ }_{5}^{8} 86$ | ${ }^{8} 86$ |  |  |  |  |  |  |  |  |  |  |
|  | San Francisco. |  |  |  | 53 5 |  |  |  |  |  |  |  |  | $\begin{array}{lll} 6 & 5 & 6 \\ 7 & 6 & 6 \\ 8 & 5 & 6 \\ 8 & 5 & 7 \\ 7 & 43 & 6 \end{array}$ |  |
|  | Seattle......... |  | ${ }^{8} 8{ }^{\frac{3}{3}} 7$ | ${ }^{6} 5545$ |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ${ }_{8}^{86} 67$ |  | $\begin{array}{lll}6 & 5 & 5 \\ 6 & \\ 6\end{array}$ |  |  |  |  |  |  |  |  |  |  |

[^6]
## PHYSICAL VOLUME OF TRADE.

In continuation of tables in the December Federal Reserve Bulletin there are presented in the following tables certain data relative to the physical volume of trade. The

January, 1919, issue contains a description of the methods employed in the compilation of the data and the construction of the accompanying index numbers. Additional material will be presented from time to time as reliable figures are obtained.

Live-stock movements.
[Bureau of Markets.]

|  | Receipts. |  |  |  |  | Shipments. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cattle and calves, 60 markets. | Hogs, 60 markets. | Sheep, 60 markets. | Horses and mules, 44 markets. | Total, all kinds. | Cattle and calves, 54 markets. | Hogs, 54 markets. | Sheep, 54 markets. | Horses and mules, 44 markets. | $\begin{aligned} & \text { Total, all } \\ & \text { kinds. } \end{aligned}$ |
| $\begin{array}{r} 1918 . \\ \text { November... } \end{array}$ |  | $\begin{gathered} \text { Head. } \\ 4,615,328 \end{gathered}$ |  | Head. <br> 135,345 | $\begin{gathered} \text { Head. } \\ \mathbf{9 , 9 1 7 , 6 8 3} \end{gathered}$ | $\begin{gathered} \text { Head. } \\ 1,235,065 \end{gathered}$ | $\stackrel{H e a d,}{1,227,180}$ | $\begin{gathered} \text { Head. } \\ 1,450,723 \end{gathered}$ | Head. 135,791 | Head. $4,048,759$ |
| $1919 .$ |  |  |  |  |  |  |  |  |  |  |
| February | 1,440,329 | 4, 404,751 | 1, 131,805 | 110,412 | 7,059,411 | 528,326 | 1,288, 134 | 418,827 | 106,599 | 3,311,799 |
| March.. | 1,501,597 | 3, 632,874 | 1,216,988 | 68,938 | 6, 420,397 | 563, 893 | 1,272,654 | 481,907 | 64,332 | 2,382, 786 |
| April. | 1,751, 943 | $3,668,210$ | 1,388,732 | 50,770 | 6,859,655 | 698,599 | 1,107,411 | 575, 136 | 49,634 | 2,430,780 |
| May.. | $1,822,410$ 1,580 | 3,862,785 | $1,425,018$ <br> 1,685 | 33,977 <br> 40 <br> 087 | 7,144,190 | 788,086 709,637 | $1,181,745$ $1,373,824$ | 614,275 828,046 | 34,658 | 2, ${ }_{2}^{2,818,764}$ |
| July. | 2,007, 266 | 2,998, 836 | 2,177,942 | 48,691 | 7,232,735 | 706,843 | 1,963,662 | ${ }_{997,338}$ | - 43,738 | 2,711,511 |
| August. | 2,019,139 | 2,103,609 | 3,211,331 | 81,917 | 7,415,996 | 894,816 | 690,821 | 2,014,267 | 74,268 | 3,674, 172 |
| September | 2,377, 054 | 2,401, 677 | 3, 810,441 | 140, 848 | $8,730,020$ | 1,150, 183 | 860,614 | 2,466,937 | 135,724 | 4,613,458 |
| October | 2,989,090 | 3,144,831 | 3,605,198 | 124,497 | 9,863,616 | 1,532,297 | 1,103,837 | 2,159,531 | 125,701 | 4,921,366 |
| November. | 2,680,042 | 3,775,589 | 2,751,421 | 140,192 | 9,347,244 | 1,374, 452 | 1,308,095 | 1,597,007 | 134, 679 | 4,414,233 |

Receipts and shipments of live stock at 15 western markets.
[Chicago, Kansas City, Oklahoma City, Omaha, St. Louis, St. Joseph, St, Paul, Sioux City, Cincinnati, Cleveland, Denver, Fort Worth, Indianapolis, Loulsville, Wichita.]

RECEIPTS.
[Monthly average, 1911-1913=100.]

|  | Cattle and calves. |  | Hogs. |  | Sheep. |  | Horses and mules. |  | Total, all kinds. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head. | Relative. | Head. | Relative. | Head. | Relative. | Head. | Relative. | Head. | Relative. |
| November........ | 2,053,359 | 204 | 3,431,782 | 156 | 1,677,537 | 123 | 64, 482 | 140 | 7,227, 160 | 156 |
| January.......... | 1,656,046 | 164 | 4,603,335 | 209 | 1,079,377 |  |  |  |  |  |
| February. | 1,096, 118 | 116 | 3,451, 894 | 168 | 1,774,881 | 61 | 48,786 | 114 | 5,371, 679 | 125 |
| March. | 1,094, 114 | 109 | 2,842, 663 | 129 | 847,842 | 62 | 41,805 | 91 | 4, 826,924 | 105 |
| April... | 1,255, 379 | 125 | 2, 823, 484 | 128 | 970,070 | 71 | 31,509 | 68 | 5,080,442 | 110 |
| May.- | 1,262, 065 | 125 | ${ }_{3}^{3}, 049,223$ | 139 | 934,613 | 68 | ${ }_{28}^{21,345}$ | 46 | 5,267, 246 | 114 |
| June.. | 1,527,881 | 152 | 2,411,539 | 110 | 1,558,767 | 82 114 | 28,418 37866 | 82 | 5,536,053 | 120 |
| August. | 1,541,133 | 153 | 1,595,759 | 73 | 2,220,229 | 162 | 57,206 | 124 | 5,414, 327 | 117 |
| September. | 1,871,042 | ${ }^{186}$ | 1,704,944 | ${ }_{98}^{78}$ | 2,809,831 | $\stackrel{212}{176}$ | 88,283 | 192 | 6,556, 100 | 1142 |
| Ontober ${ }^{\text {N }}$. | 2,046, 664 | ${ }_{203}^{230}$ | 2,715,955 | 124 | 1,743,189 | 128 | - 84,018 | 183 | 6,589, 826 | 143 |

SHIPMENTS.

| $\begin{array}{r}  \\ \\ \text { November........ } \end{array}$ | 921,831 | 227 | 659,432 | 136 | 903,283 | 179 | 63,589 | 155 | 2,548, 135 | 177 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1919. |  |  |  |  |  |  |  |  |  |  |
| January | 589,362 | 145 | 988,035 | 204 | 357, 386 | 71 | 56,282 | 137 | 1,991,065 | 139 |
| February | 404, 296 | 107 | 881,507 | 195 | 240,815 | 51 | 47,829 | 125 | 1,574,447 | 118 |
| March. | 423, 819 | 104 | 925,802 | 191 | 289,742 | 58 | 41,837 | 102 | 1,681,200 | 117 |
| April. | 506, 835 | 125 | 748,437 | 154 | 319,625 | 63 | 29,974 | 73 | 1,604, 871 | 112 |
| May. | 530,153 | 130 | 787,009 | 162 | 290,803 | 58 | 18,865 | 46 | 1,626, 830 | 113 |
| June. | 503, 354 | 124 | 1,005,505 | 208 | 465,776 | 93 | 25,322 | 62 | 1,999, 957 | 139 |
| July. | 515,071 | 127 | -691,283 | 143 | 694,942 | 138 | 32,836 | 80 | 1,934, 132 | 135 |
| August. | 650,252 | 160 | 455,705 | 94 | 1,352,252 | 269 | 49,996 | 122 | 2,508,205 | 175 |
| September | 872,043 | $\stackrel{214}{214}$ | 501, 856 | 104 | 1, 849,958 | 387 | 83,264 | 203 | 3,307, 121 |  |
| October. November | $1,154,995$ 993,148 | 284 | 654,755 788,107 | 135 163 | $1,382,419$ $\mathbf{9 4 5 , 9 9 2}$ | 275 188 | 80,828 78,889 | 197 192 | $3,272,997$ $\mathbf{2 , 8 0 6 , 1 3 6}$ | 228 195 |

Exports of certain meat products.
[Department of Commerce.]
[Monthly average, 1911-1913=100.]

|  | Beef, canned. |  | Beef, fresh. |  | Beef, pickled and other cured. |  | Bacon. |  | Hams and shoulders, cured. |  | Lard. |  | Pickled pork. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pounds. | Relative. | Pounds. | Relative. | Pounds. | Relative. | Pounds. | Rela- tive. | Pounds. | Rela tive. | Pounds. | Rela tive. | Pounds. | Relative. |
| November. | 13,313,420 | 2,009 | 62, 835, 161 | 5,065 | 4,291, 030 | 161 | 72, 861,969 | 435 | 20, 127, 671 | 135 | 27, 285,088 | 62 | 2,783,873 | 63 |
| $\begin{gathered} 1919 . \\ \text { January.... } \end{gathered}$ | 12,636,060 | 1,907 | 17,436,495 | 1,406 | 6,030,937 | 226 | 101,000,122 | 603 | 54, 846,433 | 367 | 37,850,338 | 86 |  | 51 |
| February... | 8,151,723 | 1,318 | 13,729,993 | 1,186 | 3, 635,120 | 146 | 114, 842,525 | 735 | 49,283, 053 | 354 | 68,972,779 | 168 | 1,956,362 | 47 |
| March.. | 8,997, 973 | 1,358 | 14, 651,276 | 1,181 | 3,749,394 | 140 | 151, 086,397 | 902 | 85, 712,426 | 574 | 97, 239,435 | 221 | 2,141,508 | 48 |
| April. | 2, 8966 , 759 | 437 | 21,639,915 | 1,744 | 2,673,681 | 100 | 141, 814,255 | 847 | 109, 569,968 | 734 | 86, 5555,951 | 197 | 2,494,454 | 56 |
| May...... | 3, 6 6, 574,766 | 892 992 | 15, 14212,094 | 1,226 | - $4,7688,308$ | 178 | $68,957,465$ $172,441,100$ | - 1,030 | -49,707, 874 | 333 649 | -114,328, 504 | 127 | 2,095,072 | 77 |
| July.... | 5,392,104 | 814 | 8,680,524 | 700 | 3,320,564 | 124 | 117,679, 193 | -703 | 47,452, 834 | 318 | 68,163, 734 | 155 | 2,392,515 | 54 |
| August... | 2,894,361 | 437 | 8,075, 366 | 651 | 2,494,113 | 93 | 84, 150, 778 | 502 | 40, 147, 727 | 269 | 48, 968,628 | 111 | 2,117,796 | 48 |
| September | 1,213, 709 | 183 | 7,285,951 | 587 | 3,523, 887 | 132 | 57,179,511 | 341 | 18,209, 239 | 122 | 36,960,364 | 84 | 2,792, 439 | 96 |
| October.... | 1,793,784 | 271 | 31, 178,216 | 2,513 | 3,402,422 | 127 | 56,462,312 | 337 | 13,090, 972 | 88 | 41,016,518 | 93 | 3,804, 290 | 86 |
| November.. | 1,393,238 | 210 | 15,694,002 | 1,265 | 2,997,652 | 112 | 65,288,694 | 390 | 16,844,285 | 113 | 42, 106,339 | 96 | 4,834,696 | 101 |

Receipts of grain and flour at 17 interior centers.
[Chicago, Cleveland, Detroit, Duluth, Indianapolis, Kansas City, Little Rock, Louisville, Memphis, Milwaukee, Minneapolis, Omaha, Peoria, St. Louis, Spokane, Toledo, Wichita; receipts of flour not available for Cleveland, Detroit, Indianapolis, Louisville, Omaha, Spokane, Toledo, and Wichita.]
[Compiled from reports of trade organizations at these cities.]
[Monthly average, 1911-1913-100.]

|  | Wheat. |  | Corn. |  | Oats. |  | Rye. |  | Barley. |  | Total gram. |  | Flour. |  | Total grain and flour. 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Barrels. | Relative. | Bushels. | Relative. |
| 1918. <br> November | 40, 199, 988 |  | 15, 869, 505 |  | 28, 768, 648 |  | 6,340,380 | 573 | 9,193,786 |  | 100,372,307 |  | 2,485,352 | 127 | 111,556,391 | 129 |
| $\begin{array}{r} 1919 . \\ \text { January } \end{array}$ | 24,652,641 |  | 28,731 |  |  |  | 5, 615, 054 | 507 | 8,943, 782 | 125 | 90, 888, 523 |  | 96, 888 | 71 | 97, 174, 519 | 112 |
| February. | 14, 049,055 |  | 13, 034, 852 |  | 15, 961,423 |  | 2, 406,029 | 233 | 6,556,594 | 98 | 52, 007, 953 |  | $1,032,368$ | 56 | 56, 653, 609 | 70 |
| March... | 13, 768,496 |  | 13, 431, 797 |  | 17, 076, 822 |  | 4, 955, 130 |  | 11,723, 691 | 163 | 60, 955, 936 |  | $1,485,320$ | 76 | 67,639, 876 | 78 |
| April..... | 11, 208, 305 |  | 18, 301, 721 |  | 20, 063, 678 |  | 5, 498, 493 |  | $9,634,405$ | 134 | 64, 706, 602 |  | $1,990,349$ | 102 | $73,663,173$ | 85 |
| May...... | 11, 625, 657 |  | 10,301, 200 |  | 19, 206, 465 |  | $4,280,911$ |  | 8, 416, 141 | 117 | 53, 830, 374 |  | 2, 447, 200 | 125 | 64, 842, 774 | 75 |
| June...... | 8,125,034 |  | 21,098, 146 |  | 24, 576, 968 |  | 2, 791, 618 |  | 12,878,517 |  | 69,470,283 |  | 1, 894, 599 | 97 | 77,995, 979 | - |
| July...... | 49, 612, 115 |  | 12,549,219 |  | 25, 233, 109 |  | 3, 105, 486 |  | 8,627,091 |  | 99, 127,020 |  | 1, 572, 420 |  | 106,202, 910 | 122 |
| August... | 80, 714, 559 |  | 8,503,282 |  | 29, 774, 582 |  | 3, 224,263 | 345 | 6,638,871 |  | $129,455,557$ |  | 2,283, 145 | 117 | 131, 738, 702 | 152 |
| Sept'ber.. | 69,953,295 |  | 16, 267, 145 |  | 26, 721,030 |  | 5, 446,371 | 492 | 5, 294, 256 |  | 123, 682, 097 |  | 3, 275, 034 |  | 138, 419, 750 | 160 |
| October. . | 51, 006, 164 |  | 12,490, 107 |  | 24, 323,974 |  | 4, 472, 397 | 404 | 4,369, 326 |  | 96, 661, 968 |  | 3, 468, 787 |  | 112, 271, 510 | 129 |
| Nov'ber.. | 35,729, 832 |  | 14,606, 137 |  | 17,699,925 |  | 2,579,579 | 233 | 3,582,873 |  | 74, 198, 346 |  | 3,541,957 | 181 | 90, 137, 153 | 104 |

1 Flour reduced to its equivalent in wheat on basis of $4 \frac{1}{2}$ bushels to barrel.
Shipments of grain and flour at 14 interior centers.
Chicago, Cleveland, Detroit, Duluth, Kansas City, Little Rock, Louisville, Milwaukee, Minneapolis, Omaha, Peoria, St. Louis, Toledo, Wichita shipments of flour not available for Cleveland, Detroit, Louisville, Omaha, Toledo, and Wichita.]

|  | Wheat. |  | Corn. |  | Oats. |  | Rye. |  | Barley. |  | Total grain. |  | Flour. |  | Total grain and flour. ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bushels. | Relative. | Bushels. | Relative. | Bushels. | ReJative. | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Barrels. | Relative. | Bushels. | Relative. |
| 1918. November | 42,083, 808 | 273 | 10, 583,718 |  | 26,564,983 |  | 4,770,708 | 674 | 4,165, 066 | 107 | 88, 168, 283 | 178 | 4,597,360 | 136 | 108, 856, 403 | 168 |
| 1919. <br> January | 9,934, 531 |  |  |  | ,237 | 130 |  | 112 |  | 121 |  |  |  | 83 |  | 95 |
| February. | 8,876,844 |  | 8,649,063 |  | 13, 603, 691 | 96 | 404, 365 | 61 | 6,006, 178 | 165 | 37, 540, 141 |  | 1,932, 258 | 61 | 46,235, 302 | 77 |
| March... | 14, 857, 872 |  | 7,544,393 |  | 16, 183,222 |  | 3,720,930 | 526 | 6,049, 703 | 155 | 48,356, 120 |  | 3, 039,020 | 90 | 62, 031,710 | 96 |
| April. | 30, 764, 328 |  | 15, 708,842 |  | 16,019,086 |  | 8, 143, 580 | 1,150 | 6,632, 763 | 170 | 77, 268, 599 |  | 3, 532, 772 | 104 | 93, 166, 073 | 144 |
| May. | 31, 901, 327 | 207 | 7,784, 931 |  | 17,069,617 |  | 7, 525, 794 | 1,063 | 6, 677, 508 | 171 | $70,959,177$ |  | 4,320, 146 | 128 | $90,399,834$ | 140 |
| June. | 8,151, 872 | 53 | $8,629,052$ | 61 | 15, 638,317 |  | 2, 740, 593 | 387 | 9, 588, 195 | 246 | 44, 748, 029 |  | 3, 130, 826 | 92 | 58, 836, 746 | 91 |
| July... | 12, 423, 422 | 81 | 8, 102, 275 | 57 | 15, 628, 503 |  | 1,546, 100 | 218 | 9, 133, 000 | 234 | 46, 833, 304 |  | $2,589,176$ | 76 | 58, 484, 596 | 90 |
| August. | 36, 986, 491 | 240 | 5, 135, 459 |  | 17,919,623 |  | 1,436, 377 | 203 | 5,028, 674 | 129 | 66, 506, 624 |  | 3, 805, 273 | 112 | 83, 630, 353 | 129 |
| Sept'ber.. | 37, 730, 048 | 245 | 6,622, 779 | 47 | 16, 651,580 |  | 2,317,740 | 327 | 2, 943, 167 | 75 | 66, 265,314 |  | 4,787,300 | 141 | 87, 808,164 | 136 |
| October. | 25, 813, 130 | 167 | 7,116, 502 |  | 16, 705, 015 | 110 | 1,426,528 | 202 | 3, 087,951 | 79 | 54, 149, 126 |  | 5,975, 261 | 176 | 81, 037,801 | 125 |
| Nov'ber. | 20,877, 718 | 135 | 6,609,629 | 47 | 15,582,081 | 1033 | 3,110,541 | 439 | 2,827,956 | 73 | 49,007,925 |  | 5,604,616 | 165 | 74,328, 697 | 115 |

1 Flour reduced to its equivalent in wheat on basis of $4 \frac{1}{2}$ bushels to barrel.

## Receipts of grain and flour at nine seaboard centers.

[Boston, New York, Philadelphia, Baltimore, New Orleans, San Francisco, Portland (Oreg.), Seattle, Tacoma; receipts of flour not available for
[Compiled from reports of trade organizations at these cities.]
[Monthly average, 1911-1913=100.]

|  | Wheat. |  | Corn. |  | Oats. |  | Rye. |  | Barley. |  | Total grain. |  | Flour. |  | Total grain and flour. 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bushels. | Relative. | Bushels. | Relative. | Bushels. | Relative. | Bushols. | Relative. | Bushels. | Rela tive. | Bushels. | Relative. | Barrels. | Rela tive. | Bushels. | Relative. |
| 1918. November | 9,854,356 | 78 | 786, 141 | 22 | 5,253, 154 | 111 | 1,332, 239 | 938 | 653, 880 | 39 | 17,879, 770 |  | , 656,205 | 159 | 25, 332, 693 | 92 |
| $\begin{gathered} 1919 . \\ \text { January.. } \end{gathered}$ |  | 78 | 1,411,366 | 40 | 9,275,187 |  |  | 398 | 1,738,326 | 105 | 22,759,871 |  |  | 194 | 31, 877, 978 | 116 |
| February. | 7, 805, 811 | 66 | 783, 263 | 24 | 4, 713, 794 |  | 2, 299, 664 | 1,734 | 995, 454 | 64 | 16, 597, 986 |  | 1,302,061 | 134 | 22,457, 261 | 88 |
| March... | $13,789,851$ | 109 | $636,127$ | 18 | 3, 254, 914 |  | 3, 880, 424 | 2, 731 | 2, 285, 954 | 138 | 23, 847, 270 |  | $1,644,676$ | 157 | 31, 248,312 | 114 |
| April. | 12, 581,074 | 100 | 1, 088,425 | 31 | 4, 604,521 |  | 5, 069, 529 | 3, 568 | 1, 853, 372 | 112 | 25, 197, 921 |  | 2, 549, 370 | 244 | 36, 670, 086 | 134 |
| May. | 14, 157, 852 | 112 | 1,588, 571 | 45 | 5, 642, 176 |  | 7,061,048 | $\begin{aligned} & 4,970 \\ & \hline \end{aligned}$ | 3,561, 412 | 215 | 32, 311,059 |  | 2, 535, 547 | 243 | 43, 421, 021 | 158 |
| June. | 10,260,075 | 81 | 1,051,177 | 30 | 10, 249, 644 |  | $3,670,055$ | $2,583$ | $6,564,620$ | 396 | 31, 795, 571 |  | 2, 340, 158 | 224 | 42, 326, 282 | 154 |
| July... | 5, 806,227 | $\begin{array}{r} 016 \\ 46 \end{array}$ | $\begin{array}{r} 2, \\ 901,842 \end{array}$ | $25$ | $\begin{array}{r} 6,959,186 \\ 6 \end{array}$ | 146 | $1,479,951$ | $1,042$ | $9,723,852$ | 586 | $24,871,058$ |  | $1,514,135$ | 145 | 31, 684, 666 | 116 |
| August. | 26,902, 757 | $\begin{array}{r} 714 \\ \hline \end{array}$ | $81,1,12$ | 23 | $5,676,984$ | 119 | $64,510$ | $\begin{array}{r} 45 \\ 377 \end{array}$ | $4,993,395$ | 301 | $38,452,778$ |  | $1,385,762$ | $133$ | $44,688,707$ | 163 |
| Sept'ber. | $28,010,858$ | $222$ | $512,072$ | 14 | $5,345,464$ | 113 | $\left\|\begin{array}{r} 535,701 \\ 7718,701 \end{array}\right\|$ |  | $2,171,521$ | 131 | $36,575,616$ |  | $\|\overrightarrow{\mathbf{2}, 306}, 213\|$ | 221 | $46,953,575$ | 171 |
| October. | 14, 755,827 | 117 | 507,065 438,147 | 14 | 4,335,038 | 91 84 | 1,718, 701 | 1,210 | $796,839$ | 48 | $22,113,470$ $15,831,881$ |  | 2, 521, 329 1,552, | 241 | $33,459,451$ | 122 |
| Nov'ber.. | 9,152,534 | 73 | 438,147 | 12 | 3,908,525 | 84 | 1,391,024 | 98 | 851,651 | 51 | 15,831, 881 |  | 1,552,796 | 149 | 22,810,463 | 83 |

1 Flour reduced to its equivalent in wheat on basis of $4 \frac{1}{2}$ bushels to barrel.
Stocks of grain at eight seaboard centers at close of month.
[Boston, New York, Philadelphia, Baltimore, New Orleans, Newport News, Galveston, San Francisco.]
[Compiled from reports of trade organizations at these cities.]
[Bushels.]

|  |  | Wheat. | Corn. | Oats. | Rye. | Barley. | Total grain. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1918. |  |  |  |  |  |  |
| November. |  | 13,904, 426 | 252,225 | 3,548, 473 | $2,385,828$ | 2,845,916 | 22,936,868 |
|  | 1919. |  |  |  |  |  |  |
| January |  | 15,365, 491 | 645, 317 | 5,495,937 | 1,972,696 | 3,047,346 | 26, 526,787 |
| February |  | 12,635, 613 | 417,520 | 6, 110, 159 | 1,735, 876 | 3,930, 465 | 24, 829,633 |
| March |  | 12,732, 472 | 346,543 | 5, 650, 120 | 1,920, 348 | 4,403, 665 | 25, 053, 148 |
| April. |  | 7,448, 992 | 464, 508 | 5, 385, 071 | 3,434, 878 | 5,420, 013 | 22, 104, 352 |
| May. |  | 7,913, 162 | 448,020 | 4,047, 059 | 1,690, 860 | 4, 263, 510 |  |
| June. |  | 4, 180, 160 | 214, 079 | 5,475, 856 | -514,252 | 8,783, 798 | 17,168, 145 |
| July. |  | 5,557,644 | 265, 196 | 3,760,063 | 867, 491 | 5, 528, 176 | 15,978,570 |
| August |  | 17,396,269 | 155, 491 | 2,216,989 | 578, 250 | $5,414,183$ | 25, 761, 182 |
| September |  | 21, 171, 440 | 172,254 | 1,901,510 | 516,142 | 4,081,830 | 27, 823, 176 |
| October. |  | 25, 322,242 | 82,240 | 1,898,271 | 483,270 | 3,079,360 | 30, 865, 383 |
| November |  | 18,728,730 | 155,490 | 2,504,833 | 1,264,494 | 2,351,012 | 25,004,559 |

Note.-Figures for San Francisco include also stocks at Port Costa and Stockton
Cotton.
[New Orleans Cotton Exchange.]
[Crop years 1911-1913=100.]

|  | Sight receipts. |  | Port receipts. |  | Overland movement. |  | American spinners' takings. |  | Stocks at ports and interior towns at close of month. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bales. | Relative. | Bales. | Relative. | Bales. | Relative. | Bales. | Relative. | Bales. | Relative. |
| August............... |  |  |  |  |  |  |  |  |  |  |
| September | 988,156 | 79 | 536, 190 | 58 | 42,028 | 40 | 352,025 | 77 | 1,644,690 | 1110 |
| October. | 1,632,921 | 130 | 779,371 | 85 | 158,768 | 151 | 697,623 | 154 | 2,189, 007 | 186 |
| November. | 1,710,666 | 136 | 641,283 | 70 | 217,450 | 207 | 1,007,892 | 222 | 2,745, 815 | 233 |
| December | 1,709, 734 | 136 | 690,782 | 75 | 157,038 | 149 | 929,491 | 205 | 2,697,141 | 229 |
| January. | 1,392,468 | 111 | 705,493 | 77 | 157,270 | 149 | 705,353 | 155 | 2,637, 908 | 224 |
| February. | 768,444 | 61 | 477, 696 | 52 | 106,368 | 101 | 383, 157 | 84 | 2,689,379 | 228 |
| March. | 601,858 | 48 | 460,066 | 50 | 75,489 | 72 | 202,556 | 45 | 2,604,549 | 221 |
| April.. | 494, 106 | 39 | 462,363 | 50 | 79,700 | 76 | 149,566 | 33 | 2,484, 852 | 211 |
| May. | 536,139 | 43 | 502,082 | 55 | 99,041 | 94 | 193,016 | 42 | 2,417, 631 | 205 |
| Season, total. | 11, 724, 104 | 78 | 6,735,898 | 61 | 1,528,262 | 121 | 5,850, 715 | 107 | 1,928,959 | 164 |
| August ................. |  |  |  |  |  |  |  |  |  |  |
| September | 584, 776 | 47 | 260,698 | 28 | 26,138 | 25 | 300,001 | 66 | 1,501, ${ }^{1} 805$ | 127 |
| October | 1,779, 927 | 142 | 1,029, 331 | 112 | 110,202 | 105 | 621,784 | 137 | 2,340,881 | 199 |
| Novemb | 2,329,079 | 186 | 1,178,443 | 128 | 205,139 | 195 | 1,115,226 | 245 | 2,616,383 | 222 |

California shipments of citrus and deciduous fruits.


Sugar.
[Data of International Sugar Committee for ports of Boston, New York, Philadelphia, Savannah, New Orleans, Galveston, San Francisco.]
[Tons of 2,240 pounds.]

|  | Receipts. | Meltings. | Raw stocks at close of month. |  | Receipts. | Meltings. | Raw stocks at close of month. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1918. |  |  |  | 1919. |  |  |  |
| November... | 138,141 | 172,528 | 50,989 | May.... | 471,205 429,617 | 446,685 | 201,301 |
| W 1919. |  |  |  | July.... | 394,557 | 435, 247 | 115,341 |
| January... | 243, 806 | 197, 145 | 66,189 | August.... | 333,686 | 356,048 | 85,650 |
| February. | 389,815 355,710 | 337,420 361,010 | 122,757 106,889 | September | 352,345 279,962 | 205,278 | 55,644 39,193 |
| April.. | 450,938 | 387,548 | 185,315 | November | 183,084 | 203,267 | 48,376 |

[Data for ports of New York, Boston, Philadelphia.]
[Weekly Statistical Sugar Trade Journal.]
[Tons of 2,240 pounds. Monthly average 1911-1913m100.]

|  | Receipts. |  | Meltings. |  | Raw stocks at close of month. |  |  | Receipts. |  | Meltings. |  | Raw stocks at close of month. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tons. | Relative. | Tons. | Relative. | Tons. | Relative. |  | Tons. | Relative. | Tons. | Relative. | Tons. | Rela- tive. |
| 1918. <br> November. | 139,343 | 76 | 139,000 | 76 | 43,112 | 25 | 1919. May..... | $\begin{aligned} & 325,736 \\ & 271,875 \end{aligned}$ |  | 307,000313,000 |  | 126,3188,8,19357,975 | 734934 |
|  |  |  |  |  |  |  | June..... |  | 148 |  | 171 |  |  |
| January... | 172,054283,17223, | $\begin{array}{r}93 \\ 165 \\ \hline 1\end{array}$ | 147,000 | 80 | 36,544 | 21 | August.... | 246, 419 | 134 | 229,000 | 125 | 75, 394 | 44 |
| February.. |  |  | 229,000261,000271,000 | 134142151 | 90,71662,187107,582 | 53 | September |  | 142 | 292,000 | 159 | 45, 531 | 26 |
| March..... | ${ }_{318,492}$ | 176173 |  |  |  | 36 |  | 233,650154,674 | 127 | 216,000 177,000 | 118 | 63,181 40,855 | 3724 |
| April.... |  |  | 277,000 | 151 | 107, 582 | 62 | November |  | 84 | 177,000 | 96 |  |  |

Naval stores.
(Data for Savannah, Jacksonville, and Pensacola.)
[In barrels.]
[Compiled from reports of trade organizations at these cities.]

|  | Spirits of turpentine. |  | Rosin. |  |  | Spirits of turpentine. |  | Rosin. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts. | Stock8 at close of month. | Receipts. | Stocks at close of month. |  | Receipts. | Stocks at close of month. | Receipts. | Stocks at close of month. |
| November. 1918. | 13,003 | 124, 471 | 65,508 | 255, 037 | May............. |  |  |  |  |
|  |  |  |  |  | June.... | 31,904 | 33,733 | 63,456 | 221,612 |
| January 1919. |  |  |  |  | July.... | ${ }_{21}^{27,747}$ | - 30,656 | 77,062 | 235,707 |
| February | 5,583 | 121,676 |  | 259, 73 | September..... | 21, 574 | 27, 021 | 72,616 | 203, ${ }^{2012}$ |
| March.... | 4,228 | 97,450 | 14,338 | 243, 813 | October... | 19,367 | 27, 389 | 67,080 | 186,231 |
| April.. | 8,379 | 75,546 | 19,493 | 225, 657 | November | 18,757 | 28,741 | 77, 125 | 204,281 |

Lumber.
[From reports of manufacturers' associations.]
[M feet.]

|  | Southern pine. |  |  | Westera pine. |  |  | Douglas fir. |  |  | Eastern white pine. |  |  | North Carolina pine. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Num ber of mills. | Production. | 8hlpments. | Number of mills. | Production. | Shipments. | Number of mills. | $\begin{aligned} & \text { Produc- } \\ & \text { tion. } \end{aligned}$ | Shipments. | Number of mills. | Production. | Shipments. | Number of mills. | Produc | Shipments. |
| November. | 194 | 312,126 | 353,810 | 38,46 | 90,078 | 74,103 | 121 | 281,189 | 240,986 | 16 | 23,529 | 23,828 | 42 | 32,596 | 36,012 |
| $\begin{array}{r} 1019 . \\ \text { January.... } \end{array}$ | 200 | 330,137 | 325, 241 | 21,49 | 40,354 | 68,010 | 122 | 225,688 | 227,129 | 13 | 7,565 | 15,172 | 40 | 28,629 |  |
| February.. | 195 | 328,069 | 309, 494 | 24,48 | 46,037 | 71, 103 | 122 | 228,031 | 238, 035 | 15 | 6,802 | 17,081 | 39 | 25, 806 | 18,034 |
| March. | 198 | 378,752 | 361, 125 | 27,48 | 71,426 | 81, 328 | 120 | 254, 650 | 255,544 | 11 | 7,118 | 17,525 | 41 | 32, 110 | 22,672 |
| April. | 205 | - ${ }^{397} \mathbf{4 1 4 , 8 9 9}$ | 397,877 460,238 | - 4 4,48,48 | 124, ${ }^{1247}$ | 127, 1279 | 111 | 345,984 | 268, 803 | 11 | 24,548 | 17,136 | 38 | 22,369 14,375 | ${ }_{17}^{21,878}$ |
| June. | 204 | 360,084 | 428, 193 | 49 | 156,561 | 139,923 | 115 | 300, 410 | 327, 364 | 12 | 29,741 | 26,525 | 38 | 20,733 | 28, 865 |
| July. | 206 | 401,939 | 486, 786 | 48 | 148,533 | 140,680 | 114 | 268,634 | 301,050 | 9 | 27,382 | 22,470 | 35 | 22, 326 | 34, 181 |
| August. | 204 | 417,036 | 423, 002 | 48 | 152, 748 | 140, 236 | 118 | 416,422 | ${ }^{397}$, 290 | 11 | 20, 247 | 28,839 | 36 | 27, 177 | 30,159 |
| September | 202 | $\xrightarrow{416,640} 421,025$ | 372, 727 | 51 52 | 154, 102 | 143,252 | 124 | 332,905 419,108 | 261,797 | 112 | 16,913 | 18, 239 | 35 | 33,146 24,055 | 35,468 22,079 |
| November | 202 | 391,347 | 344,717 | 51 | 110,525 | 117,472 | 126 | 324,511 | 241,301 | 11 | 2,786 | 21,590 |  |  |  |

RECEIPTS AND SHIPMENTS OF LUMBER AT CHICAGO.
[Chicago Board of Trade.]
[Monthly average, 1911-1913=100.]

|  | Receipts. |  | Shipments. |  |  | Receipts. |  | Shipments. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M feet. | Relative. | M feet. | Relative. |  | M feet. | Relative. | M feet. | Relative. |
| November. 1918. | 142,230 | 67 | 72,723 | 95 | 1919. | 162,365 <br> 184,862 <br> 200,148 | 7787 | 66,00180,762 | 86105 |
|  |  |  |  |  | June.... |  |  |  |  |
| January 1919. |  |  |  | 62646177 | July.... |  | 8480979883 | $\begin{aligned} & 90,134 \\ & 87,93 \\ & 93,120 \\ & 95,674 \\ & 70,175 \end{aligned}$ | 118 |
| Jsebruary..... | $\begin{array}{r} 134,604 \\ 97,511 \\ 124,040 \\ 144,253 \end{array}$ | 63494968 | 47,922 48,902 59, 055 |  | September | 170, 385 208,638 176,972 |  |  | 121 |
| March.. |  |  |  |  | October... |  |  |  | 125 |
| April....... |  |  |  |  | November |  |  |  | 92 |

Coal and coke.
[Bituminous coal and coke, U. S. Geological Survey; Anthracite coal, Anthracite Bureau of Information.] [Monthly average, 1911-1913=100.]

|  | Bituminous coal, estimated monthly production. |  | Anthracite coal, shipments over 9 roads. |  | Coke, estimated monthly production. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Beehive. | By-product. |  | Total. |  |
|  | Short tons. | Relative. |  |  | Long tons. | Relative. | Short tons. | Relative. | Short tons. | Relative. | Short tons. | Relative. |
| November...... | 43, 895,000 | 118 | 5,276,659 | 94 | 2,339,197 | 89 | 2,523,746 | 287 | 4,862,943 | 139 |
| January......... | 41,485,000 | 112 | 5,934,241 | 105 | 2,401,567 | 92 |  |  |  |  |
| February. | 31,566,000 | 91 | 3,871,932 | 74 | 1,822, 894 | 75 | 6,779,482 | 257 | 12,772,392 | 128 |
| March..... | $33,719,000$ $32,164,000$ | 91 87 | $3,938,908$ $5,224,715$ | 70 93 | $1,768,449$ <br> $1,316,960$ | 68 50 |  |  |  |  |
| May....... | 37,547,000 | 101 | 5,711,915 | 101 | 1,135, 840 | 43 |  |  |  |  |
| June... | 37,055,000 | 100 | 5,619,591 | 100 | 1,170,752 | 45 |  |  |  |  |
| July... | 42,754,000 | 115 | 6, 052,334 | 108 | 1,512,178 | 58 |  |  |  |  |
| August..... | $42,880,000$ 47403,000 | 116 | 6,144, 144 | 109 | $1,733,971$ 1,7906 | 66 |  |  |  |  |
| Oeptober...... | 54,579,000 | 147 | 6,560, 150 | 117 | 1, $1,551,980$ | 59 | . |  |  |  |
| November. | 20,303,000 | 55 | 5,971, 671 | 106 | 1,680,775 | 64 |  |  |  |  |

Movement of crude petroleum in United States.
[U. S. Geological Survey.]
[Barrels of 42 gallons each.]

|  | Marketed. |  | Stocks at end of month (barrels). |  | Marketed. |  | Stocks at end of month (barrels). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Barrels. | Relative. |  |  | Barrels. | Relative. |  |
| 1918. | 29,914,000 | 156 | 131,295,000 | 1919. |  |  |  |
| November.. |  |  |  | May.... | $\begin{aligned} & 29,985,000 \\ & 31,644,000 \\ & 33,894,000 \end{aligned}$ | ${ }_{165}^{156}$ | $130,321,000$ $133,995,000$ |
| 1919. |  |  |  | July... |  | 165 <br> 177 <br> 17 | 133,999, ${ }^{13000}$ |
| January.. | 30, 196,000 | 158 |  | August.... |  | 177 | 136, 467,000 |
| February | 26,910,000 | 150 | 126,982,000 | September. | 33,667,000 | 176 | 137, 131,000 |
| March. | 30,234,000 | 158 | 129, 213,000 |  | $33,319,000$ 32 | 174 | 135,461,000 |
| April............... | 29,386,000 | 153 | 130,729,000 | November. | 32, 114,000 | 168 | 131,601,000 |

Total output of oil refineries in United States.
[Bureau of Mines.]

|  | Crude oil run (barrels). | Gasoline (gallons). | Kerosene <br> (gallons). | Gas and fuel (gallons). | Lubricating (gallons). |
| :---: | :---: | :---: | :---: | :---: | :---: |
| October............................... | 29,237,767 | 314,251,318 | 164, 928, 640 | 661,780,441 | 72,244,633 |
| January........................ 1919. |  |  |  |  |  |
| February | 25,232,876 | 283, 518,194 | 164, 181,787 | $\stackrel{\text { 553, }}{5853,753}$ | $68,304,618$ $62,503,072$ |
| March. | 27,866,775 | 311, 306,755 | 170, 290,930 | 574,774,156 | 67,063,995 |
| April. | 27,775,217 | 319,807, 838 | 183, 453,728 | 588, 808, 408 | 70, 954,128 |
| May... | $30,267,227$ $28,920,764$ | $354,472,377$ $338,336,985$ | $190,345,026$ $178,974,224$ | $652,166,738$ $632,205,805$ | 76,442, ${ }^{\mathbf{6 4}, 636} \mathbf{2 5 3}$ |
| July. | 31,202, 522 | 342, 991,757 | 205, 727, 289 | 638, 185,469 | 67,037,414 |
| August. | 32,362,057 | 326, 846, 167 | 219, 502,888 | 685, 702,461 | 72,920,214 |
| Septembe | 32,601,044 | 339, 582,564 | 199, 244, 293 | 683, 409,674 | 70, 236,692 |
| October | 33,682,968 | 363,456,747 | 227, 104,346 | 680, 158,446 | 78,658,410 |
| Stocks at close of month. |  |  |  |  |  |
|  |  |  |  |  |  |
| Oct. 31 | 15,438, 576 | 250, 328, 329 | 419, 409, 944 | 596, 116,351 | 135, 106,542 |
|  |  |  |  |  |  |
| Jan. 31. | $15,380,185$ $14,820,601$ | $383,212,692$ $458,449,187$ | 303, 33062,436 | 646,411,414 | $158,370,431$ $152,297,163$ |
| Mar. 31 | 15, 106, 361 | 546,062, 429 | 294, 777 ,623 | 749, 0677 , 806 | 165, 195,254 |
| Apr. 30 | 15,184, 844 | 593,616,170 | 276, 356,837 | 807, 895,498 | 170,122,088 |
| May 30. | 16,372,314 | 594, 035,688 | 244, 635,631 | 788, 740,572 | 173, 754, 109 |
| June 30 | 16,775,723 | 593, 896, 610 | 252, 542,434 | $811,790,637$ | 175, 384, 775 |
| July ${ }^{\text {Aug. }} 31$. | 15,304,915 | 514, 919,358 $434,531,446$ | ${ }_{\text {296, }}^{2795}$ | $817,809,519$ $830,329,785$ | $173,884,303$ $170,572,810$ |
| Sopt. 30 | 13,925,441 | 371, 125,419 | 311, 843,057 | 862,135,385 | 170,572, 15670 |
| Oet. 31. | 14,091,945 | 354, 180,071 | 320, 160,795 | 828,574,452 | 152,536,786 |

Iron and steel.
[Great Lakes iron ore movements, Marine Review; pig-iron production, Iron Age; steel-ingot production, American Iron and Steel Institute.]
[Monthly average, 1011-1913-100; iron ore, monthly average, May-November, 1911-1913=100.]

|  | Iron ore shipments from the upper Lakes. |  | Pig iron production. |  | Steel ingot production. |  | Unfilled orders U. S. Steel Corporation at close of month. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gross tons. | Relative. | Gross tons. | Relative. | Gross tons. | Relative. | Gross tons. | Relative. |
| November.................... | 4,333,828 | 72 | 3,354,074 | 145 | 3,060, 760 | 128 | 8,124,663 | 154 |
| 1919. |  |  |  |  |  |  |  |  |
| January.. |  |  | 3,302, 260 | ${ }_{136}^{143}$ | 3,082, 427 | 130 | 6,684, 2688 | 127 |
| Marruary. |  |  | 2, 940, 168 <br> $3,090,243$ | 136 133 137 | 2,688,011 <br> $2,662,265$ <br>  | 120 | $6,010,787$ <br> 5,430 | 114 |
| April. | 1,412, 239 |  | 2,478, 218 | 107 | 2, 239,711 | 93 | $4,800,685$ | 91 |
| May.. | 6,615, 341 | 109 | 2,108,056 | 91 | 1,929,024 | 80 | 4,282,310 | 81 |
| June.. | 7,980, 839 | 132 | 2,114, 863 | 91 | 2, 219, 219 | 92 | 4, 892, 855 | 93 |
| July.... | 9,173, 429 | 151 | 2, 428, 541 | 105 | 2, 208,176 | 1114 | 5, 578, 661 | 116 |
| Augrst ${ }_{\text {September }}$ | $4,423,133$ $8,178,483$ | 135 | $2,743,388$ $2,487,965$ | 118 | 2,746,081 | 114 | $6,109,103$ $6,284,638$ | 116 119 |
| October... | 6, 201,883 | 102 | 1,863, 558 | 80 |  |  | 6, 772,668 | 123 |
| November. | 3,152,319 | 52 | 2,392, 350 | 103 |  |  | 7,122,330 | 135 |

Imports of pig tin.
[Department of Commerce.]
[Monthly average, 1911-1913-100.]

|  | Pounds. | Relative. |  | Pounds. | Relative. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Noveraber.............. 1918. | 10,734, 179 | 118 | May. ................... | 449,270112,000 |  |
| 1919. |  |  | June. |  |  |
|  |  |  | July... | 1113, 120 | 1 |
| January ... | $\begin{aligned} & 8,461,444 \\ & 6,271,977 \end{aligned}$ |  |  |  | 109 |
| February. |  | 74 91 | September | $11,087,403$ $16,210,512$ | 122 178 |
| April. | $\begin{aligned} & 8,284,970 \\ & 501,903 \end{aligned}$ | ${ }_{9}^{91}$ | November | 15, 233,671 | 168 |

Raw stocks of hides and skins.
[Burean of Markets.]
[In pieces.]

|  | Cattle hides. | Calfskins. | Kipskins. | Goat. | Fid. | Cabretta. | Sheep and lamb. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1919. |  |  |  |  |  |  |  |
| Jan. 31. | 5,922,514 | 1, 294, 949 | 515, 523 | 4, 239,381 | ${ }_{20}^{245,815}$ | 601,686 | 6, 844, 680 |
| Mar. 31 | 5, 5 5, 108,516 | ${ }_{1}^{1,219,935}$ | 415, 882 | -5,683,585 | -227,513 | 843,344 559,566 | 9, ${ }^{\text {8, }} \mathbf{2 6 4 , 9 6 4}$ |
| Apr. 30 | 5, 256, 384 | $1,845,254$ | 421, 474 | 12,080,410 | 724,209 | 1,520,522 | 9,095,816 |
| May 31. | 4,549,004 | 2, 273 , 368 | 386, 244 | 15, 121,868 | 1,246,075 | 2,044, 524 | 8,039, 531 |
| June 30 | 4,696, 332 | 2, 285, 015 | 558,033 | 16,991, 195 | 2,521,016 | 1,697,754 | 8,118, 702 |
| July 31. | 4,966,081 | 2, 389, 368 | 554, 516 | 15, 589,944 | 1,964,828 | 2,767, 694 | 6,815, 160 |
| Aug. 31 | 5, 498, 844 | 2,145,326 | 585, 269 | 18,263,446 | 880,276 | 2,348,769 | 7,126, 885 |
| Sept. 30 | 6,158, ${ }_{6} 889$ | ${ }_{\mathbf{2}}^{2,0055,084}$ | $\begin{array}{r}947,546 \\ 1 \\ \hline\end{array}$ | 13,930,167 | 823,740 2,239604 | $2,655,774$ $2,574,499$ | 8, ${ }^{8} 1261,215$ |
| Nov. 30. | 6,719,202 | 1,806,367 | 1,086,211 | 14,248, 129 | 331,389 | 2,677,336 | 9,336,964 |

Notr.-Figures for Nov. 30 are provisional.

## Textiles.

[Silk, Department of Commeree; cotton, Bureau of the Census; wool, Bureau of Markets; idle machinery, January-September, 1918, iuclusive, National Association of Wool Manufacturers.]
[Cotton, monthly average crop years 1912-1914=100; silk, monthly average 1911-1913=100.]

|  | Cotton consumption. |  | Cotton spindles active during month. | Woolconsumption (pounds). | Percentage of idle woolen machinery on first of month to total reported. |  |  |  |  |  | Imports of raw silk. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Looms. |  | Sets of cards. | Combs. | Spinning spindles. |  |  |  |
|  | Bales. | Relative. |  |  |  |  | Wider than 50inch reed space. | Under 50 -inch reed space. | Woolen. | Worsted. | Pounds. | Relative. |
| $1918 .$ <br> November. | 455,611 | 101 |  | 33, 115, 369 | 38,282,723 | 21.1 | 26.8 | 11.1 | 23.8 | 11.9 | 30.1 | 2,336,345 | 114 |
| $\begin{array}{r} 1910 . \\ \text { January... } \end{array}$ | 556, 721 | 124 | 33, 856,472 | 32,573,970 | 40.3 | 32.6 | 32.2 | 30.7 | 36.5 | 37.5 | 1,461,827 | 71 |
| February. | 433,516 | 103 | 33, 282, 593 | $23,186,818$ | 52.3 | 41.5 | 38.7 39 | 39.8 47.8 | 41.1 | 48.6 52.7 | 1,742,812 | 91 87 |
| March. | 433,720 475,753 | 96 106 | $32,642,376$ $33,213,026$ | $29,320,063$ $39,159,945$ | 58.1 48.4 | 42.4 38.9 | 39.1 36.5 | 47.8 34.2 | 41.8 28.4 | 52.7 36.1 | $1,784,412$ $2,988,838$ | 87 146 |
| May. | 487,998 | 109 | 33,556,011 | 45, 084, 834 | 36.6 | 32.9 | 17.1 | 22.5 | 16.8 | 25.8 | 4, 878,646 | 238 |
| June. | 474,407 | 105 | 33, 943, 405 | 48, 849, 892 | 29.6 | 26.6 | 15.4 | 12.8 | 15.2 | 21.1 | 3, 848, 354 | 188 |
| July. | 509, 793 | 113 | 34, 184,407 | 54, 973, 093 | 22.0 | 26.0 | 9.7 | 7.6 | 8.9 | 13.5 | 5, 202, 407 | 254 |
| August | 502, 536 | 112 | 34, 187, 310 | 48,938, 476 | 22.1 | 21.9 | 9.4 | 6.5 | 8.9 | 10.9 | 3,802,500 | 186 |
| September. | 491,313 | 109 | 34, 216,662 | 52, 985, 961 | 19.9 | 22.8 | 8.1 | 5.5 | 7.9 | 12.8 | 6,755, 271 | 330 |
| October.. | 555, 344 | 123 | 34,307, 367 | 60,018, 415 | 16.0 | 20.7 | 8.2 | 5.9 | 7.7 | 7.2 | 3,955, 845 | 193 |
| November. | 490,698 | 109 | 34, 483, 775 | 52,428,854 | 14.8 | 18.2 | 7.6 | 5.3 | 6.7 | 6.7 | 4,841,407 | 237 |
| December. |  |  |  |  | 13.9 | 19.1 | 10.5 | 5.3 | 8.4 | 6.2 |  |  |

Production of wood pulp and paper.
[Federal Trade Commission.]
[Net tons.]

|  | Wood pulp. | News print. | Book. | Paper board. | Wrapping. | Fine. |  | Wood pulp. | News print. | Book. | Paper board. | Wrapping. | Fine. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} 1918 . \\ \text { November.... } \end{gathered}$ | 270,849 | 101,403 | 65,374 | 148, 671 | 59,572 | 30,322 | May. 1919. | 294, 067 | 105, 819 | 76,821 | 151,651 | 56,579 |  |
|  |  |  |  |  |  |  | June. | 277, 142 | 114,896 | 71,938 | 152,957 | 60,656 | 27, 122 |
| 1919. |  |  |  |  |  |  | July. | 260,685 | 113, 929 | 75, 613 | 169,593 | 63,769 | 30, 036 |
| January. | 283, 270 | 116,154 | 70, 443 | 140,859 | 50,490 | 27,675 | August | 260,987 | 113,413 | 82,737 | 189, 782 | 64, 861 | 33, 122 |
| February......... | 238,228 | 103,248 | 62,616 | 125, 208 | 45,480 | 24,600 | Scptember | 266,915 | 111,434 | 81, 024 | 184, 897 | 63, 353 | 31,923 |
| March............ | 278,675 | 114,746 | 63,699 | 136, 175 | 18,069 | 23,514 | October. | 308,710 | 125,216 | 89,440 | 202,524 | 67,110 | 34, 808 |
| April.. | 284,984 | 116,278 | 67,628 | 138,802 | 48,158 | 22,470 | November | 147,672 | 116,603 | 84,085 | 182,940 | 63,394 | 32,468 |

Sale of revenue stamps for manufacturers of tobacco in the United States (excluding Porto Rico and Philippine Islands).
[Commissioner of Internal Revenue.]

|  | Cigars. |  | Cigarettes. | Chewing and smoking tobacco. |  | Cigars. |  | Cigarettes. | Chewing and smoling tobaceo. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large. | Small. | Small. |  |  | Large. | Small. | Small. |  |
| 1918. <br> August | Number. $624,491,239$ | Number. $60,880,910$ | Number. 3,442,446, 234 | Pounds. 40, 764, 853 | April. 1919. | Number. $510,357,494$ | Number. |  |  |
|  |  |  |  |  | May... | 551, 659, 749 |  | 2,767,699, 400 | $\begin{aligned} & 29,883,710 \\ & 33,340,10 \end{aligned}$ |
| $1919 .$ |  |  |  |  |  | 576, 976, 572 | 48, 855, 070 | 3,140,393, 217 | 31,312, 150 |
| January.. <br> February. | 518, 706, <br> 4762 <br> 1829 | 72,458,974 | 3, $079,212,253$ | $29,308,616$ $27,472,269$ | July.... | 569, 965, 088 | 47, 290, 267 | 3,585, 111, 783 | 33, 838, 667 |
| March.... | $476,329,947$ $549,098,351$ | $60,138,630$ $84,493,873$ | $3,126,274,662$ $3,845,079,275$ | $27,472,269$ $29,227,678$ | August. |  |  |  |  |

Output of locomotives and cars.
[Locomotives, United States Railroad Administration; cars, Railway.Car Manufacturers' Association.]

|  | Locomotives. |  | Output of cars. |  |  |  | Locomotives. |  | Output of cars. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Domestic shipped. | Foreign completed. | Domestic. | Foreign. | Total. |  | Domestic shipped. | Foreign completed. | Domestic. | Forelgn. | Total. |
| 1918. November. | Number. 224 | Number. 252 | $\begin{array}{r} \text { Number. } \\ 6,743 \end{array}$ | Number. 2,330 | Number.9,093 | May........ | Number. 207160 | Number. 31 | Number. | Number. 8,533 | Number. 13,106 |
|  |  |  |  |  |  |  |  | ${ }_{73}^{44}$ | 1,785 2,777 | 5,307 6,936 |  |
| January..... | 282 | 84 | 8,172 | 3,635 | 11,807 | August. | 160 | 173 | 18,509 | 5,015 | 23,524 |
| February.. | 135 <br> 258 | 164 | -6,623 | 4,657 | 11, 280 | September. | 111 | ${ }^{53}$ | 19, 980 | 4,302 | 24, 282 |
| March..... | 258 197 | 128 | 5,978 7,777 | 5,795 7,373 | 11,773 15,150 | October.... November. | 39 9 | 23 23 | 10,445 8,967 | 3,715 2,622 | 14,160 11,589 |
|  |  |  |  |  |  |  |  |  |  |  |  |

Vessels built in United States, including those for foreign nations, and officially numbered by the Bureau of Navigation.
[Monthly average, 1911-1913=100.]

|  | Number. | $\underset{\text { Gonnage }}{\text { Gross }}$ | Relative. |  | Number. | Gross tonnage. | Relative. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1918. |  |  |  | 1919. |  |  |  |
| November. | 171 | 357,660 | 1,480 | May........... | 272 | 395,408 422,889 | 1,636 1,750 |
| 1919. |  |  |  | July. | 245 | 397, 628 | 1,645 |
| January..... | 132 | 264,346 271,430 | 1,094 | August....... | ${ }_{202} 23$ | 455, 338 | 1,884 |
| February.... | 185 | 271.430 298,005 | 1,203 | September..... | ${ }_{210}^{202}$ | 378,858 | 1,568 |
| April. | 201 | 375, 605 | 1,554 | November. | 143 | 347,051 | 1,436 |

Tonnage of vessels cleared in the foreign trade.
[Department of Commerce.]
[Monthly average, 1911-1913 $=100$ ]

|  | Net tonnage. |  |  |  | $\begin{gathered} \text { Per } \\ \text { cent- } \\ \text { age } \\ \text { of } \\ \text { Ameri- } \\ \text { can to } \\ \text { total. } \end{gathered}$ | Relative. |  | Net tonnage. |  |  |  | $\begin{array}{\|c\|} \text { Per } \\ \text { cent- } \\ \text { age } \\ \text { of } \\ \text { Ameri- } \\ \text { can to } \\ \text { total. } \end{array}$ | Relative. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | American. | Foreign. | Total. | Relative. |  |  |  | American. | Foreign. | 'Total. | Rela- |  |  |
| $\begin{array}{r} 1918 . \\ \text { November. } \end{array}$ | 1,770,935 | 1,991,725 | 3,762,660 | 97 | 47.1 | 186 | $\begin{array}{r} 1919 . \\ \text { May....... } \end{array}$ |  |  |  | 126 |  |  |
|  |  |  |  |  |  |  | June. | 2,339,320 | 2,511,501 | 4,850,821 | 125 | 48.2 | 191 |
| 1919. |  |  |  |  |  |  | July...... | 2,362,571 | 2, ${ }_{2} \mathbf{7 2 0 , 2 4 7}$ | 5,282, 818 | 136 | 44.7 | 177 |
| January... | 1, 1606, 391 | 1,896,123 | 3,062, 514 | 78 78 | 38.1 43.0 | 151 170 | August.... |  | ${ }_{2}^{2,797,818}$ | 5, 755,087 | 148 | 51.4 | 203 |
| March ..... | 1,161,416 | 1, 737,171 | 2,898,587 | 75 | 4 | 158 | October... | 2,645, 778 | 2, $2,073,560$ | -5,719, 338 | 121 | $\stackrel{31.4}{56.1}$ | 222 |
| April..... | 1,744,753 | 2,058,220 | 3,802,973 | 98 | 45.9 | 181 | November. | 2,251,871 | 1,910,489 | 4,162,360 | 107 | 54.1 | 214 |

Net ton-miles, revenue and nonrevenue.
[United States Railroad Administration.]

| 1818. | 35,564,236,030 | 1919 |  |
| :---: | :---: | :---: | :---: |
| November |  | May.. | 32,440,708,080 |
| 1919. |  | June.... | $31.933,366,000$ $34,914,294,000$ |
| January. | 30, 383, 169,000 | August. | 36,361,653,000 |
| February | 25, $681,943,000$ | September | 38,860, 311,000 |
| March. | 28, 952,925, 000 | October.. | 40,343, 750, 000 |
| April.. | 28, 629, 739,000 | November. | 32,539,248,000 |

Commerce of canals at Sault Ste. Marie.
[Monthly average, May-November, 1911-1913-100.]
EASTBOUND.

|  | Grain, other than wheat. |  | Wheat. |  | Flour. |  | Iron ore. |  | Total. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bushels. | Relative. | Bushels. | Relative. | Barrels. | Relative. | Short tons. | Relative. | Short tons. | Relative. |
| November. 191. | 7,189,456 | 81 | 52,702,409 | 274 | 1,054,630 | 91 | 4,417,282 | 74 | 6,855,760 | 91 |
| April............. | 4, 176,041 |  | $16,729,000$$29,096,116$ |  |  |  |  |  |  |  |
| May... |  | 10.0 |  | 151 | 910,524 | 78 | 6, $1,132,3226$ | $\cdots$ | 1,756,286 | i13 |
| June... | 6, 694,901 | 758080 | 6,402,2,3912,812 | 3312 | 1,915, ${ }^{120}$ | 8979 | 8,004,897 | 135150 | $8,544,996$9,393 | $\begin{array}{r}122 \\ 133 \\ \hline 1\end{array}$ |
| July...... |  |  |  |  |  |  |  |  |  |  |
| August..... | $5,284,741$ $\mathbf{2 , 9 1 8 , 5 9 1}$ | 59 <br> 39 | $1,487,218$ $10,180,991$ | 8 <br> 5 <br> 8 | 935,700 | 81 79 | 4,727,994 | $\begin{array}{r} 80 \\ 134 \end{array}$ |  | 72122101 |
| October... | $\begin{aligned} & 4,351,059 \\ & 8,654,903 \end{aligned}$ | 4997 | $\begin{aligned} & 22,252,196 \\ & 17,388,391 \end{aligned}$ | 11690 | $\begin{aligned} & 1,544,510 \\ & 1,402,260 \end{aligned}$ | $\begin{aligned} & 133 \\ & 121 \end{aligned}$ | $\begin{aligned} & 6,059,450 \\ & 3,209,532 \end{aligned}$ | 10256 |  |  |
| November. |  |  |  |  |  |  |  |  | $\begin{aligned} & 7,063,120 \\ & 4,201,88 \end{aligned}$ | 60 |

WESTBOUND.

|  | Hard coal. |  | Soft coal. |  | Total. |  | Total freight. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Short tons. | Relative. | Short tons. | Relative. | Short tons. | Relative. | Short tons. | Relative. |
| November...................... | 487,569 | 157 | 1,517,020 | 79 | 2,157,751 | 87 | 8,513,511 | 90 |
| 1919. | 142,864 <br> 248,263 |  |  |  |  |  |  |  |
| April.. |  | 80 | 415,824 $2,239,738$ | $\cdots \cdots$ | 816, 897 $\mathbf{2 , 6 7 0} 784$ | $\cdots{ }^{107}$ | 2,373, $10,566,326$ |  |
|  | 227, 200 | 73111 | $2,266,984$$2,037,265$ | 118 | 2,664, 437 | 107 | 11,219,416 | 118 |
| July. | 344,462 |  |  |  | 2,572,756 | $\begin{array}{r}103 \\ 61 \\ 67 \\ \hline 1\end{array}$ | 6,609,961 | 125 |
| August. | 185,387$\mathbf{2 3 1 ,} \mathbf{0 3 0}$ | 6075 | $1,189,558$$1,156,841$1, | 626060 | 1,529, 310 |  |  | $\begin{array}{r}70 \\ 107 \\ \hline\end{array}$ |
| September. |  |  |  |  |  |  |  |  |
| October.... | $\begin{aligned} & 498,505 \\ & 466,135 \end{aligned}$ | 161150 | $\begin{array}{r} 1,848,511 \\ 307,241 \end{array}$ | 9816 | $\mathbf{2 , 6 5 0 , 7 9 9}$$\mathbf{9 3 2 , 6 1 5}$ | 10737 | $\begin{array}{r} 9,713,919 \\ 5,134,496 \end{array}$ | 10254 |
| November. |  |  |  |  |  |  |  |  |

## BANK TRANSACTIONS DURING NOVEMBER-DECEMBER.

In the table below are shown debits to individual account for five weeks ending December 24, 1919, as reported by 154 of the country's most important clearing houses. In addition, debits to individual account for each of the five weeks are compared with figures for the corresponding weeks of 1918, comparable data being available for 145 centers.
Aggregate debits to individual account for the first three weeks under review showed a continued recession from the very large totals of the preceding four weeks. For the third week of the period the total was 9,491 millions, as compared with 11,134 millions for the week ending November 19. The following week, however, during which the December 15 in-
stallments of income and excess profits taxes fell due, saw an increase of about 1,500 millions in debits to individual account, which for that week again exceeded 11 billions. For the week ending December 24 the total, notwithstanding the Christmas expansion of retail trade, was about 550 millions below the figure for the preceding week.

Debits to individual account reported for the five-week period, November 21 to December 24, 1918, show a movement substantially parallel to that shown for the corresponding weeks of 1919, the low total for the last week of the earlier period being due to the fact that it consisted of only five business days.

Debits to individual account at clearing-house banks during each of the five weeks ending Dec. 24, 1919 and 1918.
[In thousands of dollars.]

| Federal Reserve District. | 1919 <br> Weok ending- |  |  |  |  | Week ending- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dec. 24. | Dec. 17. | Dec. 10. | Dec. 3. | Nov. 26. | Dec. 24. | Dec. 18. | Dec. 11. | Dec. 4. | Nov. 27. |
| No. 1-Boston: |  |  |  |  |  |  |  |  |  |  |
| Bangor.... | 3,072 | 3,359 | 3,299 | 2,926 | 3,128 | 1,739 | 2,717 | 2,622 | 2,836 | 2,903 |
| Boston. | 363,354 | 407, 148 | 321,572 | 348, 011 | 347,560 | 214, 173 | 231,125 | 236, 821 | 223,957 | 247, 621 |
| Fall River | 11,987 | 12, 483 | 9,916 | 10, 166 | 14,230 | 6,594 | 7,859 | 6,729 | 4,675 | 8,032 |
| Hartford. | 21,053 | 27,527 | 21,503 | 24,058 | 16,790 | 16,815 | 20, 301 | 18,555 | 21,896 | 18,073 |
| Holyoke. | 3,917 | 4,097 | 3,745 | 2,945 | 4,629 | 2,890 | 3,374 | 2,596 | 2,736 | 3,070 |
| Lowell... | 8,705 | 7,826 | 5,498 | 5,969 | 9, 679 | 5,220 | 5,474 | 5,034 | 5,508 | 6,452 |
| New Bedford | 9,041 | 12,359 | 9,445 | 9, 787 | 9, 130 | 5,297 | 5,878 | 5,425 | 5,137 | 7,292 |
| New Haven | 18,444 | 19,489 | 17,558 | 16,503 | 16,347 | 13,970 | 16,739 | 15, 053 | 14,036 | 17,822 |
| Portland |  | 8,857 | 7,736 | 8,889 | 6,828 | 6,620 | 7,810 | 8,576 | 8,587 | 9,285 |
| Providence | 46,916 | 51,310 | 38,201 | 36,918 | 35,259 | 27,461 | 31, 172 | 27,687 | 27,841 | 30,837 |
| Springfield. | 19,149 | 18,029 | 17,006 | 17,213 | 17,768 | 9,233 | 10,625 | 9,462 | 8,744 | 11,647 |
| Waterbury | 8,159 | 9,143 | 8,949 | 6,740 | 7,722 | 6, 653 | 7,933 | 8,841 | 4,090 | 7,436 |
| Worcester. | 21,286 | 22,204 | 16,270 | 16,153 | 19,254 | 14,653 | 14,987 | 13,852 | 11,959 | 22,478 |
| Albany.. | 23,555 | 26,105 | 19,267 | 19,324 | 17,207 | 19,893 | 18,282 | 19,416 | 18,561 | 20,981 |
| Binghamto | 4,007 | 4,385 | 3,882 | 3,698 | 3,615 | 2,593 | 3,139 | 2,539 | 2,368 | 2,415 |
| Buffalo. | 67, 011 | 73,321 | 60,403 | 66,619 | 67,359 | 48,658 | 55,780 | 57,179 | 60,370 | 71,673 |
| New York | 5,590, 623 | 5,784,012 | 5, 068,752 | 5, 046, 831 | 5, 364, 902 | 3,501,307 | 3,815, 554 | 3,699,541 | 3,607, 712 | 4, 159,526 |
| Passaic.. | 6,622 | - 6, 729 | 5, 5,435 | 5, 5,169 | 5, 5 | 3,936 | 3,815,693 | 3, 3,978 | 3, 3,570 | 4, 3,721 |
| Rochester | 31, 124 | 33,796 | 30,742 | 31,657 | 22,970 | 21,318 | 25, 065 | 22,661 | 25, 065 | 22,589 |
| Syracuse.......... | 17,547 | 16,634 | 14,885 | 15,032 | 15,452 | 11,472 | 15,138 | 12,306 | 12,632 | 12,803 |
| No. 3-Philadelphia: | 3,106 | 3,319 | 3,151 | 3,155 | 3,740 | 2,195 | 2,137 | 2,877 | 1,883 | 2,975 |
| Chester.. | 5,137 | 5,213 | 4,878 | 4,989 | 4,848 | 4,219 | 5,388 | 5,145 | 4,175 | 4,981 |
| Harrisburg | 3,347 | 4,871 | 3,935 | 3,900 | 3,610 | 5,328 | 6, 375 | 5,950 | 5,270 | 6,420 |
| Johnstowa. | 3,189 | 2,999 | 3,015 | 3,089 | 2,786 | 2,530 | 3,190 | 2, 514 | 2,731 | 2,950 |
| Lancaster. | 5,301 | 5,479 | 5,046 | 4,872 | 5,316 | 3,552 | 4, 208 | 4,148 | -4,105 | 4,238 |
| Philadelphia | 360, 100 | 420, 652 | 332,631 | 323, 616 | 335, 399 | 263, 385 | 294, 752 | 294, 545 | 266, 434 | 332, 868 |
| Reading. | 4,355 | 5,697 | 4,410 | 4,223 | 4,044 | 3,193 | 4,404 | 3,533 | 3,476 | 3,868 |
| Scranton | 15,356 | 12, 130 | 14,225 | 13,295 | 17,568 | 11,719 | 9,565 | 11,626 | 9,169 | 14,099 |
| Trenton. | 12,572 | 13,446 | 12,118 | 11,191 | 11, 101 | 8,315 | 9,642 | 9, 715 | 9,547 | 9,547 |
| Wilkes-Barre | 7,124 | 8,993 | 7,671 | 7,510 | 8,277 | 5,431 | 6,401 | 6, 449 | 6,265 | 5,902 |
| Williamspor | 4,065 | 4,068 | 3,484 | 3,366 | 3,462 | 3,570 | 3,210 | 3, 001 | 2,836 | 3,081 |
| Wilmington | 11,809 | 14,728 | 9,867 | 10,730 | 8,614 | 11, 455 | 9,317 | 10,596 | 9,403 | 10,054 |
| York........ | 4,330 | 5,003 | 3,617 | 3,750 | 3,804 | 2,813 | 3,345 | 2,896 | 3,161 | 3,254 |
| No. 4-Cleveland: Akron. | 28,074 | 27,320 | 21,817 |  | 27,517 | 13,326 | 14,273 |  | 14,132 | 14,869 |
| Cincinnati | 61, 295 | 83, 193 | 56,127 | 56,151 | 63, 094 | 40, 775 | 58,564 | 58,326 | 50,720 | 63,815 |
| Cleveland. | 175, 453 | 203,261 | 154, 746 | 177,779 | 161,696 | 124,846 | 133, 144 | 141,275 | 109,670 | 147,953 |
| Columbus | 27,562 | 32,736 | 28,659 | 29,292 | 26, 185 | 21,966 | 25, 231 | 22,987 | 20,486 | 24, 344 |
| Dayton. | 10,948 | 12,756 | 11,631 | 12,842 | 11,415 | 11,677 | 10,937 | 10,426 | 12,388 | 11,183 |
| Erie.. | 8,015 | 8,187 | 6,534 | 6,571 | 6,706 | 6,058 | 6,945 | 6,496 | 6,327 | 6,709 |
| Greensburg, Pa | 4,672 | 5,893 | 4,250 | 5,878 | 3,387 | 2,250 | 2,713 | 3,098 | 3,975 | 2,594 |
| Lexington, Ky | 10,967 | 11,876 | 8,238 | 4,806 | 5,447 | 4,482 | 4,317 | 3,467 | 3,408 | 3,207 |
| Oil City. | 2,898 | 3,992 | 2,837 | 1,722 | 2,817 | 2,018 | 4,866 | 2,869 | 1,558 | 2,937 |
| Pittsburgh | 211,964 | 189,718 | 173, 742 | 169,551 | 194,441 | 164,042 | 181, 756 | 156, 824 | 155,000 | 249,496 |
| Springfield, Ohio | 3, 574 | 3,947 | 3,683 | 2,914 | 3,025 | 2,550 | 3,067 | 2,595 | 2,552 | 2,438 |
| Toledo.. | 29,893 | 34,795 | 28,191 | 30,534 | 27,730 | 24,405 | 24,785 | 22, 896 | 20,051 | 31,496 |
| Wheeling | 6,275 | 8,848 | 8,748 | 10,445 | 5, 862 | 4,960 | 7,697 | 6, 512 | 7,100 | 8,501 |
| Youngstown. | 12,948 | 13, 671 | 11, 526 | 11,022 | 12,477 | 15,906 | 9,970 | 12,562 | 9,816 | 15,842 |

Debits to individual account at clearing-house banks during each of the five weeks ending Dec. 24, 1919 and 1918-Contd.
[In thousands of dollars.]

| Federal Reserve District. | $\xrightarrow[\text { Week ending- }]{1919}$ |  |  |  |  | 1918 <br> Week ending- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dec. 24. | Dec. 17. | Dec. 10. | Dec. 3. | Nov. 26. | Dec. 24. | Dec. 18. | Dec. 11. | Dec. 4. | Nov. 27. |
| No. 5.-Richmond: |  |  |  |  |  |  |  |  |  |  |
| Charieston | 106,626 | 120,953 10 | ${ }_{11}^{99,921}$ | 100,162 | 104,006 10 | 78,150 4,881 | 84,732 6,505 | 82,820 5,193 | 74,201 | 69, 376 |
| Charlotte. | 8,423 | 8,237 | 9,088 | 8, 625 | 8,500 | 4,900 | 6,400 | 5, ${ }^{5} \mathbf{7} \mathbf{7}$ | 5,600 | 5,600 |
| Columbia. | 8,385 | 8,162 | 9,958 | 9,140 | 8,853 | 6,303 | 8,886 | 8,025 | 7,186 | 8,727 |
| Noriolk. | 22,745 | 23,421 | 22,582 | 22,103 | 23,404 | 15,593 | 19,136 | 17,595 | 18,670 | 19,205 |
| Raleigh.. | 4, ${ }^{\text {4, }} 880$ | 5, ${ }^{\text {5 }}$ 800 | 5,800 37 | 6,100 | 5,300 | 3,841 | 4,337 24 24 | 4,540 | 4,970 | 4,410 |
| Richmond... | 33,877 | 38, 113 | 37,703 | 32,333 | 34,017 | 25,038 | 24,617 | 25,056 | 25,901 | 26, 455 |
| - Atlanta..... | 36,090 | 39,949 | 34,882 | 34,980 | 36,977 | 23,288 | 24,764 | 22,258 | 22,482 | 24,189 |
| Augusta. | 11,616 | 12, 184 | 12, 149 | 11,883 | 14,398 | 7,700 | 7,433 | 7,077 | 7,528 | 7,004 |
| Birmingham | 18,328 | 16, 186 | 14,918 | 15,297 | 16,462 | 14,332 | 13,246 | 12,638 | 12,817 | 13,998 |
| Chattanooga | 13,176 | 13,373 | 12,864 | 12,436 | 11,646 | 8,245 | 10,081 | 10,840 | 9,579 | 8,494 |
| Jacksonville | 12,618 | 12,373 | 13,615 | 12,867 | 12,889 | 10,474 | 10,676 | 9,708 | 10, 409 | 10,430 |
| Knoxville. | 6,627 | 7,371 | 5,877 | 7,141 | 5,865 | 5,019 | 5,600 | 5,400 | 5,716 | 5,645 |
| Macon. | 9,742 | 8,790 | 9,849 | 7,977 | 8,731 | 6,731 | 6,661 | 6,482 | 5,777 | 5,502 |
| Mobile... | 7,819 | 8,570 | 8 8,644 | 9,134 | 7, 833 | 6,297 | 6,774 | 7,443 | 7,057 | 7,435 |
| Montgomer | 5,665 | 5,672 | 5,800 | 6,018 | 6,252 | 3,539 | 4,386 | 5,046 | 4,020 | 4,328 |
| Nashville. | 27,034 | 26,718 | 25,622 | 23,116 | 24,621 | 18,382 | 24,470 | 23,799 | 23, 845 | 24,940 |
| New Orlean | 90,463 | 106, 115 | 96, 327 | 96,611 | 82,955 | 61,417 | 66,790 | 69,446 | 72,795 | 57,762 |
| Pensacola. | 2,003 | 2,494 | 2, 448 | 2,166 | 2,343 | 1,952 | 2,387 | 2,171 | 2,070 | 2,017 |
| Savannah | 27,452 | 26, 117 | 22,233 | 23,874 | 26, 598 | 12,686 | 13,842 | 14,180 | 13,210 | 10,945 |
| Tampa. | 6,552 | 5,900 | 6,375 | 6,442 | 5,605 | 3,577 | 4,365 | 4,945 | 5,061 | 3,839 |
| Vicksburg. | 1,913 | 2,058 | 1,934 | 2,407 | 1,933 | 2,000 | 1,940 | 2,169 | 1,976 | 1,630 |
| No. 7-Chicago: |  | 4,550 | 3,427 | 3,315 | 3,690 | 2,726 | 2,673 | 2,753 | 2,980 | 3,134 |
| Bloomington | 2,385 | 2,695 | 2,858 | 2,922 | 2,268 | 2,004 | 2,373 | 2,279 | 2.332 | 1,777 |
| Cedar Rapid | 9,177 | 7,857 | 9,467 | 7,789 | 7,537 |  |  |  |  |  |
| Chicago... | 843, 992 | 797, 632 | 666,999 | 682, 468 | 828, 342 | 541,631 | 615,669 | 593,580 | 577,504 | 657,715 |
| Davenport | 6,726 | 7,560 | 7,770 | 8,868 | 6,217 3,136 | 6,689 | 5,839 $\mathbf{2} 752$ | 5,834 | 8,982 3,587 | ${ }_{2}^{4,264}$ |
| Decatur. | 3,089 21,788 | 4,196 19,552 | 3,608 19,336 | 4, 18,115 18 | $\begin{array}{r}6,136 \\ 19,778 \\ \hline\end{array}$ | 2,449 $\mathbf{1 5 , 5 3 9}$ | 2, $\mathbf{1 5 , 9 6 1}$ | 2,954 17.392 | $\mathbf{3}, 587$ $\mathbf{1 3 , 6 8 7}$ | 2,241 16,860 |
| Detroit. | 117,194 | 197,770 | 125,214 | 138, 855 | 115,932 | 93,647 | 107,322 | 88.768 | 89,731 | 109,110 |
| Dubuque | 3,069 | 2,575 | 2,620 | 2,715 | 2,660 | 1,825 | 2,022 | 2,000 | 2,067 | 2,300 |
| Flint. | 9,997 | 6,851 | 8,859 | 10,789 | 10,086 | 5,141 | 3,131 | 4,803 | 4,136 | 4,776 |
| Fort Wayne | 7,977 | 8,480 | 7,259 | 6,984 | 6,363 | 4,425 | 5,198 | 4,768 | 4,633 | 4,476 |
| Grand Rapi | 18,347 | 18,874 | 18,599 | 18,934 | 16,438 | 12,117 | 12,849 | 16,532 | 17,850 | 15,309 |
| Indianapolis | 35,008 | 37,806 | 33, 235 | 30,999 | 34,870 | 26,249 | 31,193 | 32,450 | 24,633 | 28,992 |
| Jackson. | 4,439 | 4,414 | 4,052 | 4,295 |  |  |  |  |  |  |
| Kalamazo | 4,592 6,353 | 4,820 6,385 | 4,241 6,357 | 4,151 $\mathbf{5 , 2 9 6}$ | 4,462 6,334 | 2,745 $\mathbf{2 , 5 0 0}$ | 3,183 2,957 | 2,949 2,796 | $\begin{aligned} & 3,181 \\ & 3,096 \end{aligned}$ | 3,103 |
| Milwauk | 58,560 | 55, 502 | 55,502 | 56,869 | 53, 880 | 53,050 | 58,054 | 51,614 | 48,031 | 53,437 |
| Peoria.. | ${ }^{9}, 140$ | 11,634 | 10,062 | 10,842 | 8,816 | 8,380 | 11,072 | 8,212 | 13,033 | 13,074 |
| Rockford. | 5,985 | 5,608 | 4,951 | 5,165 | 5,860 | 4,323 | 4,659 | 4,964 | 5,058 | 5,654 |
| Sioux City | 10,383 | 12,141 | 13,193 | 12, 255 | 10, 203 |  |  |  |  |  |
| South Bend | 3,829 | 3,228 | 3,818 | 3,194 | 3,139 | 3,167 | 3,380 | 2,870 | 2,890 | 2,722 |
| Springfield | 4,322 | 4,687 3,648 | 4,868 <br> 3,235 | 3,501 2,868 | 5,043 $\mathbf{3 , 8 9 3}$ | 3,965 $\mathbf{3 , 1 8 9}$ | 3,014 3,280 | 3,690 2,852 | 2,787 $\mathbf{2 , 7 4 6}$ | 4,124 2,601 |
|  |  |  |  |  |  |  |  |  |  |  |
| Evansville | 6,231 | 5,104 | 5,311 | 4,415 | 4,409 | 3,485 | 4,361 | 3,006 | 2, 270 | 4,497 |
| Little Rock | 9,802 | 11,663 | 10,961 | 11,381 | 10,406 | 7,718 | 9,205 | 8,858 | 8,850 | 8,780 |
| Louisville | 30,971 | 41,348 | 33,191 | 40,477 | 28,432 | 36,258 | 49,936 | 41, 042 | 36,965 | 46,708 |
| Memphis... | 47,694 | 43,699 | 43, 275 | 40,709 | 44,478 | 30, 036 | 33,971 | 32,926 | 32, 315 | 31,926 |
|  |  |  | 140,015 | 145,924 | 152,713 | 124, 520 | 149, 453 | 140,753 | 123, 168 | 151,114 |
|  |  |  |  |  | 1,420 | 1,220 | 1,663 | 1,154 | 1,639 | 1,121 |
| Billings. | 2,361 | 2,210 | 2,160 | 2,931 | 2,787 | 1,854 | 1,899 | 2,483 | 2,796 | 2,343 |
| Duluth. | 19,035 | 19,632 | 18,727 | 15,229 | 16,271 | 44,105 | 47,662 | 47,699 | 49,365 | 52,051 |
| Grand Fork | 1, 889 | 1,913 | 2,371 | 2,152 | 1,931 | 1,250 | 1,693 | 1,646 | 1,817 | 1,350 |
| Great Fall | 2,392 | ${ }^{2,983}$ | 2, 887 |  |  |  |  |  |  |  |
| Hindena. ${ }^{\text {M }}$ | 2,749 102,334 | 2,701 100,939 | $\begin{array}{r}2,839 \\ 97 \\ \hline 158\end{array}$ | -96,372 | 2,378 $\mathbf{1 0 1 , 1 8 1}$ | 2,418 85,767 | 2,462 91,037 | 2,866 101,506 | $\begin{array}{r}2,784 \\ 83,186 \\ \hline\end{array}$ | 8,194 84 |
| St. Paul. | 43, 000 | 44,044 | 41,927 | 41,943 | 44, 137 | 32, 141 | 44,094 | 34, 293 | 34,350 | 45, 178 |
| Superior. | 2,040 | 2,079 | 1,844 | 1,918 | 1,844 | 1,610 | 2,685 | 1,294 | 2,048 | 2,931 |
| No. 10-Kansas City:...................... 686 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Bartlesville | 4,213 | 2,948 | 2,884 | 3,899 | 2,478 | 1,512 | 1,963 | 1,954 | 1,815 | 1,822 |
| Cheyenne | 1,928 | 2,682 | 2,083 | 1,477 | 2,399 |  |  |  |  |  |
| Colorado Springs | 2,977 | 3,174 | 3,186 | 2,818 | 3,061 | 2,297 | 2,009 | 2,183 | 1,957 | 2,216 |
| Denver. | 42,945 | 52,063 | 43, 034 | 50, 274 | 52, 285 | 25, 257 | 29, 804 | 27,182 | 30,482 | 32,215 |
| Joplin. | 3,395 | 4,050 | 3,364 | 3,512 | 3,258 3 | 2,347 | 3,624 | 3,090 | 2,979 | 3,082 |
| Kansas City, Kans | 3,938 $\mathbf{1 0 9 , 6 1 6}$ | 3,234 110,395 | 3,558 100,012 | 3,483 92,434 | 3,301 108,313 | 3,522 86,466 | 3,790 88,927 | $\begin{array}{r}3,43 \\ 82,573 \\ \hline\end{array}$ | 2,497 78,614 | $\begin{array}{r}3,859 \\ 89 \\ \hline 236\end{array}$ |
| Muskogee. | - 7,143 | 15,458 | 10, ${ }^{1,840}$ | 5,823 | 7,561 | 2,928 | 3,428 | 2,813 | 2,094 | 2,921 |
| Oklahoma City | 17,758 | 18,008 | 17,585 | 17,221 | 19,917 | 11,637 | 14,441 | 15,410 | 12,285 | 14,409 |
| Omaha. | 65,217 | 62,534 | 57,107 | 62, 173 | 59, 739 | 79, 214 | 63, 535 | 62,289 | 64, 833 | 62,649 |
| Pueblo. | 6,396 | $\begin{array}{r}7,016 \\ 20 \\ \hline\end{array}$ | 5, 217 |  |  | 4,136 22,591 | 5,265 22,889 | $\begin{array}{r}3,601 \\ 24,207 \\ \hline\end{array}$ | 2,723 18,709 | 6, ${ }^{65}, 841$ |
| St. Josep | 22,019 5,084 | 20,386 4,593 | 21, 5 ,554 | 15,925 5,888 | 21,300 5,779 | $\begin{array}{r}22,591 \\ 3,816 \\ \hline\end{array}$ | 22,889 4,688 | $\begin{array}{r}24, \\ 4,948 \\ \hline\end{array}$ | 18,709 4823 | $\stackrel{\text { 25, }}{3,564}$ |
| Tulsa | 23,560 | 28,025 | 20, 837 | 21,639 | 28,715 | 17,568 | 19,391 | 18,486 | 18,114 | 22,084 |
| Wichita. | 13,215 | 11,560 | 12,230 | 12,583 | 11,080 | 7,332 | 8,546 | 8,112 | 5,133 | 8,503 |

Debits to individual account at clearing-house banks during each of the five weeks ending Dec. 24, 1919 and 1918-Contd. [In thonsands of dollars.]

| Fedaral Reserve District. | 1919 <br> - Week ending- |  |  |  |  | $\stackrel{1918}{\text { Week ending }-~}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dec. 24. | Dec. 17. | Dec. 10. | Dec. 3. | Nov. 26. | Dec. 24. | Dec. 18. | Dec. 11. | Dec. 4. | Nov. 27. |
| No. 11-Dallas: |  |  |  |  |  |  |  |  |  |  |
| Albuquerque.. | 1,656 4,637 | 1,936 3,280 | 1,959 4,581 | 1,741 4,253 | 5,158 | 1,229 2,400 | 1,590 3,980 | ${ }_{3}^{1,501}$ | $\xrightarrow{1,578}$ | 1,459 3,625 |
| Beaumont. | 5,350 | 4,894 | 5,024 | 12,359 | 4,738 | 4,187 | 3,581 | 4,307 | 3,370 | 3,935 |
| Dallas. | 51,024 | 52,192 | 49,191 | 48,655 | 54, 297 | 29,796 | 30,274 | 29,569 | 26,367 | 33,587 |
| E1 Paso | 9,731 | 9,804 | 9,250 | 9,303 | 9,428 | 4,539 | 5,782 | 5,570 | 4,829 | 4,936 |
| Fort Worth | 26,355 | 31,018 | 26,443 | 26,922 | 31,467 | 14,814 | 15,847 | 12,167 | 14,169 | 12,377 |
| Galveston | 10,595 | 9,836 | 11, 457 | 4,030 | 12,269 | 7,726 | 10, 040 | 8,913 | 7,785 | 7,667 |
| Houston.. | 43,536 | 43,749 | 39,944 | 41, 492 | 41,944 | 23,100 | 27,331 | 26,882 | 25, 534 | 28,599 |
| San Antonio | 8,826 | 9,121 | 9,042 | 88 | 9,275 | 5,335 |  |  |  |  |
| Shreveport | 2,399 | 1,608 | 8,540 | 8,040 1,561 | 1,746 | 2,049 | 1,527 | 1,263 | ${ }^{576}$ | 4,506 1,419 |
| Tueson. | 1,346 | 1,560 | 1,751 | 1,615 | 1,569 | 1,258 | 1,530 | 1,711 | 1,863 | 1,503 |
| Waco. | 4,376 | 4,395 | 4,506 | 5,787 | 4,312 | 2,800 | 3,936 | 4,010 | 3,399 | 3,277 |
| No. 12-San Francisco: | 2,538 | 3,001 | 2,983 | 2,946 | 2,247 |  |  |  |  |  |
| Boise.. | 3,471 | 3,713 | 3,783 | 3,474 | 3,452 | 1,837 | 2,901 | 2,546 | 2,754 |  |
| Fresno. | 9,977 | 11,440 | 9,431 | 13,175 | 11,545 | 5,829 | 7,164 | 6,966 | 6,269 | 6,523 |
| Long Beac |  | 5,016 | 5,043 | 4,541 | 4,311 | 1,996 | 2,718 | 2,082 | 2,305 | 2,421 |
| Los Angel | 95,241 | 103,592 | 88, 750 | 91,606 | 95, 478 | 52, 831 | 56,715 | 54,191 | 52,347 | 61,624 |
| Oakland | 19,455 | 22,654 | 21,347 | 19,792 | 16,954 | 13,827 | 12,368 | 14,385 | 10,980 | 12,063 |
| Ogden. | 5,657 | 6,759 | 4,692 | 4,609 | 6,206 | 5,436 | 5,720 | 4,547 | 4,451 | 2,673 |
| Pasadena. | 4,669 | 4,900 | 4,950 | 5,385 | 4, 574 | 1,866 | 2,135 | 2,025 | 2,093 | 2,226 |
| Portland. | 48, 241 | 51,409 3 | 39, 139 | $\begin{array}{r}39,313 \\ 3 \\ \hline 12\end{array}$ | 49,042 | $\begin{array}{r}37,726 \\ 1 \\ \hline 943\end{array}$ | 42,542 | 40, 653 | 44,173 | 60,466 |
| Reno... |  |  |  | 3,032 |  |  |  | 1,846 | 1,787 |  |
| Sacrament | 13,717 22,031 | 20,199 27.849 | 22, 208 | 23,497 20,031 | 17,208 | 10,764 18,389 | 14,276 22,193 | 15,255 15,832 | 11,775 19,141 | 12,066 19,704 |
| San Dlego. | 7,062 | 7,346 | 7,475 | ${ }_{6,340}$ | 4,571 | 4,061 | 5,063 | 4,709 | 4,787 | 4,970 |
| San Francisco | $\underset{6,624}{219,373}$ | 242,184 7,110 | $\begin{array}{r}\text { 202, } \\ 5 \\ \hline\end{array}$ | 193,668 6,126 | 215,540 6,633 | 150, 138 | 161,586 | 152,794 | 140,373 | 173,151 |
| San ose.. | 6,624 49,828 | 60,117 | $\begin{array}{r}\text { 5, } \\ 48 \\ 48 \\ \hline\end{array}$ | 6,126 53,117 | - 56,1811 | 44,584 | 49,988 | 48,234 | 47,671 | 55,686 |
| Spokane | 13, 273 | 13,610 | 13,107 | 15,681 | 11,818 | 8,812 | 8,951 | 9,259 | 8,874 | 9,396 |
| Stockton | 5,546 | 7,150 | 7,609 | 7,013 | 5,092 | 2,968 | 5,183 | 4,307 | 4,275 | 4,930 |
| Tacoma. | 10.030 | 11,865 | 10.454 | 9,361 | 10,123 | 9,474 | 11,341 | 10,667 | 11,421 | 11,420 |
| Yakima. | 3,811 | 3,237 | 3,883 | 3,085 | 4,062 | 2,041 | 2,034 | 2,033 | 2,363 | 2,404 |

Recapitulation showing figures for clearing-house centers reporting each of the five weeks ending Dec. 24, 1919.
[In thousands of dollars.]

| Federal Reserve district. | Number of centers included. | $\stackrel{1919}{\text { Week ending }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Dec. 24. | Dec. 17. | Dec. 10. | Dec. 3. | Nov. 26. |
| No. 1-Boston. | 12 | 535,083 | 594,984 | 472,962 | 497,389 | 501,496 |
| No. 2-New York. | 7 | 5, 740, 489 | 5,944,982 | 5,203,368 | 5,188, 330 | 5, 488, 580 |
| No. 4-Cleveland... | 114 | 439,791 594,538 | -640, 193 | 520, 5098 | - 5437,880 | 412,569 |
| No. 5-Richmond. | 6 | 185,856 | 204,686 | 185,052 | 178, 463 | 184,080 |
| No. 6-Atlanta. | 15 | 277,098 | 293, 870 | 273,537 | 272,349 | 265,108 |
| No. 7-Chicago. | 23 | 1,193,903 | 1,228, 465 | 1,019,529 | 1,045, 420 | 1,164,155 |
| No. 8-St. Louis. | 5 | 253,535 | 274,129 | 232,753 | 242,906 | 240,438 |
| No. 9-Minneapolis. | 10 | 178,664 | 179, 856 | 173, 333 | 169,329 | 176,739 |
| No. 10-Kansas City. | 16 | 330,090 | 336,766 | 304,901 | 305, 277 | 338,504 |
| No. 11-Dallas. | 13 | 177,783 | 180, 668 | 173,205 | 172,185 | 188,134 |
| No. 12-San Francisco | 20 | 548, 043 | 616, 165 | 523,945 | 525, 822 | 550,923 |
| Grand total. | 154 | 10,454, 873 | 11,001, 362 | 9,491,340 | 9,538,986 | 10,072,525 |

Recapitulation showing figures for clearing-house centers reporting each of the five weeks ending Dec. 24, 1919, and 1918.
[In thousands of dollars.]

| Federal Reserve district. | Number of center included | $1919$ |  |  |  |  | $\begin{aligned} & 1918 \\ & \text { Week ending- } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Dec. 24. | Dec. 17. | Dec. 10. | Dec. 3. | Nov. 26. | Dec. 24. | Dec. 18. | Dec. 11. | Deo. 4. | Nov. 27. |
| No. 1-Boston. | 12 | 535,083 | 594,984 | 472,962 | 497,389 | 501, 496 | 324,698 | 358, 184 | 352,677 | 333,415 | 383,663 |
| No. 2-New York. | 7 | 5,740,489 | 5,944,982 | 5,203,366 | 5,188, 330 | 5,496,580 | 3,609, 177 | 3, 386,651 | 3,817,620 | 3,730, 278 | 4,293, 708 |
| No. ${ }^{\text {N-Cleveland.. }}$ | 14 | 594, 538 | 640, 193 | 520, 709 | 543,830 | 511,799 | 439, 261 | 488,265 | - 460,289 | 328,455 417,183 | 585,384 |
| No. 5-Richmond | 6 | 185, 856 | 204, 686 | 185,052 | 178, 463 | 184, 080 | 133,825 | 148, 108 | 143,736 | 136,528 | 133,773 |
| No. 6-Atlanta. | 15 | 277,098 | 293,870 | 273,537 | 272, 349 | 265, 108 | 185, 639 | 203, 415 | 203, 602 | 204,342 | 188,158 |
| No. 7-Chicago. | 20 | 1,169,904 | 1,204,053 | 992,817 | 1,021,081 | 1, 141,207 | 795, 761 | 896, 581 | 854,060 | 832,944 | 935, 669 |
| No. 8-St. Louis | 5 | 253, 535 | 274, 129 | 232,753 | 242,906 | 240, 338 | 202,017 | 246, 928 | 226,585 | 203,568 | 243,025 |
| No. 9-Minneapoli | 9 | 177,337 | 178, 426 | 172,017 | 168, 201 | 175, 491 | 173, 350 | 196,707 | 106, 727 | 181,854 | 192,107 |
| No. 10-Kansas City | 14 | 327, 476 | 333, 444 | 302, 359 | 303, 410 | 335,525 | 270, 623 | 272, 300 | 260,281 | 247,058 | 277, 620 |
| No. 11-Dallas..... | 12 | 168,957 | 171,547 | 164,183 | 163,758 | 178,859 | 99, 233 | 111, 012 | 105,278 | 977,841 | 106, 870 |
| No. 12-San Francisco | 18 | 538,881 | 606,054 | 515, 219 | 516,750 | 542,043 | 374,522 | 414,560 | 392,331 | 377,839 | 445,960 |
| Grand total. | 145 | 10,408,045 | 10,952,966 | 9,443,002 | 9,494,153 | 10,025,105 | 6,935,811 | 7,634,643 | 7,376, 181 | 7,091,305 | 8,190,174 |

## DISCOUNT AND OPEN MARKET OPERATIONS OF THE FEDERAL RESERVE BANKS.

Discount operations during the month of November totaled $\$ 7,414,498,375$, as compared with the record figure of $\$ 8,060,317,969$ shown for October. The totals are exclusive of bills discounted for other Federal Reserve Banks, which aggregated 58 millions in November, as against 126.5 millions the month before. Discount operations were smaller for November than for October at all the Federal Reserve Banks, except the Boston and Chicago banks. The decline was nominal in New York, while the decrease at the Philadelphia bank, because of the relatively large amount of 60 and 90 day paper discounted, constituted nearly threefourths of the total for the system.

War paper constituted, the same as in October, about 91 per cent of the total paper discounted during the month. The amount of customers' paper, secured by Government obligations, discounted by the Federal Reserve Banks, however, was about twice as large in November as in October ( 328 millions, as against 164 millions), while member banks' collateral notes so secured amounted to $\$ 6,433,967,114$, as compared with $\$ 7,184,708,069$ the month before. This shift from collateral notes to rediscounts is due in large part to changes in discount rates which in most of the banks no longer favor 15-day paper. Discounts of collateral notes secured by eligible commercial or agricultural paper also show a decline, the total for November being but $\$ 15,694,638$, as against $\$ 45,663,016$ for October. Discounts of trade acceptances for the month of November aggregated $\$ 21,923,920$, as against $\$ 16,110,069$ in October, and included $\$ 2,704,863$ (as against $\$ 2,377,501$ ) of acceptances in the foreign trade, all of which were reported by the New York bank. Bankers' acceptances discounted during the month totaled $\$ 2,052,898$, as compared with $\$ 1,271,426$ for October, and all other discounts, i. e., commercial and agricultural paper rediscounted by member banks, aggregated $\$ 613,002,521$, the corresponding figures being $\$ 648,265,547$ for October and $\$ 447,060,323$ for September.

About 95 per cent of the total discounts for the month was $15-$ day paper, i. e., bills maturing within 15 days from date of discount or rediscount with the Federal Reserve Bank. Six-month bills, consisting of agricultural and live-stock paper, totaled $\$ 11,838,214$, compared with $\$ 9,645,742$ for October, and $\$ 5,443,693$ for Soptember. The average maturity of all the paper discounted during the
month works out at 11.36 days, as against 9.54 days for October for all the banks combined, while for the Philadelphia bank it works out at 14.32 days for November, as against 6.93 days for October. About 78 per cent of the paper discounted in November took the $4 \frac{1}{2}$ per cent rate, about 9 per cent the 4 per cent rate, and about 8 per cent the $4 \frac{3}{2}$ per cent rate. During October about 86 per cent of the paper was discounted at the 4 per cent rate. The average rate of discount charged during November works out at 4.53 per cent, as against 4.19 per cent in October.
On the last Friday in November the Federal Reserve Banks held a total of $\$ 2,214,139,000$ of discounted bills, compared with $\$ 2,128$,547,000 on the last Friday in October, 1919, and $\$ 1,815,195,000$ on the last Friday in November of the year before. Of the total discounts on hand at the end of November about 78 per cent was the share of war paper, compared with about 84 per cent at the end of September and about 79 per cent at the end of October, 1918.
Discounted trade acceptances on hand at the end of November totaled $\$ 27,694,000$, a larger figure than the corresponding amount for the end of October ( $\$ 16,261,000$ ) or for the end of November of last year ( $\$ 23,126,000$ ). Holdings of agricultural paper totaled $\$ 27,023,000$, as against $\$ 28,447,000$ at the end of October, and $\$ 27,492,000$ on the corresponding date of the previous year, while holdings of live-stock paper were $\$ 25,527,000$, compared with $\$ 27,028,000$ the month before, and $\$ 34,052,000$ about the end of November of last year. Of the total agricultural paper on hand about 73 per cent was held in the Chicago and Kansas City banks, while about 90 per cent of the live-stock paper on hand represented the holdings of the Kansas City, Minneapolis, and Dallas banks.
During the month the membership in the Federal Reserve System shows a net increase of 32 , the number of members at the close of November being 9,009 , as compared with 8,977 at the end of October. Member banks accommodated by discount of paper in November numbered 3,649, as against 3,839 in October. In the following exhibit is shown the number of member banks in each Federal Reserve district at the end of November and of October, together with the number in each district accommodated during each of the two months.


Bills purchased in the open market during November, largely by the New York bank both for its own account and for account of other Federal Reserve Banks, totaled $\$ 340$,695,505 , compared with $\$ 335,261,712$ purchased in October, and $\$ 205,048,335$ in September. Of the total bilis purchased, $\$ 335,044,925$ were bankers' acceptances, about three-fourths of which were based upon foreign trade transactions. Purchases of trade acceptances amounting to $\$ 3,686,930$ were reported by the Boston, New York, Cleveland, and San Francisco banks, nearly four-fifths of this amount
being based on foreign trade transactions. The average maturity of all bills purchased during the month was 55.55 days, compared with 48.36 days for October, while the average rate of discount charged works out at 4.47 per cent, as against 4.26 per cent for the preceding month.

On November 30 the Federal Reserve Banks reported a total of $\$ 501,910,000$ of purchased bills on hand, compared with $\$ 394,355,000$ on October 31, 1919, and $\$ 379,524,000$ on November 30,1918 . The half-billion mark in acceptance holdings was passed for the first time in November of this year. Of the most recent total, all but $\$ 6,580,000$ were bankers' acceptances, of which $\$ 347,852,000$ were bills accepted by member banks, $\$ 55,876,000$ by private banks, $\$ 55,244,000$ by nonmember State banks and trust companies, and $\$ 36,-$ $358,000 \mathrm{by}$ foreign banks and their agencies. Of the $\$ 6,580,000$ of purchased trade acceptances held at the end of the month, $\$ 1,646,000$ were domestic trade acceptances, and \$4,934,000 were foreign trade acceptances. Of the latter figure, $\$ 2,633,000$ were reported by the New York bank and $\$ 850,000$ by the San Francisco bank, these amounts representing largely acceptances drawn by exporters in the Far East.

Total investment operations of each Federal Reserve Bank during the months of November, 1919 and 1918.

${ }^{14} 4$ per cent Liberty bond.

Average amount of earning assets held by each Federal Reserve Bank during November, 1919, earnings from each class of earning assets, and annual rate of earnings on basis of November, 1919, returns.


Bills discounted during the month of November, 1919, distributed by classes; also average rates and maturities of bills discounted by each Federal Reserve Bank.

| Federal Reserve Bank. | Customers' paper socured by ment war obligations. | Member banks' collateral notes. |  | Trade acceptances. | Bankers' acceptances. | All other discounts. | Total. | Average maturity in days. | Average rate (365-daybasis). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Secured by Government war obligations. | Otherwise secured. |  |  |  |  |  |  |
| Boston. | \$37, 427, 227 | \$340, 468, 760 | \$1,256,084 | \$2, 237, 225 |  | \$45, 480, 089 |  |  | Per cent. |
| New York | 156, 816,670 | 4,077, 121, 327 |  | 19,758, 892 | 721,163 | 221, 789, 023 | 4,466, 207,075 | 7.12 | 4.48 |
| Philadelphia | 91,297,964 | 550, 862, 817 | 3,000 | 959,873 |  | 40,513,138 | -683, 633,792 | 14.32 | 4.34 |
| Cleveland. | $8,626,048$ | 240, 665,940 |  | 2,031,238 |  | 40, 863, 452 | 292, 186,678 | 17.77 | 4.55 |
| Richmond | 7,656, 906 | ${ }^{245,} \mathbf{2 4 7}$, 700 | 400,000 | 531, 361 |  | 9,559,695 | 264, 080,662 | 10.90 | 4.48 |
| Atlanta. | 3, 043,184 | 135, 408, 300 | 1,410,000 | 1,017, 724 |  | 33, 153, 206 | 174, 033, 036 | 21.79 | 4.51 |
| Chicago. | 8, 645, 278 | 330, 5044,550 | 1,303, 180 | 2,268, 244 |  | 105, 012,003 | 448, 183,255 | 24.53 | 4.6 |
| St. Louis.... | 4, 9883,889 | 149, 007,353 | 17,000 | 1,188, 770 | 840, 262 | 24, 113,480 | 180, 110,764 | 13.50 | 4. 52 |
| Manneapoily | 3,418, 352 | ${ }_{99,818,663}$ | 10,426, 194 | 78, 3 850 | 153, 670 | 32,047,662 | $88,805,613$ $145.934,891$ | 26.73 <br> 27.3 | 4.74 4.91 |
| Dallas..... | 130,339 | 65, 087,719 | 368, 650 | 435, 844 |  | 4,648, 881 | 70,671, 433 | 19.14 | 4.91 4.55 |
| San Francisco | 4,941,644 | 136,547, 100 | 215,000 | 1,361,975 | 284, 924 | 30,375, 269 | 173, 725, 912 | 17.04 | 4.58 |
| Total. | 327, 857, 284 | 6, 433, 967, 114 | 15,694, 638 | 21,923, 920 | 2,052,898 | 613,002, 521 | 7,414,498, 375 | 11.36 | 4.53 |

${ }^{1}$ Includes $\$ 2,704,863$ of trade acceptances in the foreign trade.

Bankers' and trade acceptances in the foreign and domestic trade and dollar exchange bills purchased during the month of November, 1919; also average rates and maturities of total bills purchased by each Federal Reserve Bank.

| Federal Reserve Bank. | Bankers' acceptances. |  |  | Trade acceptances. |  |  | Dollar Exchange. | Total bills purchased. | Average maturity in days. | Average rate (365-day basis). |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In the domestic trade. | In the foreign trade. | Total. | In the domestic trade. | In the foreign trade. | Total. |  |  |  |  |
| Boston. | \$21,276, 457 | \$40, 939, 649 | \$62,216,106 | \$457, 704 | \$778,988 | \$1, 236,692 | \$525,000 | \$63,977,798 | 55.53 | Per cent. 4.45 |
| New York | 25,381, 106 | 124, 065, 725 | 149, 446, 831 | 242,682 | 1,592, 050 | 1,834, 732 | 1,327,500 | 152,609,063 | 46.83 | 4.45 |
| Philadelphi | 700, 920 | 2, 131, 569 | 2,832, 489 |  |  |  |  | 2,832, 489 | 79.08 | 4.34 |
| Cleveland. | 5, 069, 622 | 13, 907, 233 | 18, 976, 855 | 66, 336 |  | 66,336 | 10,000 | 19, 053, 191 | 65.07 | 4.46 |
| Richmond. | 2, 139, 700 | 1,665,512 | 3, 805, 212 |  |  |  |  | 3, 805, 212 | 71.64 | 4.57 |
| Atlanta. | 3,813,946 | 551, 800 | 4, 365, 746 |  |  |  |  | 4,365, 746 | 63.55 | 4.56 |
| Chicago.. | 7,661, 321 | 26,039,784 | 33, 701, 105 |  |  |  |  | 33,701, 105 | 67.73 | 4.50 |
| St. Louis................ | 3,944, 138 | 1,381, 198 | 5,325,336 |  |  |  |  | 5, 325, 336 | 46.68 | 4.49 |
| Minneapolis | 3,012, 018 | 7,557,409 | 10,569, 427 |  |  |  | 80,492 | 10, 640,919 | 70.67 | 4.47 |
| Dallas. | 712,400 | 1,200,000 | 1,912,400 |  |  |  |  |  | 49.40 | 4.77 |
| San Francisco | 8,891, 707 | 33, 001, 711 | 41, 893, 418 | 22,872 | 526,298 | 549, 170 | 20,658 | 42,463, 246 | 66.78 | 4.53 |
| Tota | 82, 603,335 | 252, 441, 590 | 335,044, 925 | 789, 594 | 2,897,336 | 3,686,930 | 1,963,650 | 340,695, 505 | 55.55 | 4.47 |

Bills discounted by each Federal Reserve Bank during the three months ending Nov. 30, 1919, distributed by rates of discount; also average rates and maturities of all bills discounted by each bank during the three months.

| Federal ReserveBank. | 4 per cent. |  |  | $4\}$ per cent. |  |  |  | $4 \frac{1}{2}$ per cent. |  |  | $4 \frac{3}{4}$ per cent. |  | 5 per cent. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Amount. | Discount. |  | Amount. |  | Discount. |  | Amount. |  | Discount. | Amount. | Discount. | Amount. | Discount. |
| Boston.... | $\begin{gathered} \begin{array}{c} \$ 634,677,848 \\ 8,207,486,378 \end{array} \end{gathered}$ | $\$ 380,973$ |  | $\$ 86,358,409$ |  | $\$ 590,028$ |  | $\begin{array}{r} \$ 343,083,715 \\ 3,953,730,414 \end{array}$ |  | $\$ 483,235$ <br> 3, 159, 606 | $\$ 62,623,438$ | 5400,321 528,394 | \$47,086 | 3809 380 |
| Philadelphia. |  | 5, $1,654,105$ |  | 71,116,712 |  | 595,467 |  | - $444,551,546$ |  | 3, 461, , 895 | 34, 542,025 | 69,160 | 11,777 | 18 |
| Cleveland.. | $524,358,519$ <br> 88780 <br> 7700 | 708,952 |  | -149, ${ }_{\text {598,277, }}$ |  | ${ }^{2967,961}$ |  |  |  |  |  | 447, 326 |  |  |
| Richmond. |  | 1150, 649 |  |  |  | $\begin{aligned} & 162,278 \\ & 413,102 \end{aligned}$ | $\begin{array}{r} 56,906 \\ 249,097 \end{array}$ |  |  | 18854,202 |  |  |
| Atlanta... | 377, 739,571 |  |  | $\begin{array}{r} 598,277,174 \\ 59,457,148 \end{array}$ |  |  |  | 547, 795 |  |  | $\begin{array}{r} 212,497,400 \\ 97,531,374 \end{array}$ |  | 257,948 | $\begin{array}{r} 28,411,529 \\ 57,678,220 \end{array}$ |
| Chicago... | $451,382,500$ $420,949,091$ | 710,922 |  | 289, ${ }^{2245}, 265$ |  |  |  |  |  |  |  |  | … 20,000 | .....44 |
| St. Louis. | 138,369, 520 | 419,50621655 |  | -$8,035,655$ <br> 3,042 <br> 1820 |  | ${ }_{46}{ }^{46}$, 789 |  | -294, 3924,892 |  | -191,735 |  | 1,356,392 | 16, 489,017 65, 012, 803 <br> 11,450,363 <br> 29, 783,206 | $\begin{aligned} & 165,071 \\ & 445,070 \\ & 410,759 \\ & 222,720 \end{aligned}$ |
| Kansas City | $110,223,400$$160,900,617$ | $\begin{aligned} & 210,001 \\ & 188,002 \\ & 244,017 \end{aligned}$ |  | $\begin{array}{r} 118,033,507 \\ 92,318,355 \\ 376,884,236 \end{array}$ |  | $\begin{aligned} & 221,705 \\ & 158,743 \\ & 595,881 \end{aligned}$ |  | $\begin{array}{r} 115,361,568 \\ 45,660,253 \\ 79,913,142 \end{array}$ |  | $\begin{array}{r} 100,310 \\ 217,613 \\ 87,710 \\ 107,425 \end{array}$ | $\begin{array}{r} 37,941,768 \\ 37,601,651 \\ 11,994,993 \\ 4,423,339 \end{array}$ | $\begin{array}{r} 211,107 \\ 8,448 \\ 65,425 \\ 42,367 \end{array}$ |  |  |
| Dallas... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| San Francis |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total. | 13, 403, 787, 888 | 10,413,652 |  | 1,920,285,651 |  | 4,462,127 |  | 5, 872, 543, 161 |  | 6,032, 604 | 854, 446, 918 | 4,099,969 | 123, 122,684 | 950,497 |
| Federal Reserve Bank. |  | ${ }^{2} \mathbf{4}$ per cent. |  |  | $5 \frac{2}{2}$ per cent. |  |  | 5x per cent. |  |  | Total. |  | Average maturity$-\infty$ | Average rate (365basis). |
|  |  | Amount. | iscount. |  | Amoun | Discount. |  |  | Amount. | Discount. | Amount. | Discount. |  |  |
| Boston |  |  |  |  |  |  |  |  |  |  | \$1, 126,790, 496 | $\underset{9}{\mathbf{8 1 , ~ 5 4 1 , 2 8 5}}$ |  | Per cent. |
| New York |  |  |  |  |  |  |  |  |  |  |  |  | 8 -6.66 | ${ }_{4.21}^{4.38}$ |
| Philadelph |  |  | \$3,669 |  |  |  |  |  |  | \$8 | 2, 839, 144, 804 | 2, 780,683 |  | 4.15 |
| Cleveland. |  | \$213,854 |  |  | \$14,900 |  | \$41 |  | 10,000 | 24 | $902,422,672$$928,038,609$ | 1,631,569 | [ $15.40{ }^{15} \quad 4.28$ |  |
| Richmond |  |  |  |  |  | 1,142, 879 |  |  |  |  |  |  |  |  |  |  |
| Atlanta. |  |  |  |  |  |  | 7, 1615,884 <br> 148,094 |  |  | 365 |  | ........... |  | 3,362,082 | $6 \quad 19.33$ | 4.34 4.31 |
| Chicago.. |  | 12,000 |  | 210 <br> 611 | 164,3623,347 |  |  |  | …...... | 1,237, 424,2451 |  22.17 4.47 <br> 13.58 4.33  |  |  |  |  |
| St. Louis. |  | 27,213 |  |  |  |  | -981, 681 |  |  |  |  |  |  |  |  |  |  |
| Minneapolis |  |  |  |  | 2,870, |  |  |  |  |  |  |  |  | 256, 269, 779 | 776, 217 | 724.21 | 4.57 |
| Kansas City. |  |  |  |  | 10, 842, |  | 242, |  |  |  | 457,075, 492 | 1,379,887 | $7 \quad 23.44$ | 4.70 |
| Dallas....... |  | 2,890,351 |  | 9,492 | 1,820, |  | 40,6 |  |  |  | $325,214,932$ $492,824,085$ | 1726,146 $1,009,001$ |  | 4.40 4.49 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tota |  | 3,243,418 | 63,982 |  | 23,528,881 |  | 516,522 |  | 13,000 | 32 | 22, 200, 971,601 | 26,539,385 | 10.12 | 4.31 |

Acceptances purchased by each Federal Reserve Bank during the three months ending Nov. 30, 1919, distributed by rates of簇discount; also average rates and maturities of acceptances purchased by each bank during the three months.


Discounted bills, including member banks' collateral notes, held by each Federal Reserve Bank on the last Friday in November 1919, distributed by classes.
[In thousands of dollars; i. e., 000 omitted.]

| Federal Reserve Bank. | $\begin{aligned} & \text { Agri- } \\ & \text { cultural } \\ & \text { paper. } \end{aligned}$ | Live stock paper. | Customers paper secured by Government war obligations. | Member banks collateral notes. |  | Trade accept ances. | Bankers' acceptances. | $\underset{\substack{\text { All } \\ \text { othor } \\ \text { discounts. }}}{\text { and }}$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Secured by Government war obligations. | Otherwise secured. |  |  |  |  |
| Boston. | 48 |  | 73,202 | 52,990 | 150 | 2,159 | 72 | 36, 807 | 165,428 |
| New York | 199 |  | 144,345 | 609,489 |  | 11,237 | 874 | 94,758 | 860,902 |
| Philadelphia | 72 | 117 | 81, ${ }_{1} 618$ | 104,122 | 3 | 1,103 |  | 11, 506 | 198, 267 |
| Richmond | 558 |  | 13,583 | 69,977 | $385^{\circ}$ | 2,808 |  | 12,589 | 97,900 |
| Atlanta. | 1,257 | 181 | 4,149 | 61, 594 | 390 | 1,949 |  | 32,651 | 102,171 |
| Chicago. | 13,144 |  | 9,744 | 166,759 | 159 | 2,637 |  | 73,016 | 265,459 |
| St. Louis. | 271 | 291 | 6,900 | 42, 251 | 349 | 1,770 | 996 | 20,473 | 73,301 |
| Minneapolis. | ${ }_{6} 813$ | 5,054 | 2,211 | 29,787 | ${ }^{128}$ | 86 |  | 22, 375 | 60, 454 |
| Kansas City. | 6,516 1,736 | 13,982 4,058 1, | 5,353 308 3 | 42,397 29,373 | 3,715 323 | 296 | 33 | 22,989 9,390 | 95,281 |
| San Francisco. | 2,257 | 1, 844 | 3,641 | 53,237 | 115 | 3,385 | 74 | 22,067 | 86, 620 |
| Total. | 27,023 | 25, 527 | 357,549 | 1,379,626 | 5,717 | 27, 694 | 2,049 | 388,984 | 2,214,139 |
| Per cent.... ${ }_{\text {Total }}$ Nov. 30, 1918. | 27,492 | 34,052 | 16.1 369,506 |  | - 24.843 |  | 0.1 | 17.6 |  |
| Per cent................ | 27, 1.5 | ${ }^{1.9}$ | 20,4 | 1,51,56.8 | 24, 1.4 | ${ }_{1.3}$ |  | 16.7 | , 100.0 |

Acceptances purchased by each Federal Reserve Bank and held on Nov. 30, 1919, distributed by classes of accepting institutions
[In thousands of dollars; i. $\mathbf{\theta}$., 000 omitted.]

| Federal Reserve Bank. | Bank acceptances. |  |  |  |  |  | Trade acceptances. |  |  | Grand total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Member banks. | $\begin{gathered} \text { Non- } \\ \text { member } \\ \text { trust } \\ \text { compan- } \\ \text { ies. } \end{gathered}$ | $\underset{\substack{\text { Non- } \\ \text { member }}}{\substack{\text { State }}}$ State bank | Private banks. | Foreign bank branches and agencies. | Total. | Domestic. | Foreign. | Total. |  |
| Boston. | 26,371 | 614 | 1,670 | 5,612 | 150 | 34,417 | 851 |  |  | 36,719 |
| New York | 56,250 | 1,035 | 14,361 | 11, 526 | 10,481 | 93, 653 | 670 | 2,633 | 3,303 | 96,956 |
| Cleveland.... | 2,402 33,852 | 1,439 | 11, 231 | 12,484 | 5,536 | 3,135 64,542 | 102 |  | 102 | 3,135 64,644 |
| Richmond. | 11,032 |  | 196 | ${ }^{1242}$ | 50 | 11,720 |  |  |  | 64, ${ }^{64}$ |
| Atlanta. | 11,229 | 500 |  |  |  | 11,729 |  |  |  | 11, 729 |
| Chicago.. | 89, 240 | 1,150 | 3,400 | 6,024 | 1,887 | 101,701 |  |  |  | 101,701 |
| St. Louis. | 25,098 | 595 | 3,274 | 2,658 | 2,013 | ${ }^{33}$, 638 |  |  |  | 33,638 |
| Minneapolis | 20,101 | 200 | 127 | 164 | 228 | 20, 820 |  |  |  | 20, 820 |
| Kansas City | 6,888 | 250 | 1,578 | 697 | 892 | 10, 305 |  |  |  | 10,305 |
| San Francise | 10,954 |  |  | 1,167 | ${ }_{14}^{432}$ | 12,803 |  |  |  |  |
| San Erancisco | 54,435 | 563 | 12,282 | 14,974 | 14,613 | 96,867 | 23 | 850 | 873 | 97,740 |
| Total: |  |  |  |  |  |  |  |  |  |  |
| Nov. 30, 1919. | 347, 852 |  | 48,798 | 55, 876 | 36,358 |  |  | 4,034 | 6,580 | 501,910 |
| Oct. 31, 1919 | 271,701 208,784 | 8,021 8,255 | 36,707 <br> 24,821 <br> 10 | 42,677 $\mathbf{3 3}$, | 28,511 | 387,617 297,153 | 1,740 | $\begin{array}{r}4,998 \\ \mathbf{4}, 385 \\ \hline 8\end{array}$ | 6,738 | 394,355 300,129 |
| Nov. 30, 1918. | 310,069 | 2,028 | 10,703 | 27, 871 | 19,818 | 370, 489 | 4,016 | 5,019 | 9,035 | 300, ${ }^{324}$ |
| Nov. 3e, 1917. | 171,723 | 5,338 | 753 | 18, 201 | 3,163 | 199, 178 |  |  | 6, 275 | 205,453 |

OPERATION OF THE FEDERAL RESERVE CLEARING SYSTEM, NOV. 16, TO DEC. 15, 1919.


## OPERATION OF THE FEDERAL RESERVE BANKS.

During the five weeks between November 21 and December 26 discount operations of the Federal Reserve Banks fluctuated within moderate limits. Fiscal operations of the Treasury during the period were extremely heavy, including the issue on December 1 of 162.2 millions of $4 \frac{1}{4}$ per cent loan certificates and 260.3 millions of $4 \frac{1}{4}$ per cent tax certificates, and, two weeks later, the issue of 728.1 millions of $4 \frac{1}{2}$ per cent tax certificates; also the redemption on December 15 of the balance of two series of tax certificates issued during the summer of 1919 , besides the redemption before maturity of a considerable amount of certificates falling due in January and February, 1920, and the payment on December 15 of semiannual interest on the first Liberty and Victory loans. These operations apparently are reflected in the gradual reduction of the amount of war paper held by the Federal Reserve Banks during the greater part of December, the low level of 1,414.9 millions on December 19 marking a decrease of 259 millions since November 21. Since then, following the issue of the tax certificates, there has been a substantial increase in these holdings, the December 26 total of $1,510.3$ millions contributing 68.8 per cent of the total discounted bills held on that date, as against 78.8 per cent five weeks before. This decrease in the absolute and relative amounts of war paper holdings has, however, been fully offset by the practically continuous increase in the holdings of ordinary commercial paper, the December 26 total of 684.5 millions exceeding the November 21 total by 233.8 millions, with the result that the total discounts held by the banks on the later date, $2,194.9$ millions, show a net increase of 70.3 millions over the corresponding November 21 total. This increase is made up largely of paper maturing within 16 to 60 days from date of report, while holdings of 15 -day paper were 33.4 millions less than five weeks before, a development the beginning of which was pointed out in the December issue of the Bulcetin (p. 1186). Since October 31, the

Friday preceding the revision of the discount rates and the discontinuance of the differentia between the rates on 15 and 90 day war paper, the percentage share of 15 -day discounts in the total discounts held has declined from about 83 to 68 per cent.

Acceptances on hand continued their upward course, the December 26 total, 585.2 millions, marking a new high record and an increase of 105.2 millions since November 21, nearly all in the holdings of the New York bank. A decrease of 11.8 millions in Treasury certificate holdings represents largely the amount liquidated during the most recent week by the New York bank.

War paper holdings of the several Federal Reserve Banks include amounts held under rediscount for other Federal Reserve Banks. During the five weeks under review the amount of such paper increased from 20.4 millions, the total held by Chicago and St. Louis for the Philadelphia bank, to 40.6 millions, the aggregate held for the Philadelphia and Kansas City banks. Acceptance holdings of eight Federal Reserve Banks purchased from the Boston and New York banks, with and without the indorsement of the selling banks, show an increase from 111.6 to 128.1 millions.

Both members' reserve deposits and Government deposits show substantial declines for the period, resulting in a decrease of net deposits from $1,846.8$ to $1,704.5$ millions. Federal Reserve note circulation, on the other hand, shows a steady expansion from $2,817.2$ to $3,057.6$ millions, or at an average weekly rate of over 48 millions, the increase being especially marked during the last two weeks of the year.

Export withdrawals of both gold and silver apparently account for the reduction of 40.9 millions in gold reserves and of 51.4 millions in total cash reserves. The combined result of the changes in deposit and note liabilities and the reduction of reserves is seen in the decline of the reserve ratio of the Federal Reserve Banks from 46.9 to 44.8 per cent.

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Nov. 28 to Dec. 26, 1919.
[In thousands of dollars; i. e., 000 omitted.]
RESOURCES.

|  | Boston. | New York. | Philadelphia. | Cleveland. | Richmond. | Atlanta. | $\begin{aligned} & \text { Chi- } \\ & \text { cago. } \end{aligned}$ | St. Louis. | Minneapolis. | Kansas City. | Dallas. | San Francisco. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gold and gold certificates: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 8,644 | 137,374 | 1,241 | 21,797 | 2,303 | 8,136 | 24,150 | 3,312 | 8,280 | 130 | 6,615 | 13,366 | 235,348 |
| Dec. 5 | 8,722 | 151, 201 | 1.234 | 8,077 | 2,314 | 8,206 | 24,129 | 3,148 | 8,257 | 158 | 6,565 | 12,611 | 234,622 |
| Dec. | 8,552 | 155,208 | 1,222 | 12,991 | 2,339 | 8,159 | 24, 075 | 2,970 | 8,283 | 182 | 6,512 | 12,655 | 243,148 |
| Dec. 19 | 8,203 | 156,249 | 1.192 | 10,387 | 2,403 | 8,288 | 24,070 | 2,853 | 8,285 | 166 | 6,679 | 12,550 | 241, 325 |
|  | 7,844 | 147, 197 | 1,182 | 10,220 | 2,402 | 8,350 | 24,060 | 2,738 | 8,261 | 168 | 6,617 | 10,406 | 229,445 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 42,327 | 115,902 | 25,939 | 23,996 | 31,355 | 22,662 | 58,766 | 15,740 | 11,956 | 44,348 | 19,555 | 27,740 | 440,286 |
| Dec. 5. | 54,243 | 74,561 | 28,792 | 43,191 | 31, 662 | 23,249 | 57,009 | 18,456 | 9,368 | 37, 297 | 24,295 | 26, 689 | 428, 812 |
| Dec. 12 | 29,464 | 55,486 | 28, 912 | 35, 017 | 29,248 | 24, 902 | 88,120 | 16,340 | 9,897 | 19,762 | 20,065 | 46,853 | 404, 066 |
| Dec. 19. | 38,567 | 87,692 | 30, 396 | 29,939 | 31,987 | 23,002 | 68,118 | 13,909 | 6,183 | 20, 430 | 15, 397 | 34,315 | $399,935$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28................. | 9,906 | 49,800 | 10,856 | 11,127 | 6,649 | 4,885 | 16,148 | 6,378 | 3, 664 | 6,513 | 3,528 | 6,242 | 135,696 |
| Dec. 5. | 9,704 | 48,787 | 10,635 | 10,901 | 6,514 | 4,786 | 15,819 | 6,248 | 3,589 | 6,381 | 3,456 | 6,115 | 132,935 |
| Dee. 12 | 10,286 | 51, 713 | 11,273 | 11,554 | 6.905 | 5,073 | 16,768 | 6,623 | 3,805 | 6,764 | 3,664 | 6, 482 | 140, 910 |
| Dec. 19 | 10, 053 | 50,542 | 11,017 | 11,293 | 6,749 | 4,958 | 16,388 | 6,473 | 3,718 | 6,610 | 3,581 | 6,335 | 137,717 |
| Dec. $26 . \ldots$............... | 9,805 | 49,296 | 10,746 | 11,014 | 6,582 | 4,835 | 15,984 | 6,313 | 3,627 | 6,447 | 3,492 | 6, 179 | 134,320 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 62,090 | 282,877 | 78,522 | 105,502 | 46,923 | 53,553 | 247, 491 | 69,100 | 34,354 | 38,917 | 24,996 | 104,399 | 1,148,724 |
| Dec. 5. | 71,692 | 291,356 | 77,485 | 118,420 | 45,381 | 55,097 | 243, 826 | 61,207 | 35, 733 | 40, 126 | 26,651 | 105,217 | 1,172, 191 |
| Dec. 12 | 70, 621 | 290,070 | 78,872 | 117,050 | 43,535 | 56,022 | 249,082 | 74, 195 | 34,997 | 39,139 | 26,015 | 108,685 | 1,188,343 |
| Dec. 19 | 71,930 | 288,751 | 79, 458 | 116,925 | 42,031 | 60,585 | 251, 202 | 65,258 | 34,275 | 39,977 | 26,451 | 124, 811 | 1,201,654 |
| Dec. 26. | 73,782 | 307, 385 | 82,491 | 125,048 | 41, 036 | 64,734 | 245,883 | 65,920 | 35,570 | 39,858 | 27,878 | 130,447 | 1,240,032 |
| Nov. 28 | 26,854 | 25,000 | 11,664 | 1,531 | 12, 440 | 6,896 | 20,927 | 6,418 | 2,379 | 5,284 | 3,461 | 10,733 | 133,587 |
| Dee. 5. | 19, 248 | 25,000 | 12,864 | 1.983 +1812 | 7,750 | 6,071 | 23, 678 | 6,147 | , 941 | 3,983 | 2,776 | 9, 263 | 118,704 |
| Dec. 12 | 21,922 23,317 | 24,930 | 13,907 | 1,712 | 8,996 10,065 | 5,700 | 17,210 | 5,971 | 1,326 | 4,928 | 3,366 | 9,853 | 119,821 |
| Dec. 19 | 23,317 | 24,873 | 15,030 | 574 | 10,065 6,371 | 6,559 7,053 | 13, 473 | 4,616 5,922 | 1,671 | 3,961 4,023 | 2,881 3,422 | 8,162 8,304 | 115, 182 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 149,821 | 610,953 | 128, 222 | 163,953 | 99,670 | 96, 132 | 367,482 | 100,948 | 60,633 | 95, 192 | 58,155 | 162,480 | 2,093,641 |
| Dec. 5. | 163, 609 | 590,905 | 131, 010 | 181,572 | 93,621 | 97, 409 | 364, 461 | 95, 206 | 57, 888 | 87,945 | 63, 743 | 159, 895 | 2,087,264 |
| Dec. 12 | 140,845 | 577, 407 | [134, 186 | 178,324 | 91,083 | 99,856 | 395, 255 | 106,099 | 58,308 | 70,775 | 59,622 | 184,528 | 2,096,288 |
| Dec. 19 | 152,070 | 608, 107 | 137, 093 | 169,118 | 98,235 | 103,392 | 373,251 | 93, 109 | 54, 132 | 71,144 | 54,989 | 186, 173 | 2,095,813 |
| Dec. 26 | 152,865 | 570,438 | 138,341 | 181,253 | 81,543 | 110, 706 | 372,355 | 94, 267 | 51, 173 | 77,688 | 56,181 | 191,622 | 2,078,432 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5.... | 4,535 | 50, 107 | 477 | 913 | 209 | 1,220 | 2,715 | 4,744 | 61 | 277 | 1,314 | 259 | 66, 831 |
| Dec. 12 | 3,915 | 49,503 | 548 | 706 | 179 | 1,162 | 2,885 | 3,367 | 59 | 288 | 1,270 | 235 | 64,117 |
| Dec. 19 | 3,725 | 46, 269 | 544 | 668 | 186 | 1,038 | 2,140 | 2,559 | 52 | 348 | 1,242 | 327 | 59,098 |
| Total cash reserves: |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 168,144 | 641, 012 | 131, 487 | 182,485 | 93, 830 | 98, 629 | 367, 176 | 99,950 | 57,949 | 88,222 | 65,057 | 160, 154 | 2, 154, 095 |
| Dec. 12 | 144,760 | 626, 910 | 134, 734 | 179,030 | 91,262 | 101,018 | 398, 140 | 109, 466 | 58,367 | 71,063 | 60,892 | 184, 763 | 2,160, 405 |
| Dec. 19 | 155,795 | 654,376 | 137, 637 | 169,786 | 93, 421 | 104, 430 | 375, 391 | 95, 668 | 54, 184 | 71, 492 | 56, 231 | 186, 500 | 2,154,911 |
| Dec. 26.. | 156, 103 | 616,040 | 138, 880 | 181, 786 | 81,731 | 111, 676 | 374, 184 | 96,507 | 51,245 | 78, 031 | 57,347 | 192,006 | 2,135, 536 |
| Bills discounted: <br> Secured by Government war obligations ${ }^{1}$. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 126, 192 | 753, 834 | 185, 583 | 130,272 | 83, 560 | 65,743 | 176,503 | 49, 151 | 30,999 | 47,750 | 29,681 | 56,878 | 1,736,146 |
| Dec. 5. | 105,868 | 667, 512 | 184, 407 | 116, 672 | 84, 478 | 65, 497 | 173, 759 | 43, 519 | 26,167 | 43, 330 | 27,630 | 64, 474 | 1, $1,503,313$ |
| Dec. 12 | 128, 055 | 651,401 | 193, 337 | 118,469 | 91,548 | 63,879 | 143, 316 | 36, 126 | 22,600 | 43,204 | 38,483 | 54,999 | 1,588, 417 |
| Dec. 19 | 134, 324 | 515,035 | 177, 655 | 112,254 | 89,406 | 61, 843 | 135, 715 | 43, 501 | 23, 204 | 39,321 | 41, 107 | 41, 585 | 1,414,950 |
| Dec. 26 <br> All other- | 138, 206 | 584, 588 | 178, 648 | 120,536 | 87,901 | 61,379 | 146, 840 | 44, 142 | 22,465 | 36,897 | 42,634 | 46, 128 | 1,510,364 |
| Nov. 28 | 39,236 | 107, 068 | 12, 684 | 32,966 | 14,340 | 36,428 | 88,956 | 24, 150 | 29,455 | 47, 531 | 15,507 | 29,742 | 478,063 |
| Dec. 5. | 39,870 | 119,342 | 15,028 | 35, 463 | 15, 324 | 35, 208 | 87, 854 | 31, 328 | 33, 544 | 46, 669 | 13, 920 | 31, 245 | 504, 795 |
| Dec. 12 | 38,889 | 144, 924 | 14, 673 | 41,245 | 16, 280 | 32, 390 | 105, 052 | 31,270 | 38, 752 | 45, 623 | 12,653 | 29, 248 | 550,999 |
| Dec. 19 | 49,559 | 143, 537 | 27, 154 | 43, 951 | 19,179 | 31, 173 | 107,984 | 27,621 | 44, 465 | 45,998 | 11, 308 | 28,233 | 580, 162 |
| Dec. $26 . . . . . . . . . . . . .$. | 56, 630 | 203,606 | 29,492 | 47,041 | 20,760 | 28,843 | 128,429 | 34,093 | 47, 592 | 50, 536 | 11, 427 | 26,065 | 684,514 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 36, 266 | 131, 865 | 3,649 | 57, 900 | 12,004 | 11, 849 | 95, 063 | 31,149 | 19,040 | 10,205 | 12,663 | 92,566 | 514,219 |
| Dec. 12. | 42,707 | 147, 030 | 4,705 | 58, 118 | 13,241 | 12,187 | 97, 736 | 31, 971 | 17, 363 | 19,993 | 9,279 | 87, 221 | 541, 551 |
| Dec. 19. | 14, 412 | 179, 382 | 4,704 | 56, 867 | 14, 394 | 17, 128 | 105, 917 | 37, 112 | 15, 384 | 20, 297 | 8,277 | 92, 392 | 566,266 |
| U. S. Government bonds: | 16, 506 | 191, 312 |  |  |  |  |  |  |  |  | 7,734 | 96,107 |  |
| - Nov. 28.............. | 539 | 1,257 | 1,385 | 844 | 1,235 | 375 | 4,477 | 1,153 | 116 | 8,868 | 3,966 | 2,633 | 26,848 |
| Dec. 5. | 539 | 1,257 | 1,385 | 844 | 1,235 | 376 | 4,477 | 1,153 | 116 | 8,868 | 3,966 | 2,632 | 26, 848 |
| Dec. 12. | 539 | 1,257 | 1,385 | 844 | 1,235 | 375 | 4,477 | 1,153 | 116 | 8,868 | 3,966 | 2,632 | 26,847 |
| Dec. 19. | 539 | 1,257 | 1,385 | 844 | 1,235 | 375 | 4,477 | 1,153 | 116 | 8,867 | 3,966 | 2,632 | 26,846 |
| Dec. 26. | 539 | 1,257 | 1,385 | 833 | 1,235 | 375 | 4,476 | 1,153 | 116 | 8,867 | 3,966 | 2,632 | 26,834 |
| U.S. Victory notes: Nov. 28. |  | 50 |  |  |  | 4 |  |  | 3 |  |  |  | 57 |
| Dec. 5. |  | 50 |  |  |  | 4 |  |  |  |  |  |  | 54 |
| Dee. 12. |  | 50 |  |  |  | 4 |  |  |  |  |  |  | 54 |
| Dec. 19. |  | 50 |  |  |  | 4 |  |  |  |  |  |  | 54 |
| Dec. 20 |  | 50 |  | 10 |  | 4 |  |  |  |  |  |  | 64 |

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Nov. 28 to Dec.26, 1919—Continued.
[In thousands of dollars; i. e., 000 omitted.]
RESOURCES-Continned.

|  | Boston. | New York. | Phila- <br> delphia | Cleveland. | Richmond. | $\begin{gathered} \text { At- } \\ \text { lanta. } \end{gathered}$ | Chicago. | $\begin{aligned} & \text { St. } \\ & \text { Louis. } \end{aligned}$ | Minne apolis. | Kansas | Dallas. | San Francisco | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U. S. certificates of indebtedness: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 22,562 | 77,684 | 31,471 | 25,883 | 11,860 | 15,665 | 40,236 | 17,366 | 8,380 | 14,820 | 11,225 | 10,880 | 288,032 |
| Dec. 5. | 22,081 | 75,407 | 31,760 | 25, 146 | 12,260 | 15,665 | 39,903 | 17,300 | 8,380 | ${ }_{13}^{15,811}$ | ${ }_{8}^{8,645}$ | 11,495 | 283, 853 |
| Dec. 19. | 21,598 | -67,493 | 31, 134 | ${ }_{25,131}^{25,136}$ | 12,260 | 15,666 | 39, 885 | 17, 1709 | $\stackrel{8,575}{8,580}$ | 13,899 | ${ }_{9,145}^{9,20}$ | 11,463 | 273, 219 308 |
| Dec. 26. | 21,661 | 67,347 | 30, 529 | 24,817 | 12,260 | 15,666 | 39,754 | 17,216 | 8,480 | 15,249 | 9,090 | 11,438 | 273,507 |
| Total earning asse | 221, 877 | 1,036,914 | 234,258 | 254,659 | 122,805 | 130,127 | 410,095 | 125,458 | 89,136 | 129,274 | 73,182 | 196, 956 | 3,024,741 |
| Dec. 5 | 204,624 | ,995, 433 | 236, 229 | 236,025 | 125, 301 | 128, 599 | 401,056 | 124,449 | 87, 247 | 124,883 | 66,824 | 202,412 | 2,933,082 |
| Dec. 12 | 231,942 | 1,015,816 | 245,018 | 243, 812 | 134,564 | 124,500 | 390, 422 | 117,658 | 87,211 | 131,604 | 73,601 | 184,939 | 2,981,087 |
| Dec. 19 | 220, 432 | , 936,754 | 242,032 | 239,047 | 136,474 | 120, 188 | 393,978 | 126,696 | ${ }^{91,744}$ | 128, 382 | 73, 803 | 176,305 | 2,881,836 |
| Dec. 26. | 233,542 | 1,048,160 | 244,752 | 250, 160 | 138, 187 | 122,498 | 427, 851 | 133,540 | 93,054 | 131,530 | 74,851 | 182,370 | 3,080, 495 |
| Nov. 28. | 1,078 | 3,994 | 500 | 889 | 491 | 503 | 2,936 | 691 | 600 | 402 | 394 | 400 | 12,878 |
| Dec. 5 | 1,091 | 3,994 | 500 | 889 | 491 | 503 | 2,936 | 691 | 600 | 402 | 399 | 400 | 12,896 |
| Dec. 12 | 1,091 | 3,994 | 500 | 890 | 507 | 515 | 2,936 | 691 | 600 | 462 | 399 | 400 | 12,985 |
| Dec. 19 | 1,091 | 3,994 | 500 | 890 | 508 | 515 | $\stackrel{2}{2,936}$ | 691 | 600 | 462 | 399 | 400 | 12,986 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 78,835 | 249, 903 | 88,495 | 78,112 | 85, 648 | 41,665 | 111,150 | 70,776 | 22,968 | 77,448 | 60, 341 | 48,085 | 1,013,426 |
| Dec. 5. | 66, 250 | 225,597 | 75,934 | ${ }^{65,025}$ | 78,423 |  | 106, 157 | 65, 712 | 24,024 | 76,894 | 49, 952 | 49, 495 | 920, 299 |
| Dec. 12. | 83,747 | 234,567 | 81, 244 | 74,347 | 76,519 | 42,846 | 119,738 | 68, 236 | 25,609 | 81, 232 | 51, 365 | 44,077 | 983,527 |
| Dec. 19. | 81,697 | 254,786 235,089 | 90,192 86,294 | $\xrightarrow[91]{96} \mathbf{9}$, 271 | ${ }_{90}^{91,283}$ | 51,911 | 159,834 | 78,915 70669 | 28,821 29, | 89,306 90,664 | 52, 5 [266 | 55, 837 4778 | 1,140,224 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 1,072 | 2,896 | 1,450 | 1,112 | 696 | 822 | 1,856 | 390 | 206 | 957 | 559 | 655 | 12,671 |
| Dec. 5. | 1,072 | 2,884 | 1,450 | 1,262 | 575 | 804 | 1,876 | 497 | 134 | 957 | 530 | 655 | 12,696 |
| Dec. 12. | 1,072 | 2,886 | 1,475 | 1,162 | 679 | 832 | 1,847 | 576 | 322 | 957 | 498 | 655 | 12,961 |
| Dec. 19. | 1,072 | 2,922 | 1,475 | 1,204 | 587 | 939 | 1,964 | 476 | 518 | 957 | 554 | 665 | 13,333 |
| Dec. $26 . . . . . . .$. | 1,072 | 2,929 | 1,475 | 1,146 | 443 | 798 | 2,116 | 647 | 428 | 958 | 560 | 665 | 13,237 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 317 | 1,340 | ${ }_{350}^{281}$ | 697 753 | 2,181 | 180 200 | 1,087 | ${ }_{245}^{227}$ | 147 | 505 <br> 514 | 239 | 858 783 | 8,659 |
| Dec. 5. | 284 286 | 1,353 | ${ }_{933}$ | 443 | -628 | 119 | 2,524 | 290 | 128 | 515 | 246 | 811 | 8,27 |
| Dec. 19. | 296 | 1,287 | 5,802 | 628 | 595 | 148 | 793 | 382 | 126 | 540 | 303 | 414 | 11,314 |
| Dec. 26.... | 280 | 1,306 | 1,061 | 344 | 1,506 | 141 | 1,785 | 316 | 157 | 481 | 261 | 424 | 8,062 |
| Total resources: Nov. $28 . .$. | 457, 550 | 1,955, 586 | 453,683 | 500,259 | 310, 272 | 270,646 | 896,995 | 303,290 | 173,763 | 304,089 | 194,275 | 409,633 | 6,230,041 |
| Dec. 5. | 441, 465 | 1,870, 283 | 445, 950 | 486,439 | 300,801 | 225, 571 | 880,293 | 291,544 | 170, 127 | 291,872 | 183,152 | 413, 899 | 6,041,396 |
| Dec. 12. | 462,898 | 1,885, 526 | 463,904 | 499,684 | 304,159 | 269, 830 | 915,607 | 296,917 | 172,237 | 285,833 | 187,001 | 415,645 | 6,159,241 |
| Dec. 19 | 474, 383 | 1,854, 119 | 477,638 | 507,626 | 323, 123 | 284, 132 | 926,356 | 302,828 | 175,993 | 291,139 | 187, 146 | 420, 121 | 6,224,604 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 |  |  |  |  |  |  | 19,500 | 4,000 |  |  |  |  | 23,500 |
| Dec. 5 |  |  |  |  |  |  | 20,850 | 3,500 |  |  |  |  | 24,350 |
| Dec. 12. |  |  |  |  |  |  | 5,000 |  |  |  | 10,900 |  | 15,900 |
| Dec. 19 |  |  |  |  |  |  | 8,100 14,670 |  |  |  | 20,000 |  | 28,100 |
| 2 Includes bankers' acceptances bought from other Federal |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reserve Banks: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| With their indorsementNov. 28 |  |  |  |  | 5,080 |  | 15,210 | 15,118 |  |  |  |  |  |
| Dec. 5 |  |  |  |  | 5,080 |  | 15,210 | 15, 118 |  |  | 5,065 |  | 40, 473 |
| Dec. 12 |  |  |  |  | 5,080 |  | 15, 210 | 14,927 |  |  | 5,065 |  |  |
| Dec. 19 |  |  |  |  | 5,080 |  | 25, 307 | 19, 938 |  |  | 5,065 |  | 70, 536 |
| Dec. 26 |  |  |  |  | 5,080 | 5,065 | 25,307 | 19,301 |  |  | 5,065 | 10,081 | 69,899 |
| Without their indorse- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 |  |  |  | 23,209 |  |  | 33,161 | 13,446 |  | 10,005 | 5,012 | 11,547 | 96,440 |
| Dec. 5 |  |  |  | 20,367 |  |  | 27,732 | 10, 551 |  | 10,005 | 5,012 | 10,185 | 83, 852 |
| Dec. 12 |  |  |  | 16,757 |  |  | 25, 553 | 10, 408 |  | 10,005 | 1,667 | 8,722 | 73,112 |
| Dec. 19 |  |  |  | 14,900 |  |  | 23,008 |  |  |  | 1,301 |  | 65,663 58,201 |
|  |  |  |  | 12,265 |  |  | 20,113 | 9,721 |  | 9,805 | 1,113 | 5,184 | 58, 201 |

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Nov. 28 to Dec. 26,1919-Continued. LIABILITIES.
[In thousands of dollars; i. e., 000 omitted.]

|  | Boston. | New York. | $\begin{gathered} \text { Phila- } \\ \text { delphia. } \end{gathered}$ | Cleveland. | Richmond. | $\begin{aligned} & \text { At- } \\ & \text { lanta. } \end{aligned}$ | Chi- cago. | Louis. | Minneapolis. | $\begin{gathered} \text { Kinsus } \\ \text { City. } \end{gathered}$ | Dallas. | $\begin{aligned} & \text { San } \\ & \text { Fran. } \\ & \text { cisco. } \end{aligned}$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital paid in: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5 | 7,105 | 22,373 | 7,873 | $\xrightarrow[9,469]{ }$ | 4,386 | ${ }_{3,413}^{3,406}$ | 12,309 | 4,060 | $\xrightarrow[3,073]{3,060}$ | 3,999 | 3,439 | 5,458 5,473 | 87,973 |
| Dec. 12 | 7,104 | 22,382 | 7,874 | 9,461 | 4,392 | 3,415 | 12,315 | 4,060 | 3,073 | 4,008 | 3,440 | 5,478 | 87,002 |
| Dec. 19 | 7,104 | 22,386 | 7,875 | 9,482 | 4,392 | 3,418 | 12,347 | 4,060 | 3,074 | 4,007 | 3,417 | 5,487 | 87,049 |
| Dec. 26. | 7,108 | 22,388 | 7,884 | 9,482 | 4,392 | 3,424 | 12,347 | 4,063 | 3,074 | 4,012 | 3,417 | 5,748 | 87,339 |
| Nov. 28. | 5,206 | 32,922 | 5,311 | 5,860 | 3,800 | 2,805 | 9,710 | 2,589 | 2,320 | 3,957 | 2,029 | 4,578 | 81,087 |
| Dec. 5. | 5,206 | 32,922 | 5,311 | 5,860 | 3,800 | 2,805 | 9,710 | 2,589 | 2,320 | 3,957 | 2,029 | 4,578 | 81,087 |
| Dec. 12 | 5,206 | 32,922 | 5,311 | 5,860 | 3,800 | 2,805 | 9,710 | 2,589 | 2,320 | 3, 957 | 2,029 | 4,578 | 81,087 |
| Dec. 19 | $\stackrel{5}{5,206}$ | 32, 922 | 5,311 | 5,860 | 3,800 | 2,805 | 9,710 | 2,589 | 2,320 | 3,957 | 2,029 | 4,578 | 81,087 |
|  | 5,206 | 32,922 | 5,311 | 5,860 | 3,800 | 2,805 | 9,710 | 2,589 | 2,320 | 3,957 | 2,029 | 4,578 | 81,087 |
| Government deposits: | 12,692 | 37,272 | 7,015 | 2,470 | 5,318 | 4,025 | 6,971 | 9,499 | 3,238 | 3,043 | 2,564 | 4,050 | 98,157 |
| Dec. 5 | 2,305 | 11,455 | 3,157 | 2,928 | 2,102 | 2,269 | 1,676 | 2,658 |  | 3,662 | 1,119 | 6,467 | 39,798 |
| Dec. 12. | 8,846 | 30,467 | 9,621 | 3,282 | 4,527 | 3,602 |  | 5,676 | 2,300 | 7,817 | 4,407 | 8,952 | 89,503 |
| Dec. 19. | 20,162 |  | 5,904 | 3,400 | 5,991 | 8,705 | 2,735 | 2,932 | 2,088 | 7,983 | 2,449 | 1,480 | 64,459 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 108,254 | 787, 739 | 100, 122 | ${ }_{128,801}^{145}$ | 62,091 | 50,278 | 243, 715 | 67,368 | 50,874 | 86,640 | 60,700 | 117,783 | 830,037 |
| Dec. 12 | 119,614 | 735, 659 | 94,666 | 131, 805 | 62, 855 | 55, 685 | 248, 069 | 67,280 | 50,530 | 82,691 | 59,984 | 108,568 | 1,817,406 |
| Dec. 19. | 111,030 | 681,610 | 94,930 | 122,907 | 59,954 | 56,978 | 240,563 | 65,909 | 50,690 | 77,202 | 58,961 | 112,279 | 1,733,013 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 58,407 | 162,920 | 67,778 | 58,161 | 68,655 | 36,590 | 76, 730 | 51,027 | 17, 106 | 66,25] | 31,335 | 22,886 | 717,852 |
| Dec. 12 | 63,141 | 166, 058 | 77, 593 | 61,947 | 67,215 | 34,073 | 97,642 | 53,137 | 16,974 | 60,060 | 32,026 | 29,688 | 759, 554 |
| Dec. 19 | 63,312 | 188, 824 | 90,771 | 73, 173 | 83,610 | 38, 057 | 104, 328 | 58,368 | 19,085 | 69,390 | 34,089 | 26,600 | 848, 607 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5,942 | 44,065 | 6,976 | 6,019 | $\xrightarrow{3,594}$ | 2,706 2 | 9,659 | 3,747 4,002 | 2,156 2 | 3,637 3,575 | 2,985 | 7,312 | 98,798 |
| Dee. 12. | 7,713 | 43,263 | 7,038 | 6,049 | 3,628 | 2,639 | 15,580 | 3, 855 | 2,156 | 3,611 | 2,490 | 5,466 | 103,488 |
| Dec. 19 | 5,908 | 43,935 | 6,493 | 6,386 | 3,622 | 2,891 | 11,322 | 3,984 | 2,700 | 3,792 | 2,093 | 11,943 | 105,009 |
| Dec. 26. | 8,288 | 42,685 | 6,832 | 6,147 | 3,810 | 2,681 | 10,036 | 3,588 | 2,216 | 3,645 | 2,066 | 5,865 | 97.659 |
| Total gross deposits: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dee. 5 | 182,246 | '964,027 | 177,681 | 195, 307 | 136,419 | 91,852 | 331,663 | 125, 055 | 70,104 | 160, 134 | 95, 204 | 152, 128 | 2,681,820 |
| Dec. 12 | 199,314 | 975,447 | 188,913 | 203,083 | 138,225 | 95, 999 | 361,291 | 129,948 | 71,966 | 154,179 | 98,907 | 152, 674 | 2,769,951 |
| Dec. 19 | 199,412 | 914,999 | 198, 098 | 205,866 | 153,177 | 106,631 | 358,948 | 131,193 | 74, 663 | 158,367 | 97,592 | 152,302 | 2,751,148 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 220,828 | 767,398 | 223, 051 | 251,011 | 141,556 | 148,567 | 475, 062 | 141,009 | 83,784 | 101,749 | 69,176 | 229,086 | 2,852,277 |
| Dec. 5 | 223,073 | 774,971 | 222,612 | 250, 384 | 142,296 | 150, 749 | 480,334 | 142,049 | 85, 014 | 102,342 | 71,006 | 236,529 | 2,881,359 |
| Dec. 12 | 226,737 | 778, 170 | 229,077 | 255,337 | 143,774 | 150,831 | 485, 203 | 142,710 | 85, 169 | 101,884 | 71,036 | 237,507 | 2,907,435 |
| Dec. | 238,211 | 806, 615 | 233,241 | 260, 188 | 147,427 | 153,920 | 498,174 | 147,704 | 86, 164 | 102,807 | 72,402 | 242,041 | 2,988, 894 |
| Dec. | 246,455 | 824,944 | 240, 273 | 272,884 | 148,693 | 156, 599 | 510,018 | 148,452 | 87,475 | 105,100 | 74,886 | 241,867 | 3,057,646 |
| Federal Reserve bank notes in circulation-net liability: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 21,169 | 56,150 | 27,938 | 21,490 | 11,702 | 14,703 | 39,594 | 15,996 | 8,006 | 18,688 | 9,992 | 11,365 | 256,793 |
| Dec. 5 | 20,044 | 56,163 | 28,454 | 21,720 | 11,748 | 14,654 | 40, 264 | 15,916 | 8,014 | 18,954 | 10,094 | 11,455 | 257, 480 |
| Dec. 12 | 20,554 | 55,347 | 28,688 | 22,021 | 11,751 | 14,631 | 40,777 | 15,692 | 8,037 | 19,173 | 10, 186 | 11,587 | 258,444 |
| Dec. 19 | ${ }_{20}^{20,644}$ | 55,425 | ${ }_{29}^{28,911}$ | 22, 220 | 12,088 | 15, 2066 | 40,718 | 15,380 | 8 | ${ }_{19}^{19,546}$ | $\xrightarrow{10,292}$ | 11,703 | 259,975 |
| All ${ }_{\text {Dther }}$ Dec. 26. | 20,744 | 54,624 | 29,028 | 22,197 | 12,051 | 15,663 | 41,109 | 15,610 | 8,157 | 19,546 | 10,415 | 11,895 | 261,039 |
| Nov. 28 | 3,603 | 18,670 | 3,887 | 3,573 | 2,048 | 2,006 | 5,705 | 1,786 | 1,492 |  | 1,308 | 3,579 | 50,058 |
| Dec. 5 | 3,791 | 19,327 | 4,019 | 3,699 | 2,150 | 2,098 | 6,013 | 1,875 | 1,602 | 2,487 | 1,380 | 3,736 | 52,677 |
| Dec. 12 | 3,983 | ${ }^{21,258}$ | 4,036 | 3,922 | 2,217 | 2,149 | 6,311 | 1,918 | 1,672 | 2,632 | 1,403 | 3,821 | 55, 322 |
| Dec. 19 | 3,806 | 21,772 | 4,202 | 4,010 | 2,259 | 2,152 | 6,459 | 1,902 | 1,779 | 2,686 | 1,414 | 4,010 | 56,451 |
| Dec. 26 | 4,003 | 22,677 | 4,331 | 4,202 | 2,359 | 2,213 | 6,846 | 1,949 | 1,815 | 2,743 | 1,434 | 4,179 | 58,751 |
| Total liabilit Nov. 28. | 457, 550 | 1,956 |  |  | 310,272 | 270,646 |  | 303,290 | 173,763 | 304,089 |  | 409,633 | 6,230,041 |
| Dec. 5 | 441,465 | 1, 870,283 | 445,950 | 486,439 | 300, 801 | 265,571 | 830,293 | 291,544 | 170,127 | 291, 872 | 183,152 | 413,899 | 6,041, 308 |
| Dec. 12 | 462,898 | 1,885, 526 | 463,904 | 499,684 | 304, 159 | 269,830 | 915,607 | 296,917 | 172,237 | 285,833 | 187,001 | 415, 645 | 6,159,241 |
| Dec. 19 | 474,383 | 1, 854, 119 | 477, 638 | 507,626 | 323, 123 | 284, 132 | 926,356 | 302, 828 | 175,993 | 291, 139 | 187, 146 | 420, 121 | 6,224,604 |
| Dec. 2 | 473,770 | 1,907,518 | 472,962 | 525, 565 | 312,669 | 285, 700 | 948,706 | 302, 370 | 174,769 | 302, 126 | 195,654 | 423,623 | 6,325,432 |
| ro |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contingent liability as indorser on: <br> Discounted paper rediscounted with other Federal Reserve Banks- |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. |  |  | 23,500 |  |  |  |  |  |  |  |  |  | 23,500 |
| Dec. |  |  | 24,350 |  |  |  |  |  |  |  |  |  | 24,350 |
| Dec. 12 |  |  | 15,900 |  |  |  |  |  |  |  |  |  | 15.800 |
| Dec |  |  | ${ }_{27}^{21,615}$ |  |  |  |  |  |  | 13,000 |  |  | 28,100 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Banks- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5 | 40,473 |  |  |  |  |  |  |  |  |  |  |  | 40, 473 |
| Dec. 12 | 40,282 |  |  |  |  |  |  |  |  |  |  |  | 40,282 |
| Dec. 19 | 70, 536 |  |  |  |  |  |  |  |  |  |  |  | 70,536 |
|  | 69,899 |  |  |  |  |  |  |  |  |  |  |  | 69,899 |

Maturities of bills discounted and bought, also of United States certificates of indebtedness.

| [In thousands of dollars; i. e., 000 omitted.] |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Within } 15 \\ & \text { days. } \end{aligned}$ | 16 to 30 days. | 31 to 60 days. | 61 to 90 days. | Over 90 days. | Total. |
|  |  |  |  |  |  |  |
| Nov. $28 . \ldots$ | 1,582,690 | ${ }_{1}^{135,642} 1$ | 293,789 298,600 | 183,448 <br> 189 <br> 184 | 18,640 18,724 | 2,214,209 |
| Dec. 12. | 1,490,897 | 116.113 | 322,128 | 191,451 | 18, 18,727 | 2,138,416 |
| Dec. 19. | 1,328,059 | 134,643 | 362,091 | 151,465 | 18, 854 | 1,995,112 |
| Dec. 26, $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$Bills bought |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Nov. 28. | 89,003 82,562 | 85,690 116,662 | 201,297 185,802 | 117,339 129 | 2,266 | 495,595 |
| Dec. 12. | 18,472 | 128,987 | 187,068 | 147,024 |  | 541, 551 |
| Dec. 19. | 123,248 | 106,219 | 188, 830 | 147, 969 |  | 566, 266 |
|  |  | 100,060 | 209, 278 | 152,147 |  | 585,212 |
| Nov. 28...... | 30,235 | 13,012 | 14,158 | 17,324 |  | 288, 033 |
| Dec. 5 | 29, 075 | 13,242 | 8,454 | 6,289 | 226,793 | 283,853 |
| Dec. 12. | 22,158 | 9,221 | 6,551 | 8,630 | 226,659 | 273, 219 |
| Dec. 19. | 48,578 | 2,072 4,865 | 6,221 3,940 | 9,029 10,715 | 237,658 238,242 | 373,507 273,507 |
|  | 15,745 | 4,865 | 3,940 | 10,715 | 238,242 | 273,507 |

FEDERAL RESERVE NOTES.
Federal Reserve note account of each Federal Reserve Bank at close of business on Fridays, Nov. 28 to Dec. 26, 1919.
[In thousands of dollars; i. e., 000 omitted.]

|  | Boston. | New York. | Phila-delphia | Cleveland. | Richmond. | Atlanta. | Chicago. | $\begin{aligned} & \text { St. } \\ & \text { Louis. } \end{aligned}$ | Minneapolis. | Kansas City. | Dallas. | San <br> Fran- <br> cisco. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Federal reserve notes: Received from agent- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 228,196 | 845, 849 | 233, 830 | -264,509 | 146, 779 | 153, $20{ }^{\circ}$ | 499, 786 | 161,494 | 85, 550 | 107,443 | 72,436 | 260, 573 | 3,059, 652 |
| Dec. 5. | 232, 779 | 868, 304 | 234, 433 | 265, 747 | 147,937 | 154, 417 | 507, 521 | 161, 921 | 86, 329 | 108,502 | 73,776 | 266, 711 | 3, 108, 377 |
| Dec. 12 | 236,708 | 885,698 | 237, 620 | 270, 217 | 148,351 | 1155, 452 | 513,377 | [163, 549 | 86,393 | 108,916 | 74,480 | 267,979 | 3,148,740 |
| Dec. 1 | 245,517 | 909, 863 | 243,606 | 272,493 | 153, 427 | 159,650 | 523,257 | 168,952 | 87,621 | 109,944 | 75,625 | 270,605 | 3,220,560 |
| Dec. 26. | 253,669 | 929, 663 | 249, 438 | 284, 335 | 155, 232 | 162,809 | 533,738 | 167, 515 | 88,916 | 111,005 | 77,977 | 277,801 | 3,292,098 |
| Heid by bank Nov. 28. | 7,368 | 78, 451 | 10,779 | 12,498 | 5,223 | 4,640 | 24,724 | 20,485 | 1,766 | 5,694 | 3,260 | 31,487 | 207,375 |
| Dec. 5 | 9,706 | 93,333 | 11, 821 | 15,363 | 5,641 | 3,668 | 27,187 | 19,872 | 1,315 | 6,160 | 2,770 | 30, 182 | 227, 018 |
| Dec. 12. | 9,971 | 107,528 | 8,543 | 14,880 | 4,577 | 4,621 | 28,174 | 20,839. | 1,224 | 7,032 | 3,444 | 30,472 | 241, 305 |
| Dec. 19 | 7,306 | 103, 248 | 10,365 | 12,305 | 6,000 | 5, 730 | 25,083 | 21,248 | 1,457 | 7,137 | 3,223 | 28,564 | 231,666 |
| Dec. $26 . . . . . . . . . . . . . . . .$. | 7,214 | 104, 719 | 9,165 | 11,451 | 6,539 | 6,210 | 23,720 | 19,063 | 1,441 | 5,905 | 3,091 | 35, 934 | 234,452 |
| In actual circulationNov. 28. | 220,838 | 767, 398 | 223,051 | 251,011 | 141,556 | 148,567 | 475,062 | 141,009 | 83, 784 | 101, 749 | 69,176 | 229,086 | 2,852,277 |
| Dec. 5.. | 223, 073 | 774,971 | 222,612 | 250,384 | 141, 296 | 150,749 | 480, 334 | 142,049 | 85, 014 | 102,342 | 71,006 | 236,529 | 2, 881, 359 |
| Dec. 12. | 226,737 | 778, 170 | 229, 077 | 255,327 | 143, 774 | 150, 831 | 485, 203 | 142,710 | 85, 169 | 101,884 | 71,036 | 237,507 | 2,907,435 |
| Dec. 19 | 238,211 | 806,615 | 233.241 | 260, 188 | 147, 427 | 153, 920 | 498, 174 | 147,704 | 86,164 | 102,807 | 72,402 | 242,041 | 2,988,894 |
| Dec. 26................. | 246,455 | 824,944 | 240, 273 | 272,884 | 148, 698 | 156,599 | 510,018 | 148, 452 | 87,475 | 105,100 | 74,886 | 241,867 | 3,057,646 |
| Gold deposited with or to credit of Federal Reserve agent: <br> Nov. 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. ${ }^{\text {Dec }}$ | 62,050 71,692 | 282,877 291,356 | 78,522 | 105,502 118,420 | 46,923 | 53,553 55,097 | 247,491 243,826 | 69,100 61,207 | 34,354 35,733 | 38,917 40,126 | 24996 26,651 | 104,399 | $1,148,724$ $1,172,191$ |
| Dec. 12. | 70,621 | 290,070 | 78,8i2 | 117,050 | 43,595 | 56,022 | 249,082 | 74, 195 | 34,997 | 39, 139 | 26,015 | 108,685 | 1, 188,343 |
| Dec. 19. | 71,930 | 288, 751 | 79,458 | 116.925 | 42,031 | 60,585 | 251, 202 | 65, 258 | 34, 275 | 39,977 | 26,451 | 124,811 | 1,201,654 |
| Dec. 26.................. | 73,782 | 207,385 | 82,491 | 125,048 | 41,036 | 64,734 | 245,883 | 65, 920 | 35,570 | 39,858 | 27,878 | 130,447 | 1,240,032 |
| Paper delivered to Federal Reserve agent: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28.................... | 198, 776 | 956,361 | 159,400 | 227,862 | $100,780$ | 102,356 | $\mid 364,958$ | 106,739 | 66,115 | 105,586 | 57, 991 | 171,606 | 2,618,530 |
| Dec. 5. | 182, 004 | 917, 238 | 161, 014 | $1208,542$ | $106,598$ | $\left\|\begin{array}{l} 104,330 \\ 100 \end{array}\right\|$ | $356,193$ | $105,973$ | $68,495$ | 100, 204 | $54,213$ | 171, 269 | $2,536,068$ |
| Dec. 12. | 1209,651 | 944,892 836,153 | 179,503 178,544 | 214, 640 | 115, 852 | 108,170 109,634 | 345,929 349,436 | $\begin{gathered} 99,292 \\ 100 \end{gathered}$ | 68,573 70 | 108,820 | 60,415 60 | 159,909 | $2,615,646$ $2,494,034$ |
| Dec. 26. | 198,295 | 836,153 977,365 | 178,544 | [210,807 | $\xrightarrow{116,906} 1$ | 109,634 | 334,436 | 108,234 | 70,606 69,456 | 105,561 107,359 | 60,693 61,795 | 149,165 159,315 | $2,494,034$ $2,711,898$ |

Federal Reserve note account of each Federal Reserve agent at close of business on Fridays, Nov. 28 to Dec. 26, 1919.


## CONDITION OF MEMBER BANKS IN SELECTED CITIES.

Liquidation of 38.8 millions of United States securities, of 43.4 millions of war paper (exclusive of rediscounts), and of 16.9 millions of loans secured by stocks and bonds, accompanied by an increase of 131.5 millions in all other loans and investments (also exclusive of rediscounts), are the principal developments in the condition of about 790 member banks in leading cities for the five-week period November 14-December 19, 1919. During the period, the Treasury issued, on December 1 and December 15, a total of $1,150.6$ millions of tax and loan certificates and redeemed the outstanding balances of two series of tax certificates issued during June and July, 1919, as well as a portion of the loan certificates due early in 1920. The banks' holdings of Treasury certificates, which stood at 835.5 millions on November 14, declined to 816.5 millions on November 28, as the result of redemptions before maturity and sales to customers, but increased to about 862 millions on December 5 after two new issues were placed. Between December 5 and December 19 one new issue was allotted and large amounts of certificates were redeemed on and before maturity, the net result for the entire five-week period being a slight increase of 8.8 millions in certificate holdings. Liberty bonds held declined 8.6 millions, and Victory notes 39.2 millions, presumably as the result of absorption of these amounts by the public.

A new classification of rediscounts with the Federal Reseserve Banks, showing separately the amounts of rediscounted paper secured by Government obligations and otherwise secured or unsecured, was presented for the first time in the condition statement for December 12. This information makes it possible to determine the total amount of war paper held by the banks or rediscounted by them with the Federal Reserve Banks. This gross figure was $1,342.8$ millions on December 12, and $1,328.9$ millions on December 19, indicating a net liquidation of 13.9 millions for that week. The aggregate amount of paper rediscounted by the reporting banks with the Federal Reserve Banks increased from 675.1 millions on November 14 to 792.3 millions on December 19. Of the latter amount, 306.3 millions was secured by Government war obligations, while 486 millions represents paper otherwise secured or unsecured. The banks' own bills payable with Federal Reserve Banks declined from 1,070.3 millions on November 14 to 846.1 millions five weeks later. The shift from collateral notes to rediscounts is due in part
to changes in discount rates which with most Federal Reserve Banks no longer favor 15-day paper. Of the bills payable on December 19 all but 4.7 millions are collateraled by United States war obligations.

Loans secured by stocks and bonds, after showing a considerable amount of liquidation for the three weeks November 14-December 5, resumed their upward course during the most recent two weeks of the period under review, with the net result that the aggregate of these loans, which was $3,287.4$ millions on November 14 , was still $3,270.5$ millions on December 19, and constituted on that date 20.9 per cent of the banks' total loans and investment, as compared with 21.1 per cent five weeks earlier. A larger decrease from $2,817.5$ to $2,735.1$ millions is shown for the aggregate amount of war securities and war paper held by the reporting banks, these holdings constituting 17.5 per cent of the banks' total loans and investments at the end of the period, compared with 18.1 per cent at the beginning.

Fluctuations in volume of Government deposits during the period under review reflected the Treasury's transactions in placing and redeeming certificates of indebtedness and also the payment by the public of the December installment of income and excess profits taxes. The high points in Government deposits are consequently shown for December 5, 415.1 millions, and for December 19, 647.9 millions. Other demand deposits (net) in general followed a course opposite to that shown for Government deposits, and reached the lowest levels on December 5, the Friday following the flotation of two series of tax certificates, and December 19, following a further issue of certificates and the December 15 tax payment resulting in heavy withdrawals of both individual and bank deposits from reporting banks. On the most recent date net demand deposits were 240.5 millions below the figure for November 14. Time deposits, after some fluctuations, stand at practically the same amount at the end as at the beginning of the five-week period.

Reserve balances with the Federal Reserve Banks declined almost without interruption during the period under review, and on December 19 stood 111.3 millions below the November 14 figure. This decline reflects to some extent the net reduction in the accommodation obtained by the member banks from the Federal Reserve Banks, as measured by the combined total of the banks' own bills payable
and their rediscounted customers' paper, a total lions in cash on hand, probably Federal Rewhich shows a reduction of about 107 millions serve notes, may be noted for the period. for the five weeks. An increase of 19.5 mil-

Principal resources and liabilities of member banks in leading cities, including member banks located in Federal Reserve Bank cities and in Federal Reserve branch cities, as at close of business on Fridays from Nov. 21 to Dec. 19, 1919.

1. ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT.
[In thousands of dollars; i. e., 000 omitted.]

|  | Boston. | New York. | Phila-delphia. | Cleveland. | Richmond. | Atlanta. | Chicago. | St. Louis. | Minneapolis. | Kansas City. | Dallas. | San <br> Francisco. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of reporting banks: | 46 |  |  | 90 | 82 | 47 | 107 |  |  |  |  |  |  |
| Nov. 28 | 46 | 112 | 56 | 90 | 82 | 47 | 107 | 35 <br> 35 | 35 | 80 81 | 43 | 61 | 94 |
| Dec. | 46 | 112 | 56 | 90 | 82 | 47 | 107 | 35 | 35 | 82 | 43 | 61 | 9 |
| Dec. | 46 | 112 | 56 | 90 | 82 | 47 | 107 | 35 | 35 | 82 | 43 | 61 | 96 |
| Dec. 15 | 46 | 112 | 56 | 90 | 82 | 47 | 107 | 35 | 35 | 82 | 43 | 61 | 96 |
| United States bonds to secure circulation: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 13,536 | 48,737 | 11,097 | 41,841 | 26,071 | 14,015 | 20,857 | 17,154 | 7,120 | 14,467 | 19,573 | 34,605 | 263,073 |
| Nov. 28 | 13,536 | 48,759 | 11,097 | 41, 811 | 26,071 | 14,015 | 20,859 | 17,154 | 7,120 | 14,467 | 19,573 | 34,605 | 269,097 |
| Dec. 5. | 13,536 | 48,759 | 11, 197 | 41,841 | 26,071 | 14,015 | 20, 873 | 17, 154 | 7,120 | 14,467 | 19,573 | 34, 819 | 269,425 |
| Dec. 12 | 13, 536 | 48,887 | 11,097 | 41, 84.1 | 26,271 | 14,015 | 20,873 | 17,153 | 7,120 | 14,467 | 19,573 | 35,017 | 269,850 |
| Dec. 19. | 13,536 | 48,887 | 11,097 | 41,841 | 26,271 | 14,015 | 20,873 | 17,153 | 7,120 | 14,217 | 19,573 | 34,605 | 260, 188 |
| गther United States bonds, including Liberty bonds: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 14,835 | 283,770 | 28,936 | 62, 501 | 36,938 | 27,936 | 51,799 | 13,840 | 10, 148 | 25,165 | 19,859 | 58, 641 | 634,368 |
| Nov. 28 | 14,498 | 275, 007 | 29,411 | 62,198 | 37,194 | 28,680 | 54,244 | 14,375 | 9, 785 | 24, 970 | 20,127 | 57, 732 | 628,221 |
| Dec. 5 | 15,041 | 276,139 | 29,516 | 62,632 | 37,403 | 28,796 | 53,109 | 14, 068 | 10,502 | 25,309 | 20,368 | 58, 491 | 631, 374 |
| Dec. 12 | 14,336 | 275,440 | 29,556 | 63,282 | 36,341 | 28,697 | 53,099 | 14,794 | 10,322 | 25, 107 | 20,688 | 57,066 | 628,728 |
| Dec. 19 | 14,410 | 271,078 | 29,670 | 62,737 | 36,919 | 28,140 | 54,561 | 14,650 | 10,604 | 24,570 | 20,717 | 58,241 | 626,297 |
| United States Victory notes: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 8,158 | 117,907 | 13,783 | 27,262 | 13,573 | 9,778 | 49,550 | 6,008 | 4,065 | 8,487 | 4,722 | 12,229 | 275,522 |
| Nov. 28 | 7, 858 | 110,860 | 14, 060 | 27,023 | 13, 215 | 9,537 | 48,414 | 5,743 | 3,738 | 8,177 | 4,593 | 12,763 | 265, 981 |
| Dec. 5 | 7,870 | 105, 922 | 13,112 | 26,223 | 13,128 | 9,338 | 47,118 | 5,550 | 3,777 | 7,990 | 4,153 | 12, 284 | 256,465 |
| Dec. 12 | 7,744 | 103, 132 | 12,930 | 26,987 | 12,904 | 9,045 | 45,930 | 5,348 | 3,376 | 7,546 | 4,100 | 12,582 | 251,624 |
| Dec. 19 | 7,767 | 95, 472 | 12,325 | 25,926 | 12,608 | 8,286 | 45,133 | 5,515 | 2,996 | 7,221 | 4,050 | 14, 611 | 241,910 |
| United States certificates of indebtedness: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 30, | 388, 873 | 39,607 | 67 | 20 | 30, | 115,710 117,729 | 11,140 |  | 20,989 |  |  |  |
| Nov. 28 | 36,680 46,582 | 381,015 362,972 | 39,450 50,411 | 64,935 68,518 | 20,863 28,809 | 29,137 | 117,729 | 11,140 | 22,321 | 20,684 | 16,330 21,810 | 55,951 | 816,540 |
| Dec. 12 | 45,941 | 324, 934 | 43, 531 | 60,273 | 28,719 | 38, 185 | 117,332 | 13,034 | 17,946 | 20, 468 | 21, 331 | 61,028 | 792, 722 |
| Dec. 19 | 48,036 | 332, 503 | 58, 059 | 66,880 | 29,602 | 41,935 | 112,307 | 23,089 | 17, 773 | 24,565 | 36,585 | 52, 975 | 844,309 |
| Total United States securities owned: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 66,876 | 839,287 | 93,423 | 198,720 | 97,413 | 82,443 | 237,916 | 50,056 | 44,588 | 69,348 | 59,011 | 160,898 | 1,999,979 |
| Nov. 28 | 72,572 | 815,641 | 94, 018 | 195, 997 | 97, 343 | 81, 369 | 241,246 | 48, 412 | 42, 964 | 68,603 | 60,623 | 161, 051 | 1,979,839 |
| Dec. 5 | 83,029 | 793, 792 | 104,236 | 199, 214 | 105,411 | 89,698 | 247,329 | 50,551 | 43,046 | 68,450 | 65,904 | 168,621 | 2,019,281 |
| Dec. 12. | 81,557 | 752,393 | 97, 114 | 192,383 | 104,235 | 89, 942 | 237, 234 | 50,329 | 38,764 | 67, 588 | 65,692 | 165, 693 | 1,942,924 |
| Dec. 19. | 83,749 | 747,940 | 111,151 | 197,384 | 105,400 | 92,376 | 232, 874 | 60,407 | 38, 493 | 70,573 | 80,925 | 160, 432 | 1,981,704 |
| Loans secured by United States bonds, Victory notes, and certificates: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 40,764 | 553, 628 | 116, 361 | 91, 885 | 37,665 | 24,832 | 96, 898 | 29,870 | 14,712 | 19,807 | 6,228 | 27, 566 | 1,060,216 |
| Nov. 28 | 40,745 | 543,188 | 116,397 | 93,589 | 37,687 | 24, 749 | 96, 193 | 30, 208 | 15,779 | 19,758 | 6,513 | 28, 857 | 1,053, 663 |
| Dec. 5 | 42, 419 | 528,072 | 106, 462 | 90,024 | 37,783 | 24, 810 | 96, 186 | 30,644 | 14,927 | 20, 022 | 7,045 | 29, 713 | 1,028, 107 |
| Dec. 12 | 39,454 | 528, 199 | 105,168 | 89, 111 | 37,554 | 24,515 | 93, 340 | 30,417 | 15, 052 | 20,223 | 7,469 | 30,072 | 1,020, 774 |
| Dec. 19. | 43, 790 | 522, 164 | 104,527 | 91, 107 | 37, 904 | 24,566 | 93,478 | 31, 292 | 14,782 | 20,368 | 7,423 | 31, 232 | 1,022,633 |
| Loans secured by stocks and bonds, other than United States securities: |  |  |  |  |  |  |  |  |  |  | 44 |  | 220,937 |
| Nov. 21. | 210,960 | 1,427,816 | 213, 119 | 339,392 | 114,029 | 49,246 50,196 | 458, 838 | 159, 219 | 32,060 | 71,8938 | 30,374 | 127, 597 | 3, 3222,622 |
| Dec. 5. | 202, 489 | 1,398,127 | 210,038 | 348,995 | 113, 809 | 51, 676 | 464,092 | 151, 800 | 31,176 | 73, 359 | 30,555 | 128, 729 | 3, 204, 845 |
| Dec. 12 | 200,950 | 1, 430, 330 | 215,032 | 350, 165 | 115,668 | 52,321 | 468, 890 | 154, 142 | 30, 823 | 72, 563 | 29,897 | 128, 281 | 3,249,062 |
| Dec. 19 | 197, 266 | 1,462,037 | 201, 504 | 351,281 | 114, 151 | 54, 474 | 467, 834 | 158,949 | 31,454 | 73, 806 | 31, 107 | 126,648 | 3,270,511 |
| All other loans and investments: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 660,443 | 3, 276, 725 | 481, 800 | 782, 475 | $344,149$ | $\left.\right\|_{290} ^{342,335}$ | $1,344,361$ | $295,366$ | 255, 764 | 464, 136 | 205, 364 | 729, 498 | ${ }_{9}^{9,182, ~} 1816$ |
| Nov. 28 | 645, 2666 | 3, 288, 524 | 490,233 | 783,803 787,525 | $340,274$ | 332,958 | 1,343, 307 | 299,877 | 256,039 | 468,601 474,628 | 209,301 210,919 | 736,955 730,836 | $9,195,138$ $9,186,687$ |
| Dec. 5. | 648, 335 | 3, 267, 192 | 482, 589 | 787, 525 | 342, 202 | 339, 242 | 1, 343, 285 | 303,613 309,416 | 256,321 249,601 | 474,628 463,262 | 210,919 | 730,836 729,061 | $9,186,687$ $9,246,697$ |
| Dec. 12.. | 666, 797 | $3,282,980$ $3,342,708$ | 486,520 486,197 | 794,301 794,059 | 341,332 339,859 | 351, 794 | $1,361,089$ $1,368,797$ | 309, 716 | 249,601 253,984 | 463,262 469,232 | 211, 695 | 742, 501 | $9,246,696$ $9,339,958$ |
| Dec. 19 <br> Total loans and investments: | 671,609 979 | $3,342,708$ 6,09756 | ${ }_{486}^{48} 197$ | 794,059 1 | 339,859 593,256 | 353, 591 | 1,368,797 | 305, 726 | 253, 984 347,130 | 469,232 625,184 | 211,693 301,247 | 742,51 1,042,917 | $9,339,958$ $15,463,548$ |
| Nor. 21. . . . . . . . . | 979, 043 | 6,097,456 | 904,703 910 | 1, 412,472 | 593,256 | 498,856 | $2,136,773$ $2,139,584$ | 524,511 529,595 | 347,130 345,519 | 625,184 630,600 | 301,247 | 1,042,917 | 15, $463,451,264$ |
| Nov. 28. | 961,166 976,272 | $6,077,936$ $5,987,183$ | $\left\lvert\, \begin{aligned} & 910,081 \\ & 903,325\end{aligned}\right.$ | 1,417,340 | 588,898 599,205 | 489, 272 | $2,139,584$ $2,150,892$ | 536, 690 | 345, 470 | 636, 459 | 314,423 | 1,057,899 | 15, 438, 220 |
| Dec. 5. | 976,272 988,758 | 5,987, 183 | 903,325 903,834 | $1,425,758$ $1,425,960$ | 599,205 598,789 | 505,426 518,572 | $2,150,892$ $2,160,553$ | 536,608 544,304 | 345,470 334,240 | 636, 459 | 314,423 313,602 | $1,053,890$ | $15,438,220$ |
| Dec. 19. | 996, 414 | 6,074, 849 | 903,379 | 1, 433,831 | 597, 314 | 525,004 | 2, 162,983 | 556, 374 | 338, 713 | 633,979 | 331,150 | 1,060,813 | 15, 614,806 |
| Reserve balances with Federal Reserve Bank: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 79,590 | 687, 255 | 66,070 | 93, 553 | 39, 414 | 33, 824 | 185, 565 | 43, 411 | 26,738 | 54, 162 | 26,094 | 73,437 | 1,409, 113 |
| Nov. 28 | 73, 601 | 720, 101 | 60, 354 | 90, 391 | 40,440 | 32, 911 | 181, 235 | 43, 373 | 25,789 22,045 | 50,072 | 24,582 | 72,007 77,627 | $1,414,856$ $1,406,193$ |
| Dec. 5 | 79,903 | 694, 393 | 66, 769 | 90, 214 | 37, 882 | 30, 836 | 182,522 | 44,420 | 22,045 | 52,129 49 | 27, 215 |  | 1,406, 1,402 |
| Dec. 12 | 84, 696 | 677, 355 | 62,087 | 91,741 | 40,908 | 35, 365 | 192,857 | 43, 382 | 23,600 | 49, 4302 | 25,216 25,524 | 73,020 71,830 | 1,402, $1,316,937$ |
| Dec. 19.. | 77, 189 | 629, 951 | 64,043 | 88, 901 | 37, 378 | 35,777 | 183, 027 | 40,503 | 21,091 | 43,723 | 25,524 | 71,830 | 1,316,937 |

Principal resources and liabilities of member banks in leading cities, including member banks located in Federal Reserve Bank cities and in Federal Reserve branch cities, as at close of business on Fridays from Nov. 21 to Dec. 19, 1919-Contd.

1. ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT-Continued.
[In thousands of dollars; i. e., 000 omitted.]

|  | Boston. | New York. | Phila-delphia. | Cleveland. | Richmond. | Atlanta. | Chicago. | St. Louis. | Minneapolis. | $\begin{aligned} & \text { Kansas } \\ & \text { City. } \end{aligned}$ | Dallas. | San <br> Francisco. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash in vault: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 24,748 | 129,976 | 18,209 | 35, 848 | 18,634 | 13,704 | 71,261 | 11,527 | 9, 138 | 14,962 | 10,897 | 27, 142 | 386, 046 |
| Nov. 28 | 24,578 | 129,830 | 18, 333 | 32, 329 | 18, 589 | 14,707 | 70, 576 | 12, 380 | 9,174 | 15,506 | 12,096 | 26, 445 | 384, 543 |
| Dec. 5 | 26, 304 | 134, 733 | 19,232 | 36, 134 | 18, 271 | 13,835 | 71,528 | 12,502 | 10, 369 | 15,534 | 11,357 | 26, 188 | 395,987 |
| Dec. 12 | 26,520 | 132, 605 | 19,576 | 35, 632 | 17, 361 | 14,032 | 72,093 | 12,388 | 9, 101 | 16, 103 | 11,769 | 26,378 | 393, 558 |
| Dec. 19 | 28, 431 | 136,195 | 20,549 | 37,760 | 18,456 | 14,646 | 71,978 | 13, 054 | 9,137 | 15,110 | 10,798 | 27, 440 | 403, 554 |
| Net demand deposits on which reserve is computed: <br> Nov. 21 | 784,693 | 5, 109,451 | 668,080 |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 779,391 | 5, 121, 787 | 668,231 | 821,437 | 374,781 374,830 | 289,997 | 1, $4,380,803$ | 342, 442 | 259,087 | 467,785 | 234, 2392 | 588, 386 | 11, 343,085 |
| Dec. 5. | 788,991 | 5, 013,899 | 675, 676 | 824,759 | 364, 802 | 284, 149 | 1, 370,900 | 337, 534 | 247, 390 | 464,156 | 234, 319 | 597, 419 | 11,203,994 |
| Dec. 12 | 806, 688 | 5,099, 590 | 674,581 | 837, 166 | 371, 828 | 297,969 | 1, 415, 244 | 352, 307 | 244, 222 | 474,487 | 234, 160 | 596, 047 | 11, 404, 289 |
| Dec. 19. | 767,447 | 5, 066, 722 | 638,432 | 816, 544 | 360,777 | 302,283 | 1, 364,973 | 354,045 | 241,705 | 456,149 | 235, 769 | 590,239 | 11,195,085 |
| Time deposits: Nov. $21 . .$. | 124,312 | 427,627 | 22,393 | 323,879 | 96,782 | 119,052 | 543, 975 | 107, 590 | 59,083 | 83,099 | 33,290 | 347,104 | 2,288,186 |
| Nov. 28 | 126,501 | 419,076 | 22, 440 | 323, 239 | 96,794 | 118,743 | 548, 195 | 109, 459 | 87, 214 | 83, 531 | 33, 338 | 347,603 | 2,288,133 |
| Dec. 5. | 127,901 | 389, 174 | 22, 215 | 326,055 | 96, 859 | 120, 448 | 552, 175 | 111, 664 | 59, 642 | 83,254 | 30, 427 | 350, 864 | 2,270,678 |
| Dec. 12. | 128,964 | 393, 898 | 22, 234 | 326,453 | 96,687 | 120,172 | 553, 391 | 110,757 | 59,597 | 83, 692 | 35, 187 | 352, 641 | 2,283, 673 |
| Dec. 19.. | 128, 032 | 397, 768 | 22, 172 | 330, 219 | 96,900 | 119,729 | 555, 033 | 110,727 | 59,884 | 85, 612 | 35, 551 | 351,757 | 2,293,384 |
| Government deposits: Nov. $21 . . . . . . . . . . . . . . . . . . . . . ~$ | 15, 613 | 118.196 | 15, 338 | 17,887 | 7,497 | 3,144 | 24,009 | 4,473 | 5,740 | 6, 143 | 4,726 | 8,935 | 231,701 |
| Nov. 28 | 13,212 | 87, 281 | 11,366 | 14,516 | 6, 850 | 2,587 | 22, 056 | 3,516 | 5,245 | 6,215 | 4,178 | 6,031 | 183, 053 |
| Dec. 5 | 31,027 | 171,328 | 24, 528 | 30,845 | 15, 177 | 15, 773 | 52, 859 | 13, 037 | 11, 605 | 12,543 | 15, 132 | 21,209 | 415, 063 |
| Dec. 12. | 22,840 | 114, 606 | 17, 100 | 22, 211 | 10,851 | 14,304 | 38,427 | 10, 497 | 8,169 | 8,863 | 12,335 | 15,759 | 295,962 |
| Dec. 19.............. | 42,433 | 283, 506 | 41,199 | 53,701 | 15,829 | 24,663 | 67, 912 | 27, 102 | 9,992 | 15,229 | 34,890 | 31,442 | 647,898 |
| Bills payable with Federal Reserve Bank: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 35,808 | 507, 873 | 78, 472 | 98,784 | 48,940 | 48, 290 | 106,781 | 21,376 | 20,084 | 37,038 | 10,029 | 41,057 | 1,054, 532 |
| Nov. 28............... | 33, 573 | 553, 923 | 78,324 | 103,407 | 42,489 | 45,756 | 108,853 | 28, 426 | 21,310 | 35, 612 | 13,434 | 42,828 | 1,107,935 |
| Secured by United States war obliga-tions- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 17,259 | 465,735 | 80,647 | 89,481 | 46, 414 | 45,719 | 104,682 | 21,497 | 16, 400 | 28,301 | 13,950 | 50,101 | 980, 186 |
| Dec. 12. | 34, 880 | 458, 054 | 80,929 | 90, 959 | 52, 637 | 45, 240 | 94, 903 | 18,506 | 13,358 | 28,043 | 13, 175 | 41, 030 | 971, 714 |
| Dec. 19. | 43,761 | 339, 853 | 73,757 | 89, 923 | 50, 189 | 45,078 | 89, 767 | 25, 627 | 13,343 | 31, 549 | 9,770 | 28,751 | 841, 368 |
| All otherDec. 5. |  |  |  |  | 175 | 575 |  | 750 | 190 | 2,937 | 215 | 100 | 4,942 |
| Dec. 12 |  |  |  |  |  | 505 |  | 750 | 100 | 3,670 | 215 | 100 | 5,340 |
| Dec. 19. |  |  |  |  | 175 | 460 |  |  | 100 | 3,588 | 77 | 335 | 4,735 |
| Bills rediscounted with Federal Reserve Bank: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. $21 . .$. .......... | 84,435 | 217,733 | 93,903 | 37,073 | 17,844 | 35, 184 | 69,970 | 22,122 | 23,348 | 39,507 | 6,686 | 31,741 | 679,546 |
| Nov. $28 . . . . . . . . . . . . . . . . . ~$ | 91,094 | 235, 424 | 87, 853 | 40,526 | 19,999 | 33,448 | 78,195 | 21,654 | 25,103 | 38,081 | 6,505 | 27, 092 | 704,974 |
| Secured by United States war obliga-tions- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 50,334 | 146, 272 | 75, 302 | 9,287 | 10,201 | 2,977 | 9,672 | 5,065 | 2,458 | 5,248 | 83 | 3,271 | 320, 170 |
| Dec. 12 | 56,767 | 144, 443 | 76,730 | 9,677 | 10,252 | 3,150 | 7,865 | 4,290 | 2,128 | 4,187 | 73 | 2,642 | 322, 204 |
| All Dec. 19. | 54, 188 | 127, 784 | 78,696 | 9,271 | 10, 746 | 3,105 | 6,678 | 6,977 | 2,423 | 3,800 | 124 | 2,482 | 306, 274 |
| Dec. 5. | 34, 843 | 111,539 | 13,088 | 32,861 | 11,014 | 30,931 | 67,911 | 24,407 | 29,082 | 32,385 | 5,726 | 25,641 | 419,428 |
| Dec. 12. | 33, 185 | 135, 906 | 12,177 | 39,290 | 11, 551 | 28,192 | 86,624 | 24, 158 | 34,287 | 31, 612 | 4,852 | 19,765 | 461,599 |
| Dec. 19. | 42,961 | 131,529 | 24,283 | 38,083 | 14,388 | 26,870 | 89,917 | 18,458 | 39, 554 | 32,304 | 4,580 | 23, 110 | 486,037 |

2. MEMBER BANKS IN fEDERAL RESERVE BANK CITIES.

| Number of reporting banks: | 22 | 71 | 41 | 12 |  | 8 | 50 | 13 | 9 | 19 |  | 15 | 275 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nov. 28 | 22 | 71 | 41 | 12 | 9 | 8 | 50 | 13 | 9 | 20 | 6 | 15 | 276 |
| Dec. 5 | 22 | 71 | 41 | 12 | 9 | 8 | 50 | 13 | 9 | 20 | 6 | 15 | 276 |
| Dec. 12. | 22 | 71 | 41 | 12 | 9 | 8 | 50 | 13 | 9 | 20 | 6 | 15 | 276 |
| Dec. 19. | 22 | 71 | 41 | 12 | 9 | 8 | 50 | 13 | 9 | 20 | 6 | 15 | 276 |
| United States bonds to secure circulation: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21... | 3,606 | 39, 040 | 7,087 | 3,631 | 2,832 | 3,100 | 1,438 | 10,549 | 2,791 | 4,753 | 4,560 | 18,500 | 101, 887 |
| Nov. 28 | 3,606 | 39, 062 | 7,087 | 3,631 | 2, 832 | 3,100 | 1,438 | 10, 549 | 2,791 | 4,753 | 4,560 | 18,500 | 101,910 |
| Dec. 5 | 3,606 | 39,062 | 7,187 | 3,631 | 2,832 | 3,100 | 1,438 |  | 2,791 | 4,753 | 4,560 | 18,500 | 102,009 |
| Dec. 12 | 3,606 | 39, 190 | 7,087 | 3,631 | 2,832 | 3,100 | 1,438 | 10,548 | 2,791 | 4,753 | 4,560 | 18,500 | 102,036 |
| Dec. 19...ac.......... | 3;606 | 39, 190 | 7,087 | 3,631 | 2,832 | 3,100 | 1,439 | 10,548 | 2,791 | 4,753 | 4,560 | 18,500 | 102,037 |
| Other United States bonds, including Liberty bonds: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 6,918 | 253,264 | 22,367 | ${ }^{\mathbf{9}, 707}$ | 5,722 | 1,357 | 17,415 | 5,651 | 1,307 | 8,793 | 4,839 | 37,764 | 375,104 |
| Nov. ${ }^{28}$ | 6,454 7,130 | 245,014 | 22,918 | 9,687 989 | 5,729 5 5 | 1,363 <br> 1,393 | 18,966 | 6,016 5 5889 | 1,389 | 8,701 88 8 | 4,860 5,070 | 36,602 37,471 | 367,699 369,274 |
| Dec. 12. | 6,288 | 245,387 | 22, 219 | $\stackrel{9}{9,555}$ | 5,160 | 1,414 | 18,256 | $\stackrel{2,597}{5,916}$ | 1,598 | ${ }_{8,346}^{8,404}$ | 5 5,280 | ${ }_{36,296}$ | -365,715 |
| Dec. 19................... | 6,522 | 241, 147 | 22, 272 | 9,685 | 5,452 | 1,500 | 21,159 | 5,824 | 1,630 | 8,218 | 5,341 | 36, 657 | 365,407 |

Principal resources and liabilities of member banks in leading cities, including member banks located in Federal Reserve Bank cities and in Federal Reserve.branch cities, as at close of business on Fridays from Nov. 21 to Dec. 19, 1919—Contd. 2. MEMBER BANKS IN FEDERAL RESERVE BANK CITIES-Continued. [In thousands of dollars; i. $0 ., 000$ omitted.]

|  | $\begin{aligned} & \text { Bos- } \\ & \text { ton } \end{aligned}$ | New York. | Phila-delphia. | Cleveland. | Richmond. | $\begin{gathered} \text { At- } \\ \text { lanta. } \end{gathered}$ | Chicago. | $\begin{aligned} & \text { St. } \\ & \text { Louis. } \end{aligned}$ | Minneapolis. | Kansas City. | Dallas. | $\begin{gathered} \text { San } \\ \text { Fran- } \\ \text { cisco. } \end{gathered}$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United notes: States Victory |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 1,038 | 104,751 | 10,134 | 6,712 | 782 | 828 | 24,326 | 2,503 | 1,001 | 4,657 | 1,384 | 5,952 | 164,068 |
| Nov |  | 97,78 | 10,454 | 6,639 | 753 | 793 |  | 2,305 | 772 | 4,511 |  | 6,396 | 155,776 |
| Dec. 5 | 1,012 | ${ }^{93}$, 183 | 9,793 | 6,268 | 756 | 747 | 22, 244 | 2,132 3 2 | 921 | 4,364 | 1,001 | 6,191 | 148, 612 |
| Dec. 12 |  | 90,903 | $\xrightarrow{9,485}$ | 6,053 5,465 | 687 607 | ${ }_{723}^{724}$ | 21,213 20,490 | 2,000 2,144 | 630 259 | 4,017 3,779 | 8865 | 6,180 7,882 | 143, 814 |
|  | 953 | 84, 287 | 8,928 | 5,465 | 607 | 723 | 20,490 | 2,144 | 259 | 3,779 | 865 | 7,882 | 136,382 |
| indebtedness: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 17,271 | 364, 330 | ${ }^{33,783}$ | 12,368 | 935 | 113,517 | 59, 320 | 9,832 | 8, 302 | 4, 952 | 2,845 | 22, ${ }^{2688}$ | 50,523 |
| Nov. |  | 356,427 338,423 | 33,680 44,464 | 12,112 | 1,107 | 18, 139 | 59,347 61,575 | 11,464 | 7,038 | 5,179 | 7,153 |  |  |
| Dec. 12 | 30,455 | 305, 172 | 39,349 | 16,610 | 1,157 | 17,889 | 52,539 | 10,553 | 6,013 | 4,982 | 6,236 | 25,441 |  |
| Dec. 19 | 31,706 | 311, 191 | 54, 123 | 16,355 | 1,690 | 17,775 | 51,572 | 20,304 | 6, 176 | 5,667 | 23,004 | 23,383 | 562,946 |
| Totalunited States securi- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ties owned: | 28, |  | 73, 371 | 32,418 | 10,271 | 18,802 | 102,499 | 28,535 | 13,401 | 23,155 | 13,628 | 85,084 |  |
| Nov. 28 | 35,180 | 738, 285 | 74, 139 | 32,069 | 10,249 | 16,998 | 102, 855 | 27, 128 | 12,142 | 22,289 | 14,314 | 84,675 | 1, 170,323 |
| Dec. 5. | 42,070 | 716,585 | 84, 270 | 37,069 | 10,408 | 23,379 | 103, 496 | 30,042 | 12, 205 | 22,700 | 17,784 | 87, 334 | 1,187,542 |
| Dec. 12 | 41, 302 | 680, 658 | 78,140 9,410 | 35,849 35,136 | $\xrightarrow{9,836}$ | ${ }_{23,127}^{23,}$ | 93,446 94,660 | 29,017 38,820 | 11,032 10,856 | 22,098 | 17,045 33,770 | -86,417 | 1,127,961 |
|  | 42,787 | 675,815 | 92,410 |  |  |  | 94, 060 |  |  |  |  |  | 166,772 |
| States bonds, Victory notes, and certificates: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. $21 .$. | 27,170 | 523,662 | 111,3 | 26, 239 | 13,918 | 6,084 | 70,2 | 21,4 | 8,072 | 6,002 | 1,120 | 15,966 | 831,341 |
| Nov. 28 | 27,227 | 513,729 | 111, 380 | 27,762 | 14,080 | 6,132 | 89,333 | 21,479 | 8,102 | 5,907 | 1,150 | 16,813 | 823,094 |
| Dec. 5. | 29,061 | 498,373 | 101,346 | 25,493 | 14,050 | 6,263 | 68,981 | 21,701 | 8,480 | 6,086 | 1,710 | 17,298 | 798,849 |
| Dec. 12. | 26,053 | 498,321 | 99,837 | 25,460 | 13,974 | 6,221 | ${ }^{66,672}$ | 21,302 | 8,254 | 6,024 | 2,033 | 17,284 | 791, 435 |
| Dec. 19. | 29,508 | 493,081 | 99, 283 | 25,400 | 14,056 | 6,365 | 66, 258 | 22, 211 | 8,282 | 6,077 | 2,057 | 18,545 | 791,123 |
| Loans secured by stocks and bonds, other than |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. | 163,98 | 1,286,05 | 195 | 124 | 20 | 6,166 | 373,091 | 119, | 14,270 | 32, 133 | 9,591 | 65,039 | ,410,367 |
| Nov. 28 | 155,8 | 1,289, 057 | 191,371 | 126, 110 | 19,171 | 6,757 | 373,497 | 122,334 | 14,342 | 32,589 | 9,657 | 63,410 | 2,404, 149 |
| Dec. 5 | 153,931 | 1,256, 169 | 192,188 | 128,854 | 19,076 | 6,779 | 369,595 | 121,550 | 14,390 | 33,005 | 9,592 | 62,760 | 2,367,889 |
| Dec. 12 | 156, 483 | 1,292, 134 | 196,729 | 127,772 | 19,356 | 6,597 | 373,488 | 123,136 | 14,490 | 32,673 | 9,552 | 62,347 | 2,414,757 |
| Dec. 19 | 152, 420 | 1,322, 228 | 183,027 | 132,372 | 19,360 | 7,306 | 371,480 | 127,176 | 14,608 | 32,591 | 9,785 | 62,303 | 2,434,656 |
| All other loans and investments: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 460, | 2,915,897 | 418,315 | 221,379 | 67,228 | 54,762 | 783,081 | 179,850 | 118,542 | 164,570 | 51, 127 | 383, 952 | 5,799,578 |
| Nov. 2 | 445, 884 | 2, 922,637 | 425, 318 | 221,067 | 86,578 | 52, 831 | 764,808 | 180, 641 | 118,789 | 167, 487 |  | 396,192 | 5, 818, 367 |
| Dec. 5 | 448,543 | 2,903, 600 | 416, 603 | 224,885 | 68,351. | 53,538 | 770, 445 | 182,287 | 117,988 | 169, 755 | 51,087 | 393,845 | 5,800, 927 |
| Dec. 12 | 459,590 | 2,922,88 | 421,791 | 228,050 | 87,975 | 56,057 | 782, 600 | 186,011 | 114, 069 | 160,730 | 51,495 | 391, 590 | 5,842, 846 |
| Dee. 19 | 463,596 | 2,982,667 | 421,083 | 222,295 | 67,369 | 54, 974 | 788,779 | 181,494 | 111, 777 | 168,722 | 51,884 | 402,366 | 5,917,006 |
| atal loans |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 2ents: } \\ & \text { Nov. } \end{aligned}$ | 680 | [5,487,201 | 798 | 404 | 111,673 | 85, 814 | 1, 308,922 | 349,705 | 154,285 | 225,860 | 75,466 | 550,041 | 10,232, 868 |
| Nov. 28 | 664,145 | 5, 467, 708 | 802, 208 | 407,008 | 110,078 | 82, 718 | $1,310,493$ | 351, 582 | 153, 375 | 228, 252 | 77, 276 | 561,090 | 0, 215 , 933 |
| Dec. | 373,60 | 5, 374, 727 | 794, 407 | 416,301 | 111,885 | 89,959 | 1,312,524 | 355, 580 | 153,063 | 231,546 | 80, 173 | 561, 437 | 10, 155, 207 |
| Dec. 12 | 883,428 | 5,393,995 | 796,497 | 417,131 | 111, 141 | 92,002 | 1,316, 206 | 359, 466 | 147, 845 | 221, 5 |  | 557, 383 | 10,176,999 |
| Dec. 19 | 688,311 | 5, 473, 791 | 795, 803 | 415, 203 | 111, 368 | 91, 743 | 1,321,177 | 369,701 | 145, 523 | 229,807 | 97,496 | 569, 636 | 10, 309,557 |
| Reserve balances with Fed- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { leral Reser } \\ & \text { Nov. } 21 . \end{aligned}$ | 63,7 | 652,03 | 59,321 | 25,553 | 7,312 | 7,132 | 130, 271 | 32,142 | 13,899 | 19,458 | 7,104 | 36,080 | 1,054,080 |
| Nov. 28 | 57,692 | 682,727 | 54,241 | 26,562 | 8,909 | 6,964 | 126, 836 | 32,829 | 12,938 | 17,908 | 7,306 | 34,506 | 1,069,418 |
| Dec. 5 | 65, 147 | 655,473 | 60,618 | 25,475 | 6,933 | 5,198 | 129, 277 | 33, 158 | 9,711 | 20,307 | 8, 111 | 37,252 | 1,056, 680 |
| Dec. 12 | 69,527 | 637,966 | 54, 861 | 24,960 | 8,693 | 7,800 | 132, 118 | ${ }_{29,181}^{33,}$ | 11,732 | 14,817 | 6,894 | ${ }_{32,654}^{33,520}$ | 1,036, 069 |
| Dec. 19. | 62,894 | 592,798 | 57, 597 | 24,787 | 6,262 | 6,182 | 129,821 | 29,550 | 9,322 | 8,699 | 7,604 | 32,654 | 968,170 |
| Cash in vaul Nov. 21. | 15, | 116 |  |  |  |  |  | 6,009 | 2,883 | 4,289 | 2,027 | 10,264 | 226, 261 |
| Nov. 28 | 15, 324 | 115,907 | 14,357 | 8,162 | 2,042 | 2,314 | 41,011 | 6, 421 | 2,926 | 4,134 | 2,025 | 9,640 | 224, 263 |
| Dec. 5. | 16, 771 | 119, 883 | 14,788 | 8,653 | 1,667 | 2,368 | 42, 737 | ${ }_{6}^{6,502}$ | 2,981 | 4,043 |  |  |  |
| Dec. 12................. | 16,417 18,450 | 118,772 122,080 | 15,650 16,304 | 9,127 8,921 | 1,665 2,005 | 2,430 2,585 | 42,917 43,480 |  | 2,981 2,880 | 4,261 | 2, ${ }^{2}, 108$ | 10,196 | 233,583 240,351 |
| Dec. 19. <br> Net demand deposits on | 18,450 | 122,080 | 16,304 | 8,921 | 2,005 | 2,585 | 43,480 | 7,321 | 2,880 | 4,021 | 2,108 | 10,196 | 240,351 |
| which reserve is computed: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 607,183 | 4, 673,083 | 582, 205 | 213,856 | 74,343 | 51,781 | 958, 691 | 241,000 | 111, 656 | 170, 267 | 65,941 | 270,606 | 8,020,612 |
| Nov. | 601,285 | 4, 685,335 | 580, 308 | 215,718 | 76,016 | 51,079 | 944, 695 | 237, 133 | 110,678 | 179, 178 | 64, 838 | 286, 401 | 8,022,764 |
| Dec. 5 | 611,773 | 4, 575, 000 | 589, 966 | ${ }^{213,662}$ | 70, 977 | 48,389 | 944, 723 | 235,157 | 108, 991 | ${ }_{174}^{175,345}$ | 62, 64 | 271, 592 | 8,9182,022 |
| Dec. 12 | ${ }^{623,175}$ | 4, 659, 045 | 588, 169 | 217,088 | 72,969 | - ${ }^{51,788}$ | 955, 935,975 |  |  |  |  |  |  |
| Dec. 19 | 591,603 | 4,624,791 | 552, 165 | 206,886 | 67,374 | 49,677 | 935,975 | 244,131 | 105, 716 | 163, 203 | 65, 315 | 270,058 | 7,876,844 |
| Nov. 21. | 36,957 | 344, 855 | 13,762 | 157,542 | 19,525 | 18,537 | 246, 819 | 66, 819 | 21,540 | 11, 715 | 3,652 | 201, 955 | 1,143,678 |
| Nov. 28 | 39,000 | 336,312 | 13,716 | 157, 297 | 19, 623 | 18,633 | $\xrightarrow{249}$ 20,201 | 68,463 | 21,557 |  | 3,565 <br> 3,607 |  |  |
| Dec. 5 | 39,798 | 305,433 310 |  | ${ }_{160}^{159} 371$ |  |  |  |  | [1,699 | 10,061 10,091 | 3,607 3,563 | ${ }^{204,311}$ | 1,116, ${ }^{1}$, 1256 |
| Dec. 12 | 40,652 40,276 | 310,148 313,749 | 13,517 13,455 | 160,301 166,298 | 19,656 19,604 | 19,024 18,070 | 251,940 253,695 | 68,333 68,372 | 21, 2126 | 12, 129 | 3,563 3,546 | 205, 704 | 1,136, 409 |
| Government depo |  |  |  |  |  |  |  | 3,916 | 1,725 | 3,094 | 3,040 | 5,251 | 186,644 |
| Nov. 21 | 11, 597 | 115,807 85,157 | $\xrightarrow{13,889}$ | 6,698 | 1,657 | 895 | 16,961 | 3,043 | 1,418 | 2,992 | 2,619 | 3,063 | 143, 799 |
| Dec. 5 | 21, 609 | ${ }^{163,046}$ | 22, 812 | 14, 742 | 2,453 | 7,501 | 31, 925 | 11, 555 | 3,820 | 6,547 | 10,579 | 13, 328 | 309,917 |
| Dec. 12 | 15, 492 | 107,797 | 16,257 | 10,373 | 1,293 | 7,120 | 21,155 | 9,324 | 2, 273 | 5,024 6,768 | 8,987 28,520 | 10,141 | 215, 50198 |
| Dec. 19. | 30,343 | 271,499 | 139,60 | 18,297 | 2,300 | 7,222 | 45,798 | 24,183 | 3,196 | 6,768 | 28,520 | 23,912 | 501,198 |

Principal resources and liabilities of member banks in leading cities, including member banks located in Federal Reserve Bank cities and in Federal Reserve branch cities, as at close of business on Fridays from Nov. 21 to Dec. 19, 1919-Contd. 2. MEMBER BANKS IN FEDERAL RESERVE BANK CITIES-Continued.
[In thousands of dollars; i. e., 000 omitted.]

|  | $\begin{aligned} & \text { Bos- } \\ & \text { ton. } \end{aligned}$ | New | Phila-delphia. | Cleveland. | Richmond | At- | Chicago. | St. <br> Louis. | Minneapolis. | Kansas | Dallas. | San cisco. | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bills payable with Federal |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. $21 . . .$. | 28,833 | 451,119 | 71,892 | 19,923 | 7,250 | 8,357 | 50,691 | 12,662 | 7,714 | 14,074 |  | 22,492 |  |
| Nov. 28. | 26, 673 | 497, 404 | 71,799 | 19,470 | 5,399 | 5,730 | 54,119 | 19,307 | 7,591 | 13,169 | 3,600 | 23,057 | 747,318 |
| Secured by United States war obliga-tions- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec. $5 .$. | 12,224 | 416,234 | 73,774 | 19,240 | 7,222 | 7,775 | 49,959 | 12,860 | 4,884 | 10,663 | 3,925 | 28,720 | 647, 480 |
| Dec. 12. | 27,188 | 415,060 | 74,958 | 20,900 | 8,082 | 8,835 | 43,041 | 11,368 | 3,954 | 10,905 | 2,615 | 21,526 | 648, 441 |
| ${ }^{\text {Dec. } 19 .}$ | 36,180 | 298, 806 | 69,684 | 23,595 | 9,704 | 9,110 | 45,962 | 18, 129 | 4,097 | 12, 251 | 1,500 | 15,673 | 544,691 |
| All other-- |  |  |  |  |  |  |  | 750 |  |  |  |  | 750 |
| Dec. 12. |  |  |  |  |  |  |  | 750 |  |  |  |  | 750 |
| Dec. 19.. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bills rediscounted with |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Federal Reserve Bank: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nov. $21 . . . . . . . .$. | 75,024 | 203,256 | 92, 499 | 23,346 | 3,077 | 1,607 | 54,671 | 6,385 | 19,068 | 17,897 | 2,552 | 23,975 | 523, 357 |
|  | 81,626 | 218,202 | 86,513 | 26,032 | 3,128 | 1,498 | 62,957 | 5,505 | 20,178 | 19, 299 | 2,302 | 19,119 | 546,859 |
| Secured by United States war obliga- |  |  |  |  |  |  |  |  |  |  |  |  |  |
| tions- ${ }_{\text {Dec. }} 5$ | 42,270 | 140,348 |  | 4,674 | 2,842 | 429 | 5,030 | 1,628 | 2,228 | 1,827 | 75 | 1,488 |  |
| Dec. 12. | 48,986 | 138, 605 | 76,730 | 4,518 | 2,895 | 615 | 3,447 | 1,629 | 2,020 | 1,624 | 65 | 1, 1,328 | 278, 462 |
| Dec. 19. | 45,321 | 122,446 | 78,696 | 3,959 | 2,813 | 615 | 2,467 | 3,526 | 2,289 | 1,344 | 33 | 1,596 | 265, 105 |
| ${ }^{\text {A }}$ Dec. 5. | 33,122 | 100,378 | 11,460 |  | 143 | 1,620 | 57,147 | 10,082 |  | 14,937 | 2,332 |  |  |
| Dec. 12 | 31,589 | 124, 155 | 10,872 | 24,971 | 103 | 1,450 | 75,131 | 10,835 | 26,281 | 13,778 | 1,811 | 14,162 | 335, 138 |
| Dec. 19. | 40,657 | 122,882 | 23,866 | 27,701 | 1,180 | 2,391 | 75,874 | 8, 290 | 31,063 | 13,967 | 1,588 | 16,318 | 365,977 |

3. MEMBER BANKS IN FEDERAL RESERVE BRANCH CITIES.

|  | $\begin{gathered} \text { New } \\ \text { York } \\ \text { District. } \end{gathered}$ | $\begin{gathered} \text { Cleve- } \\ \text { land } \\ \text { District. } \end{gathered}$ | $\begin{gathered} \text { Rich- } \\ \text { mond } \\ \text { District. } \end{gathered}$ | Atlanta District. | Chicago District. ${ }^{5}$ | St. Louis District. ${ }^{-1}$ | Kansas City District. | Dallas District. ${ }^{6}$ | $\left\lvert\, \begin{array}{\|c\|} \text { San Fran } \\ \text { cisco } \\ \text { District. } \end{array}\right.$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of reporting banks: |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 9 | 38 | 19 | ${ }_{24}^{24}$ | 12 | 18 | 17 | 11 | 30 | 178 |
| Dec | 9 | 38 | 19 | 24 | 12 | 18 | 17 | 11 | 30 | 178 |
| Dec. 12. | 9 | 38 | 19 | 24 | 12 | 18 | 17 | 11 | 30 | 178 |
| Dec. 19. | 9 | 38 | 19 | 24 | 12 | 18 | 17 | 11 | 30 | 178 |
| United States bonds to secure circulation: Nov.21............................ | 1,599 | 24,897 | 5,583 | 6,915 | 1,870 | 5,255 | 4,487 |  |  |  |
| Nov.28.................................. | 1,599 | 24,897 | 5,583 | 6,915 | 1,870 | 5,255 | 4,487 | 7,108 | 8,485 | 66,199 |
| Dec. 5. | 1,599 | 24,897 | 5,583 | 6,915 | 1,870 | 5,255 | 4,487 | 7,108 | 8,699 | 66,413 |
| Dec. 12 | 1,599 | 24, 897 | 5,583 | 6,915 | 1,870 | 5,255 | 4,487 | 7,108 | 8,897 | 66,611 |
| Other United States bonds, includingLiberty bonds: |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov.21.. | 7,308 | 40, 114 | 9, 055 | 22,494 | 16,298 | 7,401 | 6,518 | 7,706 | 14,135 | 131,029 |
| Nov. 2 | 7,161 | 40, 285 | 9, 125 | 23,312 | 16,292 | 7,585 | 6,542 | 7,833 | 14,406 | 132, 541 |
| Dec. 5 | 7,233 | 40,311 | 9, 170 | ${ }_{23,211}^{23,}$ | 16,254 | 7,327 | 7,122 | 7,848 | 14, 189 | 132, 557 |
| Dec. 12 | 7,181 | 41.383 | 9,170 | 23, 203 | 16,527 | 8,033 | 7,411 | 7,950 | 13,880 | 134,738 |
| Dec. $19 . . . . . . . . . . . . . . . . . . . . .$. | 7,382 | 41,211 | 9,326 | 22,630 | 14,533 | 7,964 | 7,704 | 7,905 | 14,699 | 133,354 |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 4,390 | 16,081 | 3,911 | 6,659 | 14, 14.52 | 3,239 | 1, 1,203 | 1,487 | 4,287 | 55, 899 |
| Dec. 5 | 4,283 | 15,946 | 3,941 | 6,579 | 14,547 | 3,276 | 1.199 | 1,469 | 4,004 | 55,244 |
| Dec. 12 | 4,202 | 16,826 | 3,899 | 6,438 | 14,527 | 3,213 | 1,185 | 1,487 | 4,316 | 56, 093 |
| Dec. 19.............................. | 3,714 | 16,500 | 3,882 | 5,848 | 14,478 | 3,236 | 1,058 | 1,558 | 4,555 | 54, 829 |
| United States ertificates ofindebtedness: |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 11,727 | 44,655 | 10,754 | 14,571 | 37, 526 | 2,788 | 8,153 | 8,044 | 22,418 | 160,676 |
| Dec. 5 | 11,099 | 40, 103 | 15,946 | 16,586 | 48,740 | 2,233 | 6,352 | 9,184 | 24,663 | 174,906 |
| Dec. 12 | 7,861 | 33,419 | 16,020 | 15,097 | 49,129 | 2,359 | 6,484 | 9,434 | 24,221 | 164,024 |
| Dec. 19.1 | 8,567 | 40,631 | 16,518 | 19,125 | 48,025 | 2,719 | 9,191 | 7,002 | 21, 128 | 172,906 |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. $\mathrm{Nov.21.............}$. | 25,000 24,877 | 127,304 125,918 | 29,333 <br> 29,373 |  |  |  |  | 24,022 24,502 | 49,014 49,596 | 415,149 |
| Nov. ${ }^{\text {Dec. } 5 .}$ | 24,877 24,214 | 125,918 121,257 |  | 51,457 53,291 | 70,340 81,411 | 18,867 | 20,385 19,160 | 24,502 25,609 | 49,596 51,555 | 415,315 429,120 |
| Dec. 12 | 20,843 | 116,525 | 34,672 | 51,653 | 82,053 | 18, 860 | 19,567 | 25,979 | 51,314 | 421,486 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | 7,203 | 54, 671 | 9,698 | 13,329 | 11,481 | 7,335 | 9,643 | 2,059 | 6,682 | 122,101 |
| Nov. 28 | 6,291 | 54, 376 | 9,563 | 13,255 | 10, 889 | 7,682 | 9,542 | 1,969 | 7,103 | 120,770 |
| Dec. 5. | 6,471 | 53,206 52 5185 | 9,449 9,171 | 13,101 <br> 12 <br> 1209 | 10,996 | 7,898 8,073 | ${ }_{9,606}^{9,648}$ | 1,966 1,960 | 7,254 | 119,947 |
| Dec. 12. | 6, $\mathbf{6 , 2 6 8}$ | 52,185 54,068 | 9,171 9,449 | 12,009 12,734 | 10,724 10,660 | 8,073 | 9,648 9,790 | 1,980 1,951 | 7,396 7,323 | 118,445 120,287 |

Principal resources and liabilities of member banks in leading cities, including member banks located in Frederal Reserve Bankcities and in Federal Reserve branch cities, as at close of business on Fridays from Nov. 21 to Dec. 19, 1919-Contd.
3. MEMBER BANKS IN FEDERAL RESERVE BKANCH CLTIES-Continuod.
[In thousands of dollars; i. e., 000 omitted.]

|  | $\begin{gathered} \text { New } \\ \text { York } \\ \text { District. } \end{gathered}$ | $\begin{gathered} \text { Cleve- } \\ \text { land } \\ \text { District. } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { Rich- } \\ \text { mond } \\ \text { istrict. } \end{gathered}\right.$ | Atlanta District. | Chicago District. ${ }^{6}$ | St. Louis District. | Kansas City District.? | Dallas District. | $\begin{gathered} \text { San Fran- } \\ \text { cisco } \\ \text { istrict. } \end{gathered}$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Loans secured by stocks and bonds, other than United States securities: |  |  |  |  |  |  |  |  |  |  |
| Nov. 21 | 40,734 | 159,381 | 33,509 | 32,038 | 48,087 | 26,655 | 20,749 | 13,553 | 33,907 | 408,613 |
| Nov. 28 | 40,411 | 161, 878 | 34, 946 | 31,790 | 48,330 | 26,013 | 21,294 | 13, 239 | 36,732 | 414, 633 |
| Dec. 5. | 40,231 39,843 | 160,864 <br> 162,825 | 35,089 34,695 | 33,012 33,687 | 49,077 <br> 49 <br> 49 | 27,486 28,214 | 20,844 20,951 21 | 13, 406 | 37,219 <br> 38 <br> 1890 | 417,228 |
| Dec. 12. | 39,843 39,560 | 162,825 159,342 | 34,695 34,527 | 33,687 34,176 | 49,539 50,192 | 28,214 28,965 | 20,951 21,450 | -12,994 | 38,090 36,315 | $\begin{aligned} & 420,838 \\ & 417,820 \end{aligned}$ |
|  |  |  |  |  |  | 100,081 | 155,312 |  |  |  |
| Nov. 28 | 122, 405 | 410, 447 | 98, 473 | 200, 876 | 278, 933 | 103, 495 | 155, 120 | 65,575 | 231, 222 | 1, ${ }^{6667,746}$ |
| Dec. 5 | 124,430 | 412, 485 | 96, 780 | 207,358 | 282, 265 | 105,473 | 154, 724 | 68, 165 | 228, 639 | 1,680, 319 |
| Dec. 12 | 120,878 | 415,328 | 99,628 | 214,242 | 284, 798 | 107,507 | 153,286 | 66,154 | 228,310 | 1,690, 131 |
| Dec. 19. | 120, 699 | 418, 439 | 99, 393 | 218, 968 | 288,943 | 108,391 | 148,959 | 65,098 | 230,042 | 1,698,932 |
| Total loans and investments: <br> Nov. 21 | 192,896 | 751,076 | 174,475 | 303, 856 | 407,413 | 153,152 | 205,906 | 103,477 | 321,058 | 2,613,309 |
| Nov. 28. | 193, 984 | 752, 619 | 172, 355 | 297, 378 | 408, 592 | 156,057 | 206, 341 | 105, 285 | 324, 853 | 2,617,464 |
| Dec. 5 | 195,346 | 747,812 | 175, 850 | 306,762 | 423,749 | 158,948 | 204,334 | 109, 146 | 324, 667 | 2,646,614 |
| Dec. 12 | 187,943 | 746,863 | 178, 166 | 312,491 | 427, 114 | 162,654 | 203, 452 | 107,087 | 325, 110 | 2,650,880 |
|  | 187,789 | 755, 088 | 178, 678 | 320,390 | 428,701 | 164,554 | 202,389 | 103,915 | 322,547 | 2,864,057 |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 21. | 12,330 | 50, 976 | 12,391 | 18,920 | 28,348 | 10,278 | 17,231 | 7,913 | 23,778 | 182, 165 |
| Nov. 28 | 11, 256 | 47, 192 | 11,899 | 18,896 | 28,372 | 9,698 | 12,124 | 7,634 | 24,167 | 171,238 |
| Dec. 5 | 13,880 | 48,236 | 12,260 | 18,610 | 26,468 | 10,450 | 14,072 | 7,647 | ${ }^{26,602}$ | 178, 225 |
| Dec. 12 | 12, 260 | 48,861 | 12,669 | 21,338 | 32, 436 | 9,346 | 15,893 | 8,451 | 25, 198 | 186,452 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28. | 2,862 | 14,689 | 5,204 | 8,073 | 15,033 | 5,272 | 5,240 | 3,123 | 7,783 | 67, 279 |
| Dec. 5 | 3,001 | 17,332 | 5,450 | 7,476 | 14,280 | 5,226 | 5,114 | 2,943 | 7,406 | 68, 228 |
| Dec. 12 | 3,169 | 15,967 | 5,187 | 7,414 | 14,150 | 4,859 | 5,238 | 3,095 | 7,222 | 66, 301 |
| Dec. 19 | 3,423 | 17,554 | 5,561 | 8,106 | 13, 971 | 4,881 | 5,065 | 3,005 | 7,842 | 69,408 |
| Net demand deposits on which reserve is computed: |  |  |  |  |  |  |  |  |  |  |
| Nov. $21 . . .1$. | 128, ${ }^{128} 22$ | ${ }_{439}^{446} \mathbf{9 7 1}$ | 107, 1089 | 182, 1786 | ${ }_{215}^{211,031}$ | ${ }_{91}^{91,258}$ | 139,610 <br> 139,656 <br> 3, | 68,749 70 7046 | 196, 7131 | 1,572,385 |
| Dec. 5 | 127, 430 | 443, 806 | 105,490 | 180, 883 | 206, 416 | 92, 182 | 133, 530 | 71, 210 | 198, 878 | 1, $1,599,823$ |
| Dec. 12. | 120,925 | 447, 133 | 108,041 | 187,488 | 235, 085 | 95,966 | 138, 450 | 87,000 | 202, 525 | 1, 6006,613 |
| Dec. 19 | 126, 029 | 440, 108 | 106,964 | 194, 091 | 207,616 | 99,399 | 134, 171 | 68,213 | 198,854 | 1, 575,445 |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 31,261 | 95,316 | 19,591 | ${ }_{64}^{64,989}$ | 192, 334 | 33,610 | 41, 692 | 17, 298 | 105, 807 | 601, 898 |
| Dec. 5. | 31,283 | 96, 109 | 19,621 | 65, 177 | 193, 850 | 35, 539 | 42,369 | 13,528 | 106, 803 | 604, 279 |
| Dec. 12 | 31,581 | 95, 716 | 19,176 | 65, 859 | 193, 936 | 35,042 | 42, 905 | 17,526 | 105,771 | 607,512 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28 | 331 | 5,904 | 3,033 | 1,739 | 1,493 | 465 | 1,585 | 561 | 1,810 | 16,921 |
| Dec. 5. | ${ }^{2}, 786$ | 10, 212 | 7,938 | 7,851 | 12,951 | 1,477 | 2,929 | 2,225 | 3,929 | 52, 298 |
| Dec. 12 | 2,572 | 7,342 | 6,026 | 6,860 | 12,087 | 1,173 | 2,004 | 1,662 | 2,614 | 42,340 |
| Bills payable with Federal Keserve Bank: |  |  |  |  | 12,087 | 2,919 | 4,562 | 3,282 | 4,374 | 81,094 |
|  |  |  |  |  |  |  |  |  |  |  |
| Nov. 28......... | 23,218 | 78, 766 | 15, 601 | 34,029 | 27,399 | 8,399 | 14,605 | 8,299 | 14,901 | 225, 217 |
| Secured by United States war obli-gations- |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 21,474 | ${ }^{66,056}$ | 19,695 | 32,400 | 31,458 | 8,021 | 10,592 | 8,890 | 16,606 | 215, 192 |
| Dec. 12 | 16,799 | 66,472 62,239 | - ${ }_{19}^{21,945}$ |  | - ${ }_{24,716}$ |  | 10,498 12,407 | $\begin{array}{r}\mathbf{9}, 675 \\ \hline\end{array}$ | 14, 764 | ${ }_{193}^{208,129}$ |
| All Dec. 19 | 19,292 | 62, 239 | 19,216 | 30,515 | 24,716 | 7,068 | 12, 407 | 7,480 | 10,503 | 193,436 |
| Dec. 5. |  |  |  | 200 |  |  | 2,737 | 215 | 100 | 3,252 |
| Dec. 12 |  |  |  | 200 |  |  | 3,570 | 215 | 100 | 4,085 |
| Dec. 19 |  |  |  | 15 |  |  | 3,588 | 77 | 335 | 4,015 |
| Bills rediscounted with Federal Reserve Bank: |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Secured by United States war obli-gations- |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Dec. 5. | 2,228 | 3,245 | 5,545 | 1,492 | 2,024 | 2, 891 | 2,582 | 8 | 1,376 | 21,391 |
| Dec. 12 | 2,147 | 3,887 | 5,451 | 1,478 | 1,718 | 2,344 | 1,915 | 8 | 1,105 | 20,033 |
| All Dether-19 | 2,360 | 4,204 | 5,650 | 1,588 | 1,700 | 2,970 | 1,778 | 91 | 771 | 21,112 |
|  |  |  |  |  |  |  |  |  | 4,320 | 76, 856 |
| Dec. 12 | 2,793 | 9,912 | 8,988 | 22, 529 | 1,040 | 12,356 | 11, 264 | 2,237 | 4,074 | 75, 184 |
| Dec. 19 | 816 | 6,642 | 10, 239 | 20,626 | 1,685 | 9,168 | 11,250 | 2,339 | 5,550 | 68,315 |

[^7]${ }^{8}$ Louisville, Memphis, and Little Rock.
7 Omaha and Denver.
${ }^{9}$ Spokane, Portland, Seattle, and Salt Lake City.

## IMPORTS AND EXPORTS OF GOLD AND SILVER.

Gold imports into and exports from the United States.
[In thousands of dollars, i. e., 000 omitted.]

|  | During 10 days ending Nov. 20, 1919. | During 10 days ending Nov. 30, 1919. | During 10 days ending Dec.10, 1919. | $\begin{aligned} & \text { From Jan. } 1 \\ & \text { to Dec. } 10, \\ & 1919 . \end{aligned}$ | $\begin{aligned} & \text { From Jan. } \\ & \text { to Dee.:10, } \\ & 1918 \text {. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| imports. |  |  |  |  |  |
| Ore and base bullion. | 461 | 195 | 549 | 15,714 | 14,846 |
| United States mint or assay office bars. |  |  |  |  |  |
| Unuliten, refined.... | 251 | ${ }_{3}^{535}$ | ${ }_{9}^{39}$ | 32,391 | 39,246 |
| United States coin. |  | 3 | 21 | 10,766 | 6,785 |
| Foreign coin..... |  |  | 2,500 | 7,858 | 183 |
| Total. | 712 | 733 | 3,109 | 66,729 | 61,066 |
| Domestic: EXPORTS. |  |  |  |  |  |
| Ore and base bullion. . . . . . |  |  |  | 20 | 204 |
| United States mint or assay office bars | 10,019 |  | 3,300 | 105,869 |  |
| Bullion, refined......... |  |  | , 4 | 12,625 | 3,399 |
| Coin. | 8,397 | 12,865 | 20,743 | 226,949 | 31,187 |
| Total <br> Foreign coin... | 18, 421 | 15, 150 | 24,047 87 | $\begin{array}{r} 345,463 \\ 599 \end{array}$ | 39,275 426 |
| Total exports. | 18,436 | 15,228 | 24,134 | 346,062 | 39,701 |

Excess of gold exports over imports since Jan. 1, 1919, \$279,333,000. Excess of gold imports over exports since Aug. 1, 1914, \$792,073,000.

> Silver imports into and exports from the United States.
[In thousands of dollars; i. e., 000 omitted.]

|  | During 10 days ending Nov. 20, 1919. | During 10 days ending Nov. 30, 1919. | During 10 days ending Dec. 10, 1919. | $\begin{aligned} & \text { From Jan. } 1, \\ & \text { to Dec. 10, } \\ & \text { 1919. } \end{aligned}$ | $\begin{aligned} & \text { From Jan. } 1 \\ & \text { to Dec, 10, } \\ & \text { 1918. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| IMPORTS. |  |  |  |  |  |
| Ore and base bullion.. | 1,865 | 2,147 | 2,280 | 68,365 | 42,335 |
| United States mint or assay office bars.......................... | 244 | 212 |  |  | 51 $\mathbf{2 0 , 4 3 6}$ |
| United States coin....... | 19 | 21 | ${ }_{99}$ | 1,007 | ${ }_{1}{ }_{1} 239$ |
| Foreign Coin......... | 32 | 563 | 6 | 5,122 | 4, 337 |
| Total. | 2,160 | 2,043 | 2,545 | 82,270 | 68,398 |
| Domestic: EXPORTS. |  |  |  |  |  |
| Ore and base bullion. |  |  |  |  |  |
| United States mint or assay offlce bars | 456 | 296 |  | 72, 255 | 50, 870 |
| Bullion, refined. .................... | 8,165 | 1,115 | 6,289 | 109,740 | 154, 173 |
| Coin........... | 26 | 3,885 | 10, 759 | 17, 252 | 3,107 |
| Total. | 8,647 | 5,296 | 17,131 | 199, 252 | 208,169 |
| Foraign: |  |  |  |  |  |
| Ore and base bullion. |  |  |  |  |  |
| Cuilion, refined. | 2, ${ }^{\text {261 }}$ | ${ }_{1,381}^{251}$ | 1,394 | 22, 323 | 5,574 |
|  | 191 | 1,384 | 162 | 5,537 | 6,403 |
| Total. | 2,552 | 1,635 | 1,556 | 27,861 | 11,977 |
| Total exports. | 11,199 | 6,931 | 18,687 | 227, 113 | 220,146 |

Excess of silver exports over imports since Jan. 1, 1919, $\$ 144,843,000$. Excess of silver exports over imports since Aug. 1, 1914, \$426,604,000.

Estimated general stock of money, money held by the Treasury and by the Federal Reserve system, and all other money in the United States, Dec. 1, 1919.

|  | General stock of money in the United States | Held in United States Treasury as assets of the Government. 1 | Held by or for Federal Reserve Banks and agents. | Held outside <br> United States <br> Treasury and <br> Federal Reserve system. | Amount per capita outside United States Treasury and Federal Reserve system. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gold coin ${ }^{2}$ | \$2, 833, 221, 135 | 8386, 383, 890 | 81,362, 566,644 | \$435, 330, 240 |  |
| Gold certificates....... Standard silver doliars | 308, 145, 759 | 66,384,518 |  | $280,273,031$ $82,416,283$ |  |
| Silver certificates. |  | - | 6,311,444 | 151,331,248 |  |
| Subsidiary Silver. | 246,540, 741 | 4,589,321 | ${ }^{3} 3,675,137$ | 238, 276,283 |  |
| United States notes. | 346,681,016 | 19,192,220 | 4 $56,188,37 \mathrm{i}$ | 271, 300,425 |  |
| Federal Reserve notes. | 3,063,390,865 | 39,346, 741 | 183, 739, 175 | 2, 840, 304,949 |  |
| Federal Reserve Bank | 263, 022,800 | 57, 552,256 | 8,507, 204 | 196, 963, 340 |  |
| National bank notes. | 722, 142, 160 | 44,327,374 | 3, 489, 894 | 674,324, 892 |  |
| Total: |  |  |  |  |  |
| Dec. 1, 1919. | 7,783, 144,476 | 617, 776, 320 | 1,993,145, 199 | 5,172, 222,957 | \$48.54 |
| Oct. 1, 1919 | 7,662,898,238 | $604,552,807$ $616,213,318$ |  | ${ }^{5}$, | ${ }_{46.61}^{47.28}$ |
| July 1, 1919. | 7,588,473,771 | 578, 848, 043 | 2,167,280,313 | 4,842, 345,415 | 45.00 |
| Apr. 1, 1919. | 7,586,752,855 | 550,628, 454 | 2, 195, 151,766 | 4,840, 972,635 | 45.17 |
| Jan. 1, 1919. | 7,780,793,606 | 454, 948, 160 | 2, 220, 705, 767 | $5,105,139,679$ | 47.83 |
| Oct. 1, 1918 | 7,391,008, 277 | 380, 246,203 | 2, $084,774,897$ | $4,925,987,177$ | 46.31 |
| July 1, 1918. | $6,742,225,784$ $6,480,181,525$ | 356, ${ }_{39,856,674}$ | $2,018,361,825$ $1,873,524,132$ | $4,367,739,209$ $4,266,800,719$ | 41.31 40.47 |
| Jan. 1, 1918.. | 6,256,198,271 | 277, 043,358 | 1,723, 1770,291 | $4,255,584,622$ | 40.53 |
| Oct. 1, 1917. | 5,642,264, 856 | 242,469,027 | 1,429, 422,432 | 3,970, 373,397 | 37.97 |
| July 1, 1917 | 5,480, 009, 884 | 253, 671, 614 | 1,280, 880,714 | 3,945, 457,556 | 37.88 |
| Apr. 1, 1917. | 5,312, 109, 272 | 258, 198, 442 | 952, 964,705 | 4, 100, 976, 125 | 39.54 |

[^8]
## DISCOUNT RATES.

Discount rates approved by the Federal Reserve Board up to Dec. 31, 1919.

| Federal Reserve Bank. | Discounted bills (including member banks' 15 -day collateral notes) maturing within 90 days, secured |  |  | $\begin{gathered} \text { Trade } \\ \text { arecept. } \\ \text { ances } \\ \text { maturing } \\ \text { withing } \\ \text { witays. } \end{gathered}$ | Discounted bills, se- <br> cured otherwise than <br> by bovernment war <br> I. secured, maturing <br> within- |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Treasury certificates of indebtedness bearing interest at- |  | Libertybonds andVictory notes. |  |  | $\begin{aligned} & 91 \text { to } 180 \\ & \text { days (agri- } \\ & \text { cundural } \\ & \text { and live- } \\ & \text { stock } \\ & \text { paper). } \end{aligned}$ |
|  | 44 per cent. | $4 \frac{2}{2}$ per cent. |  |  |  |  |
| Boston. | $4{ }_{4}^{4}$ | $4 \frac{1}{2}$ | $4 \frac{3}{4}$ |  | $4{ }^{2}$ | 5 |
| New York. | $4 \frac{3}{4}$ | 4 | $4 \frac{3}{4}$ | $4 \frac{3}{4}$ | $4 \frac{3}{4}$ | 51 |
| Philadelphia. | $4 \frac{1}{2}$ | 42 | $4{ }^{3}$ | $4{ }^{3}$ | $4 \frac{3}{4}$ | 5 |
| Cleveland.... | ${ }^{3} 4$ | $4 \frac{3}{2}$ | $4 \frac{3}{4}$ | 4 $\frac{1}{2}$ | $4 \frac{3}{4}$ | 54 |
| Richmond.. | $4 \frac{1}{2}$ | $4 \frac{1}{2}$ | $4 \frac{3}{4}$ | $4 \frac{1}{2}$ | $4 \frac{3}{3}$ | 5 |
| Atlanta | $4 \frac{1}{2}$ | $4 \frac{1}{2}$ | $4 \frac{3}{3}$ | $4 \frac{1}{2}$ | $4 \frac{3}{4}$ | $5 \frac{1}{2}$ |
| Chicago.. | $4 \frac{1}{2}$ | 42 | $4{ }^{4}$ | $4 \frac{1}{2}$ | $4 \frac{3}{3}$ | $5 \frac{1}{2}$ |
| St. Louis...... | $4 \frac{1}{21}$ | $4 \frac{4}{21}$ | $44_{4}^{4}$ | $4 \frac{1}{2}$ | $4{ }_{4}^{43}$ | 5 |
| Minneapolis. | $4 \frac{1}{2}$ | $4 \frac{4}{4}$ | $4{ }^{4}$ | $4 \frac{1}{2}$ | $4{ }^{4}$ | 51 |
| Kansas City... | $4 \frac{1}{1}$ | $4{ }_{4}^{4}$ | 5 | 5 | $\stackrel{5}{5}$ | $\stackrel{51}{51}$ |
| Dallas......... | $4 \frac{1}{2}$ | 42 42 4 | $\stackrel{5}{43}$ | ${ }_{4}{ }^{3}$ | $\stackrel{5}{43}$ | 5 |
| San Francisco.. | 4 $\frac{1}{2}$ | $4 \frac{1}{2}$ | $4{ }^{3}$ | $4{ }^{3}$ | $4{ }^{3}$ | $5 \frac{1}{2}$ |

1 Rate also applies to bankers' acceptances discounted by the New York and Cleveland banks.
${ }_{3}$ Rate on paper secured by War Finance Corporation bonds, 1 per cent higher.
${ }^{3}$ Rate of $4 \frac{1}{2}$ per cent on customers' paper.
4 Rate of 5 per cent for maturities 61 to 90 days.
Note.-Acceptances purchased in open market, minimum rate 4 per cent.

## FOREIGN EXCHANGE RATES.

Monthly ranges of exchange rates on leading foreign money centers, quoted in New Fork during the three months ending December, 1919.

|  | Exchange at par. | October. |  | November. |  | December. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Low. | High. | Low. | High. | Low. | High. |
| London: |  |  |  |  |  |  |  |
| 60-day bankers' bills..................... dollars for £.. | 4.8665 | 4.13 | 4.215 | 3.97 | 4.1425 | 3.6325 | 3. 9550 |
| Demand bills....................................... do..... | 4.8665 | 4.15 | 4.2325 | 4.00 | 4.1625 | 3.6575 | 3.9875 |
| Cable transfers....................................... . do.... | 4.8665 | 4.1575 | 4.24 | 4.01 | 4.17 | 3.6650 | 3. 9950 |
| Paris: Demand bills . . . . . . . . . . . . . . . .franes for 100 dollars. . | Paris: |  |  |  |  |  |  |
| Cable transfers............................................ | 518.1347 | 885.00 | 836.00 | 981.00 | 883.00 | 1,181.00 | 990.00 |
| Berlin............................... dollars for 100 marks ${ }^{1} .$. | 23.82 | 3.25 | 4.375 | 2.10 | 3.25 | -1.90 | 2.60 |
| Milan: |  |  |  |  |  |  |  |
| Demand bills...................... . . lire for 100 dollars. . | 518.1347 | 1,080.00 | 975.00 | 1,272.00 | 1,006.00 | 1,367.00 | 1,234.00 |
| Cable transfers...................................do.... | 518.1347 | 1,078.00 | 973.00 | 1,270.00 | 1,075.00 | 1,365.00 | 1,232.00 |
| Prague............................ dollars for 100 kronen ${ }^{1}$.- | 20.26 | 2.35 | 3.85 | 1.50 | 2. 40 | 1.70 | 2.10 |
| Vienna................................................. do.... | 20.26 | . 85 | 1.65 | . 68 | 1.00 | . 50 | . 73 |
| Jugo-Slavia.............................................d. do.... | 20.26 | 1.45 | 2.15 | 1.00 | 1.50 | . 79 | 1.00 |
| Warsaw. ......................... dollars for 100 marks $1 .$. | 23.82 | 2.30 | 3.85 | 1.40 | 2.35 | . 92 | 1.65 |
| Brussels. . . . . . . . . . . . . . . . . . . . . franes for 100 dollars ${ }^{1}$.- | 518.1347 | 868.50 | 835.00 | 941.00 | 832.00 | 1,120.00 | 940.00 |
| Madrid........................... dollars for 100 pesetas.. | 19.30 | 19.08 | 19. 28 | 19.28 | 20.10 | 18.90 | 19.90 |
| Helsingfors...................... dollars for 100 markka ${ }^{1}$.- | 19.30 | 3.50 | 5.25 | 3.00 | 4. 475 | 3.00 | 3.45 |
| Athens.......................... dollars for 100 drachma $1 .$. | 19.30 | 17.25 | 18.90 | 16.50 | 18.00 | 14.80 | 16.50 |
| Sofia.................................. dollars for 100 lev.1.. | 19.30 | 3.00 | 4. 50 | 2.50 | 3.00 | 2.25 | 2.70 |
| Bucharest.............................dollars for 100 lei $1 .$. | 19.30 | 4.25 | 5.75 | 3.25 | 4.40 | 2.80 | 3.65 |
| Belgrade........................... dollars for 100 dinar ${ }^{1} .$. | 19.30 | 5.00 | 7.50 | 4.85 | 5. 44 | 4. 20 | 4. 80 |
| Amsterdam........................ dollars for 100 florins.. | 40.20 | 37.4375 | 38.0625 | 37.25 | 38.00 | 37.25 | 38. 25 |
| Stockholm......................... dollars for 100 kronor..- | 26.80 | 23.90 | 24.00 | 22.30 | 23.85 | 20.65 | 22.30 |
| Copenhagen......................... dollars for 100 kroner. . | 26.80 | 21.20 | 21.75 | 20.00 | 21.20 | 17.45 | 19.90 |
| Christiania............................................. do.... | 26.80 | 22.60 | 23.20 | 21.50 | 22.65 | 19.45 | 21.50 |
| Zurich..............................francs for 100 dollars.. | 518.1347 | 566.00 | 556.00 | 560.00 | 550.00 | 560.00 | 498.00 |
| Canada................ dollars for 100 Canadian dollars 2. | 100.00 | 96.00 | 96.75 | 94.75 | 96.25 | 90.3125 | 95.25 |
| Mexico City . . . . . . . . . . . . . . . . . .dollars for 100 pesos ${ }^{1 .}$. | 49.85 | 49.00 | 49.125 | 49.125 | 50.50 | 50.32 | 50.50 |
| Bogota...............dollars for 100 Colombian dollars ${ }^{1}$. ${ }^{\text {d }}$ | 97.33 | 98.00 | 100.50 | 100.00 | 100.50 | 98.50 | 100.00 |
| Montevideo............................centavos to dollar ${ }^{1} .$. | 96.69 | 99.50 | 96.80 | 96.80 | 94.00 | 95.40 | 94.80 |
| Buenos Aires..................diollars for 100 gold pesos ${ }^{\text {I }}$. | 96.48 | 103.60 | 104.00 | 101.80 | 103.85 | 101.70 | 102.25 |
| Rio de Janeiro.............dollars for 100 paper milreis ${ }^{1}$. . . | ${ }^{3} 54.62$ | 25.00 | 25.70 | 25.00 | 25.25 | 27.75 | 33.00 |
| Valparaiso.................. dollars for 100 paper pesos ${ }^{1}$... | - 36.50 | 20,00 | 21.25 | 20.50 | 20.50 | 19.34 | 20.50 |
| Yokohama.............................dollars for 100 yen. | 49.85 | 50.50 | 50.75 | 50.25 | 50.75 | 50.00 | 50.50 |
| Hongkong.............. doliars for 100 Hongkong dollars.. |  | 87.00 | 96.00 | 94.00 | 106.00 | 95.00 | 106.50 |
| Shanghai.................. dollars for 100 Shanghai taels.. |  | 135.50 | 142.00 | 140.50 | 175.00 | 155.00 | 170.00 |
| Singapore............ . . dollars for 100 Singapore dollars ${ }^{1}$.. | 56.78 | 53.00 | 56.00 | 54.00 | 54.00 | 54.00 | 54.00 |
| Calcutta.........................ddilars for 100 rupee. - | 32. 44 | 42.00 | 44.00 | 42.00 | 44.75 | 43.75 | 40.25 |
| London average price of silver atnominalrate of $\mathcal{£}$ ( $\$ 4.8665$ ) dollars per fine ounce) |  |  |  |  | 508 |  |  |
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The branches at Helena, Mont, and Oklahoma City; Okla., bave been authorized by the Federal Reserve Board but are not yet open for business.


[^0]:    ${ }^{1}$ Rate on paper secured by War Finance Corporation bonds, 1 per cent

[^1]:    ${ }^{1}$ More complete information can be obtained regarding most of the indexes described below from Bulletin 173, U.S. Bureau of Labor Statis. indexes described below from Bulletin 173,
    tics. This bulletin is in process oi revision.

[^2]:    ISee History of Prices During the War, Summary. By Wesley C. Mitchell, W. I. B. Price Bull. No. 1.

[^3]:    ${ }^{1}$ Based on an article in L'Économiste Français for June 28, 1919.

[^4]:    ${ }^{1}$ For text of Article 4 see page 340 of the April, 1919, number of the Federal Reserve Bulletin.

[^5]:    ${ }^{1}$ Acknowledgment is due Prof. R. E. Chaddock, Prof. W. F. Ogburn, and Mr. F. A. Ross, all of Columbia University, for critical advice with

[^6]:    ${ }^{1}$ Rates for demand paper secured by prime bankers' acceptances, high, 6 , low $4 \frac{1}{2}$

[^7]:    1 Buffalo.
    1 Cincinnati and Pittsburgh

    - New Orleans, Jacksonville, Nashville, and Birmingham

[^8]:    1 Includes reserve funds against issues of United States notes and Treasury notes of 1880 and redemption funds held against issues of nationalbank notes, Federal Reserve notes, and Federal Reserve Bank notes.

    2 Includes balances in goid settlement fund standing to the credit of the Federal Reserve Eanks and agents.
    ${ }^{3}$ Yncludes standard silver dollars.
    4 Includes Treasury notes of 1890 .

