# FEDERAL RESERVE BULLETIN

ISSUED BY THE

# FEDERAL RESERVE BOARD

AT WASHINGTON

JANUARY, 1920



WASHINGTON
GOVERNMENT PRINTING OFFICE

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The Federal Reserve Bulletin is distributed without charge to member banks of the system and to the officers and directors of Federal Reserve Banks. In sending the Bulletin to others the Board feels that a subscription should be required. It has accordingly fixed a subscription price of \$2 per annum. Single copies will be sold at 20 cents. Foreign postage should be added when it will be required. Remittances should be made to the Federal Reserve Board. Member banks desiring to have the Bulletin supplied to their officers and directors may have it sent to not less than 10 names at a subscription price of \$1 per annum.

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

Assistant to governor.

Acting cashier.

<sup>4</sup> Assistant deputy governor.

# FEDERAL RESERVE BULLETIN

Vol. 6

JANUARY, 1920.

No. 1

#### 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 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.

	Per cent.
November 7	46. 8
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 all Federal Res districts.		d Reserve	
	Number of banks.	Amount.	Number of banks.	Amount.	Number of banks.	Amount.
Oct. 31 Nov. 7 14 21 28 Dec. 5 12 19 26	71 71 71 71 71 71 71 71	5, 789 5, 688 5, 570 5, 487 5, 467 5, 374 5, 394 5, 473 5, 460	268 268 274 275 276 276 276 276 276	10, 420 10, 361 10, 334 10, 233 10, 216 10, 155 10, 177 10, 309 10, 323	784 783 790 794 795 796 796 796 797	15, 611 15, 570 15, 582 15, 463 15, 451 15, 439 15, 459 15, 614 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

Conditions not only at Federal Reserve Banks, but throughout the discount 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 1/2 to 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.

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

Federal Reser▼e	15-day colla		Trade acceptances	Agricul- tural and live-stock paper
Bank.	Treasury certificates of indebt- edness.	Otherwise secured and un- secured. <sup>1</sup>	within 90 days. <sup>2</sup>	maturing within 91 to 180 days.
Boston New York Philadelphia Cleve and Richmond At'anta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco.	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	4444444444555455545554	44 44 44 44 44 44 44 42 55 44 42	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

<sup>1</sup> Rate on paper secured by War Finance Corporation bonds, 1 per cent

Rate also applies to bankers' acceptances discounted by the New York and Cleveland banks.

Rate of 44 per cent on paper secured by 44 per cent certificates.

Rate of 44 per cent on member banks' collateral notes secured by 44 per cent certificates. 41 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 cent.

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 43 per cent for shorter maturities. The differential established during November between rates on paper secured by 41 per cent Treasury certificates and paper secured by 4½ per cent certificates has also been eliminated by most of the banks through the adoption of a uniform 41 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 advance 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, 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 more severe standard of computation, gering existing banking relationships.

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 the part of large banks on bank balances. 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 21 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 43 per cent, and should it be advanced at any time to 5 per cent the rate of interest paid by New York banks for outof-town bank balances would advance automatically to 2½ per cent, and a 5½ 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 endan-

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. able decline in the chief European 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		3.841	3.651	3.711
France		10.75	11.87	11.35
Italy	12.28	12.77	13.60	13.22
Spain	19.60	19.65	19.50	18.70
Argentina		43.25	43.15	43.125
Hongkong		101.75	100.50	99.00
China (Shanghai)	150.00	150.00	159.00	164.00
Japan		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 Domestrade tic Commerce, November for-Foreign outlook. 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 11-month showing.

		November-		
		1919	1918	
IMPORTS				
Free of duty Dutiable		\$302, 136, 620 127, 074, 457	\$204, 274, 453 46, 733, 584	
		429, 211, 077	251,008,037	
DomesticForeign		729, 807, 707 11, 113, 456	513, 180, 250 9, 056, 344	
Total		740, 921, 163	522, 236, 594	
Excess of exports		311,710,086	271, 228, 557	
	11 mont	HS ENDING NOVE	MBER-	
	1919	1918	Increase.	
imports.				
Free of duty Dutiable	\$2,428,838,518 1,099,293,791	\$2,066,896,344 753,429,849	\$361, 942, 174 345, 863, 942	
Total	3, 528, 132, 309	2, 820, 326, 193	707, 806, 116	
exports.				
Domestic Foreign	7,084,005,090 158,040,708	5,492,495,386 90,706,047	1,591,509,704 67,334,661	
Total	7,242,045,798	5, 583, 201, 433	1,658,844,365	
Excess of exports	3, 713, 913, 489	2,762,875,240		

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 nonfulfillment, 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. trade Foreign the action of Congress and the financing. 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 corporations may 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 advantage 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 in no small degree merely a changes. reflection of the fact that these currencies are depreciated at home is clearly realized by foreign banking authorities. 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 is ferred to the bankers and investors of the

intéresting 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 Aid for Europe. financing of European needs has thus been practically recountry, 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 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 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.

Annual average price of a fine ounce of silver, 1910–1919, based upon London quotations at par rate of exchange for the years 1910 to 1917, inclusive, and on New York quotations thereafter; also bullion value of 371½ grains of pure silver (contents of silver dollar) at the average annual prices quoted.

[Data furnished by the Director of the Mint.]

Year.	Average annual price of ounce of silver	Value of pure silver in a silver dollar.
1910	\$0.54077	\$0.41825
1911	.53928	.41709
1912	.61470	.47543
1913	.60458	.46760
1914	.55312	.42780
1915	.51892	.40135
1916	.68647	.53094
1917	.89525	.69242
1918	.98446	.76142
1919	1.12085	.86691

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

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 results:

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. 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

Security.	Yield	Yield	After
	1913.	now.	taxes.
Municipals. Raliroad bonds. Industrial bonds. Industrial notes Industrial preferreds.	4.28 4.92 5.71 6.21	Per cent. 4.62 5.96 6.63 6.51 7.25	Per cent. 4.62 5.24 5.84 5.73 6.81

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 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:

[In thousands of dollars, i. e., 000 omitted.]

	Imports.	Exports.	Excess of imports over exports.
Aug. 1 to Dec. 31, 1914.  Jan. 1 to Dec. 31, 1915.  Jan. 1 to Dec. 31, 1916.  Jan. 1 to Dec. 31, 1917.  Jan. 1 to Dec. 31, 1918.  Jan. 1 to Dec. 10, 1919.	23, 253 451, 955 685, 745 553, 713 61, 950 66, 729	104, 972 31, 426 155, 793 372, 171 40, 848 346, 063	1 81, 719 420, 529 529, 952 181, 542 21, 102 1 279, 333
Total	1,843,345	1,051,273	792,073

<sup>1</sup> 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 remainder 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. e., 000 omitted.]

	Imports.	Exports.	Excess of exports over imports.
Aug. 1 to Dec. 31, 1914	12, 129 34, 484 32, 263 53, 340 71, 376 82, 271	22, 182 53, 599 70, 595 84, 131 252, 846 227, 113	10,053 19,115 38,332 30,791 181,470 144,842
Total	285, 863	710, 466	424,603

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 banking banks in the leading cities resituation. port 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-Reserve Bank of Cleveland.

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 published 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

#### 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 largely to Spain, Argentina, and the Far East,

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.

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.

close of September shows but little change, the and Cleveland districts.

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

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 increase in 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 The reserve position of the banks until the are reported for the San Francisco, Chicago,

# 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 emphasis 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. 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 hackneved 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 unfavorable 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

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 prices will also advance is likewise expected 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 securities 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 in excess of any within recent mon earners are buying for cash or are their Liberty bonds to promoters, we case offer extraordinarily high rate to record low levels, sterling at touching \$3.65. Francs and lire leled this decline in sterling, and prevalent to record low levels, sterling at touching \$3.65. It is reported their Liberty bonds to promoters, we case offer extraordinarily high rate to record low levels, sterling at touching \$3.65. It is reported their Liberty bonds to promoters, we case offer extraordinarily high rate to record low levels, sterling at touching \$3.65. It is reported their Liberty bonds to promoters, we case offer extraordinarily high rate to record low levels, sterling at touching \$3.65. It is reported their Liberty bonds to promoters, we case offer extraordinarily high rate to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65. It is reported to record low levels, sterling at touching \$3.65.

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 5½ 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 43 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 paralleled 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 cur-

#### 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, woile shares which are commonly regarded as investment stocks remained com-

paratively dull.

The market has been fairly responsive to news developments. For instance, 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 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. 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 41 per cent and the Victory 42 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. 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 Reports from the 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 approached 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 anthracite-coal carriers:

	1919	1918
January February March April May June July August September October November December	Tons. 5, 934, 241 3, 871, 932 3, 938, 908 5, 224, 715 5, 711, 915 6, 195, 591 6, 052, 334 6, 144, 144 5, 687, 401 6, 560, 150 5, 971, 671	Tons. 5, 638, 383 5, 812, 082 7, 276, 777 6, 386, 373 6, 887, 256 6, 867, 669 7, 084, 775 7, 180, 923 6, 200, 000 6, 286, 366 5, 276, 659 5, 736, 260

Sizes for domestic use are in adequate supply, doubt be normal wit though in some few cases it has been necessary output for November for consumers to take pea in place of nut, and egg in place of the stove size. Steam sizes are 1,459,385 for October.

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 restric-tions 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. 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 DISTRICT 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 There are less than 100,000 tons of supply. 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 sufficiently 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 in Chicago, 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 reports a further increase in rentals of 15 per

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 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 There were about 500 homes coming to town. 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

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

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 affect-

ing 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 were dry 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 DISTRICT 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 indiacreage 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 cate a decrease from the previous year's 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 77½ cents.

#### REPORTED BY DISTRICT 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 cent of the 1919 wool clican not be taken as a picture of conditions in States has been as follows:

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 rôle 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 then was sown in 1910

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:

State.	Rank.	Production.
Idaho. Utah Oregon. California. Nevada. Total.	7 8 10	Pounds. 22, 145, 000 15, 800, 000 14, 040, 000 13, 298, 000 10, 500, 000 75, 783, 000

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 Oregon Washington	Bales. <sup>1</sup> 70,000 35,000 20,000	Bales. 115,000 135,000 45,000
Total	125,000	295,000

1 185 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. Heavy 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.

# 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 type of price used, doubtless considerable improvement could be made in this direction by further study of specific industries.

<sup>&</sup>lt;sup>1</sup> More complete information can be obtained regarding most of the indexes described below from Bulletin 173, U. S. Bureau of Labor Statistics. This bulletin is in process of revision.

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 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 im-ported. 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 whole-

sale 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

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 semi-

wholesale 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

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

<sup>&</sup>lt;sup>1</sup> See History of Prices During the War, Summary. By Wesley C. Mitchell, W. I. B. Price Bull. No. 1.

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 Réforme 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 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.)

	United States; Bureau of Labor Statistics (328 quotations).	United Kingdom; Statist (45 commodities).	France; Bulletin de la Statistique Generale (45 commodities).	Italy; Prof. Bachi (40 commodities).	Sweden official.	Japan; Bank of Japan for Tokyo (56 commodities).	Australia; Commonwealth Bureau Census and Sta- tistics (92 commodities).	Canada: Department of Labor (272 quotations).
1913 1914 1915 1916	100 100 101 124	100 101 126 159	100 102 140 187	100 95 133 202	100 116 145 185	100 95 97 117	100 106 147 138	100 101 110 135
1917. January. February. March April May June July August September. October. November. December.	151 156 161 173 182 185 187 186 183 181 183	187 193 198 203 205 216 208 206 207 212 215 217	215 226 229 248 256 266 268 270 280 284 293 304	229 241 260 265 278 288 304 311 331 350 364 365	1 244	128 126 127 131 139 145 158 169 164 163 166	2 146 2 158 2 166	157 163 167 171 181 183 184 183 182 181 187
1918. January February March April June July August September. October. November. December.	185 187 187 190 191 193 198 203 207 205 206 207	219 220 221 223 225 226 227 230 231 232 229 230	313 319 327 333 335 329 337 350 356 360 358 353	367 384 399 407 417 422 435 435 435 435 438 372	1 339 	172 179 183 207 186 188 194 206 206 216 214	2 173 2 178 2 180 2 181	191 195 199 199 204 208 210 211 211 214 215 213
1919. January February March April May June July August September. October November.	203 197 201 203 207 207 219 226 221 223 230	224 220 217 217 229 235 243 250 253 264 272	348 340 337 332 325 330	328 323 326 330 337 356 358 365	369 358 354 339	214 213 206 207 215 228 247 251 257 271	2 177	212 207 205 206 210 218 223 223 222 227

<sup>1</sup> Year.

<sup>2</sup> Quarter.

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 prices of 56 commodities, both raw materials 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.

fication 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.	Farm products.	Food, etc.	Cloths and clothings.	Fuel and lighting.	Metals and metal products.	Lumber and building materials.	Chem- icals and drugs.	House furnish- ing goods.	Miscella- neous.
1913. 1914. 1915. 1916.	100 103 106 119	100 102 105 124	100 98 99 123	100 96 92 114	100 88 94 142	100 98 94 100	100 101 109 157	100 99 99 115	100 98 99 117
January. February. March. April. May. June. July. August. September. October November. December.	148 151 163 181 197 197 199 205 204 208 212	151 160 161 183 192 188 182 181 180 184 185	161 162 164 169 173 179 187 193 193 193 198 202	176 185 188 184 194 201 192 165 160 146 155	183 190 199 208 217 239 257 249 226 182 174	106 108 110 114 117 127 132 133 134 134 134	159 160 165 170 179 180 198 209 223 252 240 238	132 132 139 139 144 152 152 152 155 155	138 141 143 149 150 152 158 156 155 163 166 170
January. 1918.  February. March. April. May. June July. August September October November December.	214 217 224 230	188 187 179 180 179 180 186 193 200 202 208 208	211 216 223 232 237 245 249 252 254 256 255	157 157 158 158 157 160 159 166 166 167 167 171	174 176 176 177 178 178 184 185 184 187 188 188	136 138 144 146 148 150 154 157 159 158 164	232 232 232 229 229 223 219 216 222 220 218 215 195	161 161 165 172 173 178 199 221 226 226 226 226	178 181 184 191 194 196 190 191 194 203 204
January	235 240 231 246	209 197 205 212 216 206 218 228 221 211 219	234 223 216 217 227 258 282 303 306 313 325	170 169 168 167 167 170 171 175 181 181 179	172 168 162 152 152 154 158 161 160 161	161 163 165 162 164 175 186 209 229 231 236	191 185 183 178 179 174 171 172 173 174 176	218 218 218 217 217 233 245 259 262 264 299	212 208 217 216 213 212 221 225 217 220 220

# Group index numbers-United Kingdom Statist.

## [1913-100.]

Date.	Vege- table foods.	Animal foods.	Sugar, coffee, tea.	Food- stuffs.	Minerals.	Textiles.	Sundries.	Materials.
1913	100	100	100	100	100	100	100	100
	110	100	107	105	90	97	105	98
	155	125	130	137	109	111	131	119
	193	152	161	169	140	152	163	153
January. 1917. February. March April May June. July August. September. October. November.	258 255 269 273 269 273 251 242 234 235 232 231	176 185 188 191 198 207 202 194 188 190 192	180 187 195 195 197 206 201 217 225 246 247 252	208 212 220 223 225 232 221 216 216 216 216 218	146 148 150 150 155 154 154 153 151 154 158	187 199 207 205 214 237 239 236 242 254 257	188 195 198 215 210 210 210 215 222 226 230 237	174 181 185 191 194 200 200 201 201 205 210 214
January. 1918. February. March April	243	200	250	224	160	262	227	216
	245	200	254	225	162	263	229	217
	239	200	258	224	162	268	232	219
	241	203	231	222	167	264	243	224

# Group index numbers—United Kingdom Statist—Continued.

Date.	Vege- table foods.	Animal foods.	Sugar, coffee, tea.	Food- stuffs.	Minerals.	Textiles.	Sundries.	Materials.
May. June. Juny. August September. October November December.	241 242 249 256 250 254 256 256	203 201 201 201 220 230 230 230	231 232 232 230 232 234 236 236	222 221 224 226 233 240 241 241	165 163 175 173 172 173 166 161	263 268 261 277 275 266 256 258	250 255 250 249 246 246 243 250	226 229 228 232 230 228 222 224
January. February. March April May June. July. August September October. November	249 250 240 243 244 246 244 254 258 260 266	226 226 205 206 208 208 208 208 208 226 226	221 221 238 228 226 243 275 320 327 322 332	234 235 224 224 226 229 231 242 242 253	159 156 154 154 177 182 202 208 206 222 180	246 242 235 239 253 258 258 272 272 286 305 296	246 235 246 243 258 271 284 283 279 284 328	218 212 213 213 230 230 250 254 257 270 280

# ${\it Group\ index\ numbers} \hbox{--} {\it France\ and\ Italy}.$

Date.	France, de la Si Genera [1913=		Italy,¹ Prof. Bachi. [1913=100.]						
	Foods (20).	Materials (25).	Cereals and meats.	Other food- stuffs.	Textiles.	Minerals and metals.  100 100 207 380  419 449 518 535 592 597 610 630 688 685 7111 720	Other goods.		
1913 1914 1915 1916	100 104 131 167	100 101 145 206	100 102 132 156	100 84 93 135	100 96 113 184	100 207	100 96 133 197		
January. February March April May June July August September October November December.	183 189 191 228 230 238 237 238 244 236 239 249	242 256 260 264 277 289 293 296 309 322 337 349	175 184 188 189 191 207 212 236 267 268 269	150 155 158 158 167 171 173 174 176 183 198	240 248 274 266 281 308 330 341 364 413 426 428	449 518 535 592 597 610 630 688 685 711	210 218 230 243 230 252 286 286 287 305 322		
January February March April May June July August September October November December	257 260 264 275 279 269 274 292 296 298 301 304	358 367 378 380 382 377 388 404 410 404 392			484 484 484		427 432 432 432		
January February March. April. May. June Juny. August.	316 337 336 319 313	376 360 337 330 330 344	304 300 292 294 293 320 334 332	300 307 312 330 336 343 331 350	330 328 331 333 375 380 387 414	306 306 355 358 366 419 420 421	422 384 362 349 340 336 342 341		

 $<sup>^{\ \, 1}</sup>$  Group index numbers January-September, 1918, not available in this country.

# ${\it Group\ index\ numbers-Sweden,\ Official.}$

## [1913=100.]

Date.	Vegetable food.	Animal food.	Raw materials for agri- culture.	Coal.	Metals.	Building material.	Paper pulp.	Hides and leather.
1913-14. 1914 <sup>1</sup> 1915 . 1916 . 1917 . 1918 .	100 136 151 152 181 221	100 101 140 182 205 419	100 114 161 180 198 304	100 123 177 266 551 856	100 109 166 272 405 398	100 104 118 165 215 275	100 116 233 267 300	100 118 158 229 206 195
October	276 276 276	487 486 482	318 318 318	826 780 844	382 385 384	293 293 293	309 315 327	208 208 208
January 1919. February March April	276 276 276 276 276	483 448 438 423	356 356 356 367	810 784 814 769	373 341 317 287	293 293 288 288	323 323 323 323	208 208 174 172

<sup>&</sup>lt;sup>1</sup> Average for the six months ending Dec. 31, 1914.

## Group index numbers—Canadian Department of Labor.1

Date.	Grains and fodder.	Animals and meats.	Dairy products.	Fruits and vege- tables.	Other foods.	Textiles.	Hides, leather, etc.	Metals.	Imple- ments.	Building materials, etc.	Fuel and lighting.	Drugs and chemi- cals,
1913 1914 1915	100 114 136 142	100 107 104 121	100 100 105 119	100 99 93 130	100 104 121 136	100 102 114 148	100 105 110 143	100 96 128 167	100 101 106 128	100 100 97 100	100 94 92 113	100 106 160 222
January. February March April May June July August September October November December	174 178 185 201 222 214 216 216 207 205 222 228	138 146 149 157 171 165 163 160 163 166 169 173	157 156 145 140 143 134 136 147 149 159 160	196 224 241 246 269 289 258 214 250 170 220 220	154 155 156 168 195 192 187 192 189 189	165 171 177 182 189 199 205 210 212 222 223 247	174 168 161 161 173 174 169 171 170 163 163	177 197 202 210 222 228 230 233 233 226 220 221	153 157 157 157 159 178 184 189 188 188 188	105 107 109 113 115 116 123 124 125 128 130	153 150 161 143 151 162 194 184 190 154 158 158	228 221 238 241 243 229 232 231 239 236 248 247
1918. January. February March April May June July August September October November December	232 242 258 251 236 227 229 227 214 227 216 207	181 184 191 198 221 210 205 199 199 198 186	168 171 159 157 155 155 163 165 170 179 186 190	216 221 214 215 203 224 234 217 206 199 213 208	195 202 203 204 210 210 214 214 226 226 227 227	250 250 255 257 264 278 283 284 287 286 291	160 156 156 154 173 173 173 174 177 179 179	217 223 226 222 237 237 238 236 235 231 230 217	189 203 210 209 206 210 212 222 224 230 231 214	131 132 143 148 148 149 150 152 153 153 154	159 160 161 162 163 200 205 205 206 208 210 211	255 260 256 243 242 259 259 250 244 244 244
January February March April May June July August September October November	199 217 231 238 240 243 232 232	191 191 196 209 213 213 216 215 201 180	191 178 171 184 181 179 186 189 193 204 221	206 188 189 198 209 221 200 210 195 178 240	223 218 219 213 213 215 218 224 227 228 230	293 281 282 284 277 274 278 277 282 289 298	171 162 162 166 202 211 235 260 256 252 252	204 189 172 162 161 161 166 171 171 165 171	229 229 229 223 223 226 226 228 231 225 232	154 155 156 153 153 158 168 170 183 188 194	209 202 199 206 192 194 194 199 200 201 201	240 233 212 210 208 197 195 196 197 198 181

<sup>&</sup>lt;sup>1</sup> 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 FOR-EIGN 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 commodi-ties, 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

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 commodities, 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 rethe largest number of commodities are quoted sult 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. 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.  $\mathbf{Even}$ 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 matched index. 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 com-modities 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  $\frac{1}{124}$  and  $\frac{1}{248}$  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

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. 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.

<sup>1</sup> For text of this bill see FEDERAL RESERVE BULLETIN for May, 1918, 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 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 however, to explain the changes in the value of

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. 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 1917 more than 3½ times as large. The table on page 42 and the chart on page 40 show fluctuations of exchange quotations in Stock-holm. 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.

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. 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,

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:

Year.	Tonnage carried (1,000 tons).	Earnings (1,000 kroner).
1911 1912 1913 1914 1915 1916	1,261 1,329 1,379 1,413 1,422	161, 086 188, 440 218, 619 211, 478 474, 525 1, 062, 662 1, 107, 177

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 extra hazardous 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,

<sup>&</sup>lt;sup>1</sup> For discussion of the effect of pegging on dollar exchange see FEDERAL RESERVE BULLETIN for November, 1919, p. 1038.

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

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 LIABILITIES 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.

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Sweden's trade balance with principal countries for the years 1912–1917 (in 1,000 kronor).

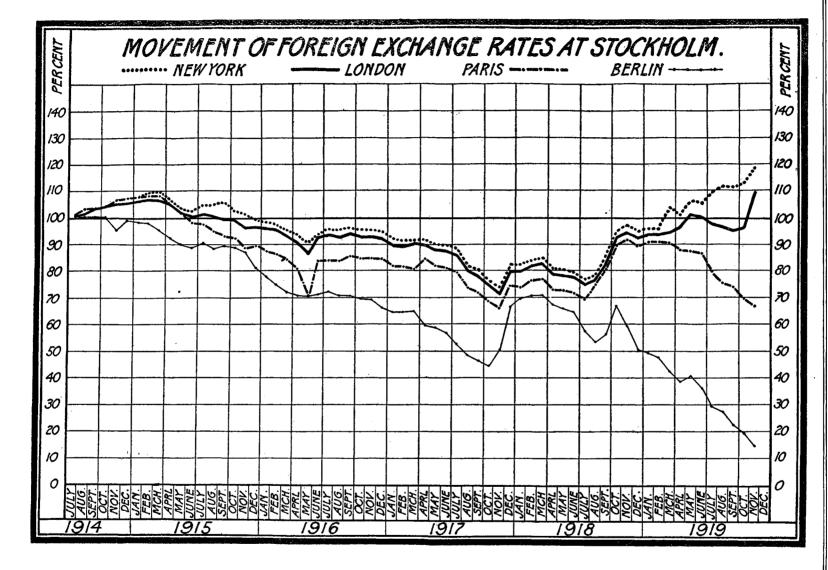
Countries.	1912	1913	1914	1915	1916	1917
Germany:						
Imports	273,860	289,900	238,550	251,500	420, 173	288, 228
Exports			174,840		420,173 437,532	352,050
Great Britain:	,	,	, , , , , ,		,	'
Imports	188,950	206,820	183,810	213,527	164,416	65,080
Exports	222,800	237, 880	258, 320	329,550	320,052	216, 123
France:	1	, ,	, .	, ,		'
Imports	33,170	35,280	28,880	23,796	23,562	15,706
Exports	53,230	66,260	32,688			
United States:	,	, ,	. ,	1 '	· '	'
Imports	60,460	76,580	78,076	321,865 33,751	213,936	96,122
Exports	32, 150		41,208	33, 751	75,395	50,428
Norway:	'	' '	", "	] ','	'''	'
Imports	23,680	25,930	29,036	50,489	61,139	51,667
Exports	42,910	54,030	48,882		115,384	162,713
Denmark:	,	′	1	1	1	1
Imports	49,640	53,680	51,648	69,766	79,590	113, 423 112, 777
Exports	67,480	70,650	72,850	80,395	93,844	112,777
Other countries:	,	'		1	1	
Imports	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
-	<u>-</u> -	<u> </u>		<u>-</u>	<u>-</u>	
Total imports	782,890	846,540	726,910	1, 142, 510 1, 316, 360	1,138,560	758,610
Total exports	760, 470	817, 340	772,350	1,316,360	1,556,380	1,349,551
•	,	í (	l ′	1 ' '		' '

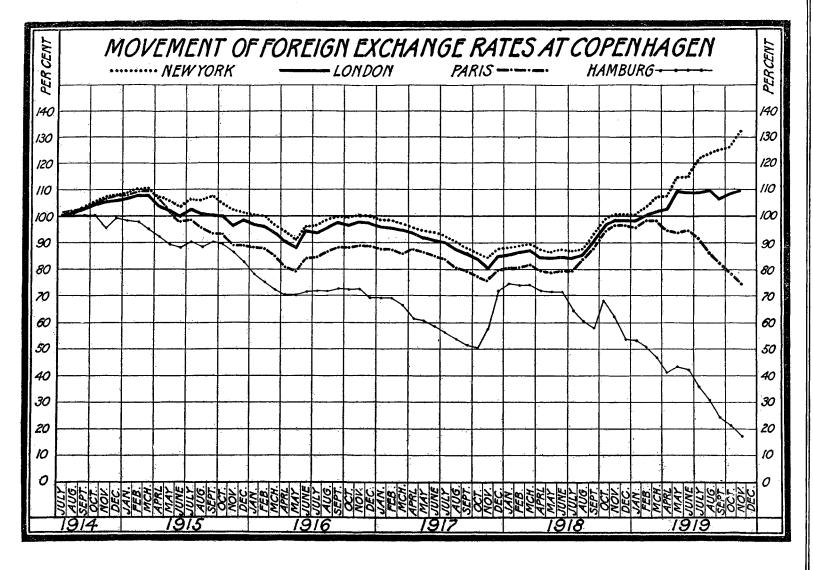
Norway's trade balance with principal countries for the years 1912-1917 (in 1,000 kroner).

Countries.	1912	1913	1914	1915	1916	1917
Germany:						
Imports			151,299	155, 218	176, 471	156, 483
Exports	75,019	67, 228	76, 167	192,716	291,777	150, 133
Great Britain:						
Imports		146,244	159, 186	253, 584 187, 672	374, 007 274, 428	430,696
_ Exports	94,832	98,647	105, 707	187, 672	274,428	301,893
France:						
Imports	15,075			13,853	23,349	30,997
Exports	14,687	14,223	10,034	27, 590	79,099	81,584
United States:						
Imports	33,807			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	75, 166	132,441	162,275
Exports	21,443	26,440	34,681	67,464	68,350	55,877
Denmark:	<b>'</b>	'	′	•	<b>'</b>	·
Imports	26,996	28,347	29,400	33,351	69, 140	104,476
Exports	8,440	9, 158	18,398	30, 337	40,538	
Other countries:	1	1	1	1	,	· 1
Imports	98, 574	104.317	96,808	153, 169	240, 259	224,984
Exports	87, 819	146, 713	96, 808 120, 171	137, 827	240,259 201,754	159,646
*						
Total imports	525, 735	552,321	567, 277	867, 968	1,353,665	1,661,308
			410,022	676, 760		

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

Countries.	1912	1913	1914	1915	1916	1917
~	,					
Germany:						
Imports	314,246  181,646	328,308 178,737	264,653	200,380	265,067	237, 181 488, 415
Exports	181,646	178,737	301, 424	486,701	690,900	488,415
Great Britain:			l	l		
Imports	135, 886	134,561	145, 137		336,518	
Exports	373, 079	410, 338	431,605	385, 114	351,456	264,577
France:	1	i .			i	1
Imports	19,406	20,935	17,512	13, 291		13,524
Exports	3,302	3,342	6,415	5,511	1,767	1,896
United States:		,		-	1	
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:	1	,	′			( 1
Imports	69,060	71, 104	83,097	92,805	117, 130	137, 150
Exports	33,352	34,083	37,960	92,805 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	
Other countries:		,,	, ,	,		1
Imports	362,082	380,858	183,062	255, 221	268,034	165, 965
Exports	223, 441	242, 447		139, 333	136, 111	
Total imports.	070, 200	1,031,500	705 228	1 157 394	1 357 400	1 082 460
Total exports.		2,001,000	007 446	1, 129, 263	1 200 900	1 084 457
Total exports.	1042, 800	080,100	001,440	1, 140, 400	1,000,000	1,004,401





Monthly high and low rates of exchange in Stockholm on principal foreign countries: 1914–1919.

[Par: 1 £=18.1595 kronor; 100 francs=72 kronor; 1 dollar=3.7314 kronor; 100 Reichsmarken=88.8888 kronor.]

				Excha	nge on-				Percenta	ge of par (	based on hi	igh rate).
Month and year.	London ()	par 18.16).	Paris (	par 72).	New Yorl	c (par 373).	Berlin (p	ar 88.89).			New	
	High.	Low.	High.	Low.	High.	Low.	High.	Low.	London.	Paris.	York.	Berlin.
1914. July	18. 33 18. 40 18. 80 18. 95 19. 10 19. 20	18. 24 18. 35 18. 45 18. 80 18. 95 19. 15	72. 90 74. 50 74. 50 75. 50 77. 00 77. 50	72. 50 73. 00 73. 00 74. 50 75. 50 77. 00			89. 10 89. 25 89. 30 89. 00 85. 00 88. 50	89. 00 89. 15 89. 10 85. 75 84. 50 85. 25	100. 93 101. 32 103. 52 104. 35 105. 17 105. 72	101. 25 103. 47 103. 47 104. 86 106. 94 107. 64		100. 24 100. 41 100. 46 100. 12 95. 62 99. 56
1915. January. February March April May June July August September October November. December	19. 35 19. 45 19. 50 19. 05 18. 52 18. 50 18. 30 18. 13 18. 06 17. 50 17. 60	19. 20 19. 40 19. 10 18. 50 18. 25 18. 15 18. 15 18. 07 17. 50 16. 83 16. 45	77. 50 78. 00 78. 00 75. 25 73. 00 71. 00 70. 50 68. 25 67. 00 66. 50 63. 75 64. 50	77. 30 77. 30 75. 50 73. 00 71. 00 68. 50 67. 75 65. 75 65. 00 63. 00 61. 00 59. 70	400, 00 407, 00 408, 00 397, 00 386, 00 381, 00 389, 00 390, 00 395, 00 395, 00 379, 00 372, 00	398, 00 400, 00 398, 00 386, 00 381, 00 378, 00 380, 00 381, 00 381, 00 379, 00 359, 00 359, 00	87. 75 87. 40 84. 75 82. 00 80. 00 78. 60 80. 50 78. 70 79. 75 79. 10 77. 25 72. 00	87. 25 84. 00 82. 00 79. 00 78. 20 77. 10 77. 00 78. 30 78. 55 77. 10 71. 30 68. 25	106, 55 107, 10 107, 37 104, 90 101, 98 100, 22 101, 87 100, 77 99, 83 99, 44 96, 36 96, 91	107. 64 108. 33 108. 33 104. 51 101. 39 98. 61 97. 92 94. 79 93. 06 92. 36 88. 54 89. 58	107, 24 109, 12 109, 38 106, 43 103, 49 102, 14 104, 29 104, 56 105, 90 102, 41 101, 61 99, 73	98, 72 98, 32 95, 34 92, 25 90, 00 88, 42 90, 56 88, 54 89, 72 88, 99 86, 91 81, 00
January February March April May June July August September October November. December	17. 45 17. 37 16. 95 16. 47 15. 75 16. 85 16. 95 16. 80 17. 05 16. 85 16. 87	17. 00 16. 88 16. 52 15. 75 15. 35 16. 65 16. 65 16. 65 16. 75 16. 12	62. 80 62. 10 60. 50 58. 00 51. 10 60. 00 60. 35 60. 00 61. 25 60. 75 60. 85	61, 25 60, 25 58, 10 55, 50 54, 35 56, 00 58, 25 59, 10 59, 75 60, 50 58, 25	366, 00 364, 00 356, 00 348, 00 349, 00 358, 00 355, 00 361, 00 357, 00 357, 00	358, 00 352, 00 349, 00 334, 00 327, 00 355, 00 351, 00 353, 00 353, 00 354, 00 343, 00	69. 30 66. 65 64. 35 63. 00 62. 50 63. 25 64. 10 63. 10 62. 75 62. 10 61. 60 58. 75	66. 75 64. 55 61. 60 60. 80 61. 25 62. 00 63. 00 62. 00 61. 75 59. 25 55. 00	96, 09 95, 64 93, 33 90, 69 86, 72 92, 78 93, 33 92, 51 93, 88 92, 89 92, 89	87. 22 86. 25 84. 03 80. 56 70. 97 83. 33 83. 82 83. 38 84. 38 84. 38	98, 12 97, 59 95, 44 93, 30 90, 62 93, 57 95, 98 95, 17 96, 78 95, 71 94, 91	77. 96 74. 98 72. 39 70. 87 70. 31 71. 16 72. 11 70. 99 70. 59 69. 86 69. 30 66. 09
January. February March April May June July August September October November December	16, 25 16, 18 16, 50 16, 35 15, 98 15, 58 14, 50 14, 16 13, 55 13, 00	16. 07 16. 11 15. 80 15. 65 15. 61 14. 30 14. 00 13. 70 11. 55 11. 00	58, 75 58, 50 58, 25 60, 50 58, 85 58, 25 53, 00 51, 75 49, 25 47, 50 53, 50	58. 05 58. 00 57. 00 57. 00 58. 15 57. 30 52. 50 51. 25 49. 65 42. 55 40. 25 47. 00	344, 00 341, 00 341, 00 343, 00 336, 00 339, 00 329, 00 299, 00 295, 00 275, 00 308, 00	340, 00 340, 00 331, 00 331, 00 339, 00 329, 00 297, 00 288, 00 245, 00 234, 00 280, 00	57. 50 57. 25 57. 75 53. 00 51. 65 50. 50 47. 00 43. 25 41. 65 39. 75 45. 00 59. 50	56, 75 56, 00 53, 00 51, 25 50, 50 44, 50 43, 00 41, 65 40, 25 34, 00 33, 00 50, 00	89. 48 89. 09 90. 85 90. 03 87. 99 87. 27 85. 79 79. 84 77. 97 74. 61 71. 58 79. 84	81, 60 81, 25 80, 90 84, 03 81, 74 80, 90 79, 58 73, 61 71, 88 68, 40 65, 97 74, 31	92. 23 91. 42 91. 96 90. 08 89. 54 88. 20 81. 77 80. 16 76. 41 73. 73 82. 57	64. 68 64. 40 64. 96 59. 62 58. 11 56. 81 46. 86 46. 86 44. 72 50. 62 66. 94
1918.  January February March April May June July August September October November December	14, 50 14, 85 15, 00 14, 20 14, 15 14, 00 13, 55 13, 85 15, 00 16, 85 17, 10 16, 72	13. 95 14. 20 13. 98 13. 80 13. 75 13. 42 13. 20 14. 03 15. 10 16. 65 16. 20	53. 25 55. 00 55. 25 52. 50 52. 25 51. 75 50. 00 53. 75 58. 00 64. 50	51, 50 52, 50 51, 00 51, 00 51, 00 49, 50 49, 50 48, 75 53, 70 58, 00 64, 25 62, 30	307, 00 312, 00 316, 00 301, 00 300, 00 296, 00 297, 00 292, 00 320, 00 355, 00 362, 00 354, 00	297. 00 300, 00 297. 00 292. 00 290, 00 284. 00 280, 00 278. 00 296. 00 318. 00 350. 00 342, 00	62. 00 62. 50 63. 00 59. 75 58. 75 51. 00 47. 50 50. 00 59. 50 52. 50 44. 75	55. 00 55. 00 55. 00 57. 00 57. 00 49. 25 47. 00 45. 00 45. 00 47. 50 44. 75 38. 00	79. 84 81. 77 82. 59 78. 19 77. 91 77. 09 74. 61 76. 26 82. 59 92. 78 94. 16 92. 07	73. 96 76. 39 76. 74 72. 92 72. 57 71. 88 69. 44 74. 65 80. 56 89. 58 91. 67 89. 58	82, 31 83, 65 84, 72 80, 70 80, 43 79, 36 76, 94 78, 28 85, 79 95, 17 97, 05 94, 91	69. 75 70. 31 70. 87 67. 22 66. 09 64. 97 57. 37 53. 44 56. 25 66. 94 59. 06 50. 34
January February March April May June July August September October November	17. 00 16. 98 17. 13 17. 49 18. 40 18. 20 17. 78 17. 55 17. 27 17. 47 19. 90	16. 28 16. 87 16. 89 17. 08 17. 49 17. 72 17. 59 17. 20 16. 85 17. 13 17. 53	65, 50 65, 50 65, 25 63, 25 63, 00 62, 25 57, 50 54, 00 53, 00 48, 00	62. 75 65. 10 61. 50 62. 00 59. 00 59. 75 55. 00 49. 50 44. 50 47. 25 46. 00	358. 00 358. 00 385. 00 387. 00 396. 00 392. 00 408. 00 415. 00 421. 00	344. 00 354. 00 356. 00 372. 00 376. 00 384. 00 401. 00 405. 00 407. 00 421. 00	44. 25 42. 50 37. 75 34. 00 36. 25 32. 00 26. 50 24. 25 20. 00 17. 50 13. 00	40, 50 35, 50 33, 50 27, 75 27, 50 25, 00 23, 50 18, 75 13, 60 10, 00	93. 61 93. 50 94. 32 96. 31 101. 32 100. 22 97. 90 96. 64 95. 09 96. 20 109. 58	90. 97 90. 97 90. 93 87. 85 87. 50 86. 46 75. 00 73. 61 69. 44 66. 67	95, 98 95, 98 103, 22 101, 07 106, 17 105, 09 109, 38 111, 53 111, 26 112, 87 118, 23	49. 78 47. 81 42. 47 38. 25 40. 78 36. 00 29. 81 27. 28 22. 50 19. 69 14. 62

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-149.99 kroner.]

	• • • • • •				Exchan	ge on—					Percent	tage of p	ar (base	l on hig	h rate).
Month and year.	Lon (par 1		Pa: (par		New (par		Ber (par 8		Amste (par 1		London	Paris.	New	Berlin.	Amster-
	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	Dondon	1 4113.	York.	beriii.	dam.
July	18. 30 18. 40 18. 75 18. 95 19. 10 19. 40	18. 25 18. 33 18. 50 18. 75 18. 95 19. 20	72. 80 73. 00 74. 50 75. 50 77. 00 78. 00	72.50 72.90 73.00 74.50 75.50 77.00			89. 05 89. 25 89. 30 89. 20 86. 25 88. 50	89. 00 89. 05 89. 20 86. 50 85. 00 85. 00	150. 70 151. 50 156. 00 163. 00 162. 00 162. 00	150. 60 150. 80 152. 00 156. 00 159. 00 161. 00	100, 77 101, 32 103, 24 104, 35 105, 17 106, 82	101, 11 101, 39 103, 47 104, 86 106, 94 108, 33		100.18 100.40 100.46 100.34 97.03 99.56	100, 47 101, 01 104, 01 108, 67 108, 01 108, 91
1915. January	19. 39 19. 60 19. 61 19. 00 18. 55 18. 30 18. 35 18. 15 18. 08 17. 63 17. 35	19. 33 19. 40 19. 50 18. 60 18. 35 18. 14 18. 15 18. 10 17. 95 17. 30 17. 00	77. 50 78. 00 78. 00 75. 00 71. 50 70. 50 68. 50 66. 25 64. 50 63. 50	77. 10 77. 25 77. 50 73. 25 71. 75 70. 00 66. 50 66. 50 65. 75 63. 25 62. 00	403. 00 410. 00 410. 00 398. 00 390. 00 388. 00 395. 00 395. 00 388. 00 384. 00 372. 00	400, 00 403, 00 408, 00 393, 00 397, 00 387, 00 387, 00 390, 00 388, 00 385, 00 374, 00 361, 00	87. 75 87. 30 84. 75 82. 00 89. 50 78. 50 80. 50 79. 25 80. 90 77. 65 71. 00	87. 40 85. 00 83. 75 80. 50 79. 25 77. 50 79. 00 79. 50 78. 50 76. 25 69. 75	162, 00 164, 00 164, 00 158, 00 154, 00 152, 50 158, 00 157, 25 158, 00 158, 00 159, 75 162, 00	161, 00 162, 00 162, 00 154, 00 153, 00 150, 50 152, 50 158, 00 157, 00 156, 25 152, 25	106, 77 107, 92 107, 98 104, 62 102, 14 100, 77 102, 42 101, 04 99, 94 99, 55 97, 08 95, 53	107. 64 108. 33 108. 33 104. 17 101. 39 99. 31 97. 92 95. 14 92. 71 92. 01 89. 58 88. 19	108, 04 109, 92 109, 92 106, 70 104, 56 104, 02 105, 90 106, 97 104, 02 102, 95 99, 73	98, 71 98, 21 95, 34 92, 24 90, 56 88, 31 90, 56 89, 15 89, 15 89, 99 88, 87 87, 35 79, 87	108. 01 109. 34 109. 34 105. 34 102. 67 101. 67 105. 34 104. 84 105. 34 106. 51 108. 61
1916. January. February March April May June July August. September October November December	17. 25 16. 95 16. 47 16. 05 17. 05 17. 05 17. 50 17. 22 17. 30	17. 35 16. 93 16. 53 15. 75 15. 30 15. 75 16. 65 16. 70 17. 00 17. 15 17. 30 16. 75	63. 50 61. 50 60. 60 58. 00 61. 00 60. 75 60. 75 62. 50 62. 50 61. 75	62, 50 60, 50 58, 50 55, 75 54, 00 56, 25 59, 00 61, 00 62, 00 62, 50 60, 75	372, 00 364, 00 356, 00 349, 00 336, 00 355, 00 361, 00 369, 00 363, 00 364, 00	367, 00 356, 00 351, 00 321, 00 321, 00 332, 00 349, 00 353, 00 359, 00 366, 00 359, 00	69. 75 66. 75 64. 40 63. 50 63. 50 63. 75 63. 50 64. 50 64. 50 62. 00 61. 25	67. 50 66. 25 62. 50 61. 25 61. 00 62. 50 63. 50 63. 75 63. 00 62. 00 57. 75	162, 50 153, 50 151, 75 148, 50 140, 00 151, 00 148, 00 148, 00 149, 50 148, 50 148, 50	159. 00 151. 50 147. 75 140. 00 132. 00 138. 50 145. 25 146. 00 147. 75 148. 50 146. 00	96, 91 94, 98 93, 33 90, 69 88, 38 93, 88 93, 88 96, 36 94, 43	88. 19 85. 42 84. 17 80. 56 79. 17 84. 72 84. 38 84. 38 86. 81 86. 81 86. 81 85. 76	99. 73 97. 59 95. 44 93. 57 90. 08 95. 17 95. 44 96. 78 98. 93 97. 32 98. 12 97. 59	78. 46 75. 09 72. 44 71. 43 70. 87 71. 43 71. 71 71. 43 72. 56 71. 15 69. 74 68. 90	108. 34 102. 34 101. 17 99. 01 93. 34 100. 67 98. 67 98. 67 99. 67 99. 01
1917. January February March April May June July August September October November December	17. 03 16. 50 16. 53 16. 18 16. 20 16. 15 15. 65 15. 38 15. 15	17. 03 16. 94 16. 00 17. 10 16. 18 16. 17 15. 93 15. 55 13. 50 12. 90 13. 90	61. 75 61. 40 59. 35 61. 00 59. 50 59. 50 59. 25 56. 60 54. 75 52. 25 55. 00	61. 40 61. 00 57. 75 58. 40 59. 45 59. 00 58. 00 56. 00 55. 85 49. 50 48. 00 51. 25	363. 00 361. 00 346. 00 347. 00 340. 00 339. 00 329. 00 327. 00 318. 00 302. 00 312. 00	359, 00 355, 00 336, 00 339, 00 340, 00 339, 00 326, 00 324, 00 284, 00 279, 00 292, 00	61. 25 60. 50 55. 75 54. 25 52. 30 49. 00 46. 50 44. 05 45. 50 61. 00	60. 25 58. 75 53. 50 53. 00 52. 30 45. 75 47. 50 46. 25 45. 10 41. 50 41. 50 52. 50	147. 00 146. 00 140. 00 142. 50 140. 25 140. 60 140. 00 137. 75 137. 75 137. 00 131. 00 136. 50	146. 00 143. 75 137. 00 137. 50 140. 25 140. 40 138. 50 136. 00 128. 00 122. 00 127. 50	94. 16 93. 77 90. 85 91. 02 89. 20 88. 93 86. 17 84. 69 83. 42 79. 29 82. 59	85. 76 85. 28 82. 43 84. 72 82. 57 82. 64 82. 29 78. 61 76. 04 72. 57 76. 39	97. 32 96. 78 92. 76 93. 03 91. 15 90. 88 88. 20 87. 67 85. 25 80. 97 83. 65	68. 90 68. 06 62. 71 61. 03 58. 83 57. 14 55. 12 52. 31 51. 74 49. 78 51, 18 68. 62	98. 01 97. 34 93. 34 95. 01 93. 51 93. 74 93. 34 91. 84 91. 84 91. 34
1918. January. February March April May June July August. September October November December.	15. 11 45. 30 15. 15 15. 12 15. 28 15. 80 17. 35 17. 45	14, 45 14, 75 14, 60 15, 10 14, 95 15, 03 15, 00 14, 95 15, 38 16, 50 17, 10 16, 83	54. 75 57. 00 56. 25 55. 75 56. 55 55. 75 59. 00 61. 00 67. 25 66. 00	53. 50 54. 25 54. 00 55. 25 55. 25 55. 25 55. 25 55. 25 59. 00 63. 00 66. 00 65. 00	313. 00 324. 00 322. 00 318. 00 324. 00 317. 00 317. 00 333. 00 364. 00 366. 00 358. 00	305. 00 310. 00 306. 00 317. 00 314. 00 315. 00 313. 00 322. 00 345. 00 358. 00 352. 00	63. 00 65. 00 63. 00 63. 50 62. 00 57. 00 53. 25 53. 00 62. 00 54. 00	57. 75 57. 25 57. 25 62. 25 62. 25 55. 00 52. 75 51. 00 49. 00 53. 00 47. 00 39. 00	135, 00 147, 50 148, 25 152, 00 160, 50 161, 75 165, 50 157, 50 156, 50 155, 25 152, 50	132, 25 136, 00 144, 00 150, 00 156, 50 161, 00 164, 00 156, 00 156, 00 153, 00	82, 32 85, 07 84, 41 83, 20 84, 25 83, 42 83, 25 84, 14 87, 00 95, 53 96, 09	76. 04 79. 17 78. 13 77. 43 78. 47 77. 43 77. 43 81. 94 84. 72 93. 06 93. 40	83, 91 86, 86 86, 33 85, 25 86, 86 84, 99 84, 99 85, 59 98, 12 95, 98	70. 87 73. 12 70. 87 71. 43 70. 87 69. 74 64. 12 59. 62 69. 74 60. 74 50. 62	90, 01 98, 34 98, 84 101, 34 107, 84 110, 01 110, 34 105, 01 104, 34 103, 51 101, 67
January. February. March. April. May June July August. September October November.	17. 40 17. 77 18. 12 18. 47 18. 45 18. 75 18. 45 18. 33 18. 34	17. 00 17. 40 17. 50 17. 87 18. 45 18. 20 18. 25 18. 25 17. 65 18. 05 18. 32	67. 00 67. 05 65. 00 63. 00 62. 25 62. 00 58. 00	65. 50 67. 00 66. 85 64. 50 62. 50 62. 00 57. 50 53. 00 46. 00 48. 75 47. 25	366, 00 373, 00 390, 00 398, 00 401, 00 435, 00 445, 00 439, 00 440, 00	366.00 368.00 390.00 389.00 393.00 401.00 422.00 424.00 431.00	45. 50 41. 50 38. 50 30. 50 30. 50 31. 00 25. 50 20. 15 18. 75 13. 00	43. 00 41. 50 37. 00 30. 50 29. 00 24. 20 19. 50 14. 00 14. 50 10. 00	151. 75 150. 75 153. 00 156. 75 157. 25 156. 50 160. 75 162. 50 163. 50 167. 25 171. 75	151.50	95. 81 97. 85 99. 77 101. 70 101. 59	93. 06 93. 13 90. 28 87. 50 86. 46 86. 11 80. 56 76. 39 72. 57	97. 59 98. 12 100. 00 104. 56 106. 70 107. 51 116. 62 119. 30 117. 69 117. 96 124. 66	51. 18 46. 68 43. 31 39. 93 34. 31 34. 87 28. 68 22. 66 21. 09 14. 62	109, 01

 ${\it Monthly high and low rates of exchange in Copenhagen on principal foreign countries: 1914-1919.}$ 

[Par: 1 £=18.1595 kroner, 100 francs=72 kroner, 1 dollar=3.7314 kroner, 100 Reichsmarken=88.8888 kroner.]

				Exchai	nge on	· · · · · · · · · · · · · · · · · · ·		······································	Percenta	ge of par (t	ased on hi	gh rate).
Month and year.	London (1	par 18.16).	Paris (p	oar 72).	New York	(par 373).	Hambu 88.8	rg (par 9).	London.	Paris.	New	Ham-
	High.	Low.	High.	Low.	High.	Low.	High.	Low.			York.	burg.
1914. July	18. 33 18. 37 18. 65 18. 90 19. 10 19. 20	18. 24 18. 35 18. 40 18. 70 18. 90 19. 20	73, 30 73, 70 74, 00 76, 00 77, 00 77, 50	72. 50 73. 00 73. 00 74. 50 76. 00 77. 50	375, 50 377, 00 385, 00 392, 00 400, 00 402, 00	375. 50 375. 50 377. 00 385. 00 392. 00 399. 00	89. 15 89. 20 89. 20 88. 95 85. 00 88. 25	89. 05 89. 15 89. 00 85. 25 84. 00 85. 50	100. 93 101. 15 102. 69 104. 07 105. 17 105. 72	101. 81 102. 36 102. 78 105. 56 106. 95 107. 64	100. 67 101. 07 103. 22 105. 09 107. 24 107. 77	100. 29 100. 34 100. 34 100. 06 95. 62 99. 28
January February March April May June July August September October November December	19, 50 18, 85 18, 52 18, 16	19. 20 19. 30 18. 95 18. 45 18. 20 18. 10 18. 15 18. 20 17. 60 17. 15	77. 50 78. 50 78. 50 77. 50 73. 25 70. 50 70. 75 69. 00 67. 00 64. 00 64. 00	77. 50 77. 50 76. 00 73. 50 71. 00 69. 25 68. 50 67. 50 66. 50 65. 25 62. 25 62. 00	405. 00 412. 00 413. 00 400. 00 395. 00 395. 00 395. 00 400. 00 390. 00 383. 00 379. 00	404.00 405.00 404.00 396.00 382.00 382.00 391.00 391.00 391.00 371.00 370.00	87, 35 87, 10 84, 75 82, 00 79, 60 78, 55 80, 40 78, 65 80, 90 77, 00 73, 35	87. 00 83. 90 82. 25 79. 50 78. 00 77. 10 77. 20 78. 30 78. 80 77. 50 69. 00	106. 27 107. 37 107. 37 103. 79 101. 98 100. 00 102. 69 100. 93 100. 22 100. 00 96. 09 98. 56	107. 64 109. 03 109. 03 107. 64 101. 74 97. 92 98. 26 95. 83 93. 06 93. 06 88. 89 88. 89	108. 58 110. 46 110. 72 107. 24 105. 90 103. 22 106. 17 105. 90 107. 90 107. 26 104. 56 102. 68 101. 61	98. 26 97. 98 95. 34 92. 24 89. 54 88. 31 90. 44 88. 48 90. 15 86. 62 82. 51
1916. January February March April May June July August September October November December	17. 60 17. 42 16. 94 16. 44 16. 00 17. 10 17. 00 17. 37 17. 65 17. 65 17. 67	17. 19 16. 89 16. 48 15. 73 15. 35 16. 50 16. 85 17. 35 17. 35	63. 50 63. 00 61. 00 58. 25 57. 00 60. 50 61. 00 62. 35 63. 50 64. 00 63. 75	62. 25 61. 00 58. 50 56. 00 54. 25 56. 50 59. 00 60. 25 63. 30 63. 30 61. 75	375. 00 373. 00 360. 00 351. 00 341. 00 358. 00 368. 00 372. 00 373. 00 373. 00	372.00 357.00 352.00 337.00 330.00 339.00 353.00 357.00 366.00 368.00 370.00	69. 50 67. 00 64. 30 62. 75 62. 35 63. 25 64. 00 63. 90 64. 50 64. 10 64. 25 61. 50	65. 00 64. 50 61. 50 60. 70 61. 00 62. 00 63. 70 63. 70 64. 00 61. 00 58. 25	96. 91 95. 92 93. 28 90. 52 88. 10 94. 16 93. 61 95. 64 97. 19 96. 64 97. 30 97. 30	88. 19 87. 50 84. 72 80. 90 79. 17 84. 03 84. 72 86. 60 88. 19 88. 89 88. 89	100, 54 100, 00 96, 51 94, 10 91, 42 95, 98 96, 51 98, 66 99, 73 99, 20 100, 00	78. 18 75. 37 72. 33 70. 59 70. 14 71. 15 71. 99 71. 88 72. 56 72. 11 72. 28 69. 18
January. February. March. April. May. June. July. August. September. October. November. December.	14.70	17. 30 17. 17 16. 45 16. 41 16. 52 16. 30 15. 95 15. 60 15. 30 13. 75 13. 00 14. 55	63. 00 62. 75 61. 75 62. 75 62. 15 61. 25 60. 25 58. 00 57. 00 55. 75 54. 50	62. 50 62. 00 59. 60 59. 60 61. 25 60. 50 58. 50 57. 00 56. 00 52. 00 50. 00	368, 00 367, 00 362, 00 357, 00 352, 00 349, 00 346, 00 329, 00 323, 00 315, 00	366, 00 362, 00 348, 00 347, 00 350, 00 347, 00 329, 00 324, 00 294, 00 294, 00 310, 00	61. 50 61. 50 59. 15 54. 75 54. 20 52. 15 50. 00 47. 50 46. 00 44. 75 51. 00 64. 00	61. 00 59. 35 55. 00 53. 75 52. 25 46. 75 47. 25 46. 00 44. 75 41. 00 50, 25	95. 81 95. 53 94. 38 93. 33 91. 96 90. 91 90. 03 87. 55 85. 95 84. 03 80. 94	87. 50 87. 15 85. 76 87. 15 86. 32 85. 07 83. 68 80. 56 79. 17 77. 43 75. 69 79. 86	98. 66 98. 39 97. 05 95. 71 94. 37 93. 57 90. 08 88. 20 86. 60 84. 45 87. 94	69. 18 69. 18 66. 54 61. 59 60. 97 53. 66 56. 24 53. 43 51. 74 50. 34 57. 37
January. February. March. April. May. June. July. August September. October November. December.	15. 50 15. 68 15. 80 15. 32 15. 36 15. 36 15. 27 15. 53 16. 44 17. 58	15. 12 15. 37 15. 10 15. 00 15. 07 15. 17 15. 02 15. 55 16. 45 17. 75	58. 00 58. 25 58. 75 57. 00 56. 75 57. 00 57. 00 60. 25 63. 00 67. 75 69. 25	56. 50 57. 25 56. 25 56. 00 56. 00 56. 25 56. 00 55. 75 60. 25 64. 00 60. 00 68. 00	329. 00 331. 00 334. 00 325. 00 325. 00 325. 00 324. 00 327. 00 347. 00 369. 00	322. 00 325. 00 319. 00 319. 00 317. 00 321. 00 318. 00 327. 00 348. 00 374. 00	66. 00 65. 50 65. 75 64. 00 63. 75 63. 25 57. 25 53. 85 51. 50 60. 50 48. 00	60. 00 59. 50 60. 50 62. 00 62. 15 55. 50 52. 50 50. 25 50. 25 51. 35 48. 00 44. 00	85. 35 86. 34 87. 00 84. 36 84. 58 84. 08 85. 51 90. 52 96. 80 98. 29	80. 56 80. 90 81. 60 79. 17 78. 82 79. 17 79. 17 83. 68 87. 50 94. 10 96. 18	88. 20 88. 74 89. 54 87. 13 86. 60 87. 13 86. 86 87. 67 93. 03 98. 93 100. 80	74. 24 73. 68 73. 96 71. 99 71. 71 71. 15 64. 40 60. 58 57. 93 68. 06 62. 54 53. 99
1919. January February March April May June July August September October November	18. 28 18. 48 18. 70 19. 82 19. 79 19. 73 19. 88	17. 73 18. 23 18. 26 18. 36 18. 70 18. 99 19. 52 19. 33 18. 63 19. 32 19. 50	69. 00 70. 75 70. 65 68. 00 67. 50 67. 75 66. 00 62. 25 59. 50 56. 25 53. 50	68. 50 70. 50 66. 00 64. 50 64. 50 61. 75 57. 00 50. 50 53. 25	385.00 400.00 400.50 426.50 427.00 453.00 461.00 465.00 469.50	373. 00 383. 50 383. 50 396. 50 401. 00 410. 00 426. 00 448. 00 460. 00 467. 00	47. 25 45. 20 41. 50 37. 00 38. 80 37. 50 32. 00 27. 35 21. 45 18. 90 15. 15	44. 00 43. 00 36. 50 30. 00 30. 25 27. 50 26. 00 20. 50 15. 50 15. 50	100. 66 101. 76 102. 97 109. 14 108. 97 108. 64 109. 47 106. 60 108. 20	95. 83 98. 26 98. 13 94. 44 93. 75 94. 10 91. 67 86. 46 82. 64 78. 13	100. 54 103. 22 107. 24 107. 37 114. 34 121. 45 123. 59 124. 66 125. 87 132. 44	53. 15 50. 84 46. 68 41. 62 43. 64 42. 18 35. 99 30. 76 24. 13 21. 26

<sup>&</sup>lt;sup>1</sup> Data for Mar. 4-9 missing.

### 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, 56
Subsidiary coin	1 222	2,134	2,339	1,600	36
Checks and sight drafts, including foreign Current account deposits held abroad	13,328	18,030	17, 170	25, 210	35, 46
Current account deposits held abroad	16,751	51,084	39,070	19, 150	<b>4</b> 5, <b>6</b> 6
Government securities	24,574 3,002	52, 156	62,910	59, 856	54,61
Securities of domestic corporations.		5,334	5,692 121,623	5,539 186,345	5,04 280,30
Bills payable in Sweden. Bills payable abroad	43,400	113,620 91,141	121, 023 122, 413	110, 129	70, 49
Advances in current account.	2,505	2, 289	2, 498	1,396	1,20
Other advances.	42,694	24, 880	52, 898	121, 296	180,54
Sundry assets		63,964	66,390	85, 03 <b>0</b>	92,31
Total assets	503, 590	549, 204	676, 523	860,008	1,051,58
LIABILITIES.					
Capital	50,000	50,000	50,000	50,000	50,00
Surplus	12,500	12,500	12,500	12,500	12,50
Denosits	108.144	129,069	173, 130	197, 448	141,42 31
Due to foreign banks.	9.019	9,955	4,810	1,934	
Notes in circulation.		327,886	417,517	572,722	813,53
Bank orders.		2,608	<b>3</b> ,598	8,821	11,47
Dividends due and payable to the Government.  Sundry liabilities.		8,760 8,42 <b>6</b>	8, 120 6, 848	16,583	22,32
buildly traditions	9,020	0, 420	0,040	10,000	22,32
Total liabilities.	503, 590	549, 204	676, 523	860,008	1,051,58
	,	,	,	,	_,,,,,,,

### Assets and liabilities of the Bank of Norway on Dec. 31, 1914–1918 (in 1,000 kronor).

[Source: Regnskab for Norges Bank.]

	1914	1915	1916	1917	1918
ASSETS.  Gold in vault Held with Scandinavian banks of issue Held with other foreign agencies Loans and discounts, domestic Bills foreign Real estate loans Securities Sundry assets  Total assets	27, 884 119, 650 804 1, 512 8, 963	51, 630 15, 638 63, 240 86, 343 310 1, 385 13, 394 2, 428	123, 236 3, 089 79, 206 159, 711 551 1, 256 13, 440 7, 486	116, 393 3, 365 76, 921 409, 783 665 1, 102 13, 091 840	121, 980 3, 230 69, 786 433, 841 241 998 13, 221 1, 073 644, 370
LIABILITIES.					
Capital. Surplus Notes in circulation. Deposits. Sundry liabilities.  Total liabilities.	25, 000 13, 362 134, 182 1 21, 140 2 13, 390 207, 074	25,000 11,944 162,211 27,274 7,939	25,000 11,453 257,854 83,307 10,361	35,000 17,366 326,319 226,451 17,024 622,160	35,000 17,048 436,212 127,530 25,580 644,370

<sup>&</sup>lt;sup>1</sup> Exclusive of checking accounts.

<sup>&</sup>lt;sup>2</sup> Includes checking accounts.

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

	1914	1915	1916	1917	1918	1919
ASSETS.						
Gold coin and bullion Subsidiary coin Foreign credits. Danish Government securities. Other Danish securities Foreign Government securities Notes of and credits with other Scandinavian banks of issue. Domestic bills Foreign bills Loans and discounts Real estate. Other assets.  Total assets.	6, 135 14, 139 1, 919 1, 721 8, 083 229 59, 401 7, 509	107, 029 5, 413 37, 575 12, 381 7, 218 8, 990 1, 125 17, 324 2, 031 34, 093 269, 093	161, 455 3, 911 59, 915 21, 091 6, 377 8, 892 174 33, 133 10, 952 22, 067 2, 348 74, 699	195, 113 2, 732 41, 775 25, 789 5, 989 8, 647 15 36, 665 10, 117 18, 056 2, 806 100, 641	189, 778 2, 417 63, 988 17, 621 8, 088 4, 041 115 40, 142 10, 099 18, 959 2, 750 156, 267	187, 380 2, 824 43, 664 32, 576 11, 402 4, 259 27, 515 73, 778 7, 463 30, 521 3, 000 184, 840
	224,000	208,080	400,014	410,040	314, 203	009, 222
Capital. Surplus. Notes in circulation. Government deposits. Current account deposits. Other deposits. Due to foreign central banks of issue. Profit and loss. Other liabilities.	8, 206 156, 472 3, 634 16, 946 884 6, 538 3, 223	27,000 8,198 204,325 3,532 4,092 11,723 4,839 3,772 1,612	27,000 8,320 245,013 3,426 87,898 22,006 5,724 3,805 1,823	27,000 8,443 289,308 3,317 97,422 9,515 1,769 9,722 1,849	27,000 8,865 365,335 3,204 84,724 9,375 9,630 6,132	27,000 9,283 428,552 3,087 114,927 2,380 12,678 11,315
Total liabilities	224,065	269,093	405, 015	448, 345	514, 265	609, 222

#### 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 française 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

rise to a great deal of controversy. Even

prior to this discussion there had been publications on the subject and a committee of the for-

eign 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 them-

selves by pointing to the services they were ren-

dering to the export trade by discounting three months' paper and by credits which in some

cases they were extending to their clients en-

gaged 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, over-looked, 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

<sup>&</sup>lt;sup>1</sup> Based on an article in L'Économiste Français for June 28, 1919.

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 advocated 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 institution 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. 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."

<sup>&</sup>lt;sup>1</sup>For text of Article 4 see page 340 of the April, 1919, number of the Federal Reserve Bulletin.

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

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. 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 have authority to engage in ordinary banking business, except stock exchange and other speeulative operations.

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,

These payments shall be made:

1. As a subsidy which may attain a maximum amount of 2 million francs (2,000,000 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 For-eign 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 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 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 quotation was about 160 per cent above the

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 Government, 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 May, 1918, rose to about 19 per cent discount | 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	9.3=100).	Milan (1	9.3=100).
January	\$4. 7535 4. 7535 4. 7536 4. 7550 4. 7550 4. 7550 4. 7535 4. 76 4. 755 4. 757 4. 7575 4. 7585	Per cent. 97.68 97.68 97.68 97.71 97.71 97.71 97.68 97.98 97.71 97.71	\$17. 53 17. 51 17. 47 17. 49 17. 53 17. 50 17. 50 18. 26 18. 28 18. 29 18. 55 18. 34	Per cent. 90. 83 90. 73 90. 52 90. 62 90. 83 90. 67 94. 61 94. 72 94. 77 96. 11	\$12.03 11.76 11.98 11.38 11.15 11.29 12.48 15.71 15.70 15.75 15.75	Per cent. 62.33 60.93 62.07 58.96 57.77 58.50 64.66 81.40 81.35 81.61 81.61
January . 1919.  January . February	4. 7585 4. 7585 4. 7585 4. 6725 4. 6925 4. 6350 4. 57 4. 3550 4. 2625 4. 2325 4. 1625 3. 9875	97. 78 97. 78 97. 78 97. 77 96. 01 96. 42 95. 24 93. 91 89. 49 87. 59 86. 97 85. 53 81. 94	18. 33 18. 328 18. 298 17. 006 16. 474 15. 948 15. 396 13. 698 12. 787 11. 933 11. 3058 10. 08	94. 97 94. 96 94. 81 88. 11 85. 36 82. 63 79. 77 70. 97 66. 25 61. 83 58. 58 52. 23	15. 771 15. 718 15. 718 14. 245 13. 333 12. 738 12. 706 11. 60 10. 559 10. 256 9. 94 8. 103	81. 40 81. 44 73. 81 69. 08 66. 00 65. 83 60. 10 54. 71 53. 14 51. 50 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.

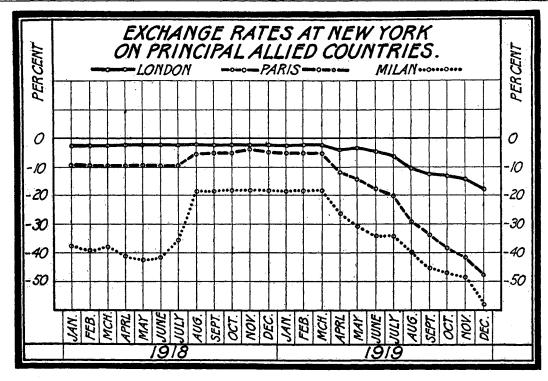
### 2. RATES ON CENTERS IN NEUTRAL COUNTRIES.

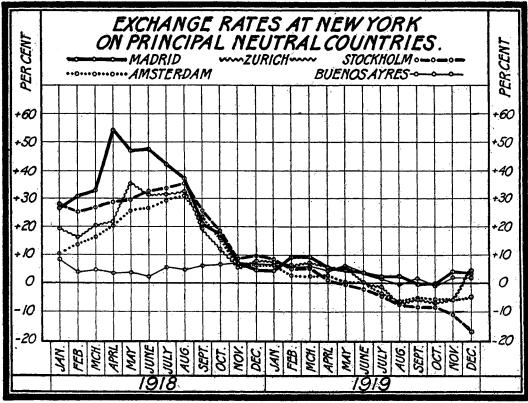
		erdam = 100).	Stockholm (26.8=100).		Zurich (19.3=100).		Madrid (19.3-100).		Buenos Aires (42.45=100).	
January February March April May June July August September October November December	46.75 48.25 50.50 51.00 52.00 52.75 49.50 46.75	Per cent. 110.07 113.43 116.29 120.02 125.62 126.87 129.35 131.22 123.13 116.29 105.10 106.34	\$34. 25 33. 50 34. 00 34. 50 34. 75 35. 60 35. 80 36. 25 33. 75 31. 80 29. 00 29. 45	Per cent. 127.80 125.00 126.87 128.73 129.66 132.84 133.58 135.26 125.93 118.66 108.21 109.88	\$22. 99 22. 42 23. 17 23. 53 26. 11 25. 38 25. 54 23. 04 21. 65 20. 32 20. 92	Per cent. 119. 12 116. 17 120. 05 121. 92 135. 28 131. 50 132. 33 119. 38 112. 18 105. 28 108. 39	\$24. 40 25. 25 25. 63 29. 75 28. 40 28. 55 27. 55 26. 50 23. 37 22. 65 20. 70 20. 20	Per cent. 126. 42 130. 83 132. 80 154. 15 147. 16 147. 93 142. 75 137. 31 121. 09 117. 36 107. 25 104. 66	\$45. 98 44. 04 44. 44 43. 85 43. 91 43. 38 44. 60 45. 00 45. 35 45. 50 45. 35	Per cent. 108.32 103.75 104.69 103.30 103.44 102.19 105.61 104.97 106.01 106.83
January February March April May June July August September October November December	41. 25 41. 125 41. 25 40. 25 39. 25 38. 75 37. 5625 38. 125 38. 0625	106. 34 102. 61 102. 30 102. 61 100. 12 97. 64 96. 39 93. 44 94. 84 94. 68 94. 53 95. 15	29. 10 28. 15 28. 15 27. 125 26. 70 26. 25 25. 50 24. 90 24. 60 23. 85 22. 30	108. 58 105. 04 105. 04 101. 21 99. 63 97. 95 95. 15 92. 91 91. 79 91. 79 88. 99 83. 21	20. 746 20. 597 20. 70 20. 3252 20. 3252 19. 305 19. 08 17. 92 18. 28 17. 985 18. 18 20. 08	107. 49 106. 72 107. 25 105. 31 105. 21 100. 03 98. 86 92. 85 94. 72 93. 19 94. 20 104. 04	20. 14 21. 10 21. 10 20. 375 20. 25 20. 06 19. 72 19. 75 19. 25 19. 28 20. 10 19. 90	104. 35 109. 33 109. 33 105. 57 104. 92 102. 18 102. 33 99. 74 99. 90 104. 14 103. 11	45. 15 44. 95 45. 00 44. 375 44. 875 44. 07 43. 25 42. 375 43. 25 42. 35 43. 375 43. 25	106. 36 105. 89 106. 01 104. 53 105. 71 103. 82 101. 88 99. 82 101. 88 99. 76 102. 18 101. 88

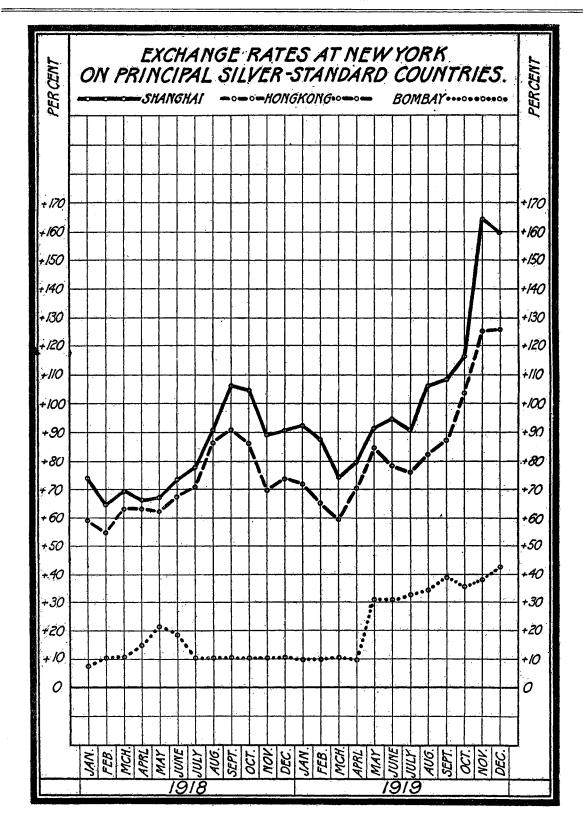
### 3. RATES ON CENTERS IN SILVER COUNTRIES.

1918.		32.44=100).	Shanghai (6	5.49=100).8	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	108.00	164.91	73.00	154.79	
March	36.00	110. 20	111.00	169.49	77.00	163. 27	
	1 37. 25		109 00	166.44	77.00	163. 27	
April		114.83					
May	39.50	121.76	109.50	167.20	76.50	162.21	
June		118.68	113.50	173.31	79.00	167.51	
July	1		[ 116.50	177.89	80.50	170.70	
August			125.00	190.87	88.00	186.60	
September	2 35, 73	110.14	135.00	206.14	90.00	190.84	
October			134.00	204.61	87.75	186.07	
November			124.00	189.34	80.00	169.64	
December	35, 875	110.59	125.00	190.87	82.00	173.88	
DOCUMENT.	05.0.0	110.00	120.00	100.00	02.00	110.00	
1919.					1	,	
January	35.65	109 90	126.00	192, 40	81.00	171.76	
February	35,65	109 90	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	
Fune	42.50	131.01	127.50	194, 69	84.00	178.12	
July.	43.00	132.55	125.00	190.87			
				206.14	83.00	176.00	
August		134.09	135.00		86.00	182.36	
September	45.00	138.72	136.50	208. <b>43</b>	88.50	187.66	
October	44.00	135.64	142.00	216.83	96.00	203.56	
November	44.75	137.95	173.00	264.16	106.00	224.77	
December	46.25	142.57	170.00	259.58	106.50	225, 83	

Minimum rate for telegraphic transfers fixed Apr. 11 at 35.75; previously 33.5.
 Rates for telegraphic transfers fixed June 18 at 35.73.
 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 November.

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

### Condition of retail trade in Federal Reserve district No. 12.

#### [Decreases shown in italics.]

					[2760	a cases s	HOWILL	i itanes.								
						Pe	ercenta	ge of inc	rease or	decreas	е.					
	Comparison of net sales with those of corresponding period last year.					Stocks at end of month compared with—										
		Mo	onth. 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. San Francisco. Oakland. Sacramento. Seattle. Spokane. Salt Lake City.	48. 8 31. 3 20. 7 16. 7 23. 7	68. 3 40. 9 25. 1 32. 5 27. 6	110.6 92.3 68.5 69.2 50.6 176.0	88. 7 45. 2 30. 3 36. 6 21. 0 46. 4 42. 7	58. 3 30. 0 20. 1 15. 4 24. 4	52. 9 33. 1 22. 4 22. 4 28. 3	69. 9 46. 5 32. 3 35. 7 31. 6 99. 9 24. 8	77. 2 46. 3 31. 9 35. 7 29. 5 70. 4 32. 0	6.3 .5 7.5 20.3 7.2	0.6 10.6 .5 10.7 17.8	13. 9 15. 5 1. 4 4. 6 15. 2	19.5 26.5 4.9 .3 15.3 13.8	5. 5 15. 6 6. 3 18. 7 22. 7	13. 12. 4.	2 9.7 6 5.4 8 3.7	6.
Total for district	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	10.	3 6.5	
	<u> </u>	<i>.</i>		<u>'</u>		,		end o	of each 1	average month f date, to s for san	rom Ju avera	ıly	ercenta orders total p dar yes	at en urchas	d of m es durin	standin onth t g caler
								Aug.	Sept.	Oct.	No	v. A	ug.	Sept.	Oct.	Nov.
Los Angeles						<b></b>			459. 5 460. 5 564. 7 400. 7 459. 0	442.3 558.3 355.9	3 453 3 559 3 339 3 439	3. 0 3. 1 3. 3 2. 0 2. 4	27. 9 34. 1 29. 2	22. 7 28. 1 28. 3	45. 1 25. 8 25. 1 16. 8	53. 29. 22. 20. 11.
Total for district								422. 4	470.7	459.	3 463	3.1	34.3	29.1	29.6	29.

# 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. 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

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

<sup>&</sup>lt;sup>1</sup> Acknowledgment is due Prof. R. E. Chaddock, Prof. W. F. Ogburn, and Mr. F. A. Ross, all of Columbia University, for critical advice with respect to the form of the schedule.

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

#### [Perforated line.]

(Fill in this slip, detach it, and file with bank.)

Name....

(After questionnaire is filled in, place it in envelope, seal, and return it to Governor of your bank.)

### 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 of the family 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 filling in the answers to any of the following questions, read Section I entire.

#### EXPENDITURES.

2. Rental value of home, if owned.

(The meaning of this question is: If for the whole or a part of the year ending Dec. 31, 1919, you owned your home, for how much do you think you could have rented it for that period, as judged by rentals of similar houses in the neighborhood?)

3. Amount paid for heat, light, electric power, during the year ending Dec. 31, 1919.

(Heat or light furnished with your apartment or house and covered by the rent is not to be included here. The word "heat" is meant to include that used for cooking.)

4. Amount paid for food during the year ending Dec. 31, 1919 (If you have no record of the amount spent for food during the year ending Dec. 31, 1919, we would suggest 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, even though a part of this food 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 were married for only a part of the time, estimate the amount for the year at the rate of expenditures during the period married.)

5. Amount paid for clothing during the year ending Dec. 31, 1919.

5. Amount paid for elothing during the year ending Dec. 31, 1919.

(The amount entered here should cover the clothing expenditures of the family group, but not those of boarders and lodgers. In case you were married for only a part of the time, estimate such expenses for a full year.)

6. Amount spent for furniture and house furnishings during year ending Dec. 31, 1919.

7. Miscellaneous expenditures:

(a) Health (including doctors' fees, medicine, hospital bills, dentists' fees, nurses' fees, eyeglasses, etc.).

(b) Recreation—

(1) Board and room while on vacation...

(2) Movie tickets, theater tickets, pool, billard and bowling charges, club dues, railroad fare, etc.

(c) Education (including newspapers, magazines, school tuition, school supplies, music lessons, etc.).

(d) Other miscellaneous items not mentioned above.

above.... Total miscellaneous expenditures.....

9. Did you keep for all or a part of the year ending Dec. 31, 1919, a record of expenditures? If so, what part?

10. Did you keep during the year ending Dec. 31, 1919, charge accounts with butcher? .... Grocer? .... Clothier? .... Were these paid by check?

#### INCOME.

<sup>.</sup> Copies of the questionnaire now in the hands of the banks are to be mended to accord with the copy here presented.

7. Total income from table boarders during the year ending Dec. 31, 1919...

(Lodgers and boarders within the meaning of these questions 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 family in the sense of reduced rates for any consideration. In case you have an individual or individuals both boarding and lodging with you and paying a flat sum covering both items, enter the amount which would be charged for table board alone after 7, then deduct this sum from the amount paid for board and lodging and enter the remainder after question 6.)

Total earnings.....\$....

### 4

## SECTION II.

This section is to be filled in by those who give their expenditures as individuals rather than family expenditures.

Before filling in the answers to any of the following questions read Section II entire.

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 8.

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

Dec. 31, 1919, lived with their immediate family or nearest relatives.)

2-B. Amount paid for food during the year ending Dec. 31, 1919.

(This 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. 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 for lunches during the period. If for a portion of the year you did live 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 immediate family or nearest relatives and multiplying that figure by 52.)

3. Amount paid for heat and light during the year ending Dec. 31, 1919.

(This question is to be answered only by these whe for

that figure by o.z.)

3. Amount paid for heat and light during the year ending Dec. 31, 1919.

(This 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. If for a portion of the year you were living with your immediate family or nearest relatives. It 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 at the rate paid during that part of the year in which you did not live 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.

5. Miscellaneous expenditures:

(a) Health (including doctor's fees, medicine, nurses' fees, hospital bills, dentists' fees, eyeglasses, etc...

(b) Recreation—

(1) Board and room while on vacation...

(2) Movie tickets, theater tickets, railroad fares, pool, billiard and bowling charges, club dues, etc...

5. Miscellaneous expenditures—Continued.

(c) Education (including newspapers, magazines, books, school tuition, school supplies, music lessons, etc.).

(d) Other miscellaneous items not mentioned

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 record of expenditures?

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?

#### INCOME.

Total earnings..... \$....

### The Edge Act.

Senate bill 2472, known as the "Edge bill," providing for the incorporation of insti-tutions 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.]

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 institu-tions 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

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, thereafter, 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 cartifects which shall preside allows that 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

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 "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. number of shares into which the same shall be divided.

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 advan-

tages 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 two-thirds 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

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 hills or drafts drawn upon it subject 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 strice, but in he event having habitutes 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 de-pendencies 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 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 in-sular 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 poration 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 pri-

vate 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

"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 operation. ations 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 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 sub-

as amended shark not exceed to per centum of the sub-scribing bank's capital and surplus.

"A majority of the shares of the capital stock of any such "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. 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, privlleges, 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 cor-poration 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 liquida-tion 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 an-nually 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 direcnames 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

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 un-impaired capital sufficient to entitle it to become a corpo-ration 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 to do whatever may be required to make its organization perfect and complete as a Federal corporation. The shares perfect and complete as a Federal corporation. 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

"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 offi-cer 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 corpora-tion 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 there-of be imprisoned for not less than two years nor more than the discretion of the court.

"Whoever being connected in any capacity with any

"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:

> [Public-No. 103-66th Congress.] [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 incon-

sistent 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

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.—Chess C.—Chess C.—Ch

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. 2.—St. Louis:

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. Paul, Minn.

Class C.—C. H. Benedict, Lake Linden, Mich.

District No. 10 — Kansas City:

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. Ira 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 BRANCH.

(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. Bailey.

Directors.—J. E. England, A. F. Bailey, Moorhead Wright, G. W. Rogers, C. A. Pratt.

#### LOS ANGELES BRANCH.

(Federal Reserve Bank of San Francisco.)

Manager.—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. Heffin.
Directors.—R. Brinkley Snowden, John D. McDowell,
John J. Heffin, 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 BRANCH.

(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.

 $(\textbf{Federal} \ \textbf{Reserve} \ \textbf{Bank} \ \textbf{of} \ \textbf{San} \ \textbf{Francisco.})$ 

Manager.—Chas. A. McLean.
Dircctors.—D. W. Twohy, R. L. Rutter, Chas. A. McLean, 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 Citizens Bank of Cape Vincent, Cape	\$100,000	\$35,000	\$1,538,980
Vincent, N. Y. State Bank of Endicott, Endicott, N. Y. Ridgefield Park Trust Co., Ridgefield	50,000 50,000	8,000 10,000	170,606 60,000
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, 98
town, Ky	105,000 200,000 500,000	60,000 800,000 75,000	1,006,468 11,130,344 4,620,382
District No. 6.		!	
Bank of Cave Springs, Cave Springs, Ga.	25,000	25,000	313,57
District No. 7.			
Farmers State Bank, Bellevue, Mich The First State Bank, Carsonville, Mich. Lake Odessa State Savings Bank, Lake	25,000 25,000	5,000 5,000	154, 19 481, 22
Odessa, Mich. Lapham State Savings Bank, North-	25,000	12,500	392, 83
ville, Mich Farmers State Bank, Vicksburg, Mich	50,000 25,000	15,000 5,000	721, 59 484, 55
District No. 8.			
The Bank of Versailles, Versailles, Mo Bank of Waynesville, Waynesville, Mo.	75,000 25,000	7,000 5,000	577, 98 562, 37
District No. 6.		1	
Commercial Bank, Menominee, Mich Southern Montana Bank, Ennis, Mont. American Bank & Trust Co., Missoula,	100,000 25,000	20,000 20,000	717, 49 398, 85
American Bank & Trust Co., Missoula, Mont	100,000	11,500	1,887,21
Mont	25,000	5,000	188,36
District No. 19.			
The State Savings & Mercantile Bank, Wichita, Kans Kilgore State Bank, Kilgore, Nebr Stockgrowers State Bank, Pawhuska,	200,000 25,000 60,000	20,000 5,100 6,000	299,74
Okla First State Bank, Locust Grove, Okla	25,000	8,500	230,09
District No. 11.			
Central Savings Bank & Trust Co., Monroe, La.	250,000	62, 500	2, 119, 51

236, 300 25, 000

500,000

125,000 25,000

1,500,000 1,725,000 36,001,546 1,800,000 1,100,000 62,634,439 25,000 ...... 27,500

1,000,000 28,216,489

District No. 12.

Alameda Savings Bank, Alameda, Calif.
Surprise Valley Bank, Cedarville, Calif.
Standard Bank of Orange County,
Fullerton, Calif.
Guaranty Trust & Savings Bank, Los
Angeles, Calif.
Los Angeles, Trust & Savings Bank,
Los Angeles, Calif.
Security Trust & Savings Bank, Los
Angeles, Calif.
California Bank of San Mateo County,
San Bruno, Calif.

	Capital.	Surplus.	Total.
District No. 12—Continued.			
Bank of Sausalito, Sausalito, Calif	\$50,000	\$7,000	\$615,839
Butte County Bank, Arco, Idaho	25,000		28,750
The Myton State Bank, Myton, Utah	25,000	10,000	275,665
Commercial Bank, Spanish Fork, Utah.	50,000	10,000	387,987
Bank of Duchesne, Duchesne, Utah	25,000	2,500	225,941
The Farmers Bank, Ellensburg, Wash State Bank of Enumclaw, Enumclaw,	50,000	50,000	1,684,726
Wash	30,000	10,000	686.502
Citizens Bank of Renton, Renton, Wash. The Washington Trust Co., Spokane,	25,000	10,000 5,000	686, 502 684, 907
Wash	200,000	40,000	1, 196, 810

#### LIQUIDATIONS.

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.)

Bio 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.)

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:

Bs	anks.	
New charters issued to	30	
With capital of	\$1.	955,000
Increase of capital approved for	20	
With new capital of	1,	715,000
Aggregate number of new charters and		
banks increasing capital	50	
With aggregate of new capital authorized	3,	670,000
Number of banks liquidating (other than		
those consolidating with other national		
banks under the act of June 3, 1864)	7	
Capital of same banks	-:	275,000
Number of banks reducing capital	ł	
Reduction of capital		75, 000
Total number of banks going into liquida-		
tion or reducing capital (other than those		
consolidating with other national banks	0	
under the act of June 3, 1864)	8	950 000
Aggregate capital reduction	••	350,000
Consolidation of national banks under the	1	
act of Nov. 7, 1918	T	50 000
Capitalthe foresting statement shows the agence		50, 00 <b>0</b>
The foregoing statement shows the aggregate of increased capital for the period of		
the banks embraced in statement was	. 9	670,000
Against this there was a reduction of capital	3,	070,000
owing to liquidation (other than for con-		
solidation with other national banks un-		
der the act of June 3, 1864) and reduc-		
tions of capital of		350,000
oromo or curpature or contract	· · · ·	
Net, increases	3,	320,000

### Branch at Oklahoma 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 Institution: 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.	Num	ber.	Liabilities.			
Districts.	1919	1918	1919	1918		
First. Second. Third. Pourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth.	61 99 29 58 26 34 74 28 6	50 101 36 55 25 22 101 40 15	\$535,609 1,548,918 589,611 4,071,586 132,640 301,065 434,048 235,393 108,176 204,082	\$795, 956 1, 674, 791 987, 779 770, 106 364, 083 2, 742, 183 4, 837, 148 494, 104 81, 276 198, 531		
EleventhTwelfth	28 86	32 76	253, 516 762, 677	293, 019 576, 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 com-

mittee 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.
Wilber National Bank, Oneonta, N. Y.

#### DISTRICT No. 3.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and com-

mittee of estates of lunatics:
First National Bank, Emporium, Pa.
Moshannon National Bank, Philipsburg, Pa.
Guardian of estates, assignee, receiver, and committee of

eatates of lunatica 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, Ill. Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and com-

mittee 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, assignee, 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 com-

mittee 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 industry 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, wherein 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 drafts eligible for accept 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 so-called 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 accombasis of a renewal draft.

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 receipts, the same general principles are applicable. 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

### WHOLESALE PRICES.

In continuation of figures shown in the December Bulletin 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 previous issues of the Bulletin.

Quotations for three commodities, namely worsted yarns (2-32s, 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. 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 glass-

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 conhead of raw materials. spicuous 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. 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. index number for the animal-products sub-group 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.

[Average price for 1913-100.]

		F	taw material	s.				All com- modities
Year and month.	Farm products.	Animal products.	Forest products.	Mineral products.	Total raw materials.	Producers' goods.	Consumers' goods.	
July, 1914 November, 1914 November, 1915 November, 1916 November, 1917 November, 1918	104 166	106 103 101 127 187 210	97 96 92 98 129 150	91 89 100 157 160 185	99 97 100 139 183 199	93 92 109 156 181 203	103 103 105 143 182 219	100 98 103 144 183 206
January. 1919. January. February. March April May June July August September October November.	234 224 237 246 255 250 261 251 240 254 275	208 210 217 224 225 217 233 235 215 212 212	147 148 149 145 146 156 166 193 227 234 239	179 175 173 170 170 173 177 180 184 184 183	196 194 199 202 205 203 214 218 216 220 226	196 192 190 186 189 196 202 212 212 211 216	216 205 210 214 219 217 230 241 226 228 236	203 197 201 203 207 219 219 220 221 222 230

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, table have been abstracted from the records of 1919, to November, 1919, compared with like the United States Bureau of Labor Statistics.

In order to give a more concrete illustration factual price movements there are also prented in the following table monthly actual nd relative figures for certain commodities of basic character, covering the period January,

Average monthly wholesale prices of commodities.

[Average price for 1913=100.]

	Corn, 1 Chica		Cotton, m New Or	iddling, leans.	Wheat, northern Minnea	spring,	Wheat, red wir Chica	nter, ´	Cattle, s good to Chics	choice,	Hides, pa heavy r steers, C	ıative 🏻
Year and month.	A verage price per bushel.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per bushel.	Rela- tive price.	A verage price per bushel.	Rela- tive price.	Average price per 100 pounds.	Rela- tive price.	A verage price per pound.	Rela- tive price.
July, 1914 November, 1914 November, 1915 November, 1916 November, 1916 November, 1917 November, 1918 January, 1919 February, 1919 March, 1919 April, 1919 June, 1919 June, 1919 July, 1919 July, 1919 September, 1919 October, 1919 November, 1919	1. 3750 1. 2763 1. 4588 1. 5955 1. 7613 1. 7563 1. 9075 1. 9213 1. 5410 1. 3888	114 111 106 157 329 206 223 207 237 259 286 285 310 312 256 226 242	\$0. 1331 .0742 .1155 .1960 .2804 .3007 .2850 .2694 .2681 .2670 .2947 .3185 .3377 .3125 .3377 .3125 .3363	105 58 91 154 221 237 224 212 211 210 232 251 266 246 242 279 312	\$0.8971 1.1594 1.0182 1.9300 2.1700 2.2206 2.2225 2.2350 2.3275 2.5890 2.5925 2.4575 2.6800 2.5250 2.5250 2.8250	103 133 117 221 244 254 256 296 296 297 281 307 289 301 323	\$0. 8210 1. 1486 1. 1250 1. 8116 2. 1700 2. 2375 2. 3375 2. 3450 2. 3613 2. 2630 2. 7800 2. 3613 2. 2550 2. 2394 2. 2394 2. 2394 2. 2394 2. 2881	83 116 114 184 220 227 241 239 267 289 229 229 227 227 227 227 232	\$9. 2188 9. 4063 8. 8450 10. 3500 14. 3875 18. 1563 18. 4125 18. 4688 18. 5750 17. 7438 15. 4600 16. 3688 17. 6375 16. 8055 17. 5938 17. 5000	108 111 104 122 169 213 216 217 218 215 209 182 198 207 198	\$0.1938 2175 2625 3150 2900 2800 2200 2763 3513 4075 4880 5200 4638 4820 4688	105 118 143 171 192 158 152 150 160 191 222 264 283 252 262 265

# $\label{eq:Average monthly wholesale prices of commodities} \begin{tabular}{l} \textbf{Average price for 1913-100.} \end{tabular}$

			[		100 101 1010							
	Hogs, l Chica	ight, go.	Wool, Ol grades, so	io, <del>1-8</del> oured.	Hemle New Y	ock, ork.	Yellow floori New Y	ng,	Coal, anti stove, Nev tidewa	v York,	Coal, bitu run of r Cincin	nine,
Year and month,	Average price per 100 pounds.	Rela- tive price.	Average price per pound,	Rela- tive price.	Average price per M feet.	Rela- tive price.	Average price per M feet.	Rela- tive price.	Average price per long ton.	Rela- tive price.	Average price per short ton.	Rela- tive price.
July, 1914.  November, 1914.  November, 1915.  November, 1916.  November, 1917.  November, 1918.  January, 1919.  February, 1919.  March, 1919.  May, 1919.  June, 1919.  June, 1919.  August, 1919.  August, 1919.  September, 1919.  October, 1919.  November, 1919.	\$8. 7563 7. 4813 6. 6450 9. 4063 17. 3500 17. 7063 17. 4125 17. 4688 18. 8550 20. 3813 20. 7000 22. 3875 21. 6125 18, 2100 14, 7250 14, 1438	104 88 79 111 205 209 206 207 224 245 245 246 265 215 174 167	\$0. 4444 . 4722 . 6143 . 6857 1. 3571 1. 4365 1. 1200 1. 0909 1. 0727 1. 1818 1. 2364 1. 2364 1. 2182 1. 2634 1. 2545	94 100 130 146 255 232 222 228 223 223 263 263 263 266	\$24, 5000 24, 2500 21, 2500 23, 7500 30, 5000 36, 0000 36, 0000 36, 0000 36, 0000 41, 0000 41, 0000 44, 0000 44, 0000	101 100 88 98 126 149 149 149 149 149 182 177 182	\$42,000 42,000 38,000 40,000 57,000 63,000 64,000 64,000 64,000 65,000 68,000 73,000 73,000 73,000 70,000 100,000	94 94 85 90 128 141 144 144 146 152 164 175 213 224	\$4. 9726 5. 1912 5. 1766 6. 6946 6. 1469 7. 8071 7. 9500 7. 9600 7. 9044 7. 9045 7. 9857 8. 1174 8. 1881 8. 4020 8. 4135 8. 4273	98 103 102 113 121 154 157 156 158 160 162 164 166 166	\$2. 2000 2. 2000 2. 2000 3. 7500 4. 1000 4. 0000 4. 00	100 100 100 170 170 186 186 182 182 182 182 182 205 205
Year and month.	Coal, Po tas, No		Coke, Co vill	nnells- e.	Copper, electrol New Y	lytic.	Lead, desilve New Y	rized,	Petroleun Pennsyl at we	vania,	Pig iron,	basic.
1 gai and month.	Average price per long ton.	Rela- tive price.	Average price per short ton.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per barrel.	Rela- tive price.	Average price per long ton.	Rela- tive price.
July, 1914		100 100 95 200 147 154 163 163 163 171 171 171	\$1. 8750 1. 5500 2. 3750 6. 0000 6. 0000 5. 7813 5. 2188 4. 4688 3. 9000 3. 8437 4. 0000 4. 0950 4. 2188 4. 5920 4. 8250 5. 9375	77 64 97 236 246 237 214 183 160 158 173 188 173 188 243	\$0. 1340 .1125 .1788 .2863 .2350 .2008 .1731 .1509 .1530 .1600 .1756 .2150 .2281 .2221 .2172 .2038	85 72 114 182 149 165 130 110 96 97 102 112 137 145 141 138	\$0.0390 .0350 .0490 .0700 .0613 .0805 .0558 .0508 .0524 .0507 .0508 .0530 .0561 .0579 .0609	89 80 111 159 139 183 127 115 115 115 120 128 132 133 146	\$1. 7500 1. 4500 1. 8000 2. 6000 3. 5000 4. 0000 4.	71 59 73 106 143 163 163 163 163 163 163 163 163 173 173 173	\$13. 0000 12, 4800 15, 7500 25, 1000 33. 0000 30. 0000 30. 0000 28, 9375 25, 7500 25, 7500 28, 3125	88 85 107 121 224 204 197 175 175 175 175 175 175 175
Year and month.	Cotton northern 10/	cones,	Leather hemlock	, sole, No. 1.	Steel b Besser Pittsb	mer,	Steel p tank, l burg	Pitts-	Steel rail hearth, burg	Pitts-	Worsted 2-32's o bre	cross-
	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.
July, 1914.  November, 1914  November, 1915.  November, 1916.  November, 1917.  November, 1918.  January, 1919.  February, 1919.  March, 1919.  April, 1919.  May, 1919.  June, 1919.  July, 1919.  August, 1919.  September, 1919.  November, 1919.  November, 1919.	. 2050 . 3325 . 4700 . 5927 . 5000 . 4164 . 4132 . 4300 . 4826 . 5608 . 5912 . 6130	97 70 93 150 212 268 226 188 187 194 253 267 277 267 276 300	\$0.3050	108 113 174 170 174 174 174 174 174 181 188 202 202 202 202	\$19,0000 19,2500 26,5000 47,5000 47,5000 43,5000 43,5000 43,5000 38,5000 38,5000 38,5000 38,5000 38,5000 38,5000 41,3750	74 75 103 202 184 184 169 164 149 149 149 149 149 149 160	\$0.0113 .0110 .0150 .0375 .0325 .0325 .0330 .0300 .0291 .0265 .0265 .0265 .0265 .0265 .0265	76 74 101 253 220 203 203 197 179 179 179 179 179 177 177 177	\$30,0000 30,0000 30,0000 35,0000 40,0000 57,0000 57,0000 54,5000 47,0000 47,0000 47,0000 47,0000 47,0000 47,0000 47,0000	100 100 100 117 133 190 190 182 157 157 157 157 157 157	\$0.6500 .6300 .8500 1.2000 1.9000 2.1500 1.7500 1.5000 1.5000 1.6000 1.6000 1.6242 1.7500	84 81 119 154 245 277 225 219 193 193 206 209 225 225

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

Flour, wheat,														
Year and month.	Beef, ca good no steers, Cl	ative	Coffee, Ri	o No. 7.	standard 1	patents, , 1919; I war.	Hams, sr Chica	noked, go.	Illuminat 150° fire New Y	test,	Sugar, g late New Y	d,		
	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per barrel.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per gallon.	Rela- tive price.	Average price per pound.	Rela- tive price.		
July, 1914	. 1438 . 1375 . 1375 . 1900 . 2450 . 2450 . 2450 . 2450 . 2450 . 2430 . 2025 . 2075 . 2350 . 2275 . 2275 . 2290	104 111 106 106 147 189 189 189 189 189 160 160 181 176	\$0.0882 .0638 .0750 .0950 .0794 .1069 .1547 .1544 .1602 .1695 .1931 .2114 .2303 .2150 .1663 .1650 .1697	79 57 67 85 71 96 139 139 144 152 173 190 207 193 149 148 152	\$4, 5938 5, 8813 5, 5000 9, 8250 10, 2250 10, 2750 10, 5500 11, 2125 12, 2150 12, 4188 12, 0125 12, 1550 12, 10063 11, 6200 12, 0313 12, 9500	100 128 120 214 223 224 230 245 266 271 262 265 262 263 263 264 262 263 263 264 265 266 278 268 268 268 268 268 268 268 268 268 26	\$0. 1769 1663 1625 2031 2900 3541 3494 3338 3351 3595 3769 3°06 3835 3838 3480 2900 2859	106 100 98 122 174 213 210 201 203 216 227 229 231 209 174 172	\$0. 1200 1200 1200 1200 1200 1300 1750 1750 1810 1850 2000 2050 2180 2220 2200	97 97 97 97 105 142 142 147 150 150 162 166 177 178 178	\$0.0420 0.0493 0.568 0.735 0.8812 0.8822 0.8822 0.8822 0.8822 0.8822 0.8822 0.8822 0.8822 0.8822 0.8822	98 115 133 172 192 207 207 207 207 207 207 207 207 207 20		

#### DISCOUNT AND INTEREST RATES.

In the following tables are presented actual discount and interest rates prevailing in the various cities in which the several Federal Reserve Banks 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 current 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 loans, 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 to a lesser extent also in the case of bankers' acceptances. While remarked in the changes in high, low, and customary rates for these classes of paper, 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, collateral 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 BULLETIN for commercial paper purchased in the open market and for low rates for customers' commercial paper, as well as increase in rates for bankers' acceptances and 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.

	Prime commercial paper.  ct. City Customers'. Open market.				Interbank	Bankers' a 60 to 9	cceptances, 0 days.		loans—stock		Cattle	Secured by warehouse	Secured by Liberty bonds and	
District.	City	Custo	mers'.	Open	narket.	loans.		•				loans.	receipts,	certificates of indebt-
		30 to 60 days.	4 to 6 months.	s. 30 to 90 4 to 6 months.			Indorsed.	Unindorsed.	Demand.	3 months.	3 to 6 months.		etc.	edness.
No. 1 No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 11	Boston. New York 1 Buffalo. Philadelphia Cleveland. Pittsburgh. Cincinnati. Richmond. Baltimore. Atlanta. Birmingham. Jacksonville. New Orleans Chicago. Detroit. St. Louis. Louisville Memphis Little Rock. Minneapolis Kansas City. Omaha. Denver. Dallas. El Paso. Houston. San Francisco. Portland. Seattle. Spokane. Salt Lake City.	8 6 6 8 6 8 7 5 6 6 5 5½-6 7 6 6 8 5 6 8 5½ 7	C. 51-51-51-51-51-66   6 5 5 5 5 6 6 6 7 5 6 6 6 5 5 6 6 6 5 6 6 6 7 6 6 6 6	C. C	C. C	C. C. C. S.	H. L. 418 415 52 416 42 42 42 42 42 42 42 42 42 42 42 42 42	H. L. C.  45 41 41 45 5  48 41 47 6  48 41 48 6 6  48 41 48 6 6  6 6 6  48 47 48 41 6  6 6 6  48 47 48 41 6  6 6 6  48 48 41 6  6 6 6  48 48 48 41 6  6 6 6  48 48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 48 6  6 6 6  48 48 6  6 6 6  48 48 68 6  6 6 6  48 48 68 6  6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 48 68 6  6 6 6 6  48 68 68 6  48 68 68 6  6 6 6 6  48 68 68 6  48 68 68 6  6 8 8 8 8 8 8 8 8 8 8 8 8 8 8	H. 6. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 5 5 6 6 6 7 7 5 5 6 6 6 7 7 5 5 6 6 6 7 7 6 5 6 6 6 6	L. 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	L. 6 6 5 5 6 6 6 5 5 6 6 6 6 5 5 6 6 6 6			C. 55 5 6 5 5 6 5 5 5 5 5 6 6 5 5 5 5 6 6 5 5 5 5 6 6 5 5 5 5 5 6 6 5

<sup>1</sup> Rates for demand paper secured by prime bankers' acceptances, high 6, low 42.

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				nercial paper			Bankers' a	cceptances, 0 days.		loans—stock			Secured by	Secured by Liberty
District.	City.	Custon	mers'.	Openı	narket.	Interbank loans.						Cattle loans.	warehouse receipts,	bonds and certificates
		30 to 90 days.	4 to 6 months.	30 to 90 days.	4 to 6 months.		Indorsed.	Unindorsed.	Demand.	3 months.	3 to 6 months.	The state of the s	etc.	of indebt- edness.
No. 1 No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 11	Boston. New York 1 Buffalo. Philadelphia. Cleveland. Pittsburgh. Cincinnati. Richmond. Baltimore. Atlanta. Birmingham. Jacksonville. New Orleans. Nashville. Chicago. Detroit. St. Louis. Louisville. Memphis. Little Rock. Minneapolis. Kansas City. Omaha. Denver. Dallas. El Paso. Houston. San Francisco. Portland. Seattle. Spokane. Salt Lake City.	6 5 6 6 6 6 7 6 6 5 5 6 6 6 8 8 6 6 8 8 8 7 7 5 5 6 6 7 7 8 5 5 7 7	C. 6 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 54 6 6 55 6 6 6 55 7 5 5 7 8 6 55 7 6 6 6 5 5 7 6 6 7 6 7 7 7 7 8	## L. C. C. 65 52 63 66 65 53 54 66 66 65 55 55 55 66 66 65 55 55 55 66 66	C. 53		5 1 4 4 4 4 4 5 5 4 4 4 4 5 5 4 4 5 5 6 6 6 7 6 7 6 5 4 4 5 5 4 4 5 5 4 4 5 5 4 5 6 6 6 5 5 4 5 6 6 6 6	H. 8 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	C. C	## C.666666	8 6 6-7 7 6 6 6 10 6 8 8 8 8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	C. 5-12-6 C. 5-1

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

<sup>1</sup> Rates for demand paper secured by prime bankers' acceptances, high, 6, low 42.

### PHYSICAL VOLUME OF TRADE.

In continuation of tables in the December FEDERAL RESERVE BULLETIN there are presented in the following tables certain data will be presented from relative to the physical volume of trade. The figures are obtained.

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.	Total, all kinds.
1918. November	Head. 2,627,695	Head. 4,615,328	Head. 2,539,315	Head. 135,345	Head. 9,917,683	Head. 1,235,065	Head. 1,227,180	Head. 1,450,723	Head. 135,791	Head. 4,048,759
1919. January. February. March. April. May June. July. August. September October. November	1,440,329 1,501,597 1,751,943 1,822,410 1,580,256 2,007,266 2,019,139 2,377,054	5, 861, 685 4, 404, 751 3, 632, 874 3, 668, 210 3, 862, 785 3, 812, 466 2, 998, 836 2, 103, 609 2, 401, 677 3, 144, 831 3, 775, 589	1,567,613 1,131,805 1,216,988 1,388,732 1,425,018 1,685,236 2,177,942 3,211,33 3,810,441 3,605,198 2,751,421	110, 411 82, 526 68, 938 50, 770 33, 977 40, 067 48, 691 81, 917 140, 848 124, 497 140, 192	9, 651, 413 7, 059, 411 6, 420, 397 6, 859, 655 7, 144, 190 7, 118, 025 7, 232, 735 7, 415, 996 8, 730, 020 9, 863, 616 9, 347, 244	761, 168 528, 326 563, 893 698, 599 788, 086 709, 637 706, 843 894, 316 1, 150, 183 1, 532, 297 1, 374, 452	1,546,875 1,288,134 1,272,654 1,107,411 1,181,745 1,373,824 963,662 690,821 860,614 1,103,837 1,308,095	608,016 418,827 481,907 575,136 614,275 828,046 997,338 2,014,267 2,466,937 2,159,531 1,597,007	106, 459 76, 512 64, 332 49, 634 34, 658 36, 889 43, 738 74, 268 135, 724 125, 701 134, 679	3,022,518 2,311,799 2,382,786 2,430,780 2,618,764 2,948,396 2,711,581 3,674,172 4,613,458 4,921,366 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, Louisville, Wichita.]

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

	Cattle and	l calves.	Но	zs.	She	ep.	Horses an	d mules.	Total, al	l kinds.
	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative
1918. November	2,053,359	204	3,431,782	156	1,677,537	123	64,482	140	7,227,160	156
1918.  1919.  anuary  Pebruary  April  day  une  uly  august eptember october  November	1,656,046 1,096,118 1,094,614 1,255,379 1,262,065 1,122,782 1,527,881 1,541,133 1,871,042 2,317,487 2,046,664	164 116 109 125 125 111 152 153 186 230 203	4,603,335 3,451,894 2,842,663 2,823,484 3,049,223 3,061,338 2,411,539 1,595,759 1,704,944 2,160,079 2,715,955	209 168 129 128 139 139 110 73 78 98	1,079,377 774,881 847,842 970,070 934,613 1,116,003 1,558,767 2,220,229 2,890,831 2,405,511 1,743,189	79 61 62 71 68 82 114 162 212 176 128	56, 631 48, 786 41, 805 31, 509 21, 345 28, 418 37, 866 57, 206 88, 283 79, 240 84, 018	123 114 91 68 46 62 82 124 192 172 183	7, 395, 419 5, 371, 679 4, 326, 924 5, 080, 442 5, 267, 246 5, 239, 041 5, 536, 053 5, 414, 327 6, 555, 100 6, 962, 317 6, 589, 826	166 122 100 110 114 112 122 117 144 151
			s	HIPMEN	rs.					
1918. November	921,8 <b>3</b> 1	227	659, 432	136	903, 283	179	63,589	155	2,548,135	17
January February March April May June July August September October November	589, 362 404, 296 423, 819 506, 835 530, 153 503, 354 515, 071 650, 252 872, 043 1, 154, 995 993, 148	145 107 104 125 130 124 127 160 214 284 244	988, 035 881, 507 925, 802 748, 437 787, 009 1, 005, 505 691, 283 455, 705 501, 856 654, 755 788, 107	204 195 191 154 162 208 143 94 104 135 163	357, 386 240, 815 289, 742 319, 625 290, 803 465, 776 694, 942 1, 352, 252 1, 849, 958 1, 382, 419 945, 992	71 51 58 63 58 93 138 269 367 275 188	56, 282 47, 829 41, 837 29, 974 18, 865 25, 322 32, 836 49, 996 83, 264 80, 828 78, 889	137 125 102 73 46 62 80 122 203 197	1,991,065 1,574,447 1,681,200 1,604,871 1,626,830 1,999,957 1,934,132 2,508,205 3,307,121 3,272,997 2,806,136	136 118 117 117 113 136 137 236 226

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

	Beef, can	ned.	Beef, fre	sh.	Beef, pic and other		Bacon	•	Hams and ders, cui		Lard.		Pickled p	oork.
	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.
1918. 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
January February March April May June July	8,997,973 2,896,759 5,669,232 6,574,766	1,907 1,318 1,358 437 856 992 814	17, 436, 495 13, 729, 993 14, 651, 276 21, 639, 915 14, 872, 987 15, 212, 094 8, 680, 524	1,406 1,186 1,181 1,744 1,199 1,226 700	6,030,937 3,635,120 3,749,394 2,673,681 2,957,163 4,768,308 3,320,564	226 146 140 100 111 178 124	101,000,122 114,842,525 151,086,397 141,814,255 68,957,465 172,441,100 117,679,193	603 735 902 847 412 1,030 703	54,846,433 49,283,053 85,712,426 109,569,968 49,707,874 96,854,552 47,452,834	367 354 574 734 333 649 318	37, 850, 338 68, 972, 779 97, 239, 435 86, 555, 951 55, 807, 234 114, 328, 804 68, 163, 734	86 168 221 197 127 260 155	2,273,683 1,956,362 2,141,508 2,494,454 2,095,072 3,131,639 2,392,515	51 47 48 56 47 71 54
August September . October November	2,894,361 1,213,709 1,793,784 1,393,238	437 183 271 210	8,075,366 7,285,951 31,178,216 15,694,002	651 587 2,513 1,265	2,494,113 3,523,887 3,402,422 2,997,652	93 132 127 112	84,150,778 57,179,511 56,462,312 65,288,694	502 341 337 390	40,147,727 18,209,239 13,090,972 16,844,285	269 122 88 113	48,968,628 36,960,364 41,016,518 42,106,339	111 84 93 96	2,117,796 2,792,439 3,804,290 4,934,696	48 63 86 101

### 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.]

,	Whea	it.	Corn	•	Oats		Rye	э.	Barle	у.	Total gra	an.	Flou	r.	Total grai flour.	n and
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tıve.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Bushels.	Rela- tive.
1918. November	40, 199, 988	149	15, 869, 505	71	28, 768, 648	142	6, 340, 380	573	9, 193, 786	128	100, 372, 307	129	2, 485, 352	127	111, 556, 391	129
1919. January February March April May June July August Sept'ber Nov'ber Nov'ber	14, 049, 055 13, 768, 496 11, 208, 305 11, 625, 657 8, 125, 034 49, 612, 115 80, 714, 559 69, 953, 295 51, 006, 164	56 51 42 43 30 184 299 260 189	28, 731, 387 13, 034, 852 13, 431, 797 18, 301, 721 10, 301, 200 21, 098, 146 12, 549, 219 8, 503, 282 16, 267, 145 12, 490, 107 14, 606, 137	62 60 82 46 94 56 38 72 56	22, 945, 659 15, 961, 423 17, 976, 822 20, 663, 678 19, 206, 465 24, 576, 968 25, 233, 109 29, 774, 582 29, 7721, 030 24, 323, 974 17, 699, 925	85 99 95 122 125 147 132 120	5, 615, 054 2, 406, 029 4, 955, 130 5, 498, 493 4, 280, 911 2, 791, 618 3, 105, 486 3, 824, 263 5, 446, 371 4, 472, 397 2, 579, 579	233 448 497 387 252 281 345 492 404	11, 723, 691 9, 634, 405 8, 416, 141 12, 878, 517 8, 627, 091 6, 638, 871 5, 294, 256 4, 369, 326	98 163 134 117 180 120 93 74 61	52,007,953 60,955,936 64,706,602 53,830,374 69,470,283 99,127,020 129,455,557 123,682,097 96,661,968	72 78 83 69 89 127 166 159 124	1,396,888 1,032,368 1,485,320 1,990,349 2,447,200 1,894,599 1,572,420 2,283,145 3,275,034 3,468,787 3,541,957	56 76 102 125 97 80 117 167	56, 653, 609 67, 639, 876 73, 663, 173 64, 842, 774 77, 995, 979 106, 202, 910 131, 738, 702 138, 419, 750 112, 271, 510	70 78 85 75 90 122 152 160 129

<sup>1</sup> Flour reduced to its equivalent in wheat on basis of 4½ 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.]

	Whea	t.	Corn	•	Oats		Rye	· <b>.</b>	Barle	у.	Total gra	aın.	Flou	ır.	Total grai	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Bushels.	Rela- tive.
1918. November	42, 083, 808	273	10, 583, 718	75	<b>26, 564, 98</b> 3	175	4,770,708	674	4, 165, 066	107	88, 168, 283	178	4, 597, 360	136	<b>108, 856, 40</b> 3	168
January February February March April June July August Sept'ber October Nov'ber	8, 876, 844 14, 857, 872 30, 764, 328 31, 901, 327 8, 151, 872 12, 423, 422 36, 986, 491 37, 730, 048 25, 813, 130	62 96 199 207 53 81 240 245 167	7,544,393 15,708,842 7,784,931 8,629,052 8,102,275 5,135,459 6,622,779 7,116,502	65 53 111 55 61 57 36 47 50	19, 769, 237 13, 603, 691 16, 19, 086 17, 069, 617 15, 638, 317 15, 628, 503 17, 919, 623 16, 651, 580 16, 705, 015 15, 582, 081	96 107 105 112 103 103 118 110		61 526 1, 150 1, 063 387 218 203 327 202	6,049,703 6,632,763 6,677,508 9,588,195 9,133,000 5,028,674	155 170 171 246 234 129 75 79	48, 356, 120 77, 268, 599 70, 959, 177 44, 748, 029 46, 833, 304 66, 506, 624 66, 265, 314 54, 149, 126	81 98 156 144 91 95 135 134	2,796,463 1,932,258 3,039,020 3,532,772 4,320,146 3,130,826 2,589,176 3,805,273 4,787,300 5,975,261 5,604,616	61 90 104 128 92 76 112 141 176	46, 235, 302 62, 031, 710 93, 166, 073 90, 399, 834 58, 836, 746 58, 484, 596 83, 630, 353 87, 808, 164 81, 037, 801	77 96 144 140 91 90 129 136 125

 $<sup>^1</sup>$  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 Seattle and Tacoma.]

# [Compiled from reports of trade organizations at these cities.] [Monthly average, 1911-1913=100.]

	Whea	t.	Corn		Oats		Rye	<b>).</b>	Barle	у.	Total gr	ain.	Flou	r.	Total grai flour.	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela-	Bushels.	Rela- tive.
March April May June July August Sept'ber	9, 768, 801 7, 805, 811 13, 789, 851 12, 581, 074 14, 157, 852 10, 260, 075 5, 806, 227 26, 902, 757 26, 902, 757 21, 755, 827	78 66 109 100 112 81 46 214 222 117	1, 411, 366 783, 263 636, 127 1, 089, 425 1, 588, 571 1, 051, 177 901, 842 815, 132 512, 072 507, 065	40 24 18 31 45 30 25 23 14	9, 275, 187 4, 713, 794 3, 254, 914 4, 604, 521 5, 642, 176 10, 249, 644 6, 959, 186	195 106 69 97 119 216 146 119 113	2, 299, 664 3, 880, 424 5, 069, 529 7, 061, 048 3, 670, 055 1, 479, 951 64, 510 535, 701	398 1,734 2,731 3,568 4,970 2,583 1,042 45 377 1,210	1, 738, 326 995, 454 2, 285, 954 1, 853, 372 3, 561, 412 6, 564, 620 9, 723, 852 4, 993, 395 2, 171, 521 796, 839	105 64 138 112 215 396 586 301 131	22, 759, 871 16, 597, 986 23, 847, 270 25, 197, 921 32, 011, 059 31, 795, 571	100 78 105 111 141 140 110 169 161	1,656,205 2,026,246 1,302,061 1,644,676 2,549,370 2,535,547 2,340,158 1,514,135 1,385,762 2,306,213 2,521,329 1,552,796	194 134 157 244 243 224 145 133 221 241	31, 877, 978 22, 457, 261 31, 248, 312 36, 670, 086 43, 421, 021 42, 326, 282 31, 684, 666 44, 688, 707 46, 953, 575 33, 459, 451	116 88 114 134 158 154 116 163 171 122

 $^{\rm 1}$  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. 1919.	13, 904, 426 15, 365, 491	252, 225 645, 317	3, 548, 473 5, 495, 937	2, 385, 828 1, 972, 696	2,845,916 3,047,346	, , ,
January February March April	12,635,613 12,732,472 7,448,992	417,520 346,543 464,503	6, 110, 159 5, 650, 120 5, 335, 971	1,735,876 1,920,348 3,434,873	3,930,465 4,403,665 5,420,013	28, 526, 787 24, 829, 633 25, 053, 148 22, 104, 352 18, 362, 611 17, 168, 145 15, 978, 570 25, 761, 182 27, 823, 176 30, 865, 383
May. June. July August	4, 180, 160	448,020 214,079 265,196 155,491	4,047,059 5,475,856 3,760,063 2,216,989	1,690,860 514,252 867,491 578,250	4, 263, 510 6, 783, 798 5, 528, 176 5, 414, 183	18, 362, 611 17, 168, 145 15, 978, 570 25, 761, 182
September. October November	5,557,644 17,396,269 21,171,440 25,322,242 18,728,730	172, 254 82, 240 155, 490	1,901,510 1,898,271 2,504,833	516,142 483,270 1,264,494	4,061,830 3,079,360 2,351,012	27,823,176 30,865,383 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 rec	Sight receipts.		Port receipts.		Overland move- ment.		pinners'	Stocks at ports and interior towns at close of month.	
	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.
August 1918-19.  September October November January February March April May	988, 156 1, 632, 921 1, 710, 666 1, 709, 734 1, 392, 468 768, 444 601, 858 494, 106 536, 139	32 79 130 136 136 111 61 48 39 43	226, 242 536, 190 779, 371 641, 283 690, 782 705, 493 477, 696 460, 066 462, 363 502, 082	25 58 85 70 75 77 52 50 50	50, 482 42, 028 158, 768 217, 450 157, 038 157, 270 106, 368 75, 489 79, 700 99, 041	48 40 151 207 149 149 101 72 76 94	372, 394 352, 025 697, 623 1,007, 892 929, 491 705, 353 383, 157 202, 556 149, 566 193, 016	82 77 154 222 205 155 84 45 33 42	1,306,868 1,644,690 2,189,007 2,745,815 2,697,141 2,637,908 2,689,379 2,604,549 2,484,852 2,417,631	111 140 186 233 229 224 228 221 211 205
Season, total	11,724,104	78	6,735,898	61	1,528,262	121	5, 850, 715	107	1,928,959	164
August	584,776	25 47 142 186	238, 271 260, 698 1, 029, 331 1, 178, 443	26 28 112 128	49,630 26,138 110,202 205,139	47 25 105 195	302, 238 300, 001 621, 784 1, 115, 226	67 66 137 245	1,412,048 1,501,805 2,340,881 2,616,383	120 127 199 222

# ${\it California\ shipments\ of\ citrus\ and\ deciduous\ fruits.}$

	Orai	iges.	Len	ions.	Total cits	Total deciduous fruits.	
	Carloads.	Relative.	Carloads.	Relative.	Carloads.	Relative.	Carloads.
1918.  November 1919.  January 1919.  February March April May 1019.  June July August September October November	1,125 3,120 3,180 5,113 5,450 5,888 3,648 2,568 2,785 1,840 2,706 3,257	128 139 209 223 241 149 105 73 75 111	676 531 658 897 1,038 1,501 1,520 1,038 414 436 414 572 442	131 174 221 256 371 375 256 108 102 141	1,801 3,651 3,838 6,010 6,488 7,389 5,168 3,606 2,221 2,254 3,278 3,699	63 128 144 211 228 259 181 127 78 79 115	1,044 109 198 67 36 276 896 4,199 6,601 6,781 5,529 2,141

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.
November 1918.  November 1919.  January 1919.  February March April	138, 141 243, 806 389, 815 355, 710 450, 938	172,528 197,145 337,420 361,010 387,548	50, 989 66, 189 122, 757 106, 889 185, 315	1919.  May June July. August September October. November	471, 205 429, 617 394, 557 333, 686 352, 345 279, 962 183, 084	446, 685 493, 293 435, 247 356, 048 295, 278 202, 525 203, 267	201, 301 151, 692 115, 341 85, 654 39, 193 48, 376

[Data for ports of New York, Boston, Philadelphia.]

[Weekly Statistical Sugar Trade Journal.]

[Tons of 2,240 pounds. Monthly average 1911-1913=100.]

	Recei	pts.	Meltings.		Raw stocks at close of month.			Recei	pts.	Meltings,		Raw stocks at close of month.	
	Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.		Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.
1918. November  → 1919. January February March April	139, 343 172, 054 283, 172 232, 471 318, 492	76 93 165 126 173	139,000 147,000 229,000 261,000 277,000	76 80 134 142 151	43, 112 36, 544 90, 716 62, 187 107, 582	25 21 53 36 62	1919.  May. June. July. August. September. October. November.	325, 736 271, 875 264, 782 246, 419 262, 137 233, 650 154, 674	177 148 144 134 142 127 84	307,000 313,000 292,000 229,000 292,000 216,000 177,000	167 171 159 125 159 118 96	126, 318 85, 193 57, 975 75, 394 45, 531 63, 181 40, 855	73 49 34 44 26 37 24

#### Naval stores.

# (Data for Savannah, Jacksonville, and Pensacola.)

#### [In barrels.]

# [Compiled from reports of trade organizations at these cities.]

	Spirits of tur- pentine.		Rosin.				rits of tur- centine. Rosin.		sin.
	Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.		Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.
1918. November	13,003	124, 471	55, 508	255, 037	1919. May	26,358 31,904	47,115 33,733	50, 435 63, 456	229,404
January 1919. January March April	7,645 5,583 4,226 8,379	125, 541 121, 676 97, 450 75, 546	34, 835 22, 154 14, 338 19, 493	285, 808 259, 974 243, 813 225, 657	June July August September October November	27, 747 21, 013 21, 574 19, 367 18, 757	30,656 24,756 27,021 27,389 28,741	77,062 74,402 72,616 67,080 77,125	221,612 235,707 203,812 190,580 186,231 204,281

### Lumber.

### [From reports of manufacturers' associations.]

# [M feet.]

	s	outhern p	ine.	Western pine.			Douglas fir.			Eastern white pine.			Nor	North Carolina pine.		
	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Produc-	Ship- ments.	
1918. November	194	312, 126	353,810	38,46	90,078	74, 103	121	261, 189	240,986	16	23,529	23,828	42	32,596	36,01	
January February March April	200 195 198 203 205	330, 137 328, 069 378, 752 397, 005 414, 899	325,241 309,494 361,125 397,677 460,238	21, 49 24, 48 27, 48 43, 49 45, 48	40,354 46,037 71,426 124,341 140,037	68,910 71,103 81,328 97,679 127,730	122 122 120 114 111	225, 688 228, 031 254, 650 264, 623 345, 984	227, 129 238, 035 255, 544 266, 308 388, 803	13 15 11 11 11 12	7,565 6,802 7,118 11,431 24,548	15,172 17,081 17,525 14,020 17,136	40 39 41 38 31	28,629 25,806 32,110 22,369 14,375	23, 89 18, 03 22, 67 21, 87 17, 39	
JuneJulyAugustSeptember	204 206 204 202	360,084 401,939 417,036 416,640	426, 193 466, 786 423, 002 372, 727	49 48 48 51	156, 561 148, 533 152, 748 154, 102	139, 923 140, 680 140, 236 138, 537	115 114 118 126	300, 410 268, 634 416, 422 332, 905	327, 364 301, 050 397, 290 261, 797	12 9 11 12 10	29,741 27,382 20,247 16,913	26,525 22,470 26,839 22,574	38 35 36 35	20,733 22,326 27,177 33,146	28, 86 34, 19 30, 15 35, 46 22, 07	
October November	201 202	421,025 391,347	356, 124 344, 717	52 51	156, 828 110, 525	143, 252 117, 472	124 126	419, 108 324, 511	339,321 241,301	10 11	12,888 2,786	18, 139 21, 596	26	24,055	22	

# RECEIPTS AND SHIPMENTS OF LUMBER AT CHICAGO.

### [Chicago Board of Trade.]

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

	Receip	Receipts.		nts.		Receip	pts. Shipm		nts.
	M feet.	Rela- tive.	M feet.	Rela- tive.		M feet.	Rela- tive.	M feet.	Rela- tive.
1918. November	142, 230	67	72,728 47.922	95 62	May	162,365 184,862 200,148 170,385	77 87 94 80	66,001 80,762 90,134 87,953	86 105 118 115
February	97, 511 124, 040 144, 253	49 59 68	47, 922 45, 585 46, 902 59, 055	64 61 77	SeptemberOctoberNovember	205, 909 208, 638 176, 972	97 98 83	93, 120 95, 674 70, 175	121 125 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, es-	Anthracite	Anthracite coal, ship-		Coke, estimated monthly production.								
	timated production		ments over 9 roads.		Beehive.		By-product.		Total.					
	Short tons.	Relative.	Long tons.	Relative.	Short tons.	Relative.	Short tons.	Relative.	Short tons.	Relative.				
1918. November	43, 895, 000	118	5, 276, 659	94	2,339,197	89	2, 523, 746	287	4, 862, 943	139				
January February March	31,566,000 33,719,000	112 91 91 87	5,934,241 3,871,932 3,938,908	105 74 70	2,401,567 1,822,894 1,768,449 1,316,960	92 75 68	6,779,482	257	12,772,392	12				
April	37,547,000 37,055,000 42,754,000	101 100 115	5,224,715 5,711,915 5,619,591 6,052,334	93 101 100 108	1,135,840 1,170,752 1,512,178	50 43 45 58								
August	42,880,000	116 128 147 55	6,144,144 5,687,401 6,560,150 5,971,671	109 101 117 106	1,733,971 1,790,466 1,551,980 1,680,775	66 68 59 64								

### Movement of crude petroleum in United States.

# [U. S. Geological Survey.] [Barrels of 42 gallons each.]

	Market	ted.	Stocks at end		Market	ed.	Stocks at end
	Barrels.	Relative.	of month (barrels).		Barrels.	Relative.	of month (barrels).
1918. November	29,914,000	156	131,295,000	1919. May June July.	29,985,000 31,644,000 33,894,000	156 165 177	130,321,000 133,995,000 140,093,000
January February March April	30, 196, 000 26, 910, 000 30, 234, 000 29, 386, 000	158	127,777,000 126,982,000 129,213,000 130,729,000	AugustSeptemberOctoberNovember	33, 862, 000 33, 667, 000 33, 319, 000 32, 114, 000	177 176 174 168	136, 467, 000 137, 131, 000 135, 461, 000 131, 601, 000

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

	Crude oil run (barrels).	Gasoline (gallons).	Kerosene (gallons).	Gas and fuel (gallons).	Lubricating (gallons).
October 1918.	29, 237, 767	314,251,318	164,928,640	661,780,441	72, 244, 633
January 1919. February March April May June July August September October	27, 866, 775 27, 775, 217 30, 267, 227 28, 920, 764 31, 202, 522 32, 362, 057 32, 601, 044	303, 710, 556 283, 518, 194 311, 306, 755 319, 807, 838 354, 472, 377 338, 336, 985 342, 491, 757 326, 846, 167 339, 582, 564 363, 456, 747	158, 501, 260 164, 181, 787 170, 290, 930 183, 453, 728 190, 345, 222 205, 727, 289 219, 502, 888 199, 244, 293 227, 104, 346	589, 680, 056 553, 853, 753 574, 774, 156 588, 808, 408 652, 166, 738 632, 205, 805 638, 185, 469 685, 702, 461 683, 409, 674 680, 158, 446	68, 304, 613 62, 503, 072 67, 063, 995 70, 954, 128 76, 442, 252 64, 636, 153 67, 037, 414 72, 920, 214 70, 236, 692 78, 658, 410
STOCKS AT CLC	SE OF MON	rh.		<u> </u>	<del></del>
Oct. 31. 1919.  Jan. 31. 1919.  Feb. 28. Mar. 31. Apr. 30. June 30. June 30. June 30. June 31. Aug. 31. Sept. 30. Oct. 31. Oct. 31.	15, 380, 185 14, 820, 601 15, 106, 361 15, 184, 844 16, 372, 314 16, 775, 723 15, 304, 915 15, 131, 549 13, 925, 441	250, 328, 329 383, 212, 692 458, 449, 187 546, 062, 429 593, 616, 170 594, 035, 688 593, 896, 610 514, 919, 358 434, 531, 446 371, 125, 419 354, 160, 071	332, 393, 181 303, 062, 436 294, 677, 623 276, 356, 837 244, 635, 631 252, 542, 434 279, 855, 061 296, 065, 646 311, 843, 057 329, 160, 795	596, 116, 351 646, 411, 414 692, 316, 000 749, 067, 806 807, 895, 498 788, 740, 572 811, 790, 637 817, 809, 519 830, 329, 785 862, 135, 385 828, 574, 452	135, 196, 542 158, 370, 431 152, 297, 163 165, 495, 254 170, 122, 088 173, 754, 109 175, 384, 775 173, 884, 303 170, 572, 819 158, 997, 070 152, 536, 736

#### Iron and steel.

[Great Lakes from one movements, Marine Review; pig-iron production, Iron Age; steel-ingot production, American Iron and Steel Institute.]

[Monthly average, 1911-1913=100; iron one, monthly average, May-November, 1911-1913=100.]

	Iron ore s from th Lakes.	hipments e upper	Pig iron pr	oduction.	Steel ingot tion		Unfilled orders U. S. Steel Corporation at close of month.	
	Gross tons.	Relative.	Gross tons.	Relative.	Gross tons.	Relative.	Gross tons.	Relative.
November. 1918.  January 1919.  February. March April May	1,412,239	<b> </b>	3, 354, 074 3, 302, 260 2, 940, 168 3, 090, 243 2, 478, 218 2, 108, 056	145 143 136 133 107 91	3,060,760 3,082,427 2,688,011 2,662,265 2,239,711 1,929,024	128 130 120 110 93	8, 124, 663 6, 684, 268 6, 010, 787 5, 430, 572 4, 800, 63 4, 282, 631	154 127 114 103 91 81 93
June. July. August. September. October. November.	7,980,839 9,173,429 4,423,133 8,178,483	132 151 73 135 102 52	2,114,863 2,428,541 2,743,388 2,487,965 1,863,558 2,392,350	91 105 118 107 80 103	2, 219, 219 2, 508, 176 2, 746, 081		4,282,310 4,892,855 5,578,661 6,109,103 6,284,638 6,472,668 7,128,330	93 106 116 119 123 135

# Imports of pig tin.

# [Department of Commerce.] [Monthly average, 1911-1913=100.]

	Pounds.	Relative.		Pounds.	Relative.
1918. November. 1919. January 1919. February March April	10, 734, 179 8, 461, 444 6, 271, 977 8, 284, 970 504, 903	93 74 91 6	May. June July August. September October November	449, 270 112, 000 113, 120 9, 872, 459 11, 087, 403 16, 210, 512 15, 233, 671	5 1 1 109 122 178 168

# Raw stocks of hides and skins.

# [Bureau of Markets.]

#### [In pieces.]

	Cattle hides.	Calfskins.	Kipskins.	Goat.	Kıd.	Cabretta.	Sheep and lamb.
Jan. 31. 1919.  Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30. Oct. 31. Nov. 30.	5, 922, 514 5, 791, 095 5, 108, 516 5, 256, 384 4, 549, 004 4, 696, 332 4, 966, 081 5, 498, 844 6, 158, 289 6, 436, 765 6, 719, 202	1, 294, 949 1, 266, 021 1, 219, 935 1, 845, 254 2, 273, 368 2, 285, 015 2, 389, 368 2, 145, 320 2, 055, 084 2, 007, 208 1, 806, 367	515, 523 429, 704 415, 882 421, 474 386, 244 558, 033 554, 516 585, 269 947, 546 1, 097, 039 1, 086, 211	4, 239, 381 5, 683, 585 7, 987, 277 12, 980, 410 15, 121, 868 16, 991, 195 15, 589, 944 18, 263, 446 13, 930, 167 15, 302, 942 14, 248, 129	245, 815 227, 513 181, 952 724, 0075 2, 521, 016 1, 964, 828 880, 276 823, 740 2, 239, 604 331, 389	601, 686 843, 344 559, 576 1, 520, 522 2, 044, 524 1, 697, 754 2, 767, 694 2, 348, 769 2, 655, 774 2, 574, 499 2, 677, 336	6,844,680 9,033,943 8,264,864 9,095,816 8,039,531 8,118,702 6,815,160 7,126,885 8,661,215 10,122,930 9,336,964

NOTE.-Figures for Nov. 30 are provisional.

#### Textiles.

[Silk, Department of Commerce; cotton, Bureau of the Census; wool, Bureau of Markets; idle machinery, January-September, 1918, inclusive, National Association of Wool Manufacturers.]

[Cotton, monthly average crop years 1912-1914=100; silk, monthly average 1911-1913=100.]

		onsump-			Percenta	ge of idle	woolen to tota	machine l reporte	ry on first d.	of month	Imports of raw silk.		
	tic	on.	Cotton spindles active	Wool con- sumption	Looi	Looms.			Spinning spindles.		•		
	Bales.	Relative.	during month.	(pounds).	Wider than 50- inch reed space.	Under 50-inch reed space.	Sets of cards.	Combs.	Woolen.	Worsted.	Pounds.	Relative.	
1918. 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	
1919. January. February. March. April. May June. July. August. September. October. November.	555,344	124 103 96 106 109 105 113 112 109 123 109	33, 856, 472 33, 282, 593 32, 642, 376 33, 213, 026 33, 556, 011 33, 943, 405 34, 184, 407 34, 187, 310 34, 216, 662 34, 307, 367 34, 483, 775	32, 573, 970 23, 186, 818 29, 320, 063 39, 159, 945 45, 084, 834 48, 849, 892 54, 973, 093 48, 933, 476 52, 985, 961 60, 018, 415 52, 428, 854	40.3 52.3 58.1 48.4 36.6 29.6 22.0 16.0 14.8 13.9	32. 6 41. 5 42. 4 38. 9 32. 9 26. 6 26. 0 21. 9 22. 8 20. 7 18. 2 19. 1	32. 2 38. 7 39. 1 26. 5 17. 1 15. 4 9. 7 9. 4 8. 1 8. 2 7. 6 10. 5	30. 7 39. 8 47. 8 22. 5 12. 8 7. 6 6. 5 5. 5 5. 3	36. 5 41. 1 41. 8 28. 4 16. 8 15. 2 8. 9 7. 9 7. 7 6. 7 8. 4	37. 5 48. 6 52. 7 36. 1 25. 8 21. 1 13. 5 10. 9 12. 8 7. 2 6. 7	1, 461, 827 1, 742, 812 1, 784, 412 2, 988, 838 4, 878, 646 3, 848, 354 5, 202, 407 3, 802, 500 6, 755, 271 3, 955, 845 4, 841, 407	71 91 87 146 238 188 254 186 330 193 237	

# Production of wood pulp and paper.

# [Federal Trade Commission.]

[Net tons.]

	Wood pulp.	News print.	Book.	Paper board.	Wrap- ping.	Fine.		Wood pulp.	News print.	Book.	Paper board.	Wrap- ping.	Fine.
1918. November 1919. January. February. March. April	270,849 283,270 238,228 278,675 284,984	101, 403 116, 154 103, 248 114, 746 116, 278	70, 443 62, 616 63, 699	148,671 140,859 125,208 136,175 138,802	59,572 50,490 45,480 48,069 48,158	30,322 27,675 24,600 23,514 22,470	1919. May June. July. August September. October. November.	294, 067 277, 142 260, 685 260, 987 266, 915 308, 710 147, 672	113,929 113,413 111,434	76, 821 71, 938 75, 613 82, 737 81, 024 89, 440 84, 085	151,651 152,957 169,593 189,782 184,897 202,524 182,940	56, 579 60, 656 63, 769 64, 861 63, 353 67, 110 63, 394	25,010 27,122 30,036 33,122 31,923 34,808 32,468

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

	Ciga	ars.	Cigarettes.	Chewing and	ļ	Cig	ars.	Cigarettes.	Chewing and
	Large.	Small.	Small.	smoking tobacco.		Large.	Small.	Small.	smoking tobacco.
1918. August	Number. 624, 491, 239	Number. 60,880,910	Number. 3,442,446,234	Pounds. 40, 764, 853	1919. April May	Number. 510,357,494 551,659,749	Number. 73,314,273 57,611,547	Number. 2,650,182,742 2,767,699,400	Pounds. 29,883,710 33,340,102
1919. January February March	518, 706, 482 476, 329, 947 549, 098, 351	72, 458, 974 60, 138, 630 84, 493, 873	3, 079, 212, 253 3, 126, 274, 662 3, 845, 079, 275	29, 308, 616 27, 472, 269 29, 227, 678	JuneJulyAugust	576, 976, 572 569, 965, 088	48, 855, 070 47, 290, 267	3,140,393,217 3,585,111,783	31,312,150 33,838,667

### Output of locomotives and cars.

#### [Locomotives, United States Railroad Administration; cars, Railway Car Manufacturers' Association.]

	Locom	otives.	Oı	itput of ca	rs.		Locom	otives.	Output of cars.		
	Domestic shipped.	Foreign com- pleted.	Domestic.	Foreign.	Total.		Domestic shipped.	Foreign com- pleted.	Domestic.	Foreign.	Total.
1918. November	135 258	Number. 252 84 164 128 36	Number. 6,743 8,172 6,623 5,978 7,777	Number. 2,330 3,635 4,657 5,795 7,373	Number. 9,093 11,807 11,280 11,773 15,150	1919.  May. June. July. August. September. October. November.	Number. 207 160 121 160 111 39 9	Number. 31 44 73 173 51 23 23	Number. 4,573 1,785 2,777 18,509 19,980 10,445 8,967	Number. 8,533 5,307 6,936 5,015 4,302 3,715 2,622	Number. 13,106 7,092 9,713 23,524 24,282 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.	Gross tonnage.	Relative.		Number.	Gross tonnage.	Relative.
1918. November	171 132 135	357,660 264,346 271,430	1,480 1,094 1,203 1,233	1919.  May	250 272 245 238 202 210	395, 408 422, 889 397, 628 455, 338 378, 858 357, 519	1,636 1,750 1,645 1,884 1,568
March April	186 201	298, 005 375, 605	1, 233 1, 554	October November	210 143	357, 519 347, 051	1,479 1,436

# Tonnage of vessels cleared in the foreign trade.

# [Department of Commerce.]

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

		Net tonn	age.		Per cent-				Net tonn	age.		Per cent-	
	American.	Foreign.	Total.	Rela- tive.	age of Ameri- can to total.	Rela- tive.		American.	Foreign.	Total.	Rela- tive.	age of Ameri- can to total.	Rela- tive.
1918. November 1919. January February March April	1,770,935 1,166,391 1,262,487 1,161,416 1,744,753	1,991,725 1,896,123 1,671,070 1,737,171 2,058,220	3, 762, 660 3, 062, 514 2, 933, 557 2, 898, 587 3, 802, 973	97 78 75 75 75 98	47. 1 38. 1 43. 0 40. 1 45. 9	186 151 170 158 181	1919.  May June July August September October November	2,362,571 2,957,249	2, 469, 194 2, 511, 501 2, 920, 247 2, 797, 818 2, 481, 676 2, 073, 560 1, 910, 489	4,894,031 4,850,821 5,282,818 5,755,067 5,109,156 4,719,338 4,162,360	126 125 136 148 131 121 107	49. 5 48. 2 44. 7 51. 4 51. 4 56. 1 54. 1	196 191 177 203 203 222 214

### Net ton-miles, revenue and nonrevenue.

### [United States Railroad Administration.]

November1918.	35,564,236,000	1919 May	32,440,708,000
anuary. Pebruary March April	30, 383, 169, 900 25, 681, 943, 000 28, 952, 925, 000	June July July August September October November	31, 953, 366, 000 34, 914, 294, 000 36, 361, 653, 000 38, 860, 311, 000 40, 343, 750, 000 32, 539, 248, 000

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

	Grain, othe	r than	Wheat		Flour.		Iron or	e.	Total	
	**HGA4.									
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Rela- tive.
1918. November	7,189,456	81	52,702,409	274	1,054,630	91	4,417,282	74	6,855,760	91
1919. April	4,176,041 9,370,374 6,694,901 7,100,008	105 75	16,729,000 29,096,116 6,402,051 2,391,840	151 33 12	910, 524 1, 031, 630 915, 420	78 89 79 81 79	1,139,326 6,622,227 8,004,897 8,012,609	112 135 150	1,756,266 7,895,542 8,554,979 9,343,396	113 122 133 72
August September October November	5,284,741 2,918,591 4,351,059 8,654,903	75 80 59 33 49 97	1,487,218 10,180,991 22,252,196 17,388,391	53 116 90	915,420 935,700 917,420 1,544,510 1,402,260	81 79 133 121	8,912,609 4,727,994 7,978,562 6,059,450 3,299,532	80 134 102 56	5, 080, 651 8, 525, 794 7, 063, 120 4, 201, 881	72 122 101

# WESTBOUND.

	Hard co	al.	Soft coa	d.	Total.		Total freight.	
	Short tons.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Reia- tive.
1918. November.	487,569	157	1,517,020	79	2,157,751	87	. 8,513,511	90
April 1919.  May June July August. September. October November.	142, 864 248, 263 227, 200 344, 462 185, 387 231, 030 498, 505 466, 135	80 73 111 60 75 161 150	415,824 2,239,738 2,266,984 2,037,265 1,189,558 1,156,841 1,848,511 307,241	117 118 106 62 60 96 16	616, 897 2, 670, 784 2, 664, 437 2, 572, 756 1, 529, 310 1, 677, 123 2, 650, 799 932, 615	107 107 103 61 67 107 37	2, 373, 163 10, 566, 326 11, 219, 416 11, 916, 152 6, 609, 961 10, 202, 917 9, 713, 919 5, 134, 496	111 118 125 70 107 102 54

#### BANK TRANSACTIONS DURING NOVEMBER-DECEMBER.

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-

In the table below are shown debits to 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.		W	1919 Teek ending				w	1918 eek ending-	-	
	Dec. 24.	Dec. 17.	Dec. 10.	Dec. 3.	Nov. 26.	Dec. 24.	Dec. 18.	Dec. 11.	Dec. 4.	Nov. 27.
No. 1—Boston:					ĺ	İ				
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, 493	9,916	10, 166	14, 230	6,594	7,859	6,729	4,675	8,032
Hartford. Holyoke. Lowell. New Bedford. New Haven. Portland.	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 7,826	3,745	2,945 5,969	4,629 9,679	2,890 5,220	3,374 5,474	2,596 5,034	2,736	3,070
Now Podford	8,705 9,041	12,359	5,498 9,445	9,787	9,079	5, 220	5, 878	5,034 5,425	5,508 5,137	6,452
New Bediord	18,444	12,339	17,558	16,503	16,347	13,970	16,739	15,053	14,036	7,292 17,822
Portland	10,414	8,857	7,736	8,889	6.828	6,620	7.810	8,576	8,587	9,285
		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
Springfield		1 1	· ·	'	1	1	1	'	,	
Albany. Binghamton. Buffalo	23,555	26, 105	19,267	19,324	17,207	19,893	18, 282	19,416	18,561	20,981
Binghamton	4,007	4,385	3,882	3,698	3,615	2,593	3, 139	2,539 57,179	2,368	2,415
Bunalo	67,011	73,321	60, 403	66,619	67, 359	48,658	55, 780	57,179	60,370	71,673
New 1 ork	5,590,623	5, 784, 012	5,068,752	5,046,831 5,169	5,364,902 5,075	3,501,307 3,936	3,815,554 3,693	3,699,541 3,978	3,607,712 3,570	4, 159, 526
Pachecter	31 124	6,729 33,796	5,435 30,742	31,657	22,970	21,318	25,065	22,661	25,065	3,721 22,589
Syranica	17 547	16,634	14,885	15,032	15, 452	11,472	15, 138	12,306	12,632	12,803
No. 3—Philadelphia:	11,011	10,001	14,000	10,002	10, 102	11, 112	10,100	12,000	12,002	12,000
Bunalo New York. Passaic Rochester Syracuse No. 3—Philadelphia: Altona Chester	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 Johnstown	3,347	4,871	3,935	3,900	3,610	5,328	6,375	5,950	5,270	6,420
Johnstown	3,189	2,999	3,015	3,089	2,786 5,316	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 Scranton	4,355 15,356	5, 697 12, 130	4,410 14,225	4,223 13,295	4,044 17,568	3, 193 11, 719	4,404 9,565	3,533 11,626	3,476 9,169	3,868 14,099
Trenton	12,572	13, 446	12,118	11, 191	11, 101	8,315	9,642	9,715	9, 109	9,547
Willzog-Rarro	7 194	8,993	7,671	7,510	8,277	5,431	6,401	6,449	6, 265	5, 902
Williamsport	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
Williamsport Wilmington York	4,330	5,003	3,617	3,750	3,804	2,813	3,345	2,896	3, 161	3,254
No. 4—Cieveiana:	I	1	1	,	1 '	,	'	1	•	,
Akron	28,074	27,320	21,817	24,323	27,517	13,326	14, 273	14,956	14, 132	14,869
Cincinnati Cleveland	61, 295	83, 193	56, 127	56, 151	63,094	40,775	58, 564	53, 326	50,720	63,815
		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 6,327	11, 183 6, 709
Columbus Dayton Erie Greensburg, Pa. Lexington, Ky Oil City Pittsburgh Springfield, Ohio Toledo.	8,015 4,672	8, 187 5, 893	6,534 4,250	6,571 5,878	6,706 3,387	6,058 2,250	6,945	6,496 3,098	3,975	2,594
Lavington Kv	10,967	11.876	8, 238	4,806	5, 447	4, 482	2,713 4,317	3, 467	3,408	3, 207
Oil City	2,808	3,992	2 837	1,722	2,817	2,018	4,866	2, 869	1,558	2,937
Pittsburgh	2,898 211,964	189, 718	2,837 173,742	169, 551	194, 441	164,042	181.756	156, 824	155,000	249, 496
Springfield, Ohio	3,574	3,947	3,663	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 Youngstown	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.]

Fadaral Danawa District		w	1919 eek ending-	-			W	1918 eek ending-	_	
Federal Reserve District.	Dec. 24.	Dec. 17.	Dec. 10.	Dec. 3.	Nov. 26.	Dec. 24.	Dec. 18.	Dec. 11.	Dec. 4.	Nov. 27.
No. 5.—Richmond: Baltimore	106,626	120,953	99, 921	100, 162	104,006	78, 150	84,732	82, 820	74, 201	69,376
Charleston Charleston Charlotte Columbia Norfolk Raleigh Richmond		10,489	11,137	12,486	10.889	4,881	6.505	82,820 5,193 5,700	5, 850	<b>.</b> . <i></i>
Columbia	9, 423 8, 385	8, 237 8, 162	9,088 9,958	8,625 9,140	8,500 8,853	4,900 6,303	6,400 8,886	8,025	5,600 7,186	5,600 8,727
Norfolk	22,745 4,800	23, 421 5, 800	22, 582 5, 800	22, 103	23, 404 5, 300	15,593	19, 136	17,595	18,670	19,205
Raleigh	4,800 33,877	5,800 38,113	5,800 37,703	6, 100 32, 333	5,300 34,017	3,841 25,038	4,337 24,617	4,540 25,056	4,970 25,901	4,410 26,455
No. 6.—Atlanta:	00,011	50,115		02,000	04,011		21,011	-		i -
Atlanta	36,090	39,949	34,882	34,980	36,977	23,288 7,700	24,764	22,258 7,077	22, 482 7, 528	24,189 7,004
Birmingham	11,616 18,328	12, 184 16, 186	12,149 14,918	11,883 15,297	14,398 16,462	14,332	7,433 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 6,627	12,373 7,371	13,615 5,877	12,867	12,889 5,865	10,474 5,019	10,676 5,600	9,708 5,400	10,409 5,716	10,430 5,645
Macon.	9,742	8,790	9,849	7, 141 7, 977	8,731	6,731	6,661	6,482	5, 716 5, 777	5,502
Mobile	7,819	8,570	8,644	9,134	8,731 7,833	6,297	6,774	7,443	7,057	7,435
Nashville	5,665 27,034	5,672 26,718	5,800 25,622	6,018 23,116	6,252 24,621	3,539 18,382	4,386 24,470	5,046 23,799	4,020 23,845	4,328 24,940
New Orleans	90,463	106, 115	Q6 327	96,611	82,955	61,417	66,790	69,446	72,795	57, 762
Pensacola	2,003 27,452	2,494 26,117	2,448 22,233 6,375	2,166 23,874	2,343 26,598	1,952 12,686	2,387 13,842	2,171 14,180	2,070 13,210	2,017 10,945
Tampa	6,552	5,900	6,375	6.442	26, 598 5, 605	3,577	4,365	4,945	5,061	3,839
No. 6.—Atlanta: Atlanta. Atlanta. Augusta Birmingham. Chattanooga. Jacksonville. Knoxville. Macon. Mobile. Montgomery. Nashville. New Orleans. Pensacola. Savannah Tampa Vicksburg. No. 7—Chicago:	1,913	2,058	1,934	2,407	1,933	2,000	1,940	2, 169	1,976	1,630
No. 7—Chicago: Bay City Bloomington Cedar Rapids. Chicago. Davenport. Decatur Des Mothes	4,052	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 7,789	2,268 7,537	2,004	2,373	2,279	2,332	3,134 1,777
Chicago	9,177 843,992	7,857 797,632	9,467 666,999	7,789 682,468	7,537 828,342	541,631	615,669	593,580	577, 504	657,715
Davenport.	6,726	7,560	7,770	8,868	6,217	6,689	5,839 2,752	5,834	8,982 3,587	4,264
Decatur	3,089	4,196	3,608	4, 231	3,136	2,449	2,752	2,954	3,587	2,241
Des Moines	21,768 117,194	19,552 197,770	19,336 125,214	18,115 138,855	19,778 115,932	15,539 93,647	15,961 107,322	17,392 88,768	13,687 89,731	16,860 109,110
Dubuque	3,069	2,575	2,620	2,715	2,660	1 895	2,022	2,000	2,067	2,300
Fint	9,997 7,977	6,851 8,480	8,859 7,259	10,789 6,984	10,086 6,363	5,141 4,425	3,131 5,198	4,803 4,768	4,136 4,633	4,776 4,476
Grand Rapids	18,347	18,874	18,599	18,934	16,438	12,117	12,849	16,532	17,850	15,309
Des Moines Detroit Dubuque Flint Fort Wayne Grand Rapids Indianapolis Jackson Kalamazoo Lansing Milwaukee Peoria Rockford Sioux City South Bend Springfield Waterloo No. 8—St. Louis:	35,008	37,806	33, 234	30,999	34,870	26, 249	31,193	32,450	24,633	28,992
Kalamazoo	4,439 4,592	4,414 4,820	4,052 4,241	4, 295 4, 151	5, 208 4, 462	2, 745	3, 183	2,949	3, 181	3,103
Lansing.	6,353	6,385	6,357	5, 296	6,334	2,745 2,500	2,957	2,949 2,796	3, 181 3, 096	
Milwaukee	58,560 9,140	55, 502 11, 634	55,502 10,062	56,869 10,842	53,880 8,816	53,050 8,380	58,054 11,072	51,614 8,212	48,031 13,033	53,437 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	0 107		0.070		
Springfield	3,829 4,322	3,228 4,687	3,818 4,868	3,194 3,501	3,139 5,043	3,167 3,965	3,380 3,014	2,870 3,690	2,890 2,787 2,746	2,722 4,124
Waterloo.	3,519	3,648	3, 235	2,868	3,893	3,189	3, 280	2,852	2,746	2,601
No. 8—St. Louis:	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 36,965 32,315	8,780
Louisville	30,971	41,348	33, 191	40,477	28,432	36, 258	49,936	41,042 32,926	36,965	46,708 31,926
St. Louis	47,694 158,837	43,699 172,315	43, 275 140, 015	40,709 145,924	44, 478 152, 713	30,036 124,520	33,971 149,453	140,753	123, 168	151,114
Evansville. Little Rock. Louisville. Memphis. St. Louis No. 9—Minneapolis: Abordon	1 507		1		ļ	1	1,663		1,639	1, 121
Billings	1,537 2,361	1,925 2,210	1,904 2,160	1,809 2,931	1,420 2,787	1,220 1,854	1,899	1,154 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
Aberdeen Billings Duluth Grand Forks Great Falls	1,889 2,392	1,913	2, 160 18, 727 2, 371 2, 887 2, 839	15, 229 2, 152 3, 290	1,931 3,542	1,250 2,985	1,693 3,512	1,646 3,786	1,817 3,869	1,350
Helena Minneapolis St. Paul Superior	2,392 2,749	2,983 2,701	2,839	2,572	3,542 2,378	2,418	2,462	2,866	2,784	2, 190
Minneapolis	102,334 43,000	100, 939 44, 044	97,358 41,927	96, 357 41, 943	101, 181 44, 137	85, 767 32, 141	91,037 44,094	101,506 34,293	83, 186 34, 350	84,943 45,178
Superior.	2,040	2,079	1.844	1,918	1,844	1,610	2,685	1, 294	2,048	2, 931
winona	1,327	1,430	1,316	1,128	1,248					
No. 10—Kansas City:	686	640	459	390	580		<del>.</del>			
Bartlesville	4,213	2,948 2,682	2,884	3,899	2,478	1,512	1,963	1,954	1,815	1,822
Atchison Bartlesville Cheyenne Colorado Springs	1,928 2,977	2,682 3,174	2,083 3,186	1,477 2,818	2,399 3,061	2 207	2 000	2 183	1,957	2.216
Denver.	42,945	52,063	43,034	50, 274	52.285	2,297 25,257	2,009 29,804 3,624	2,183 27,182	30, 482	32, 215
Joplin	3,395 3,938	4,050 3,234	3,364 3,558	3,512 3,483	3, 258 3, 301	2,347 3,522	3,624 3,790	3,090 3,433	2,979	3,082
Kansas City, Mans	109,616	110, 395	100,012	92, 434	108, 313	86, 466	88,927	82,573	30, 482 2, 979 2, 497 78, 614	89, 236
Muskogee	7, 143	5,458	5,840	92, 434 5, 823	7,561	2,928	3,428	2,813	2,094	2,921
Omaha	17,758 65,217	18,008 62,534	17,585 57,107	17, 221 62, 173	19,917 59,739	11,637 79,214	14,441 63,535	15,410 62,289	64, 833	62.649
Pueblo	6,396	62,534 7,016	5, 217	62, 173 5, 738	8,738	4,136	5,265	3,601	2,094 12,285 64,833 2,723	2, 216 32, 216 3, 085 2, 856 89, 236 2, 921 14, 406 62, 646 6, 222 25, 841 3, 564 22, 084
Colorado Springs Denver Joplin Kansas City, Kans Kansas City, Mo Muskogee Oklahoma City Omaha Pueblo St. Joseph Topeka Tulsa Wichita	22,019 5,084	20,386 4,593 28,025	21, 954 5, 551	15, 925 5, 888	21,300 5,779	22,591 3,816	22,889 4,688	24,207 4,948	18,709 4,823	25,841
	. 0.004	1 12.000	0,001	0,000	0,119	1 0,010	1 2,000	1 2,020	, ±,∪⊒∪	, 0,00
Tulsa	23,560	28,025 11,560	20,837	21,639 12,583	28,715	17,568 7,332	19,391 8,546	18,486 8,112	18, 114 5, 133	22,08

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.		. W	1919 eek ending				w	1918 eek ending-	-	
2 02000 10000 1000 200000	Dec. 24.	Dec. 17.	Dec. 10.	Dec. 3.	Nov. 26.	Dec. 24.	Dec. 18.	Dec. 11.	Dec. 4.	Nov. 27.
No. 11—Dallas:										
AlbuquerqueAustin	1,656	1,936	1,959	1,741	1,952	1,229	1,590	1,501	1,578	1,459
Austin	4,637	3,280	4,581	4, 253	5,158	2,400	3,980	3,555	2.814	3,625
Regiment	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	46, 655	54, 297	29,796	30, 274	29,569	26,367	3,935 33,567
Dallas El Paso Fort Worth	9,731	9,804	9,250	9,303 26,922	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	8,427	9, 275					
Shreveport Texarkana	7,952	7,275	8,540	8,040	9,979	5,335	5,594	5,830	5,157	4,506
Texarkana	2,399	1,608	1,517	1,561	1,746	2,049	1,527	1,263	976	1,419
Tucson	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:										1
Berkeley Boise	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	2,574
Fresno	9,977	11,440	9,431	13, 175	11,545	5,829	7,164	6,966	6,269	6,523
Long Beach Los Angeles Oakland	4,734	5,016	5,043	4,541	4,311	1,996	2,718	2,082	2,305	2, 421
Los Angeles	95,241	103,592	88,750	91,606 19,792	95, 478	52,831	56,715	54, 191 14, 385	52,347	61,624
Qakland	19,455	22,654	21,347	19,792	16,954	13,827	12,368	14,385	10,980	12,063
Ogden Pasadena	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
PortlandReno	48, 241	51,409	39, 139	39,343	49,042	37,726	42,542	40,653	44,173	60,466
Reno	2, 765	3,014	2,554	3,032	3,120	1,943	1,682	1,846	1,787	1,663
Sacramento	13,717	20, 199	20,592	23, 497	17, 208	10,764	14,276	15, 255	11,775	12,066
Sacramento	22, 031	27,849	22, 208	20,031	22,036 4,571	18,389	22, 193	15,832	19, 141	19,704
San Diego	7,062 219,373	7,346 242,184	7,475 202,088	6,340 193,668	215, 540	4,061	5,063	4,709	4,787	4,970
San Francisco	219,373				6,633	150, 138	161,586	152, 794	140,373	173, 151
San Jose	6,624 49,828	7,110 60,117	5,743 48,109	6,126 53,117		44,584	40.000	40 024	47 074	FF 404
Charles				00,117 15 001	56, 911		49,988	48,234	47,671	55,686 9,396
SpokaneStocktonTacoma	13, 273	13,610 7,150	13, 107 7, 609	15,681 7,013	11,818 5,092	8,812 2,968	8, 951 5, 183	9,259 4,307	8,874	9,390
The same	5,546 10,030	11.865	10,454	9.361	10.123	2,908 9,474	11.341		4,275	4,930
Valina								10,667	11,421	11,420
Yakima	3,811	3, 237	3,888	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	1919 Week ending—							
	included.	Dec. 24.	Dec. 17.	Dec. 10.	Dec. 3.	Nov. 26.			
No. 1—Boston No. 2—New York No. 3—Philadelphia No. 4—Cleveland No. 5—Richmond No. 6—Atlanta No. 7—Chicago No. 8—St. Louis No. 9—Minneapolis No. 10—Kansas City No. 11—Dallas No. 12—San Francisco	7 13 14 6 15 23 5 10	535,083 5,740,489 439,791 594,538 185,856 277,098 1,193,903 253,535 178,664 330,090 177,783 548,043	594, 984 5, 944, 982 506, 598 640, 193 204, 686 293, 870 1, 228, 465 274, 129 179, 856 336, 766 180, 668 616, 165	472, 962 5, 203, 366 408, 048 520, 709 185, 052 273, 537 1, 019, 529 232, 753 173, 333 304, 901 173, 205 523, 945	497, 389 5, 188, 330 397, 686 543, 830 178, 463 272, 349 1, 045, 420 242, 906 169, 329 305, 277 172, 185 525, 822	501, 496 5, 498, 586 412, 566 551, 799 184, 086 265, 108 1, 164, 155 240, 438 176, 739 338, 504 188, 134 550, 923			
Grand total	154	10, 454, 873	11,001,362	9, 491, 340	9,538,986	10,072,52			

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 centers		W	1919 eek ending	; <del>-</del>			1918 Week ending			
	included.	Dec. 24.	Dec. 17.	Dec. 10.	Dec. 3.	Nov. 26.	Dec. 24.	Dec. 18.	Dec. 11.	Dec. 4.	Nov. 27.
No. 1—Boston  No. 2—New York.  No. 3—Philadelphia  No. 4—Ceveland.  No. 5—Richmond.  No. 6—Atlanta.  No. 7—Chicago.  No. 8—St. Louis.  No. 9—Minneapolis.  No. 10—Kansas City.  No. 11—Dallas.  No. 12—San Francisco.	13 14 6 15 20 5 9	535,083 5,740,489 439,791 594,538 185,856 277,098 1,169,904 253,535 177,337 327,476 168,957 538,881	594, 984 5, 944, 982 506, 598 640, 193 204, 686 293, 870 1, 204, 053 274, 129 178, 426 333, 444 171, 547 606, 054	408,048 520,709 185,052 273,537	397, 686 543, 830 178, 463 272, 349	501, 496 5, 496, 580 412, 569 551, 799 184, 080 265, 108 1, 141, 207 240, 438 175, 491 335, 525 178, 859 542, 043	324, 698 3, 609, 177 327, 705 439, 261 133, 825 185, 639 795, 761 202, 017 173, 350 270, 623 99, 233 374, 522	358, 184 3, 936, 651 361, 934 488, 265 148, 108 203, 415 896, 581 246, 926 196, 707 272, 300 111, 012 414, 560	352, 677 3, 817, 620 362, 995 460, 289 143, 736 203, 602 854, 060 226, 585 196, 727 260, 281 105, 278 392, 331	333, 415 3,730,278 328,455 417,183 136,528 204,342 203,568 181,854 247,058 97,841 377,839	383, 66; 4, 293, 70; 404, 23; 585, 38; 133, 77; 188, 75; 935, 66; 243, 02; 192, 10; 277, 622; 106, 87; 445, 96;
Grand total	145	10,408,945	10,952,966	9,443,002	9, 494, 153	10,025,195	6,935,811	7,634,643	7, 376, 181	7,091,305	8, 190, 17

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

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 three-

fourths 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 September. The average maturity of all the paper discounted during the

Discount operations during the month of 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 43 per cent rate. During October about 86 per cent of the paper was discounted at the 4 per cent The average rate of discount charged rate. 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.

Federal Reserve Bank.	Number of banks in	of member district.	Number of member banks accommo- dated.			
	Nov. 30.	Oct. 31.	Novem- ber.	October.		
Boston New York. Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas. San Francisco	583 427 1,366 533 915	430 744 675 841 575 429 1,366 532 911 1,026 753	265 405 375 282 252 185 613 211 280 354 235 192	244 396 389 245 297 247 614 223 224 391 359 210		
Total	9,009	8,977	3,649	3, 839		

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 bills 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 largely accepted by the private banks.

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 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

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

Federal Reserve Bank.	Bills dis- counted for member	Bills bought in open	Municipal warrants.		United States	United States	Total United	Total invest	
	banks.	market.	warrants.	bonds.	Victory notes.	certificates of indebtedness.	States securities.	Nov., 1919.	Nov., 1918.
Boston New York Philadelphia	683,636,792	\$63,977,798 152,609,063 2,832,489				3,343,000	\$1,516,000 35,948,000 3,343,000	\$492,416,062 4,654,764,138 689,812,281	\$373,350,564 3,248,858,733 368,823,184
Cleveland	264, 080, 662 174, 033, 036	19, 053, 191 3, 805, 212 4, 365, 746 33, 701, 105			\$300	3, 163, 000 200, 000 1, 101, 000	3,163,000 200,300 1,101,000	314, 402, 869 268, 086, 174	226, 108, 688 287, 101, 541 167, 886, 039 383, 127, 310 158, 469, 909 40, 879, 414
St. Louis Minneapolis. Kansas City Dallas	180, 110, 764 88, 805, 613 145, 934, 891	5,325,336 10,649,919				1,275,000 176,000 2,000,000	2,845,000 1,275,000 176,000 2,000,000	179, 499, 782 484, 729, 360 186, 711, 100 99, 631, 532 147, 934, 891 77, 093, 833	158, 469, 909 40, 879, 414 110, 124, 747 77, 998, 599
San Francisco		1,912,400 42,463,246		1 \$50		4,510,000 810,000	4,510,000 810,050	77,093,833 216,999,208	126, 980, 039
Total, November,	7, 414, 498, 375 5, 154, 597, 322	340, 695, 505 195, 697, 512	\$11,383	50 93,550	300	56, 887, 000 219, 309, 000	56,887,350 219 402 550	7,812,081,230	5, 569, 708, 767
Total 11 months end-	71,883,099,002	2,424,719,574	1,000	1,328,125		3,973,827,500	3,975,529,875	78, 283, 349, 451	
ing Nov. 30, 1918	33, 537, 850, 316	1,653,805,357	1,709,602	73, 959, 463		4,028,472,160	4, 102, 431, 623		39, 295, 796, 898

<sup>1 41</sup> 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.

	Average daily holdings of the several classes of earning assets.										
Federal Reserve Bank.	Discounted bills.	Purchased bills.	United States securities.	Municipal warrants.	Total.						
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolls. Kansas City Dallas. San Francisco.  Total, November, 1919 Total, November, 1918.	829,776,757 205,069,357 150,177,449 98,848,446 106,329,831 242,933,736 70,056,523 55,021,800 100,757,092 49,661,464 89,742,205	\$49, 517, 395 74, 248, 602 1, 394, 054 68, 051, 442 7, 891, 569 12, 333, 698 96, 318, 470 25, 266, 197 21, 088, 70 1, 774, 437 5, 505, 363 91, 666, 903 455, 056, 830 378, 035, 734	31, 663, 083 26, 135, 750 13, 034, 260 15, 782, 216 44, 583, 330 18, 424, 167 8, 521, 033 22, 693, 433 13, 576, 217		980, 730, 128 233, 126, 494 244, 364, 641 119, 774, 275 134, 445, 745 338, 835, 536 113, 746, 887 84, 631, 533 125, 224, 962 68, 743, 044 194, 858, 038						

		Ea	rnings fron	a	Calculated annual rate of earnings from—					
Federal Reserve Bank.	Dis- counted bills.	Pur- chased bills.	United States securities.	Munic- ipal warrants.	Total.	Dis- counted bills.	Pur- chased bills.	United States securities.	Munic- ipal warrants.	Total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco Total, November, 1919 Total, November, 1918	2, 978, 404 727, 253 542, 710 357, 353 369, 165 884, 718 254, 808 203, 273 385, 997 187, 430 333, 755	\$174, 235 257, 023 4, 989 242, 913 29, 196 44, 709 349, 910 94, 798 74, 587 6, 433 21, 181 321, 191 1, 621, 165	55, 854 47, 793 21, 542 25, 253 76, 973 31, 662 14, 170		3,394,033 788,096 833,416 408,091 439,127 1,311,601 381,268 292,030 434,124	Per cent. 4.39 4.37 4.31 4.33 4.40 4.37 4.43 4.43 4.49 4.66 4.59 4.53	Per cent. 4.28 4.15 4.35 4.35 4.50 4.56 4.42 4.56 4.30 4.41 4.68 4.26	2.09 2.51 2.14 2.22 2.01 2.01 2.10 2.09 2.02 2.24	Per cent.	4. 13 4. 21 4. 02 4. 15 4. 15 4. 11 4. 16 4. 08 4. 20 4. 22

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

	Customers'	Member bank note							Average	
Federal Reserve Bank.	cured by Govern- ment war obligations.	Secured by Government war obliga- tions.	Otherwise secured.	Trade acceptances.	Bankers' accept- ances.	All other discounts.	Total.	Average maturity in days.	rate (365-day basis).	
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis. Kansas City Dallas. San Francisco.	91, 297, 964 8, 626, 048 7, 656, 906 3, 043, 184 8, 645, 278 4, 963, 899 889, 773 3, 418, 352 130, 339 4, 941, 644	\$340, 468, 760 4, 077, 121, 327 550, 862, 817 240, 665, 940 135, 408, 300 330, 954, 550 149, 007, 353 62, 095, 885 99, 819, 663 65, 087, 719 136, 547, 100	\$1,256,084 3,000 400,000 1,410,000 1,303,180 17,000 295,530 10,426,194 368,650 215,000	1,017,726 2,268,244 1,168,770 78,422 69,350 435,844 1,361,975	840, 262 153, 670 284, 924	33, 153, 826 105, 012, 003 24, 113, 480 25, 446, 003 32, 047, 662 4, 648, 881 30, 375, 269	\$426, 922, 264 4,466, 207, 075 683, 636, 792 292, 186, 678 284, 980, 662 174, 033, 036 448, 183, 255 180, 110, 764 88, 805, 613 170, 671, 433 173, 725, 912	15. 61 7. 12 14. 32 17. 77 10. 90 21. 79 24. 53 13. 50 26. 73 27. 33 19. 14	Per cent. 4.56 4.49 4.34 4.55 4.46 4.51 4.61 4.52 4.74 4.91 4.55 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	

 $<sup>^{\</sup>rm I}$  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.

	Baı	ikers' accepta	nces.	Ti	rade acceptai	nces.				Average
Federal Reserve Bank.	In the domestic trade.	In the foreign trade.	Total.	In the domestic trade.	In the foreign trade.	Total.	Dollar Exchange.	Total bills purchased.	Average maturity in days.	rate (365- day basis).
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas	7,661,321 3,944,138 3,012,018	\$40, 939, 649 124, 065, 725 2, 131, 569 13, 907, 233 1, 665, 512 551, 800 26, 039, 784 1, 381, 198 7, 557, 409	\$62, 216, 106 149, 446, 831 2, 832, 489 18, 976, 855 3, 805, 212 4, 365, 746 33, 701, 105 5, 325, 336 10, 569, 427			\$1,236,692 1,834,732 66,336		\$63, 977, 798 152, 609, 063 2, 832, 489 19, 053, 191 3, 805, 212 4, 365, 746 33, 701, 105 5, 325, 336 10, 649, 919	55. 53 46. 83 79. 08 65. 07 71. 64 63. 55 67. 73 46. 68 70. 67	Per cent. 4. 45 4. 45 4. 34 4. 46 4. 57 4. 56 4. 50 4. 49 4. 47
San Francisco	8,891,707	33,001,711	41, 893, 418	22,872	526, 298	549, 170	20,658	42, 463, 246	66.78	4.5
Total	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. 80, 1919, distributed by rates of discount; also average rates and maturities of all bills discounted by each bank during the three months.

Federal Reserve	4 pe	er cent.		4½ per ce	ent.		4½ per	cent.	4 <sup>2</sup> per	cent.	5 per e	ent.
Bank.	Amount.	Discou	nt. Am	ount.	Discount.	Amo	unt.	Discount	. Amount.	Discount.	Amount.	Discount.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	8, 207, 486, 3 2, 288, 919, 7 524, 358, 5 88, 780, 7 377, 739, 5 451, 382, 5 420, 949, 0 138, 369, 5 110, 223, 4	5,204,   1,654,   19   708,   100   115,   711   590,   901   419,   120   216,   168,	709   68, 105   71, 952   149, 266   598, 649   59, 922   289, 506   8, 551   3, 502   118, 017   92	358, 409 310, 570 116, 712 227, 200 277, 174 457, 148 224, 265 035, 655 042, 420 033, 507 318, 355 884, 236	\$590, 028 648, 193 595, 467 297, 961 606, 491 135, 879 547, 095 46, 789 17, 895 221, 705 158, 743 595, 881	3,953,7 444,5 89,6 212,4 97,5 294,2 138,7 57,5 115,3	183,715 30,414 551,546 000,020 31,374 664,757 92,892 566,080 661,568 660,253 113,142	3, 159, 606 461, 895 173, 637 257, 948 208, 389 583, 101	34,542,025 34,542,025 139,013,079 28,411,529 57,678,220 194,624,925 40,788,539 37,941,758 37,601,651 111,994,993	\$400, 321 528, 394 69, 160 447, 326 162, 278 413, 102 1, 356, 392 319, 649 211, 107 84, 448 65, 425 42, 367	\$47,086 2,429 11,777 56,906 249,097 20,000 16,489,017 65,012,803 11,450,363 29,783,206	\$809 386 48 1,855 4,202 44 165,071 445,603 110,759 222,720
Total	13, 403, 787, 8	10, 413,	652 1,920,	285, 651	4, 462, 127	5, 872, 5	43, 161	6, 032, 604	854, 446, 918	4,099,969	123, 122, 684	950, 497
Federal Reserv	e Bank.	5½ per	cent.		per cent.	uot. An	5% per	cent. Discount.	Tota	Discount	Average maturity in days.	Average rate (365- day - basis).
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco		\$213,854 112,000 27,213 2,890,351	\$3,669 210 611	\$14, 16, 7,815, 148, 2,870, 10,842, 1,820,	900 374 804 164, 994 3, 984 65, 563 242,	\$41 365 362 347 283 516	3,000	\$8 24	\$1, 126, 790, 496 12, 434, 333, 213 2, 839, 144, 804 902, 422, 672 928, 038, 609 592, 671, 784 1, 237, 424, 251 608, 701, 484 256, 269, 779 457, 075, 201, 493 325, 214, 932 492, 824, 085	2,780,683 1,631,565 1,142,879 1,352,586 3,362,083 976,213 1,379,883 726,144	6.66 8.62 15.40 10.35 19.33 2 22.17 13.58 24.21 7 24.21 7 23.44 18.53	Per cent. 4.38 4.21 4.15 4.28 4.34 4.31 4.47 4.33 4.57 4.70 4.40 4.49
Total	• • • • • • • • • • •	3, 243, 418	63,982	23, 528,	881 516,	522 1	3,000	32	22, 200, 971, 601	26, 539, 38	5 10.12	4.31

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

		4 per ce	ent.	4₁ per	cent.	4 <del>1</del> pe	r cent.	418	per cent.	41 per	cent.	4 s per	cent.
Federal Reserve Bar	- 1	mount.	Dis- count.	Amount.	Dis- count.	Amoun	Discount.	Amour	t. Discount.	Amount.	Dis- count.	Amount.	Dis- count.
Boston New York Philadelphia Cleveland Richmond Atlanta	60	, 956, 247 , 258, 735 542, 959 , 425, 224	846	\$23, 265, 947 1, 215, 438			\$29,628 95 196,328 90 99,276	365.	218 \$64,590 216 404,939 657 2,701 149,131	\$26, 291, 815 148, 446, 772 2, 330, 241 8, 579, 712	\$163,361 524,991 23,786 66,842	\$6,865,171 5,086,979 2,647,993	41,84
ChicagoSt. Louis Minneapolis Kansas City	11	,528,356 242,420 944,741	26, 034 616 2, 703	2,600 809,219		24, 181, 8 1, 148, 3 15, 449, 7	75 143, 107 01 5, 613 86 87, 871	15, 331, 3, 316, 5, 633,	771 24,982	2, 115, 881 4, 703, 939 600, 000	12,418 44,900 5,327		8.19
Dallas San Francisco	17	,039,772	48,923	203, 368	396	33, 525, 0	60 194,841	32, 159,	350 257,055	200,000 18,438,928	283	1,407,157	10,81
Total	112	, 938, 454	293, 242	25, 496, 572	100,048	131,987,6	57 756, 664	134, 884,	280 1, 076, 709	220, 832, 376	1,078,604	26, 987, 854	173, 19
		43 per c	ent.	47 per	cent.	4½ p	er cent.	428	per cent.	4§ per	cent.	4†† per	cent.
Federal Reserve Ban		mount.	Dis- count.	Amount.	Dis- count.	Amoun	t. Dis- count.	Amou	nt. Dis- count.	Amount.	Dis- count.	Amount.	Dis- count.
Philadelphia Cleveland Richmond		,026,292 ,218,800 401,552 ,140,843	\$40,787 93,958 4,283 18,344	\$10, 270, 618 1, 810, 938 297, 854	11,861	\$10,741,6 34,170,2 7,513,8 13,823,2 18,003,1	24 292,80 17 76.26	0 2,543 0 230 7		4, 263, 037	43, 959		1,23
Atlanta	5 2 1	,736,975 ,271,280 ,243,873	32,619 14,267 7,542	417, 309 260, 000 215, 000	1,196	14, 186, 5 1, 059, 7 4, 553, 4	18 140,34 04 10,57 26 45,50	1 328 7 135 5 279	, 182 3, 162 , 467 743 , 343 <b>2,</b> 951	745,000	21,537 1,461 1,820	300,000	1,77 58
Dallas San Francisco	7	505, 140	47,658	1,015,503	6, 156	1,540,2 20,498,7			,211 14,664	1,828,204	15,527	144, 145	1,05
Total	42	, 544, 755	259, 458	14, 287, 222	105,771	126,090,7	45 1,091,36	0 8,923	,816 74,866	14,211,002	130, 378	1,906,831	14,85
Federal Reserve Bank.		r cent.		per cent.	47 per	Die	5 per c	Die	5‡ per cent	uta .	Total.	Aver- age matur	age
	Amoun	t. count.	Amour	count.	Amount	count.	Amount.	count.		int. Amou	nt. cour		day basis.
Boston \$ New York	3,751,6 5,102,3 100,0 2,433,3 165,0	41 \$3,460 44 55,570 00 1,171 87 12,850 00 1,460	\$50,	000 \$548	<b>\$171,9</b> 3	7 \$2,065	\$322,055	\$2,307	\$106,620 \$1	3,740 69,921 13,988	,615 1,856 ,409 32 ,758 460 ,215 94	,259 43.18 ,787 73.90 ,376 55.81 ,413 53.95	4.3 4.3 4.3 4.5
AtlantaChicagoSt. LouisMinneapolisKansas City	521, 50 10, 00 497, 70 2, 280, 00 3, 300, 60	5, 421 00 82 03 4, 979	9,	000 2,651 543 112		609		4,924		18,003 ,053 90,567 16,148 34,675	, 156 146 , 898 659 , 915 80 , 761 250 , 000 5	,542 65. 12 177 61. 08 740 41. 92 877 61. 29 327 76. 25 066 51. 93	4.3 4.3 4.2 4.7
			126,	594 1,380	122,05	9 1 210l			1	1129 706	20A 027	260 59.87	4.3

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.	Agri- cultural paper.	Live stock paper.	Customers paper secured by Govern- ment war obligations.	Member lateral Secured by Government war obligations.		Trade accept- ances.	Bankers' accept- ances.	All other discounts.	Total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis. Kansas City Dallas. San Francisco.	152 558 1,257 13,144 271	117 181 291 5,054 13,982 4,058 1,844	73, 202 144, 345 81, 461 12, 622 13, 583 4, 149 9, 744 6, 900 2, 211 5, 353 308 3, 641	52, 990 609, 489 104, 122 117, 650 69, 977 61, 594 166, 759 42, 251 29, 787 42, 397 29, 373 53, 237	150 3 385 390 159 349 128 3,715 323 115	2,159 11,237 1,103 2,264 808 1,949 2,637 1,770 86 296	72 874 996 33	36, 807 94, 758 11, 506 30, 363 12, 589 32, 651 73, 016 20, 473 22, 375 22, 989 9, 390 22, 067	165, 428 860, 902 198, 267 163, 168 97, 900 102, 171 265, 459 73, 301 60, 454 95, 281 45, 188 86, 620
Total Per cent Total Nov. 30, 1918 Per cent	1.2	25,527 1.1 34,052 1.9	357, 549 16. 1 369, 506 20. 4	1,379,626 62.3 1,031,720 56.8	5,717 0.3 24,843 1.4	27,694 1.3 23,126 1.3	2,049 0.1	388, 984 17. 6 304, 456 16. 7	2,214,139 1,815,195 100.0

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

			Ban	k acceptar	ices.		Trac	de acceptai	1005.	
Federal Reserve Bank.	Member banks.	Non- member trust compan- ies.	Non- member State banks.	Private banks.	Foreign bank branches and agencies.	Total.	Domestic.	Foreign.	Total.	Grand total.
Boston New York Philadelphia Cleveland Richmond	56, 250 2, 402 33, 852	614 1,035 1,439 100	1,670 14,361 429 11,231 196	5, 612 11, 526 228 12, 484 342	150 10,481 76 5,536 50	34,417 93,653 3,135 64,542 11,720	102	1,451 2,633		36,719 96,956 3,135 64,644 11,720 11,729
Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas.	11, 229 89, 240 25, 098 20, 101 6, 888	500 1,150 595 200 250	3,400 3,274 127 1,578 250	6,024 2,658 164 697 1,167	1,887 2,013 228 892 432	11,729 101,701 33,638 20,820				11,729 101,701 33,638 20,820 10,305 12,803
San Francisco	54, 435	563	12,282	14,974	14,613	96,867	23	850	873	97, 740
Total:     Nov. 30, 1919     Oct. 31, 1919     Sept. 30, 1919     Nov. 30, 1918     Nov. 30, 1918	347,852 271,701 208,784 310,069 171,723	6,446 8,021 8,255 2,028 5,338	48,798 36,707 24,821 10,703 753	55,876 42,677 33,420 27,871 18,201	36,358 28,511 21,873 19,818 3,163	495, <b>33</b> 0 387, 617 297, 153 370, 489 199, 178	1,646 1,740 591 4,016	4,934 4,998 2,385 5,019	6,580 6,738 2,976 9,035 6,275	501, 910 394, 355 300, 129 379, 524 205, 453

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

	· · · · · · · · · · · · · · · · · · ·						I				
	in Fe	rawn on be ederal Res daily aver	erve	in d Feder	irawn on be istrict out ral Reserve y average).	tside	bank eral l	tems draw s in own Reserve dis y average).	Fed- trict	banks	drawn on in other dis- (daily aver-
	Number	. Amou	nt.	Number	r. A mou	nt.	Number	r. A mou	nt.	Number	. Amount.
Boston. New York. Philadelphia. Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco. Total: Nov. 16 to Dec. 15, 1919. October 16 to Nov. 15, 1919. Sept. 16 to Oct. 15, 1919. Nov. 18 to Dec. 15, 1918.	30,577 48,716 7,76 3,506 3,772 27,926 8,533 8,652 8,885 4,900 4,130			103, 893 161,111:59, 656 103, 266 73,072:40, 20 111, 30:69, 27:32, 19:107, 91: 61, 50:51, 72:975, 09:915, 79:824, 86:590, 68:	1 86, 418 5 29, 98 5 29, 98 5 20, 82 1 12, 20 1 19, 23 1 19, 23 1 15, 59 1 11, 26 5 254, 59 4 246, 05 2 223, 41	5,522 6,791 4,645 2,862 3,663 1,000 2,190 4,821 1,238 1,603 1,666 4,746 5,511 7,562	128, 87, 191, 68, 108, 36, 111, 03, 76, 58, 43, 97, 139, 23, 77, 80, 40, 84, 116, 79, 66, 40, 55, 85, 85, 1, 157, 44, 1, 193, 36, 919, 62, 675, 85	8   177, 91 41, 39; 9   39, 29; 1   30, 15; 3   16, 72; 48, 99; 4   14, 52; 8   30, 98; 8   20, 98; 1   16, 26; 2   506, 12; 2   506, 12; 482, 57; 3   482, 57; 3   483, 59;	4,121 9,892 2,468 4,629 9,077 6,000 4,406 8,679 1,350 2,195 0,160 5,965 7,468 0,174	16,040 41,303 22,131 4,340 9,311 4,593 8,236 1,155 10,915 8,455 1,655 139,915 129,399 119,387 88,326	23, 989, 119 9, 815, 139 3, 692, 107 6, 883, 995 6, 3, 309, 998 6, 1, 643, 000 603, 852 6, 3, 750, 558 6, 3, 750, 558 6, 2, 126, 292 76, 999, 447 78, 178, 486 774, 965, 478
		S5, 174 219, 162,  Items hand parent branches age).		k and		ure State	on the r of the s (daily	Number of mem- ber banks in dis- trict,	nonr	nber of nember aks on r list.	Incorporated banks other than mutual savings banks not
		Number.	An	nount.	Number.	An	nount.				on par list.
Boston. New York. Philadelphia Cleveland. Richmond. Atlanta Chicago. St. Louis. Minneapolis, Kansas City. Dallas. San Francisco. Total:		2,105 3,030 491 5,901 510 984 5,744 4,042 4,502	1 2 	,110,469 ,128,837 ,703,012 ,948,961 616,000 283,576 ,811,097 ,404,816 ,011,869	6,226 37,109 5,018 5,184 1,681 3,412 9,481 4,628 1,030 4,669 5,031 4,652	18 2 1	, 505, 850 , 217, 562 , 055, 997 , 509, 745 377, 403 938, 748 , 872, 000 998, 248 437, 650 694, 599 384, 545 , 513, 917	431 756 677 842 584 426 1,374 535 921 1,037 759 713			8 1,014 1,227 489 443 1,030 186 98
Nov. 16 to Dec. 15, 1919. Oct. 16 to Nov. 15, 1919. Sept. 16 to Oct. 15, 1919. Nov. 16 to Dec. 15, 1918.		23,162	12 11	, 018, 634 , 683, 739 , 417, 988 , 704, 900	88, 071 107, 551 93, 437 135, 173	37 45	, 506, 264 , 355, 291 , 272, 641 , 766, 938	9,055 9,008 8,955 8,612		15,851 14,860 13,852 10,409	4,609 5,515 6,457

#### OPERATION OF THE FEDERAL RESERVE BANKS.

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 4½ per cent loan certificates and 260.3 millions of 4½ per cent tax certificates, and, two weeks later, the issue of 728.1 millions of 4½ 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 BULLETIN (p. 1186). Since October 31, the

During the five weeks between November 21 d December 26 discount operations of the dederal Reserve Banks fluctuated within modate limits. Fiscal operations of the Treasury the period were extremely heavy, induding the issue on December 1 of 162.2 Friday preceding the revision of the discount rates and the discontinuance of the differential 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 and the discount rates are rates and the discount rates and the discount rates and the discount rates are rates and the discount rates and the discount rates are rates and the discount rates and the discount rates are rates and the discount rates and the discount rates are rates and the discount rates and the discount rates are rates are rates and the discount rates are rates are rates are rates are rates are rates are rates.

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.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Gold and gold certificates:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Gold settlement fund, Federal Reserve Board:	8,644 8,722 8,552 8,203 7,844	137, 374 151, 201 155, 208 156, 249 147, 197	1,241 1,234 1,222 1,192 1,182	21,797 8,077 12,991 10,387 10,220	2,303 2,314 2,339 2,403 2,402	8, 136 8, 206 8, 159 8, 288 8, 350	24, 150 24, 129 24, 075 24, 070 24, 060	3,312 3,148 2,970 2,853 2,738	8,280 8,257 8,283 8,285 8,261	130 158 182 166 168	6,615 6,565 6,512 6,679 6,617	13,366 12,611 12,655 12,550 10,406	235, 348 234, 622 243, 148 241, 325 229,445
Reserve Board: Nov. 28.  Dec. 5. Dec. 12. Dec. 19. Dec. 26.  Gold with foreign agencies: Nov. 28. Dec. 5. Dec. 12. Dec. 12. Dec. 19. Dec. 19. Dec. 26.	42,327 54,243 29,464 38,567 36,211	115, 902 74, 561 55, 486 87, 692 41, 560	25, 939 28, 792 28, 912 30, 396 28, 344	23,996 43,191 35,017 29,939 33,966	31,355 31,662 29,248 31,987 25,152	22,662 23,249 24,902 23,002 25,734	58,766 57,009 88,120 68,118 68,856	15,740 18,456 16,340 13,909 13,374	11,956 9,368 9,897 6,183 1,338	44,348 37,297 19,762 20,430 27,192	19,555 24,295 20,065 15,397 14,772	27,740 26,689 46,853 34,315 36,286	440, 286 428, 812 404, 066 399, 935 352, 785
Gold with Federal Reserve	-,000	49,800 48,787 51,713 50,542 49,296	10,856 10,635 11,273 11,017 10,746	11, 127 10, 901 11, 554 11, 293 11, 014	6,649 6,514 6,905 6,749 6,582	4,885 4,786 5,073 4,958 4,835	16,148 15,819 16,768 16,388 15,984	6,378 6,248 6,623 6,473 6,313	3,664 3,589 3,805 3,718 3,627	6,513 6,381 6,764 6,610 6,447	3,528 3,456 3,664 3,581 3,492	6,242 6,115 6,482 6,335 6,179	135, 696 132, 935 140, 910 137, 717 134, 320
agents, Nov. 28 Dec. 5. Dec. 12. Dec. 19. Dec. 26. Gold redemption fund: Nov. 28 Dec. 5. Dec. 12. Dec. 19. Dec. 26. Total gold reserves: Nov. 28 Dec. 5. Dec. 12. Dec. 19. Dec. 26.	62,090 71,692 70,621 71,930 73,782	282,877 291,356 290,070 288,751 307,385	78,522 77,485 78,872 79,458 82,491	105,502 118,420 117,050 116,925 125,048	46, 923 45, 381 43, 595 42, 031 41, 036	53,553 55,097 56,022 60,585 64,734	247, 491 243, 826 249, 082 251, 202 245, 883	69, 100 61, 207 74, 195 65, 258 65, 920	34,354 35,733 34,997 34,275 35,570	38,917 40,126 39,139 39,977 39,858	27,878	104, 399 105, 217 108, 685 124, 811 130, 447	1, 148, 724 1, 172, 191 1, 188, 343 1, 201, 654 1, 240, 032
Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Total gold reserves:	26,854 19,248 21,922 23,317 25,223	25,000 25,000 24,930 24,873 25,000	11, 664 12, 864 13, 907 15, 030 15, 578	1,531 983 1,712 574 1,005	12,440 7,750 8,996 10,065 6,371	6,896 6,071 5,700 6,559 7,053	20,927 23,678 17,210 13,473 17,572	6,418 6,147 5,971 4,616 5,922	2,379 941 1,326 1,671 2,377	5, 284 3, 983 4, 928 3, 961 4, 023	3,461 2,776 3,366 2,881 3,422	10,733 9,263 9,853 8,162 8,304	133,587 118,704 119,821 115,182 121,850
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.	. 149, 821 . 163, 609 . 140, 845 . 152, 070 . 152, 865	610, 953 590, 905 577, 407 608, 107 570, 438	128, 222 131, 010 134, 186 137, 093 138, 341	163,953 181,572 178,324 169,118 181,253	99,670 93,621 91,083 93,235 81,543	96, 132 97, 409 99, 856 103, 392 110, 706	367, 482 364, 461 395, 255 373, 251 372, 355	100, 948 95, 206 106, 099 93, 109 94, 267	60,633 57,888 58,308 54,132 51,173	95,192 87,945 70,775 71,144 77,688	34,989	162, 480 159, 895 184, 528 186, 173 191, 622	2,093,641 2,087,264 2,096,288 2,095,813 2,078,432
Legal-tender notes, silver, etc.:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Total cash reserves:	4,550 4,535 3,915 3,725 3,238	49, 586 50, 107 49, 503 46, 269 45, 602	477 477 548 544 539	837 913 706 668 533	211 209 179 186 188	1,217 1,220 1,162 1,038 970	2,389 2,715 2,885 2,140 1,829	4,800 4,744 3,367 2,559 2,240	73 61 59 52 72	311 277 288 348 343	1,375 1,314 1,270 1,242 1,166	199 259 235 327 384	66,025 66,831 64,117 59,098 57,104
Legal-tender notes, silver, etc.: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Total cash reserves: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Bills discounted: Secured by Government war obligations 1— Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 12. All other— Nov. 28. All other— Nov. 28.	. 154, 371 . 168, 144 . 144, 760 . 155, 795 . 156, 103	660, 539 641, 012 626, 910 654, 376 616, 040	128, 699 131, 487 134, 734 137, 637 138, 880	164, 790 182, 485 179, 030 169, 786 181, 786	99, 881 93, 830 91, 262 93, 421 81, 731	97,349 98,629 101,018 104,430 111,676	369, 871 367, 176 398, 140 375, 391 374, 184	105, 748 99, 950 109, 466 95, 668 96, 507	60, 706 57, 949 58, 367 54, 184 51, 245	95,503 88,222 71,063 71,492 78,031	59,530 65,057 60,892 56,231 57,347	162,679 160,154 184,763 186,500 192,006	2, 159, 666 2, 154, 095 2, 160, 405 2, 154, 911 2, 135, 536
war obligations 1—	126, 192 105, 868 128, 055 134, 324 138, 206	753, 834 667, 512 654, 401 515, 035 584, 588	185, 583 184, 407 193, 337 177, 655 178, 648	130, 272 116, 672 118, 469 112, 254 120, 536			176, 503 173, 759 143, 316 135, 715 146, 840		1	47,750 43,330 43,204 39,321 36,897	29,681 27,630 38,483 41,107 42,634	56,878 64,474 54,999 41,585 46,128	1,736,146 1,603,313 1,588,417 1,414,950 1,510,364
Nov. 28 Dec. 5 Dec. 12 Dec. 19 Dec. 26. Bills bought in open market: <sup>2</sup> Nov. 28	39,870 38,889 49,559 56,630	119, 342 144, 924 143, 537 203, 606			l	36, 428 35, 208 32, 390 31, 173 28, 843	88, 956 87, 854 105, 052 107, 984 128, 429	24, 150 31, 328 31, 270 27, 621 34, 093		50, 536			478, 063 504, 795 550, 999 580, 162 684, 514
Dec. 5	36, 266 42, 707 14, 412 16, 506	97, 021 131, 865 147, 030 179, 382 191, 312	3,649 4,705 4,704 4,698	64, 694 57, 900 58, 118 56, 867 56, 923	12,004 13,241 14,394 16,031	1	99, 923 95, 063 97, 736 105, 917 108, 352			10, 205 19, 993 20, 297 19, 981	12,663 9,279 8,277 7,734	L	495, 595 514, 219 541, 551 566, 266 585, 212
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. U.S. Victory notes:	539 539 539 539	1, 257 1, 257 1, 257	1,385 1,385 1,385 1,385	844 844 844 843 833	1,235 1,235 1,235	376 375 375 375	4,477 4,477 4,477 4,476	1,153 1,153 1,153 1,153 1,153	110	8,868 8,868 8,867 8,867	3,966 3,966 3,966	2,633 2,632 2,632 2,632 2,632	26, 848 26, 848 26, 847 26, 846 26, 834
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.		. 50 . 50	)			. 4							54 54

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—Continued.

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
J. S. certificates of indebted-													
ness: Nov. 28 Dec. 5. Dec. 19. Dec. 26. Cotal earning assets: Nov. 28 Dec. 5. Dec. 19. Dec. 26. Sec. 19. Dec. 26. Bec. 19. Dec. 26. Sank premises: Nov. 28.						4						1	
Nov. 28	22,562	77,684	31,471 31,760	25,883	11,860	15,665	40, 236 39, 903	17,366	8,380	14,820	11,225	10,880	288, 032 283, 853 273, 219 303, 558 273, 507
Dec. 12	21,752	68 154	30, 918	25, 136	12,200	15,665 15,665	39, 841	17, 138	8,380 8,380	15,811 13,916	8,645 9,220	11,495 10,839	273, 210
Dec. 19.	21,598	97, 493	30, 918 31, 134 30, 529	25, 131	12, 260	15,665 15,666 15,666	39,841 39,885 39,754	17,309	8,575	13,899	9.145	10,839 11,463 11,438	303, 558
Dec. 26	21,661	67,347	30,529	25, 883 25, 146 25, 136 25, 131 24, 817	11,860 12,260 12,260 12,260 12,260	15,666	39,754	17,366 17,300 17,138 17,309 17,216	8,480	15,249	9,090	11,438	273, 507
otal earning assets:	201 977	1 026 014	224 259			130, 127	410,095	125,458	80 126	190 974	73,182	196,956	
Dec. 5	204.624	995, 433	234, 258 236, 229	254,659 236,025	122,805 125,301	198 500	401.056	124,449	89, 136 87, 247 87, 211 91, 744 93, 054	124,883	66,824	202.412	3,024,743 2,933,083 2,981,085 2,891,836 3,080,498
Dec. 12	231,942	1,015,816	245,018	243, 812 239, 047	134,564 136,474	124,500 126,189 122,498	390, 422 393, 978	117.658	87, 211	131,604	73.601	184.939	2,981,08
Dec. 19	220,432	936,754	242,032	239,047 250,160	136,474	120,189	393,978 427,851	126,696 133,540	91,744	128,382	73,803 74,851	176,305 182,370	2,891,83
ank premises:	200,042	1,048,100	244,752	200, 100	100, 101	122, 100		100,040	93,004	131,330	74,001	102,370	3,080,49
Nov. 28	1,078	3,994	500	889	491	503	2,936 2,936 2,936	691	600	402	394	400	12,87
Dec. 5	1,091	3,994	500	889	491	503	2,936	691	600	402	399	400	12, 89 12, 98 12, 98 12, 98 13, 00
Dec. 12	1,091 1,091	3,994 3,994	500 500	890 890	507 508	515 515	2,936	691 691	600 600	462 462	399 399	400 400	12,98
Dec. 26	1,091	3,994	500	895	519	515	2,936	691	600	462	399	400	13,00
ank premises:  Nov. 28.  Dec. 25.  Dec. 12.  Dec. 19.  Dec. 26.  neollected items and other deductions from gross de-	-,	3,000		}			-,		-		-		,
	į i	l											
posits:	79 935	249,903	88, 495	78 119	85,648	41 665	111 150	70 776	22 088	77 448	60,341	48,085	1,013,42
Nov. 28. Dec. 5. Dec. 12. Dec. 19.	78, 835 66, 250 83, 747	225, 597	75, 934	78,112 65,025 74,347 96,071 91,234	78, 423	36, 836	111,150 106,157 119,738 151,294 139,834	70,776 65,712 68,236	22,968 24,024	77,448 76,894 81,232 89,306	49,952	49 495	920.29
Dec. 12.	83,747	225, 597 234, 567 254, 786	75, 934 81, 244	74,347	78, 423 76, 519	42,846	119,738	68, 236	25.609	81, 232	51, 365	44,077 55,837	920, 29 983, 52 1, 140, 22
Dec. 19	95,697	254,786	90, 192 86, 294	96,071	91,538 90,283	51,911	151,294	78, 915 70, 669	28, 821 29, 285	89,306	55, 856 62, 236	55,837	1,140,22
Dec. 26 per cent redemption fund against Federal Reserve	81,682	235,089	86,294	91,234	90,283	50,072	139,834	70,669	29, 285	90,664	62,236	47,758	1,075,10
against Federal Reserve	l l		ĺ	1	1	1	i	1	i			1	
		]			İ				1	1		1	
Nov. 28	1,072	2,896	1,450	1,112	696	822	1,856	390	206	957	559	655	12,67
Dec. 5	1,072	2,884	1,450	1,262	575 679	804 832	1,876 1,847	497	134 322	957 957	530 498	655 655	12,69
Dec. 19.	1,072 1,072 1,072 1,072	2,896 2,884 2,886 2,922	1,475 1,475	1,112 1,262 1,162 1,204	587	939	1,964	576 476	518	957	554	665	12,67 12,69 12,96 13,33
Bank Hotes: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.	1,072	2,929	1,475	1,146	443	798	2,116	647	428	958	560	665	13, 23
ll other resources:		1	1	1		100	1						-
Nov. 28	317 284	1,340	281 350	697 753	751	180	1,087	227	147	505	269	858	6,65
Dec. 12.	207	1,000			9 191	1 1/1/11	1,005	1 245	172	51.4			8,30
Dag 10	286	1.353	933		2,181 628	200 119	1,092 2,524	245 290	173 128	514 515	390	783	8,32 8,27
Poor *3	286 296	1,353 1,287	933 5,802	443 628	628 595	119 148	1,092 2,524 793	290 382	128 126	515 540	390 246 303	783 811 414	8,32 8,27 11,31
Dec. 26	286 296 280	1,363 1,353 1,287 1,306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128	515	390 246	783 811	8,32 8,27 11,31
Dec. 26tal resources:	286 296 280 457 550	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157	515 540 481	390 246 303 261	783 811 414 424	8,32 8,27 11,31 8,06
Dec. 26tal resources: Nov. 28 Dec. 5	286 296 280 457, 550 441, 465	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157	515 540 481	390 246 303 261	783 811 414 424 409,633	8, 32 8, 27 11, 31 8, 06
Dec. 26. tal resources: Nov. 28. Dec. 5. Dec. 12.	286 296 280 457, 550 441, 465 462, 898	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157	515 540 481	390 246 303 261 194, 275 183, 152	783 811 414 424 409,633 413,899	8,32 8,27 11,31 8,06 6,230,04 6,041,39 6,159,24
Dec. 26.  btal resources:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.	286 296 280 457,550 441,465 462,898 474,383	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157	515 540 481	390 246 303 261 194, 275 183, 152	783 811 414 424 409,633 413,899	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 39 6, 159, 24 6, 224, 60
Dec. 25. tal resources: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Dec. 26.	286 296 280 457, 550 441, 465 462, 898 474, 383 473, 770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157	515 540 481	390 246 303 261	783 811 414 424 409,633 413,899	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 39 6, 159, 24 6, 224, 60
Dec. 25. total resources:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Dec. 26.  tother Federal Reserve Banks:	286 296 280 457,550 441,465 462,898 474,383 473,770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 38 6, 159, 24 6, 224, 60 6, 325, 43
Dec. 25. total resources: Nov. 28. Dec. 25. Dec. 19. Dec. 19. Dec. 26. ncludes bills discounted for other Federal Reserve Banks: Nov. 28.	286 296 280 457,550 441,465 462,898 474,383 473,770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8,32 8,27 11,31 8,06 6,230,04 6,041,39 6,159,24 6,224,60 6,325,43
Dec. 25. tal resources: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 20. Dec. 20. The red red Reserve Banks: Nov. 28. Dec. 5. Dec. 5. Dec. 5. Dec. 5.	286 296 280 457,550 441,465 462,898 474,383 473,770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 38 6, 159, 24 6, 224, 60 6, 325, 43
Dec. 28. tal resources: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 20. neludes bills discounted for ther Federal Reserve Banks: Nov. 28. Dec. 12. Dec. 12. Dec. 12. Dec. 12. Dec. 12. Dec. 12.	286 296 280 457,550 441,465 462,898 474,383 473,770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 38 6, 159, 24 6, 224, 60 6, 325, 43
Dec. 12. Dec. 19. Dec. 26. neludes bills discounted for ther Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 19. Dec. 26.	286 296 280 457, 550 441, 465 462, 898 474, 383 473, 770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8,32 8,27 11,31 8,06 6,230,04 6,041,39 6,159,24 6,224,60 6,325,43
Dec. 5 Dec. 19 Dec. 26 notudes bills discounted for other Federal Reserve Banks: Nov. 28 Dec. 5 Dec. 12 Dec. 12 Dec. 19 Dec. 28	286 296 280 457, 550 441, 465 462, 898 474, 383 473, 770	1.306	933 5,802 1,061	443 628 344	628 595 1,506	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409,633 413,899	8,32 8,27 11,31 8,06 6,230,04 6,041,39 6,159,24 6,224,60 6,325,43
Dec. 5. Dec. 12. Dec. 19. Dec. 26. nchudes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 12. Dec. 26. Dec. 26. ncludes bankers'acceptances bought from other Federal	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141	1.785	290 382 316	128 126 157 173,763 170,127 172,237 175,993 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 001 187, 146 195, 654	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 38 6, 159, 24 6, 224, 60 6, 325, 43
Dec. 5. Dec. 12. Dec. 19. Dec. 26. Includes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 12. Dec. 26. Includes bankers' acceptances bought from other Federal	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700	1,785 896,995 880,293 915,607 926,356 948,706 19,500 20,850 5,000 8,100 14,670	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8,32 8,27 11,31 8,06 6,230,04 6,041,39 6,159,24 6,224,60 6,325,43
Dec. 5. Dec. 12. Dec. 19. Dec. 26. nchudes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 12. Dec. 26. Dec. 26. ncludes bankers'acceptances bought from other Federal	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700	1,785 896,995 880,293 915,607 926,356 948,706 19,500 20,850 5,000 8,100 14,670	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 159, 24 6, 159, 24 6, 325, 43 23, 55 24, 35 24, 35 24, 66 24, 61
Dec. 5. Dec. 12. Dec. 19. Dec. 26. nchudes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 12. Dec. 26. Dec. 26. ncludes bankers'acceptances bought from other Federal	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700	1,785 896,995 880,293 915,607 926,356 948,706 19,500 20,850 5,000 8,100 14,670	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 159, 22 6, 159, 22 6, 224, 00 23, 50 24, 33 15, 90 40, 61
Dec. 5 Dec. 12 Dec. 19 Dec. 26 netudes bills discounted for other Federal Reserve Banks: Nov. 28 Dec. 12 Dec. 12 Dec. 12 Dec. 26 Dec. 26 Dec. 26 Dec. 26 Dec. 27 Dec. 28 Dec. 29 Dec. 29 Dec. 29 Dec. 29 Dec. 20	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700	1,785 896,995 880,293 915,607 926,356 948,706 19,500 20,850 5,000 8,100 14,670	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409, 633 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 159, 22 6, 159, 22 6, 224, 06 6, 325, 43 24, 33 25, 10 40, 61
Dec. 5 Dec. 19 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 20 Dec. 12 Dec. 12 Dec. 12 Dec. 20 D	431, 465 462, 898 474, 383 473, 770	1, 306 1, 955, 586 1, 870, 283 1, 885, 526 1, 854, 119 1, 907, 518	933 5, 802 1, 061 453, 683 445, 950 463, 904 477, 638 472, 962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700	1,785 896,995 880,293 915,607 926,356 948,706 19,500 20,850 5,000 8,100 14,670	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623	8, 32 8, 27 11, 31 8, 96 6, 230, 04 6, 159, 22 6, 224, 06 6, 325, 43 15, 92 28, 10 40, 61 40, 47 40, 47 40, 25
Dec. 12. Dec. 19. Dec. 26. Dec. 28. Dec. 29. Dec. 28. Dec. 28. Dec. 28. Dec. 20. Dec. 20. Dec. 19. Dec. 20. Dec. 19. Dec. 20. Dec. 19. Dec. 20. Dec. 19. Dec. 20. Without their indorse-	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1,506 310,272 300,801 304,159 323,123 312,669 5,080 5,080 5,080 5,080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303,290 291,544 296,917 302,828 302,370 4,000 3,500	128 126 157 173,763 170,127 172,237 174,769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 261 194, 275 183, 152 187, 146 195, 654 10, 900 20, 000 25, 945	783 811 414 424 409,633 413,899 415,645 420,121 423,623	8, 32 8, 27 11, 31 8, 96 6, 230, 04 6, 159, 22 6, 224, 06 6, 325, 43 15, 92 28, 10 40, 61 40, 47 40, 47 40, 25
Dec. 5 Dec. 12 Dec. 28 Dec. 29 Dec. 28 Dec. 28 Dec. 28 Dec. 28 Dec. 29 Dec. 12 Dec. 19 Dec. 19 Dec. 19 Dec. 29 Dec. 19 Dec. 20 Dec. 20 Coludes bankers' acceptances pought from other Federal Reserve Banks: With their indorsement— Nov. 28 Dec. 12 Dec. 12 Dec. 19 Dec. 26 Without their indorse-	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1, 506 310, 272 300, 801 304, 159 323, 123 312, 669 5, 080 5, 080 5, 080 5, 080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303, 290 291, 544 296, 917 302, 828 302, 370 4,000 3,500 	128 126 157 173, 763 170, 127 172, 237 175, 993 174, 769	515 540 481 304,089 291,872 285,833 291,139 302,126	396 246 303 303 261 194, 275 183, 155 187, 001 187, 146 195, 654 	783 811 414 424 409, 633 413, 694 415, 645 420, 121 423, 623	8, 32 8, 72 11, 31 6, 230, 04 6, 041, 38 6, 159, 24 6, 224, 60 6, 325, 43 23, 50 24, 35 15, 90 28, 10 40, 61
Dec. 5 Dec. 12 Dec. 19 Dec. 26 Dec. 28 Dec. 28 Dec. 28 Dec. 28 Dec. 19 Dec. 19 Dec. 19 Dec. 19 Dec. 19 Dec. 26 ncludes bankers' acceptances bought from other Federal Reserve Banks: With their indorsement— Nov. 28 Dec. 19 Dec. 12 Dec. 19 Dec. 19 Dec. 26 Without their indorse-	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1, 506 310, 272 300, 801 304, 159 323, 123 312, 669 5, 080 5, 080 5, 080 5, 080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303, 290 291, 544 296, 917 302, 828 302, 370 4, 000 3, 500 	128 126 157 173, 763 170, 127 172, 237 175, 993 174, 769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 303 261 194, 275 183, 152 187, 001 187, 146 195, 654 	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623 	8, 32 8, 27, 11, 31, 8, 06 6, 230, 04 6, 041, 39, 24 6, 224, 60 6, 325, 43 23, 50 24, 35 15, 90 28, 10 40, 47, 40, 28 70, 53 69, 89
Dec. 5 Dec. 12 Dec. 19 Dec. 26 Dec. 28 Dec. 28 Dec. 28 Dec. 28 Dec. 19 Dec. 19 Dec. 19 Dec. 19 Dec. 19 Dec. 26 ncludes bankers' acceptances bought from other Federal Reserve Banks: With their indorsement— Nov. 28 Dec. 19 Dec. 12 Dec. 19 Dec. 19 Dec. 26 Without their indorse-	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1, 506 310, 272 300, 801 304, 159 323, 123 312, 669 5, 080 5, 080 5, 080 5, 080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303, 290 291, 544 296, 917 302, 828 302, 370 4, 000 3, 500 	128 126 157 173, 763 170, 127 172, 237 175, 993 174, 769	515 540 481 304,089 291,872 285,833 291,139 302,126	390 246 303 303 261 194, 275 183, 152 187, 001 187, 146 195, 654 10, 900 20, 000 25, 945 5, 065 5, 065 5, 065 5, 065 5, 065	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623 	8, 32 8, 27 11, 31 8, 06 6, 230, 04 6, 041, 39 6, 159, 24, 00 6, 325, 43 23, 50 24, 35 15, 90 28, 10 40, 47 40, 47 40, 47 40, 47 40, 58 69, 89 96, 44 83, 85 73, 11
Dec. 5. Dec. 12. Dec. 19. Dec. 26. Includes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 12. Dec. 19. Dec. 26. Includes bankers' acceptances bought from other Federal Reserve Banks: With their indorsement— Nov. 28. Dec. 12. Dec. 12. Dec. 19. Dec. 26. Without their indorse-	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1, 506 310, 272 300, 801 304, 159 323, 123 312, 669 5, 080 5, 080 5, 080 5, 080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303, 290 291, 544 296, 917 302, 828 302, 370 4, 000 3, 500 	128 126 157 173, 763 170, 127 172, 237 175, 993 174, 769	515 540 481 304,089 291,372 285,833 291,139 302,126	390 246 303 303 261 194, 275 183, 152 187, 010 187, 146 195, 654 10, 900 20, 000 25, 945 5, 065 5, 065 5, 065 5, 065 5, 065 5, 065 5, 065 5, 065 5, 065 1, 066 1, 067 1, 0	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623 10, 081 10, 081 11, 547 10, 185 8, 722 6, 56	8, 32 8, 27, 11, 31, 13, 8, 06 6, 230, 04 6, 041, 39 6, 139, 24, 60 6, 325, 43 23, 50 24, 35 15, 90 28, 10 40, 61 40, 47 40, 47 40, 47 40, 47 40, 23 70, 53 69, 89 96, 44 83, 85 73, 11 65, 66
Il other resources: Nov. 28. Dec. 5. Dec. 19. Dec. 19. Dec. 26. Otolar resources: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Includes bills discounted for other Federal Reserve Banks: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Includes bankers' acceptances bought from other Federal Reserve Banks: Nov. 28. Dec. 12. Dec. 19. Dec. 26. Includes bankers' acceptances bought from other Federal Reserve Banks: With their indorsement— Nov. 28. Dec. 19. Dec. 19. Dec. 26. Without their indorsement— Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Dec. 19. Dec. 26.	441, 465 462, 898 474, 383 473, 770	1,955,586 1,970,233 1,885,526 1,854,119 1,907,518	933 5,802 1,061 453,683 445,950 463,904 477,638 472,962	443 628 344 500, 259 486, 439 499, 684 507, 626 525, 565	628 595 1, 506 310, 272 300, 801 304, 159 323, 123 312, 669 5, 080 5, 080 5, 080 5, 080	119 148 141 270, 646 265, 571 269, 830 284, 132 285, 700 5, 065 5, 065	1, 785 896, 995 880, 293 915, 607 926, 356 948, 706 19, 500 20, 850 5, 000 14, 670  15, 210 15, 210 15, 210 25, 307 25, 307	290 382 316 303, 290 291, 544 296, 917 302, 828 302, 370 4, 000 3, 500 	128 126 157 173, 763 170, 127 172, 237 175, 993 174, 769	515 540 481 304,089 291,372 285,833 291,139 302,126	390 246 303 303 261 194, 275 183, 152 187, 001 187, 146 195, 654 10, 900 20, 000 25, 945 5, 065 5, 065 5, 065 5, 065 5, 065	783 811 414 424 409, 633 413, 899 415, 645 420, 121 423, 623 	8, 32 8, 27 11, 31 8, 66 6, 230, 04 6, 159, 24, 6 6, 322, 4 3, 50 24, 35 24, 35 24, 35 24, 35 24, 35 26, 325, 4 40, 47 40, 47 40, 47 40, 47 40, 48 40, 48 40, 47 40, 48 40, 48 40, 47 40, 48 40,

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Nov. 28 to Dec. 26, 1919—Continued. LIABILITIES.

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	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Capital paid in:												ii	
Capital paid in:  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Dec. 26  Surplus fund:  Nov. 28  Dec. 5  Dec. 19  Dec. 26  Government deposits:  Nov. 28  Dec. 5  Dec. 12  Dec. 26  Covernment deposits:  Nov. 28  Dec. 5  Dec. 12  Dec. 26  Dec. 12  Dec. 26  Dec. 12  Dec. 26  Dec. 19  Dec. 26  Dec. 19  Dec. 26  Dec. 19  Dec. 26  Dec. 19  Dec. 26  Due to members—reserve account:  Nov. 28	7,103	22, 448 22, 373	7,873	9,469	4,386 4,388 4,392	3,406	12,308	4,057	3,060	3,996	3,437	5,458	87,001 86,973 87,002
Dec. 5	7,105	22,373	7, 873	0,480	4,388	3,413	12,309	4,060	3,073	3,998	3,439	5,473	86,973
Dec. 19	7,104	22,382 22,386	7,874 7,875	9,461 9,482	4,392	3,415 3,418	12,315 12,347 12,347	4,060 4,060	3,073 3,074	4,008	3,440 3,417	5,478 5,487	87,002 87,049
Dec. 26	7,108	22,386 22,388	7,884	9,482	4,392	3,424	12,347	4,063	3,074	4,012	3,417	5,748	87,339
Surplus fund:	F 000					1	1	1	1 '		ļ	1 !	
Dec. 5	5,206	32,922 32,922	5,311 5,311	5,860 5,860	3,800	2,805 2,805 2,805 2,805 2,805 2,805	9,710	2,589	2,320	3,957 3,957	2,029 2,029	4,578 4,578	81,087 81,087
Dec. 12	5,206	32, 922 32, 922 32, 922 32, 922	5,311 5,311 5,311 5,311	5,860 5,860 5,860	3,800 3,800 3,800 3,800	2,805	9,710 9,710 9,710 9,710 9,710	2,589 2,589 2,589 2,589 2,589	2,320 2,320 2,320 2,320 2,320	3,957	2,029	4,578	81,087
Dec. 19	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 denosits:	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
Nov. 28	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	2 157	2,928 3,282	2,102 4,527 5,991 8,319	2, 269	1,676	2.658	1	3,662	1,119	6,467	98, 157 39, 798
Dec. 12	20 162	30,467 630	9,621 5,904	3,282	4,527	3.602	9 725	5,676	2,300	7,817	4,407	8,952 1,480	89,503
Dec. 26.	8.338	12,641	2,966	3,400 6,746	8.319	8, 705 5, 105	2,735 1,646	2,932 3,872	2,306 2,088 2,721	6,959	2,449 5,377	7,667	64, 459 72, 357
Due to members-reserve ac-	"		_,	٠,٠٠٠	-,	-,	_,-,	,	-,	1	,	.,	,
count:	100 154	707 700	01 470	100 001	00 070	FO 050	040 077	00 010	EO E00	04 455	E0 400	111 000	1 044 494
Dec. 5	115, 736	787, 739 746, 535	81,472 100,122	132, 861 128, 145	66,273 62,091	50, 278	246, 855 243, 715 248, 069 240, 563 253, 864	62,016	50,508	84,455 86,640	60, 700	111,662 117,783	1,844,434 1,830,037
Dec. 12	119,614	746, 535 735, 659	94,666	131,805	62,855	55,685	248,069	67,280	50, 874 50, 530	82.691	50 084	1108 588 1	1, 817, 406
Dec. 19	111,030	681,610	94, 930 95, 505	122, 907 127, 627	62,855 59,954 61,081	56,978	240, 563	67,368 67,280 65,909 67,092	50,690 51,532	77, 202	58,961	112,279 116,357	1,817,406 1,733,013 1,786,874
Deferred availability items:	110,333	706, 254	95,505	127, 627	61,031	01,081	255, 804	61,092	31,332	11,123	58, 423	110,357	
Due to members—reserve account:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Deferred availability items:  Nov. 28.  Dec. 19.  Dec. 19.  Dec. 19.  Dec. 19.  Dec. 26.  Other deposits, including foreign Government credits:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Total gross deposits:  Nov. 28.  Dec. 19.  Dec. 26.  Total gross deposits:  Nov. 28.  Dec. 19.  Dec. 26.  Federal Reserve notes in actual circulation:  Nov. 28.	72,753	188,922	90, 160	67,506	71,595	39,575	91, 131	62,591	19, 199	82, 163	43, 298	32,543	861,436
Dec. 5	58,407	162,920 166,058 188,824 188,383	67,778 77,593	58, 161	68,655 67,215	36,590	76, 730 97, 642	51,027 53,137 58,368 55,155	19, 199 17, 106	66,257 60,060	31, 335	22,886	861,436 717,852 759,554
Dec. 12	63 312	188 824	90,771	73 173	83,610	34,073	104 328	58 368	16,974 19,085	69,390	32,026 34,089	29,688 26,600	709,004
Dec. 26	63,293	188, 383	80, 832	61,947 73,173 70,420	68, 364	38, 057 36, 129	104, 328 103, 130	55, 155	15,459	78, 441	37,607	25, 467	848,607 822,680
Other deposits, including for-	1		1	<b>'</b>	1	*	1			'	1	'	
eign Government credits:	5 042	44,065	6,976	6,019	3,594	2 706	9,659	3,747	2 158	2 637	2 085	7,312	98,798
Dec. 5	5.748	43, 117	6,624	6,073	3.571	2,706 2,715	9.542	4,002	2,156 2,124 2,156 2,700	3,637 3,575	2,985 2,050	4.992	04 133
Dec. 12	. 7,713	43, 117 43, 263 43, 935	7,038	6,049	3,628 3,622	2,639	15,580	4,002 3,855	2, 156	3,611 3,792	2,490	5,466	103,488
Dec. 19	5,908	43,935	6,493 6,832	6,386	3,622	2,891	11,322	3,984 3,588	2,700	3,792	2,093 2,066	11,943	105,009 97,659
Total gross deposits:	0,200	42,685		6, 147	3,610	2,681	10,036	1	2,216	3,645	2,000	5,865	81,008
Nov. 28	. 199,641	1,057,998	185,623 177,681	208,856	146,780	99,159 91,852	354,616	137, 853	75, 101		108, 333	155, 567	2,902,825
Dec. 5	. 182, 246	964,027	177,681	195,307	136,419	91,852	331,663 361,291	125,055	70, 104	160, 134	95, 204	152, 128	2,681,820
Dec. 19.	199, 314	910,447	188,918 198,098	203,083	153, 177	95,999	358 948	131 193	74,563	158, 367	98,907 97,592	152,674 152,302	2,769,951
Dec. 26	190, 254	1,057,998 964,027 975,447 914,999 949,963	186, 135	203, 083 205, 866 210, 940	141,374	106,631 104,996	358, 948 368, 676	137, 853 125, 055 129, 948 131, 193 129, 707	71,928	154, 179 158, 367 166, 768	103, 473	155,356	2,681,820 2,769,951 2,751,148 2,779,570
Federal Reserve notes in actual circulation: Nov. 28. Dec. 19. Dec. 19. Dec. 19. Dec. 26. Federal Reserve bank notes in circulation—net liability: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. All other liabilities: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Total liabilities: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Total liabilities: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Total liabilities: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.				1									
circulation:	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 2,988,894
Dec. 26	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	120, 200	021,011	210,210	212,001	110100	130,000	010,010	110,100	01,110	100,100	12,000	,	,,
circulation—net liability:	01 100	50 150	07 000	21 400	11 500	14 800	00 504	15 000	0.000	10.000	0.000	11 005	050 702
Dec. 5	20,044	56, 163	27,938	21,490	11, 702	14,703	40 264	15,996	8,000	18,954	10.094	11, 455	256, 793 257, 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	. 20,644	55, 425	28, 911	22, 220	12,068	15,206	40,718	15,380	8,093	19,315	10,292	11,703	259,975 261,039
All other liabilities:	20,744	04,024	29,020	22, 197	12,001	15,003	41,109	15,010	0,107	19,540	10,410	11,090	201,038
Nov. 28	. 3,603	18,670	3,887	3,573	2,048	2,006	5,705	1,786	1,492	2,401	1,308	3,579	50,058
Dec. 5	3,791	19,827	4,019	3,699	2,150	2,098	6,013	1,875	1,602	2,487	1,380	3,736	52,677 55,322 56,451 58,751
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 habitities:	457 550	1 056 596	452 692	500 250	210 272	270 848	906 005	202 200	172 782	204 080	104 275	400 633	6,230,041
Dec. 5	. 441, 465	1,870,283	445.950	486, 439	300, 801	265, 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. 26	- 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 6, 325, 432
367736079 13779 1	.,,,,,,,	1,001,010	112, 502	020,000	312,000	200, 100	340, 100	302, 510	174, 108	302, 120	100,001	120,020	0,020,102
MEMORANDA.				1	}	1	1						1
Contingent liability as indorser on:	`		1				1			I			1
Discounted paper redis-	.		1			1	1	1	1		j		1
counted with other Fed-	. [					1	1				1	!	ļ
eral Reserve Banks— Nov. 28	1	!	09 500		1		1		!	1	1	1	92 800
Dec. 5			. 23,500 . 24,350										23, 500 24, 350
Dec. 12			. 15, 900										15,900
Dec. 19			1 21 100	1	-	.			.,	7,000		• • • • • • • • • • • • • • • • • • • •	28, 100
Dec. 26	·		27,615			-			.,	. 13,000	1		40,615
to other Federal Reserve	i				1	1	Ì			1	i		j
Banks—		1			1	-	1	1		1			,n .=.
Nov. 28 Dec. 5										-			40, 474
Dec. 12	. 40,282										- 1		40, 473 40, 282
Dec. 19	. 70,536												70,536
Dec. 26	. 69,899		-		.	-	-	.	-	-	-	· ····	69, 899
		·	<del> </del>	<del></del>	<del></del>								

# ${\it Maturities of bills discounted and bought, also of {\it United States certificates of indebtedness}.}$

	Within 15 days.	16 to 30 days.	31 to 60 days.	614to 90 days.	Over 90 days.	Total.
Bills discounted:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Bills bought:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 12.  Dec. 12.  Dec. 12.  Dec. 26.  United States certificates of indebtedness:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 12.  Dec. 26.	1, 490, 897 1, 328, 059 1, 484, 790 89, 003 82, 562 78, 472 123, 248 123, 727 30, 235 29, 075 22, 158	135, 642 125, 065 116, 113 134, 643 244, 890 85, 690 116, 662 128, 987 106, 219 100, 060 13, 012 13, 242 9, 221 2, 072 4, 805	293, 789 298, 600 322, 128 362, 091 292, 715 201, 297 185, 802 187, 068 188, 830 209, 278 14, 158 8, 454 6, 551 6, 221 3, 940	147, 969	18, 640 18, 724 18, 827 18, 834 20, 358 2, 266 213, 303 226, 793 226, 659 237, 659 237, 659 237, 659	2,214,209 2,108,108 2,139,516 1,995,112 2,194,878 495,505 514,219 566,266 585,212 288,032 233,838 273,219 303,558 273,507

# 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- del- phia.	Cleve- land.	Rich- mond.	At- lanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Federal reserve notes:  Received from agent—  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Held by bank—	232,779 236,708 245,517 253,669	868,304 885,698 909,863	234, 433 237, 620 243, 606	265, 747 270, 217	147,937 148,351 153,427	153, 207 154, 417 155, 452 159, 650 162, 809	507, 521 513, 377 523, 257	161,921	86,329 86,393 87,621	107, 443 108, 502 108, 916 109, 944 111, 005	73,776 74,480 75,625	260, 573 266, 711 267, 979 270, 605 277, 801	3, 059, 652 3, 108, 377 3, 148, 740 3, 220, 560 3, 292, 098
Held by bank— Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. In actual circulation—	9.971	78,451 93,333 107,528 103,248 104,719	10,779 11,821 8,543 10,365 9,165	13,498 15,363 14,880 12,305 11,451	5,223 5,641 4,577 6,000 6,539	4,640 3,668 4,621 5,730 6,210	24,724 27,187 28,174 25,083 23,720	20, 485 19, 872 20, 839 21, 248 19, 063	1,766 1,315 1,224 1,457 1,441	5,694 6,160 7,032 7,137 5,905	3,260 2,770 3,444 3,223 3,091	31,487 30,182 30,472 28,564 35,934	207, 375 227, 018 241, 305 231, 666 234, 452
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Gold deposited with or to credit	220,828 223,073 226,737 238,211 246,455	774, 971 778, 170	223, 051 222, 612 229, 077 233, 241 240, 273	250,384 255,337	143, 774 147, 427	150,749 150,831 153,920	498, 174	142,049 142,710 147,704	85,014 85,169	101,749 102,342 101,884 102,807 105,100	71,006 71,036 72,402	229, 086 236, 529 237, 507 242, 041 241, 867	2,852,277 2,881,359 2,907,435 2,988,894 3,057,646
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Paper delivered to Federal Re-	62,090 71,692 70,621 71,930 73,782	282,877 291,356 290,070 288,751 307,385	77,485 78,872 79,458	105, 502 118, 420 117, 050 116, 925 125, 048	46,923 45,381 43,595 42,031 41,036	55,097 56,022 60,585	247, 491 243, 826 249, 082 251, 202 245, 883	69,100 61,207 74,195 65,258 65,920	34,354 35,733 34,997 34,275 35,570	38,917 40,126 39,139 39,977 39,858	26,651 26,015 26,451	104,399 105,217 108,685 124,811 130,447	1,148,724 1,172,191 1,188,343 1,201,654 1,240,032
serve agent: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.	209, 651 198, 295	917, 238 944, 892 836, 153	161,014 179,503 178,544	208, 542 214, 640 210, 807	106,593 115,852	102,356 104,330 108,170 109,634 106,172	356, 193 345, 929	105, 973 99, 292	68,495 68,573	105, 586 100, 204 108, 820 105, 561 107, 359	54, 213 60, 415 60, 693	171,606 171,269 159,909 149,165 159,315	2,618,530 2,536,068 2,615,646 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.

[In thousands of dollars, i. e., 000 omitted.]

					donais,	0., 000		•,				_	
	Boston.	New York.	Fhila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
FEDERAL RESERVE NOTES.													
Received from comptroller:		İ		ŀ	ļ			ļ					
Received from comptroller:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Dec. 26.  Returned to comptroller:  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 12.  Dec. 19.  Dec. 26.  Chargeable to Federal Reserve agent:	458,800	1,884,860	492,780	451,760	292,640	289,000	797,800	286, 280	146, 480	196, 160	131,740	382,120 388 440	5,810,500 5,869,780 5,929,780 6,000,260 6,060,280
Dec. 12	461,800	1,927,120	504,780	463,740	299, 400	293,000	816, 960	289,600	146, 480	199, 160	136, 500	391, 240	5, 929, 780
Dec. 19	475,980	1,949,420	510, 780	468, 440	300, 400	294,000	823,080	293,000	149, 480	201, 160	138, 780	388, 440 391, 240 395, 740 406, 300	6,000,260
Returned to comptroller:	470,900	1,975,500	310, 780	474,740	502,900	293,000	520, 300	299,000	152,080	202, 100	100, 100	100,300	
Nov. 28	182,324	918,011	230, 970	163, 431	122,843	86,928	269,734	105,906	52,820	82,407	46,314	117,397 120,579 122,111 123,985 127,349	2,379,085 2,404,841 2,431,667 2,454,972 2,483,069
Dec. 12	187, 721	923,350	235,007	169 483	124,380	89 458	278, 399	108,799	54 177	83,198	47 295	120,579	2,404,841
Dec. 19	189, 483	933, 557	238, 034	171, 407	127, 735	90, 895	282, 023	109, 748	54,899	85,346	47,860	123, 985	2, 454, 972
Charges blo to Fodoral Reserve	191,631	939,897	240,002	173, 785	128, 730	91,746	287,342	112,085	55,604	86,465	48, 433	127,349	2, 483, 069
agent:	Ì		1				}				1		
agent:     Nov. 28     Dec. 5     Dec. 12     Dec. 19     Dec. 26  In hands of Federal Reserve	276, 476	966, 849 981, 304 998, 698 1, 015, 863 1, 035, 663	261, 810 265, 773 269, 160 272, 746 270, 778	288, 329	169, 797	202,072 202,117 203,542 203,105	1528 146	1180 374	93,660	113,753 113,962 114,976	85, 426	264, 723 267, 861 269, 129	3, 431, 415 3, 464, 939 3, 498, 113 3, 545, 288 3, 577, 211
Dec. 12	274,008	981,301	269,773	294, 587	173 229	202,117	538, 817	179, 961 180, 789 183, 252	93,039	113,962	88,841	267,861	3,464,939
Dec. 19	286, 497	1,015,863	272, 746	297,033	172,665	203, 105	541,057	183, 252	94,081	1110,814	1 90, 920	271,755	3,545,288
Dec. 26	281,349	1,035,663	270, 778	300,955	174, 170	203, 254	539,058	187, 515	96,476	115, 695	90,347	278, 951	3,577,211
agent:		1									ĺ		
agent: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26.  Issued to Federal Reserve Bank	48,280	121,000 113,000	27, 980 31, 340 31, 540	23,820 28,840	23,018	48,865 47,700 48,090 43,455 40,445	28,360 23,840 25,440 17,800 5,320	18,880 18,040 17,240 14,300	8,110 6,710 5,910	6,310	12,990 15,065	4,150	371,763
Dec. 12	37, 300	113,000	31,340	24,040	21,117	48,090	25, 440	17 240	5 910	5,460 6,060	15,005	1,150	356, 562 349, 373
Dec. 19	40,980	106,000	29, 140 21, <b>340</b>	24,540	24,878 19,238	43, 455	17,800	14,300	1 6,960	5,870	14,725 15,295	1,150 1,150 1,150	324, 728 285, 113
Dec. 26	30,680	106,000	21,340	16,620	18,938	40, 445	5,320	20,000	7,560	4,690	12,370	1,150	285, 113
less amount returned to Federal Reserve agent for re-					1	-		1	]	Ì			
eral Reserve agent for re-		}							İ			İ	
demption:	228, 196	845, 849	233, 830	264, 509	146, 779	153, 207	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	107, 443 108, 502	73,776	266, 711 267, 979	3, 108, 377 3, 148, 740 3, 220, 560
Dec. 12	236,708	885,698	237,620	270, 217	148,351	155, 452	513,377	163,549	86,393	108,916 109,944	74,480 75,625	267, 979 270, 605	3,148,740
Dec. 26	253, 669	929,663	249, 438	284, 335	155, 232	153, 207 154, 417 155, 452 159, 650 162, 809	533, 738	167, 515	88,916	111,005	77, 977	277, 801	3, 292, 098
Collateral held as security for	1	1	1	<b>'</b>	1	1	<b>1</b>	1	1	′	1	1	' '
Gold coin and certificates—	. [		1		1		Ì	1			1	ļ	
Nov. 28	-	183,740		24, 125		2,500		4,000	13,052		8,831		236, 248
Dec. 5	• ••••	183,740		37,525		2,500		4,000	13,052		8,831	••••••	249,648 244,848
Dec. 19		183,740 183,740 183,740 183,740 183,740		32,525		2,500		4,000	13,052		8,831		244,648
Dec. 26	· ·····	183,740		32,025		2,500		4,000	13,052		8,831		244, 148
Nov. 28	. 13,090	14, 137	15, 133	16.377	923	4,053	9,347	3,169	1,502	2,557	4.681		99 461
Dec. 5	13,692	12,616	13,096	16,377 15,895 14,325	1,381	4 007	9,347 8,682 7,938	4,277	2,881 2,145	3,766	4,336	13, 439	98, 158 90, 489
Dec. 19	16,930	11,330 15,011	13, 069	14, 323	1,595 2,031	3,522 3,085 4,234	9,058	5 327	1 423	2,557 3,766 2,779 3,617	4,336 5,700 5,136	20,787	90, 489 110, 000
Dec. 26	. 14,782	13,645	13,096 10,483 13,069 16,101	13,023	1,036	4, 234	9,058 8,738	3, 169 4, 277 4, 264 5, 327 2, 990	1,423 2,718	2,498	4,563	14, 492 13, 439 12, 787 20, 913 19, 247	103, 575
Gold settlement fund, Fed-		1	1			1	1	1	1	1	1	1	}
Nov. 28	49,000	85,000	63,389 64,389 68,389 66,389 66,390	65,000	46,000	47,000	238, 144 235, 144 241, 144 242, 144 237, 145	61,931	19,800	36,360	11,484	89,907	813,015
Dec. 5	58,000	95,000 95,000	64,389	65,000 70,000	44,000	48,500	235, 144	52,930 65,931 55,931 58,930	19,800 19,800	36 360	13,484	91,778 95,898 103,898 111,200	824,385 853,006
Dec. 19	55,000	90,000	66,389	70,000	42,000 40,000 40,000	55,000	242, 144	55, 931	19,800	36,360 36,360 37,360	11,484 12,484	103, 898	847,006
Dec. 26	. 59,000	110,000	66,390	70,000 80,000	40,000	58,000	237, 145	58,930	19,800 19,800	37,360	14,484	111,200	847,006 892,309
required :-			1			1		1					
Nov. 28	. 166, 106	562,972 576,948 595,628	155, 308 156, 948 158, 748	159,007	99,856	99,654	252, 295	92,394	51, 196	68,526	47,440	156, 174	1,910,928
Dec. 12	. 161, 087 . 166, 087	576,948	156, 948	153, 167	102, 556 104, 756	99,320	263,695 264, 295	100,714 89 354	50, 596 51, 396	68,376 69,777	47,125	161, 494 159, 294	1,910,928 1,936,186 1,960,397
real Reserve agent for redemption: Nov. 28. Dec. 5. Dec. 12. Dec. 19. Dec. 26. Collateral held as security for outstanding notes: Gold coin and certificates— Nov. 28. Dec. 5. Dec. 19. Dec. 19. Dec. 19. Dec. 26. Gold redemption fund— Nov. 28. Dec. 12. Dec. 19. Dec. 12. Dec. 19. Dec. 26. Gold settlement fund, Federal Reserve Board— Nov. 28. Dec. 12. Dec. 19. Dec. 26. Eligible paper, minimum required i— Nov. 28. Dec. 12. Dec. 19. Dec. 26. Eligible paper, minimum required i— Nov. 28. Dec. 5. Dec. 19. Dec. 26. Eligible paper, minimum required i— Nov. 28. Dec. 5. Dec. 19. Dec. 26.	. 173, 587	621,112	1164, 148	1155, 568	1111.396	99,065	272, 055	92,394 100,714 89,354 103,694 101,595	53,346	69,967	49, 174	159, 294 145, 794	12.018.906
Dec. 26	. 179,887	622, 278	166,947	159, 287	114, 196	98,075	287,855	101,595	53,346	71,147	50,099	147,354	2,052,066
	1		<u> </u>	1	1	1	!	1	1	1	1	<u> </u>	<u> </u>

<sup>&</sup>lt;sup>1</sup> For actual amounts see "Paper delivered to Federal Reserve agent" on p. 100.

#### 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

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 accommoda-1,070.3 millions on November 14 to 846.1 tion obtained by the member banks from the millions five weeks later. The shift from collateral notes to rediscounts is due in part combined total of the banks' own bills payable and their rediscounted customers' paper, a total blions 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.

	Bos- ton.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Number of reporting banks: Nov. 21	46 46 46 46 46	112 112 112 112 112 112	56 56 56 56 56	90 90 90 90 90	82 82 82 82 82 82	47 47 47 47 47	107 107 107 107 107	35 35 35 35 35 35	35 35 35 35 35 35	80 81 82 82 82	43 43 43 43 43	61 61 61 61 61	79 <b>4</b> 795 796 796 796
secure circulation: Nov. 21 Nov. 28 Dec. 5 Dec. 12 Dec. 19 Other United States bonds.	13,536 13,536 13,536 13,536 13,536	48, 737 48, 759 48, 759 48, 887 48, 887	11,097 11,097 11,197 11,097 11,097	41,841 41,841 41,841 41,841 41,841	26, 071 26, 071 26, 071 26, 271 26, 271	14,015 14,015 14,015 14,015 14,015	20, 857 20, 859 20, 873 20, 873 20, 873	17, 154 17, 154 17, 154 17, 153 17, 153	7,120 7,120 7,120 7,120 7,120 7,120	14, 467 14, 467 14, 467 14, 467 14, 217	19,573 19,573 19,573 19,573 19,573	34,605 34,605 34,819 35,017 34,605	269, 073 269, 097 269, 425 269, 850 269, 188
including Liberty bonds: Nov. 21 Nov. 28 Dec. 5 Dec. 12 Dec. 19 United States Victory	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
	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
	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
	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
	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
notes:     Nov. 21     Nov. 28     Dec. 5.     Dec. 12     Dec. 19 United States certificates	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
	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
	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
	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
	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
of indebtedness: Nov. 21 Nov. 28 Dec. 5. Dec. 12 Dec. 12 Total United States securi-	30,347	388, 873	39, 607	67, 116	20, 831	30,714	115,710	13, 054	23, 255	21, 229	14, 857	55, 423	821, 016
	36,680	381, 015	39, 450	64, 935	20, 863	29,137	117,729	11, 140	22, 321	20, 989	16, 330	55, 951	816, 540
	46,582	362, 972	50, 411	68, 518	28, 809	37,549	126,229	13, 779	21, 647	20, 684	21, 810	63, 027	862, 017
	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
	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
ties owned: Nov. 21 Nov. 28 Dec. 5. Dec. 12. Dec. 19 Loans secured by United	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
	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
	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
	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
	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
Dec. 12. Dec. 19. United States bonds to secure circulation: Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19. Other United States bonds, including Liberty bonds: Nov. 28. Dec. 19. United States bonds, including Liberty bonds: Nov. 21. Nov. 28. Dec. 19. United States Victory notes: Nov. 21. Nov. 28. Dec. 19. United States victory notes: Nov. 21. Nov. 28. Dec. 19. United States certificates of indebtedness: Nov. 21. Nov. 28. Dec. 19. United States certificates of indebtedness: Nov. 21. Nov. 28. Dec. 19. Total United States securities owned: Nov. 21. Nov. 28. Dec. 19. Loans secured by United States bonds, Victory notes, and certificates: Nov. 21. Nov. 28. Dec. 5. Dec. 19. Loans secured by stocks and bonds, other than United States securities: Nov. 21. Nov. 28. Dec. 5. Dec. 19. Loans secured by stocks and bonds, other than United States securities: Nov. 21. Nov. 28. Dec. 5. Dec. 19. Loans secured by stocks and bonds, other than United States securities: Nov. 21. Nov. 28. Dec. 5. Dec. 19. All other loans and investments: Nov. 21. Nov. 28. Nov. 21. Nov. 28. Nov. 21. Nov. 28.	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
	40,745	543, 188	116, <b>39</b> 7	93, 589	37,687	24,749	96, 193	30,208	15,779	19,758	6,513	28, 857	1,053,663
	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
	39,454	528, 199	105, 168	89, 111	37,554	24,515	93, 340	30,417	15,052	20,223	7,469	30, 072	1,020,574
	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
and bonds, other than United States securities: Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19.	210, 960	1, 427, 816	213, 119	339, 392	114,029	49, 246	457,598	149, 219	32,066	71,893	30,644	124, 955	3, 220, 937
	202, 583	1, 430, 583	209, 433	343, 951	113,594	50, 196	458,838	151, 098	30,737	73,638	30,374	127, 597	3, 222, 622
	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
	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
	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
Dec. 12. Dec. 19.	666, 797 671, 609	3, 282, 980 3, 342, 708	486, 520 486, 197	794,301 794,059						464, 136 468, 601 474, 628 463, 262 469, 232		729, 498 736, 955 730, 836 729, 061 742, 501	9, 182, 416 9, 195, 138 9, 186, 687 9, 246, 697 9, 339, 958
ments: Nov. 21. Nov. 28. Dec. 5. Dec. 19. Reserve balances with Federal Reserve Bank: Nov. 21. Nov. 28. Dec. 5. Dec. 19.	979, 043	6,097,456	904, 703	1, 412, 472	593, 256	498, 856	2, 136, 773	524, 511	347, 130	625, 184	301, 247	1,042,917	15, 463, 548
	961, 166	6,077,936	910, 081	1, 417, 340	588, 898	489, 272	2, 139, 584	529, 595	345, 519	630, 600	306, 811	1,054,460	15, 451, 262
	976, 272	5,987,183	903, 325	1, 425, 758	599, 205	505, 426	2, 150, 892	536, 608	345, 470	636, 459	314, 423	1,057,899	15, 438, 920
	988, 758	5,993,902	903, 834	1, 425, 960	598, 789	518, 572	2, 160, 553	544, 304	334, 240	623, 636	313, 602	1,053,107	15, 459, 257
	996, 414	6,074,849	903, 379	1, 433, 831	597, 314	525, 007	2, 162, 983	556, 374	338, 713	633, 979	331, 150	1,060,813	15, 614, 806
eral Reserve Bank: Nov. 21  Nov. 28  Dec. 5  Dec. 12  Dec. 19	79,590	687, 255	66,070	93, 553	39, 414	33, 824	185, 565	43,411	26,738	54,162	26,094	73, 437	1,469,113
	73,601	720, 101	60,354	90, 391	40, 440	32, 911	181, 235	43,373	25,789	50,072	24,582	72, 007	1,414,856
	79,993	694, 393	66,769	90, 214	37, 882	30, 836	182, 522	44,420	22,045	52,129	27,453	77, 627	1,406,193
	84,696	677, 355	62,087	91, 741	40, 908	35, 365	192, 857	43,382	23,600	49,202	28,216	73, 020	1,402,429
	77,189	629, 951	64,043	86, 901	37, 378	35, 777	183, 027	40,503	21,091	43,723	25,524	71, 830	1,316,937

1. ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT—Continued.

			(III (	housands	ог аонаг	S; 1. e., t	omitte	u.j					
	Bos- ton.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Cash in vault:  Nov. 21  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Net demand deposits on which reserve is computed:	24,748 24,578 26,304 26,520 28,431	129, 976 129, 830 134, 733 132, 605 136, 195	18, 209 18, 333 19, 232 19, 576 20, 549	35,848 32,329 36,134 35,632 37,760	18, 634 18, 589 18, 271 17, 361 18, 456	13,704 14,707 13,835 14,032 14,646	71, 261 70, 576 71, 528 72, 093 71, 978	11, 527 12, 380 12, 502 12, 388 13, 054	9, 138 9, 174 10, 369 9, 101 9, 137	14, 962 15, 506 15, 534 16, 103 15, 110	10,897 12,096 11,357 11,769 10,798	27, 142 26, 445 26, 188 26, 378 27, 440	386, 046 384, 543 395, 987 393, 558 403, 554
puted: Nov. 21 Nov. 28 Dec. 5 Dec. 12.	784, 693 779, 391 788, 991 806, 688 767, 447	5,109,451 5,121,787 5,013,899 5,099,590 5,066,722	668, 080 666, 231 675, 676 674, 581 638, 432	825,594 821,437 824,759 837,166 816,544	374, 781 374, 830 364, 802 371, 828 360, 777	286, 882 289, 997 284, 149 297, 969 302, 283	1,405,803 1,380,974 1,370,900 1,415,244 1,364,973	342, 442 338, 631 337, 534 352, 307 354, 045	259, 087 255, 242 247, 390 244, 222 241, 705	462, 994 467, 785 464, 156 474, 487 456, 149	234, 892 236, 932 234, 319 234, 160 235, 769	596, 047	11, 343, 085 11, 337, 614 11, 203, 994 11, 404, 289 11, 195, 085
Nov. 21 Nov. 28 Dec. 5 Dec. 12.	124, 312 126, 501 127, 901 128, 964 128, 032	427, 627 419, 076 389, 174 393, 898 397, 768	22,393 22,440 22,215 22,234 22,172	323, 879 323, 239 326, 055 326, 453 330, 219	96, 782 96, 794 96, 859 96, 687 96, 900	119, 052 118, 743 120, 448 120, 172 119, 729	543, 975 548, 195 552, 175 553, 391 555, 033	107, 590 109, 459	59, 083 <b>5</b> 9, 214 59, 642 59, 597 59, 884	83,099 83,531 83,254 83,692 85,612	33, 290 33, 338 30, 427 35, 187	347, 104 347, 603 350, 864 352, 641 351, 757	2, 288, 186 2, 288, 133 2, 270, 678 2, 283, 673 2, 293, 384
which reserve is computed:     Nov. 21     Nov. 28     Dec. 5.     Dec. 19.     Time deposits:     Nov. 28     Dec. 5.     Dec. 19.     Orec. 12.     Dec. 19.     Dec. 19.     Dec. 19.     Bills payable with Federal Reserve Bank:     Nov. 21     Nov. 21     Nov. 28     Dec. 19.     Secured by United	15, 613 13, 212 31, 027 22, 840 42, 433	118, 196 87, 281 171, 328 114, 606 283, 506	15,338 11,366 24,528 17,100 41,199	17,887 14,516 30,845 22,211 53,701	7, 497 6, 850 15, 177 10, 851 15, 829	3,144 2,587 15,773 14,304 24,663	24,009 22,056 52,859 38,427 67,912	4,473 3,516 13,037 10,497 27,102	5,740 5,245 11,605 8,169 9,992	6,143 6,215 12,543 8,863 15,229	4,726 4,178 15,132 12,335 34,890	8,935 6,031 21,209 15,759 31,442	231,701 183,053 415,063 295,962 647,898
tions	}	}	78,472 78,324	98, 784 103, 407	48,940 42,489	48, 290 45, 756	106, 781 108, 853	21,376 28,426	20,084 21,310	37,038 35,612	10,029 13,434	41,057 42,828	1,054,532 1,107,935
Dec. 5	17, 259 34, 880 43, 761	465,735 458,054 339,853	80,647 80,929 73,757	89, 481 90, 959 89, 923	46,414 52,637 50,189	45,719 45,240 45,078	104,682 94,903 89,767	21,497 18,506 25,627 750	16,400 13,358 13,343	28,301 28,043 31,549 2,937	13,950 13,175 9,770 215	50, 101 41, 030 28, 751	980, 186 971, 714 841, 368 4, 942
All other— Dec. 5 Dec. 12 Dec. 19 Bills rediscounted with Federal Reserve Bank: Nov. 21	84 435				175 17,844	505 460 35,184	69,970	750	100 100	2,937 3,670 3,588 39,507	215 77 6,686	100 335 31,741	5,340 4,735
Nov. 28 Secured by United States war obliga- tions—	91,094	217,733 235,424 146,272		37, 073 40, 526 9, 287	19,999	2,977	78, 195 9, 672	22,122 21,654 5,065	23,348 25,103 2,458	38,081	6,505	3,271	679, 546 704, 974 320, 170
Dec. 5 Dec. 12 Dec. 19 All other— Dec. 5 Dec. 19 Dec. 19	56, 767 54, 188 34, 843 33, 185	146, 272 144, 443 127, 784 111, 539 135, 906 131, 529	75, 302 76, 730 78, 696 13, 088	9, 287 9, 677 9, 271 32, 861 39, 290 38, 083	10, 201 10, 252 10, 746 11, 014 11, 551 14, 388	3,150 3,105 30,931 28,192	7,865 6,678 67,911 86,624	4,290 6,977 24,407 24,158 18,458	2,458 2,128 2,423 29,082 34,287 39,554	5,248 4,187 3,800 32,385 31,612 32,304	73 124 5,726 4,852	2,642 2,482 25,641 19,765	322, 204 306, 274 419, 428 461, 599 486, 037
Dec. 19	42,961	131,529	12, 177 24, 283	38,083	14,388	26,870	89, 917	18,458	39, 554	32,304	4,580	23,110	486, 037
		2. MEMB1	ER BAI	NKS IN	FEDER	AL RE	SERVE :	BANK	CITIES.		····	1	<del></del>
Number of reporting banks: Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19. United States bonds to se-	22 22 22 22 22 22	71 71 71 71 71	41 41 41 41 41	12 12 12 12 12 12	9 9 9 9	8 8 8 8	50 50 50 50 50	13 13 13 13 13	9 9 9 9	19 20 20 20 20 20	6 6 6 6	15 15 15 15 15	275 276 276 276 276 276
cure circulation:  Nov. 21  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Other United States bonds, including Liberty bonds:	3,606 3,606 3,606 3,606 3,606	39,040 39,062 39,062 39,190 39,190	7,087 7,087 7,187 7,087 7,087	3,631 3,631 3,631 3,631 3,631	2,832 2,832 2,832 2,832 2,832 2,832	3,100 3,100 3,100 3,100 3,100	1,438 1,438 1,438 1,438 1,439	10, 549 10, 549 10, 549 10, 548 10, 548	2, 791 2, 791 2, 791 2, 791 2, 791 2, 791	4,753 4,753 4,753 4,753 4,753	4,560 4,560 4,560 4,560 4,560	18,500 18,500 18,500 18,500 18,500	101, 887 101, 910 102, 009 102, 036 102, 037
including Liberty bonds: Nov. 21  Nov. 28  Dec. 5  Dec. 12  Dec. 19	7,130 6,288	253, 264 245, 014 245, 917 245, 387 241, 147	22,367 22,918 22,826 22,219 22,272	9,707 9,687 9,759 9,555 9,685	5,722 5,729 5,713 5,160 5,452	1,357 1,363 1,393 1,414 1,500	17, 415 18, 966 18, 239 18, 256 21, 159	5,651 6,016 5,897 5,916 5,824	1,307 1,389 1,455 1,598 1,630	8, 793 8, 701 8, 404 8, 346 8, 218	4,839 4,860 5,070 5,280 5,341	37,764 36,602 37,471 36,296 36,657	375, 104 367, 699 369, 274 365, 715 365, 407

2. MEMBER BANKS IN FEDERAL RESERVE BANK CITIES—Continued.

			[III 6	nousanus	or dollar	3, 1. 0., 0	oo omitted	···J					
	Bos- ton.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
United States Victory notes: Nov. 21 Nov. 28 Dec. 5 Dec. 12 Dec. 19 United States certificates of indeptedness:	1,038 985 1,012 953 953	104, 751 97, 782 93, 183 90, 903 84, 287	10, 134 10, 454 9, 793 9, 485 8, 928	6,712 6,639 6,268 6,053 5,465	782 753 756 687 607	828 793 747 724 723	24,326 23,103 22,244 21,213 20,490	2,503 2,305 2,132 2,000 2,144	1,001 772 921 630 259	4,657 4,511 4,364 4,017 3,779	1,384 1,283 1,001 969 865	5,952 6,396 6,191 6,180 7,882	164,068 155,776 148,612 143,814 136,382
Nov. 28. Dec. 5. Dec. 12.	24, 135 30, 322 30, 455	364,530 356,427 338,423 305,172	33, 783 33, 680 44, 464 39, 349	12,368 12,112 17,411 16,610	935 935 1,107 1,157 1,690	13,517 11,742 18,139 17,889 17,775	59,320 59,347 61,575 52,539 51,572	9,832 8,258 11,464 10,553 20,304	8,302 7,190 7,038 6,013 6,176	4, 952 4, 324 5, 179 4, 982 5, 667	2,845 3,611 7,153 6,236 23,004	22,868 23,177 25,372 25,441 23,383	550, 523 544, 938 567, 647 516, 396 562, 946
Dec. 19 Total United States securities owned: Nov. 21 Nov. 28 Dec. 5. Dec. 12 Dec. 19 Loans secured by United States bonds, Victory notes, and certificates: Nov. 28 Dec. 5. Dec. 12 Dec. 19 Loans secured by stocks and bonds, other than United States securities: Nov. 21 Nov. 28 Loans secured by stocks and bonds, other than United States securities: Nov. 21 Nov. 28 Dec. 5. Dec. 12 Dec. 19 All other loans and investments: Nov. 21	28,833 35,180 42,070 41,302 42,787	761, 585 738, 285 716, 585 680, 652 675, 815	73, 371 74, 139 84, 270 78, 140 92, 410	32, 418 32, 069 37, 069 35, 849 35, 136	10, 271 10, 249 10, 408 9, 836 10, 581	18,802 16,998 23,379 23,127 23,098	102, 499 102, 855 103, 496 93, 446 94, 660	28,535 27,128 30,042 29,017 38,820	13,401 12,142 12,205 11,032 10,856	23, 155 22, 289 22, 700 22, 098 22, 417	13,628 14,314 17,784 17,045 33,770	85, 084 84, 675 87, 534 86, 417 86, 422	1, 191, 582 1, 170, 323 1, 187, 542 1, 127, 961 1, 166, 772
notes, and certificates:  Nov. 21.  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Loans secured by stocks	27,170 27,227 29,061 26,053 29,508	523, 662 513, 729 498, 373 498, 321 493, 081	111,361 111,380 101,346 99,837 99,283	26, 239 27, 762 25, 493 25, 460 25, 400	13,918 14,080 14,050 13,974 14,056	6,084 6,132 6,263 6,221 6,365	70, 251 69, 333 68, 988 66, 672 66, 258	21,496 21,479 21,701 21,302 22,211	8,072 8,102 8,480 8,254 8,282	6,002 5,907 6,086 6,024 6,077	1,120 1,150 1,710 2,033 2,057	15,966 16,813 17,298 17,284 18,545	831, 341 823, 094 798, 849 791, 435 791, 123
United States securities: Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19. All other loans and invest-	163, 982 155, 854 153, 931 156, 483 152, 420	1, 286, 057 1, 289, 057 1, 256, 169 1, 292, 134 1, 322, 228	195,089 191,371 192,188 196,729 183,027	124,869 126,110 128,854 127,772 132,372	20,256 19,171 19,076 19,356 19,360	6,166 6,757 6,779 6,597 7,306	373, 091 373, 497 369, 595 373, 488 371, 480	119,824 122,334 121,550 123,136 127,176	14,270 14,342 14,390 14,490 14,608	32, 133 32, 589 33, 005 32, 673 32, 591	9,591 9,657 9,592 9,552 9,785	65,039 63,410 62,760 62,347 62,303	2,410,367 2,404,149 2,367,889 2,414,757 2,434,656
Nov. 28	445,884 448,543 459,590 463,596	2,926,637 2,903,600 2,922,888 2,982,667	425,318 416,603 421,791 421,083	221,067 224,885 228,050 222,295	67,228 66,578 68,351 67,975 67,369	54,762 52,831 53,538 56,057 54,974	763,081 764,808 770,445 782,600 788,779		ł		52, 155	383,952 396,192 393,845 391,590 402,366	5,799,578 5,818,367 5,800,927 5,842,846 5,917,006
Total loans and investments:  Nov. 21  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Reserve balances with Fedderal Reserve Bank:  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Cash in vault:  Nov. 28  Dec. 5  Dec. 12  Dec. 19  Nov. 28  Dec. 5  Dec. 19  Nov. 28  Dec. 19  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 21  Nov. 28  Dec. 19  Dec. 19  Net demand deposits on which reserve is computed:	680,860 664,145 673,605 683,428 688,311	5,487,201 5,467,708 5,374,727 5,393,995 5,473,791	798, 136 802, 208 794, 407 796, 497 795, 803	404,905 407,008 416,301 417,131 415,203	111,673 110,078 111,885 111,141 111,366		1,308,922 1,310,493 1,312,524 1,316,206 1,321,177		İ		91,490	509,050	10, 232, 868 10, 215, 933 10, 155, 207 10, 176, 999 10, 309, 557
Nov. 21 Nov. 28 Dec. 5. Dec. 12. Dec. 19. Cash in vault:	63,759 57,692 65,147 69,527 62,894	652,031 682,727 655,473 637,966 592,798	59,321 54,241 60,618 54,861 57,597	25,553 26,562 25,475 24,960 24,787	7,312 8,909 6,933 8,693 6,262	7,132 6,964 5,198 7,800 6,182	130, 271 126, 836 129, 277 132, 118 129, 821	32,142 32,829 33,158 33,181 29,550 6,009	9,344	19,456 17,908 20,307 14,817 8,699	7, 104 7, 306 8, 111 6, 894 7, 604	36,080 34,506 37,252 33,520 32,654 10,264	1,054,060 1,069,418 1,056,660 1,036,069 968,170 226,261
Nov. 28. Dec. 5. Dec. 12. Dec. 19. Net demand deposits on which reserve is com-	15,324 16,171 16,417 18,450	115, 907 119, 883 118, 772 122, 080	14,357 14,788 15,650 16,304	8,054 8,162 8,653 9,127 8,921	1,749 2,042 1,667 1,665 2,005	2,399 2,314 2,368 2,430 2,585	42,312 41,011 42,737 42,917 43,480	6,421 6,502 6,846 7,321	2,981	4,289 4,134 4,043 4,261 4,021	2,027 2,025 2,127 2,350 2,108	9,640 10,240 10,167 10,196	224, 263 232, 160 233, 583 240, 351
Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19.	607, 183 601, 285 611, 773 623, 175 591, 603	4,673,083 4,685,335 4,578,006 4,659,045 4,624,791	582, 205 580, 308 589, 966 588, 169 552, 165	213, 856 215, 718 213, 662 217, 088 206, 886	74,343 76,016 70,977 72,969 67,374	51,781 51,079 48,389 51,788 49,677	1	1	111,656 110,678 108,991 107,418 105,716		64, 938 62, 810 65, 047 65, 315	270,058	8,020,612 8,022,764 7,918,022 8,032,007 7,876,894
Nov. 28	39,000 39,798 40,652 40,276	336, 312 305, 433 310, 148 313, 749	13.716	157, 542 157, 297 159, 371 160, 301 166, 298 7, 672		18,537 18,633 19,968 19,024 18,070 849	246, 819 249, 201 250, 855 251, 940 253, 695 18, 243	66,819 68,463 68,535 68,333 68,372 3,916	21,540 21,557 21,699 21,226 21,517 1,725	11,715 11,958 10,061 10,091 12,123 3,094	1	201, 955 202, 840 204, 311 207, 170 205, 704 5, 251	1,143,678 1,142,165 1,116,456 1,125,621 1,136,409 186,644
Government deposits:  Nov. 21.  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.	9,632 21,609 15,492 30,343	85,157 163,046 107,797 271,499	9,864	6,698 14,742 10,373	1,657 2,453 1,293	695 7,501 7,120	16,961 31,925	3.043	1,418 3,820 2,873	3,094 2,992 6,547 5,024 6,768	3,040 2,619 10,579 8,987 28,520	5,251 3,063 13,328 10,141 23,912	186, 644 143, 799 309, 917 215, 836 501, 198

### 2. MEMBER BANKS IN FEDERAL RESERVE BANK CITIES—Continued.

[In thousands of dollars; i. e., 000 omitted.]

	Bos- ton.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Bills payable with Federal Reserve Bank: Nov. 21 Nov. 28 Secured by United States war obliga- tions—	28, 833 26, 673	451,119 497,404	71,892 71,799	19, 923 19, 470	7, 290 5, 399	8,357 5,730	50, 691 54, 119	12,662 19,307	7,714 7,591	14,074 13,169	3,600	22, 492 23, 057	695,047 747,318
Dec. 5.  Dec. 12.  Dec. 19.  All other—  Dec. 5.	12,224 27,188 36,180	416, 234 415, 069 298, 806	73,774 74,958 69,684	19,240 20,900 23,595	7,222 8,082 9,704	7,775 8,835 9,110	49,959 43,041 45,962	12,860 11,368 18,129 750	4,884 3,954 4,097	10, 663 10, 905 12, 251	3,925 2,615 1,500	28,720 21,526 15,673	647, 480 648, 441 544, 691 750
Dec. 12 Dec. 19 Bills rediscounted with Federal Reserve Bank:	75,024	203, 256	92,499	09 940	0.077	1 607	EA 071	750	10.000	17.007	0.550	00.077	750
Nov. 21 Nov. 28 Secured by United States war obliga- tions—	81,626	218, 202	92, 499 86, 513	23,346 26,032	3,077 3,128	1,607 1,498	54,671 62,957	6,385 5,505	19,068 20,178	17,897 19,299	2,552 2,802	23, 975 19, 119	523, 357 546, 859
Dec. 5	42,270 48,986 45,321	140,348 138,605 122,446	75,302 76,730 78,696	4,674 4,518 3,959	2,842 2,895 2,813	429 615 615	5,030 3,447 2,467	1,628 1,629 3,526	2, 228 2, 020 2, 289	1,827 1,624 1,344	75 65 33	1,488 1,328 1,596	278, 141 282, 462 265, 105
Dec. 5	33,122 31,589 40,657	100,378 124,155 122,882	11,460 10,872 23,866	20, 521 24, 971 27, 701	143 103 1,180	1,620 1,450 2,591	57,147 75,131 75,874	10,082 10,835 8,290	22,536 26,281 31,063	14,937 13,778 13,967	2,332 1,811 1,588	19,634 14,162 16,318	293,912 335,138 365,977

### 3. MEMBER BANKS IN FEDERAL RESERVE BRANCH CITIES.

	New York District. <sup>1</sup>	Cleve- land District. <sup>2</sup>	Rich- mond District. <sup>3</sup>	Atlanta District.	Chicago District.	St. Louis District.	Kansas City District.	Dallas District.	San Fran- cisco District.	Total.
Number of reporting banks:										
Nov. 21	9	38	19	24	12	18	17	11	30	178
Nov. 28	9	38	19	24	12	18	17	ii	30	178
Dec. 5	9	38	19	24	12	18	17	īĩ	30	178
Dec. 19	0	38	19	24	12	18	17	îî	30	178
Dec. 19. United States bonds to secure circulation: Nov. 21. Nov. 28. Dec. 5.	9	38	19	24	12	18	Îż	îî	30	178
United States bonds to secure circulation:	1								00	1,0
Nov. 21	1,599	24,897	5,583	6,915	1,870	5,255	4,487	7, 108	8,485	66, 199
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, 413 66, 611
Dec. 19	1,599	24,897	5,583	6,915	1,870	5,255	4,237	7,108	8,485	65, 949
Dec. 12. Dec. 19. Other United States bonds, including Liberty bonds: Nov. 21. Nov. 28. Dec. 12. Dec. 12. Dec. 19. United States Victory notes: Nov. 21. Nov. 28.	'	,	,	•	, , , , ,	,	,	,,_,,	,	-0,010
Liberty bonds:						ļ			1	
Nov. 21	7,308	40,114	9,055	22,494	16, 298	7,401	6,518	7,706	14,135	131.029
Nov. 28	7,161	40, 285	9, 125	23,312	16,292	7,585	6,542	7,706 7,833	14,406	131,029 132,541
Dec. 5	7,233	40,311	9,062	23,211	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
United States Victory notes:	′	· '	,		,	,	.,	,,,,,,,	,	-00,001
Nov. 21	4,364	16, 120	3,906	6,767	14,749	3,303	1,444	1,484	4,114	56, 251
Nov. 28	4,390	16,081	3,911	6,659	14,652	3, 239	1,203	1.477	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. 12. Dec. 19. United States certificates of indebtedness: Nov. 21.	3,714	16,500	3,882	5,848	14,478	3,236	1,058	1,558	4,555	54,829
United States certificates of indebtedness:	1	1				1	1	,	,	,
Nov. 21	11,729	46, 173	10,789	14,373	37,727	3,122	7,753	7,724	22,280	161,670
Nov. 28	11.727	44,655	10,754	14,571	37, 526	2,788	8,153	8,0%	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, 233 2, 359	6,484	9,434	24,221	164,024
Dec. 12. Dec. 19. Total United States securities owned:	8,567	40,631	16,518	19, 125	48,025	2,719	9, 191	7,002	21,128	172,906
Total United States securities owned:	'	1	,		,	.,	-,	,,		,000
Nov. 21	25,000	127,304	29, 333	50,549	70,644	19,081	20,202	24,022	49.014	415, 149
Nov. 28	24,877	125, 918	29, 373	51,457	70,340	18, 867	20, 385	24,502	49, 596	415, 315
Dec. 5	24, 214	121, 257	34,532	53, 291	81,411	18,091	19,160	25,609	51,555	429, 120
Dec. 12.	20,843	116, 525	34,672	51,653	82,053	18,860	19, 567	25,979	51,314	421,466
Dec. 19	21,262	123, 239	35, 309	54,518	78,906	19, 174	22, 190	23, 573	48,867	427,038
Nov. 21. Nov. 28. Dec. 12. Dec. 19. Loans secured by United States bonds, Victory notes, and certificates: Nov. 21. Nov. 21. Nov. 21. Nov. 21. Nov. 21.	,	,	,	,	,.,	,	,		-0,00.	-20,000
Victory notes, and certificates:	l	ŧ				l i	Ì		1 }	
Nov. 21	7,203	54,671	9,698	13,329	11,481	7,335	9,643	2,059	6,682	122, 101
		54,376	9, 563	13, 255	10, 989	7,682	9,542	1,969	7,103	120, 770
Dec. 5	6 471	53, 206	9,449	13, 101	10,996	7,898	9,606	1,968	7,254	119,947
Dec. 12	6,379	52, 185	9, 171	12,909	10,724	8,073	9,648	1,960	7,396	118, 445
Dec. 19	6, 268	54,068	9,449	12,734	10,660	8,024	9,790	1,951	7,323	120, 267

3. MEMBER BANKS IN FEDERAL RESERVE BKANCH CITIES-Continued.

	1-	II VII JUSAII				···				
•	New York District.1	Cleve- land District.2	Rich- mond District.3	Atlanta District.4	Chicago District.	St. Louis District.	Kansas City District.	Dallas District.8	San Fran- eisco District.	Total.
Loans secured by stocks and bonds, other than United States securities:  Nov. 21.  Nov. 28.  Dec. 5.  Dec. 19.  All other loans and investments:  Nov. 21.  Nov. 28.  Dec. 5.  Dec. 12.  Dec. 19.  Total loans and investments:  Nov. 21.  Nov. 28.  Dec. 19.  Total pec. 19.  Total loans and investments:  Nov. 21.  Nov. 28.  Dec. 19.  Total loans and investments:  Nov. 21.  Nov. 28.  Dec. 19.  Reserve balances with Federal Reserve Bank:									,	
Nov. 21	40,734 40,411	159,381 161,878	33,509 34,946	32,038 31,790	48,087	26,655	20,749 21,294	13, 553	33,907	408, 613
Nov. 28 Dec. 5	40,411 40,231	161,878 160,864	34, 946 35, 089	$31,790 \\ 33,012$	48,330 49,077	26,655 26,013 27,486 28,214	21,294 $20,844$	13,553 13,239 13,406 12,994	33,907 36,732 37,219 38,090	414, 633 417, 228 420, 838
Dec. 12	39, 843 39, 560	160, 864 162, 825 159, 342	35, 089 34, 695 34, 527	33,012 33,687 34,176	49,539 50,192	28, 214 28, 965	20,844 20,951 21,450	12,994 13,293	38,090 36,315	420,838
All other loans and investments:	110.050	· '					1	'		417, 820
Nov. 28	119, 959 122, 405	409, 720 410, 447	101, 935 98, 473	207, 940 200, 876	277, 201 278, 933	100,081 103,495	155,312 155,120	63,843 65,575	231, 455 231, 422	1,667,446 1,666,746 1,680,319
Dec. 5	122, 405 124, 430 120, 878	412, 485 415, 328 418, 439	96, 780 99, 628	200, 876 207, 358 214, 242	278, 933 282, 265 284, 798	105, 473 107, 507 108, 391	155, 120 154, 724 153, 286	68, 165	228, 639 228, 310 230, 042	1,680,319
Dec. 19	120,699	418, 439	99, 393	218, 968	288, 943		148, 959	66, 154 65, 098	230,042	1,690,131 1,698,932
Nov. 21	192,896	751,076	174, 475	303,856 297,378 306,762	407, 413	153, 152 156, 057 158, 948 162, 654	205, 906	103, 477 105, 285	321,058	2,613,309
Nov. 28 Dec. 5	193, 984 195, 346 187, 943	752,619 747,812	174, 475 172, 355 175, 850	306,762	408, 592 423, 749 427, 114	158,948	206, 341 204, 334	109,146	324, 853 324, 667	2,613,309 2,617,464 2,646,614 2,650,880
Dec. 12	187, 943 187, 789	746, 863 755, 088	178, 166 178, 678	312,491 320,396	427,114 428,701	162,654 164,554	203, 452 202, 389	107,087 103,915	325, 110 322, 547	2,650,880 2,664,057
Reserve balances with Federal Reserve		,		,	1	,		1	322,321	-,001,001
Bank:     Nov. 21.     Nov. 28.     Dec. 5.     Dec. 12.     Dec. 19. Cash in vault:     Nov. 21.	12,330	50, 976	12,391 11,899 12,260	18,920	28,348	10,278	17, 231 12, 124 14, 072	7,913 7,634 7,647 8,451 7,641	23,778	182, 165 171, 238 178, 225 186, 452
Dec. 5	11,256 13,880	47, 192 48, 236	12,260	18,896 18,610 21,338 . 22,100	28,372 26,468	9,698 10,450	14,072	7,634	24,167 26,602	171, 238 178, 225
Dec. 12	12,260 12,628	48, 861 45, 008	12,669 12,314	21,338	32, 436 26, 685	9,346 10,058	15,893 17,505	8, 451 7, 641	25, 198 24, 924	186, 452 178, 863
Cash in vault:	2 700	17, 175	5,809	7,280	14,839	4,715	5, 139	2,881	, ,	
Cash in vauit: Nov. 21. Nov. 28. Dec. 5. Dec. 12. Dec. 19.	2,700 2,862	14, 689 17, 332	5,204	8 073	15,033	5, 272 5, 226	5, 240	3, 123	7,755 7,783 7,406 7,222 7,842	68, 293 67, 279 68, 228 66, 301
Dec. 5	3,001 3,169	17, 332 15, 967 17, 554	5, 450 5, 187	7,476 7,414	14, 280 14, 150	4,859	5, 114 5, 238	2,943 3,095	7,406 7,222	68, 228 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	128, 723	446, 461	110,314	178, 884	211,675	91, 258	139,610	68,749	196,711	1,572,385
Nov. 28 Dec. 5	128, 221 127, 430	439, 971 443, 806	107, 893 105, 490	182, 496	215, 031 206, 416	91, 450	139, 656 133, 530	70,946	196,711 197,139 198,876 202,525	1,572,385 1,572,803 1,559,823
Dec. 12 Dec. 19	126, 925 126, 029	447, 133 440, 108	108, 041 106, 964	182, 496 180, 883 187, 488 194, 091	235, 085 207, 616	91, 450 92, 182 95, 966 99, 399	136, 450 134, 171	70,946 71,210 67,000 68,213	202, 525 198, 854	1,606,613 1,575,445
Time deposits:	31,087	, -	!		190, 844	33,392	Į.		'	1
Nov. 28	31, 261 31, 283	95, 246 95, 316 96, 109 95, 716 93, 473	19,591 19,591 19,621	65, 398 64, 989 65, 177 65, 859	192,334 193,850	33,610	41, 433 41, 692 42, 369 42, 905	17, 207 17, 298 13, 528 17, 526 17, 445	105, 841 105, 807 106, 803 105, 771 105, 941	600, 039 601, 898 604, 279 607, 512 606, 099
Dec. 12	31, 283	95, 716	19,176	65, 859	193,936	33,610 35,539 35,042	42, 309 42, 905	13, 528	106, 803	604,279
Dec. 19	31,631	1	18,960	00,108	194, 066	34, 991	40,404	1		1
Nov. 21 Nov. 28	473 331	8, 140 5 904	3,481 3,033	2,056 1,739 7,851 6,860	1,807 1,493	545 465	1,660 1,585	635 561	2,301 1,810 3,929 2,614	21,098 16,921
Dec. 5	2,786 2,572	10, 212	7,936	7,851	12,951	1,477	2,929	2, 225 1, 662	3, 929	52, 296
Dec. 19	3,654	5, 904 10, 212 7, 342 28, 960	7,936 6,026 7,448	13,808	12, 951 12, 087 12, 087	1,173 2,919	1,585 2,929 2,004 4,562	3, 282	4,374	16, 921 52, 296 42, 340 81, 094
Nov. 21	24, 643	73,542 78,766	20,478	33,891	29,067 27,399	7, 932 8, 399	14, 781 14, 605	7,964 8,299	13,420 14,901	225, 718 225, 217
Net demand deposits on which reserve is computed:	23, 218	78, 766	15,601	34, 029	27,399	8,399	14,605	8, 299	14,901	225, 217
gations— Dec. 5. Dec. 12. Dec. 19. All other—	21.474	68.056	19,695	32, 400	31.458	8,021	10,592	8,890	16,606	215 192
Dec. 12	16,799	66,056 66,472 62,239	21,945	32, 400 31, 335 30, 515	31, 458 30, 124 24, 716	6,517 7,068	10, 498 12, 407	9,675 7,480	14,764 10,503	215, 192 208, 129 193, 436
All other—	19,292	02,200	19, 210				1			
Dec. 5				200 200			3.570	215 215	100 100	3, 252 4, 085 4, 015
All other— Dec. 5. Dec. 12. Dec. 12. Dec. 19. Bills rediscounted with Federal Reserve			•••••	15			3,588	77	335	4,015
Bank: Nov. 21	3,605		1	26.533	2.513	14.448	14,206	3.066	4,764	90.165
Bank: Nov. 21. Nov. 23. Secured by United States war obligations— Dec. 5. Dec. 12. Dec. 19. All other—	4,079	9,516 10,115	11,514 13,277	26,533 26,121	2,513 3,054	14,448 14,777	11,021	3,066 2,760	5, 126	90, 165 90, 330
gations—					0.05	0.000	0.50			
Dec. 5 Dec. 12	2,228 2,147 2,360	3, 245 3, 867 4, 204	5,545 5,451 5,650	1,492 1,478 1,588	2,024 1,718 1,700	2,891 2,344 2,970	2,582 1,915 1,778	8	1,376 1,105 771	21,391 20,033 21,112
Dec. 19	2,360	4,204	5,650		1,700		1,778	91	i	
Dec. 5	2,293	8,451 9,912	9,539	25,055	300	13,471	10,863	2,564	4,320	76,856
Dec. 19	2,793 816	6, 642	8,988 10,239	25, 055 22, 520 20, 626	1,040 1,685	13, 471 12, 356 9, 168	11, 264 11, 250	2,564 2,237 2,339	4,074 5,550	76, 856 75, 184 68, 315
	]	1	l	1	<u> </u>	1	1	1	<u> </u>	<u> </u>

Buffalo.
 Cincinnati and Pittsburgh.
 Baltimore.
 New Orleans, Jacksonville, Nashville, and Birmingham.
 Detroit.

Louisville, Memphis, and Little Rock.
 Omaha and Deuver.
 Ει Paso and Houston.
 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.	From Jan. 1 to Dec. 10, 1919.	From Jan. 1 to Dec. 110, 1918.
IMPORTS.					
Ore and base bullion. United States mint or assay office bars.	461	195	549	15,714	14,846
Bullion, refined. United States coin.	251	535 3	39 21	32, 391 10, 766	39, 246 6, 785
Foreign coin.			2,500	7,858	6,785 183
Total	712	733	3,109	66,729	61,066
EXPORTS.					
Domestic: Ore and base bullion				20	204
United States mint or assay office bars		2,282	3,300	105,869 12,625	4, 485 3, 399 31, 187
Coin	8,397	12,865	20, 743	226, 949	31, 187
Total	18, 421 15	15, 150 78	24,047 87	345, 463 599	39, 275 <b>426</b>
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.	From Jan. 1 to Dec. 10, 1919.	From Jan. 1 to Dec. 10, 1918.
IMPORTS.					
Ore and base bullion		2,147	2,280	68,365	42,335 51
Bullion, refined United States coin Foreign coin	244 19	212 21 563	160 99 6	7,776 1,007 5,122	20, 436 1, 239 4, 337
Total	2,160	2,943	2,545	82,270	68,398
Domestic: Ore and base bullion				5	19
United States mint or assay office bars Bullion, refined. Coin.	456 8,165	296 1,115 3,885	83 6,289 10,759	72, 255 109, 740 17, 252	50, 970 154, 173 3, 107
Total	8, 647	5, 296	17, 131	199, 252	208, 169
Foreign: Ore and base bullion				1	
Bullion, refined. Coin.	2,361 191	251 1,384	1,394 162	22, 323 5, 537	5, 574 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 United States Treasury and Federal Reserve system.	Amount per capita outside United States Treasury and Federal Re- serve system.
Gold coin 2. Gold certificates.		<b>\$</b> 386, 3 <b>8</b> 3, 890	\$1,362,566,644 368,667,330	\$435, 330, 240 280, 273, 031	
Standard silver dollars	308, 145, 759	66, 384, 518	6,311,444	82, 416, 283	
Subsidiary silver.  Treasury notes of 1890.	246, 540, 741	4,589,321	3,675,137	238, 276, 283	
United States notes. Federal Reserve notes.	346, 681, 016	19, 192, 220	4 56, 188, 371	271, 300, 425	
Federal Reserve Bank notes	263, 022, 800	39, 346, 741 57, 552, 256	183, 739, 175 8, 507, 204	196, 963, 340	Ì
National bank notes	722, 142, 160	44, 327, 374	3, 489, 894	674,324,892	
Total:  Dec. 1, 1919  Nov. 1, 1919  Oct. 1, 1919  July 1, 1919  Apr. 1, 1919  Jan. 1, 1919  Oct. 1, 1918  July 1, 1918  Apr. 1, 1918  Apr. 1, 1918  Jan. 1, 1918  Jan. 1, 1918  Oct. 1, 1917  July 1, 1917  Apr. 1, 1917	7, 721, 581, 106 7, 662, 898, 238 7, 588, 473, 771 7, 586, 752, 855 7, 780, 793, 606 7, 391, 008, 277 6, 742, 225, 784 6, 480, 181, 525 6, 256, 198, 271 5, 642, 264, 856 5, 480, 009, 884	617, 776, 320 604, 552, 807 616, 213, 318 578, 848, 043 550, 628, 454 454, 948, 160 380, 246, 203 356, 124, 750 339, 856, 674 227, 043, 358 242, 469, 027 253, 671, 614 258, 198, 442	1, 993, 145, 199 2, 083, 098, 639 2, 087, 709, 360 2, 167, 280, 313 2, 195, 151, 766 2, 220, 705, 767 2, 084, 774, 897 2, 018, 361, 825 1, 873, 524, 132 1, 723, 570, 291 1, 429, 422, 432 1, 283, 880, 714 952, 964, 705	5, 172, 222, 957 5, 033, 909, 660 4, 958, 975, 551 4, 842, 345, 415 4, 840, 972, 635 5, 105, 139, 679 4, 925, 987, 177 4, 367, 739, 209 4, 266, 800, 719 4, 265, 884, 622 3, 970, 373, 397 3, 945, 457, 556 4, 100, 976, 125	\$48.54 47.28 46.61 45.00 45.17 47.83 46.34 41.31 40.47 40.53 37.97 37.88 39.54

<sup>1</sup> Includes reserve funds against issues of United States notes and Treasury notes of 1890 and redemption funds held against issues of national-bank notes, Federal Reserve notes, and Federal Reserve Bank notes.

2 Includes balances in gold settlement fund standing to the credit of the Federal Reserve Banks and agents.

3 Includes standard silver dollars.

4 Includes Treasury notes of 1890.

# DISCOUNT RATES.

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

	Discounted ber banks maturing by—	i bills (inclu s' 15-day colla gwithin 90 da	ding mem- teral notes) tys, secured	Trade	Discounted bills, so cured otherwise that by Government we obligations, also unly secured, maturin within—		
Federal Reserve Bank.		ertificates of ness bear- est at—	Liberty bonds and	accept- ances maturing within 90 days.1	90 days (including	91 to 180 days (agri-	
	4½ per cent.	4½ per cent.	Victory notes.		member banks' col- lateral notes).2	cultural and live- stock paper).	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44-5-14-14-14-14-14-14-14-14-14-14-14-14-14-	44 4 4 4 4 4 4 4 5 5 4 4 4 5 5 6 4 4 4 5 6 6 4 6 6 6 6	44444444444455544	44 4 4 4 4 4 4 4 5 5 4 4 4 4 5 5 4	5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	

Rate also applies to bankers' acceptances discounted by the New York and Cleveland banks.
Rate on paper secured by War Finance Corporation bonds, 1 per cent higher.
Rate of 49 per cent on customers' paper.
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 York during the three months ending December, 1919.

	Exchange	Oct	ober.	Nove	mber.	Decer	nber.
	at par.	Low.	High.	Low.	High.	Low.	High.
London:							
60-day bankers' billsdollars for £	4.8665	4.13	4.215	3.97	4. 1425	3.6325	<b>3.</b> 9550
Demand billsdo	4.8665	4.15	4.2325	4.00	4.1625	3.6575	3.9875
Cable transfersdo	4.8665	4.1575	4.24	4.01	4.17	3.6650	3. 9950
Paris:			. 1				
Demand bills	518. 1347	887.00	838.00	983.00	884.50	1,183.00	992.00
Cable transfersdo	518, 1347	885.00	836.00	981.00	883.00	1, 181.00	990.00
Berlindollars for 100 marks <sup>1</sup> Milan:	23.82	3. 25	4.375	2. 10	3.25	1.90	2.60
Demand billslire 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
Praguedollars for 100 kronen 1	20. 26	2.35	3.85	1.50	2.40	1.70	2.10
Viennado	20. 26	.85	1.65	.68	1.00	.50	. 73
Jugo-Slavia do Warsaw dollars for 100 marks <sup>1</sup>	20.26	1.45	2.15	1.00	1.50	.79	1.00
Warsawdollars for 100 marks 1	23.82	2.30	3.85	1.40	2.35	.92	1.65
Brusselsfrancs for 100 dollars 1	518. 1347	868.50	835.00	941.00	832.00	1,120.00	940.00
Madriddollars for 100 pesetas	19.30	19.08	19.28	19. 28	20.10	18.90	19.90
Helsingforsdollars for 100 markka1	19.30	3.50	5.25	3.00	4.475	3.00	3.45
Athensdollars for 100 drachma 1	19.30	17.25	18.90	16.50	18.00	14.80	16.50
Sofiadollars for 100 lev.1	19.30	3.00	4.50	2. 50	3.00	2.25	2.70
Bucharestdollars 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
Amsterdamdollars for 100 florins	40. 20	37. 4375	38.0625	37. 25	38.00	37.25	38. 25
Stockholmdollars 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
Christianiado	26.80	22.60	23.20	21.50	22.65 550.00	19.45 560.00	21.50 498.00
Zurich francs for 100 dollars	518. 1347	566.00	556.00	560.00	96.25	90.3125	95. 25
Mexico City	100.00 49.85	96.00	96.75	94.75	90. 25 50. 50	50.3125	95. 25 50. 50
Bogotadollars for 100 Colombian dollars 1.	97.33	49.00 98.00	49.125 100.50	49.125 100.00	100.50	98.50	100.00
Montevideocentavos to dollar 1	96.69	99.50	96.80	96.80	94.00	95.40	94.80
Buenos Airesdollars for 100 gold pesos 1.	96.48	103.60	104.00	101.80	103.85	101.70	102. 25
Die de Teneiro dellere for 100 pener milraie l	8 54. 62	25.00	25.70	25.00	25. 25	27.75	33.00
Rio de Janeirodollars for 100 paper mifreis <sup>1</sup> Valparaisodollars for 100 paper pesos <sup>1</sup>	4 36, 50	20.00	21. 25	20.50	20. 50	19.34	20.50
Yokohama dollars for 100 yen.		50,50	50.75	50, 25	50.75	50.00	50.50
Hongkongdollars for 100 Hongkong dollars	40.00	87.00	96.00	94,00	106.00	95.00	106.50
Shanghaidollars for 100 Shanghai taels		135.50	142.00	140.50	175.00	155,00	170.00
Singaporedollars for 100 Singapore dollars 1.	56.78	53.00	56.00	54.00	54.00	54.00	54.00
Calcuttadollars for 100 rupee	32.44	42.00	44.00	42.00	44.75	43.75	46.25
London average price of silver at nominal rate of £ (\$4.8665)	1	1			1		
dollars per fine ounce)		1.46	511		3508	1.63	7549
New York average price of silver (dollars per fine ounce)		1.19			7609	1 3	1976

<sup>&</sup>lt;sup>1</sup> Cable rates.

<sup>&</sup>lt;sup>2</sup> Checks (demand).

<sup>&</sup>lt;sup>3</sup> Rate for a gold milreis.

Rate for gold peso.

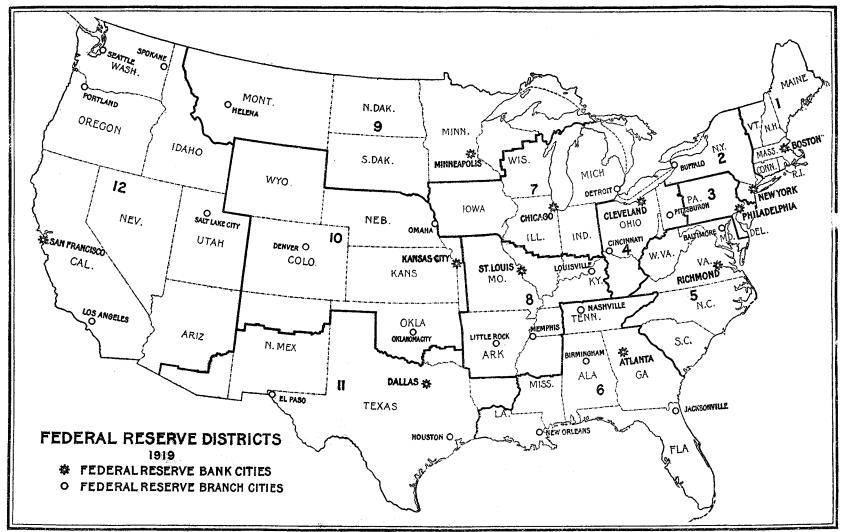
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0



The branches at Helens, Mont., and Oklahoma City, Okla., have been authorized by the Federal Reserve Board but are not yet open for business.